

UTAH MINES LTD.

EXPLORATION DEPARTMENT

SUITE 1600, 1050 W. PENDER STREET • VANCOUVER, B.C., CANADA V6E 3S7
(604) 683-6921

February 8, 1982.

Mining Recorder & Claims Inspector
800 Hornby Street
Vancouver, B.C.

Dear Sir:

Re: Assessment Report - Poplar Groups

Please find attached two copies of "Appendix B - Assay Logs", which form an integral part of the above report.

In accordance with the Mineral Act Regulation C 1 (7), I respectfully request a five (5) year period of confidentiality for these appendices.

Please advise me if this cannot be granted.

Yours truly,



G.L. Holland
Geologist

GLH/pc

MINERAL RESOURCE BRANCH
ASSESSMENT REPORT
D. _____

10298
part 2
of 2

PC-69

COMPOSITE DRILL LOG

CORE SIZE :	NQ wireline	SCALE :	1:100	PROJECT :	Poplar Lake	HOLE No. :	PC-69
CASING COLLAR ELEV.:	917.5m	GROUND ELEV.:	917.3m	DATE STARTED :	October 30, 1981	PAGE No. :	1 OF 23
COORDINATES :	6003.7 N. 12001.2 E.	DATE FINISHED :	November 2, 1981	REF. TO CLAIM CORNER :		LOGGED BY :	G.L. Holland
INCLINATION :	-090°	AZIMUTH :		*TOTAL DEPTH :	337.11 m		

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												
5								0.31 - 27.4 OVERBURDEN												
10																				
15																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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 : 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.													% Cu	% Mo		Oz/ton Ag	ton Au	
30							→ 10cm gouge zone 30.6 m gouge contact @ 50° to C.A. BIOTITE - FELDSPAR PORPHYRY - pale green to grey color - strong porphyritic texture - crowded - composition - 30-40% phenos - 95% plag → ser + clay - 5% bio → sericite - groundmass - silica + sericite.					4%			85002C		30	0.40	0.002			
							→ 30cm gouge zone → 1cm qtz vult. - strongly altered - relic bio phenos remain - qtz s/w moderate - fracturing - moderate - phenos up to 4mm in size						0.15%			33	0.11	0.002				
35							→ 15cm gouge zone * Note d cpy decrease across contact @ 30.6m - due to decrease in fring						0.10%			36					0.04	20.003
							→ 1cm qtz-py vult - color alternates from light to dark grey. PHYLLIC ALT'N					2-2 1/2%	0.10%			39	0.10	0.002				
							→ 1cm carb vult → 1cm py vult.						0.15%			42						
40							- traces of red hematitic staining present in some plag phenos						0.10%			45	0.10	0.005				
							→ 1cm gyp vult → 1.5cm py vult.															
45																						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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. B.I.D.												% Cu	% Mo	Ag	Au
45	v. str.	v. str.	v. wk	SEC. B.I.D.			BIOTITE - FELDSPAR PORPHYRY cont.								45				Ox/ton Ag Au
							str qtz s/w												
							- zones of strong qtz s/w mixed w zones of weak s/w					0.10%	85007C			0.11	0.003		
							1cm gyp unit.												
							1cm qtz unit												
50							str qtz s/w					0.10%	85008C			0.18	0.003		0.01 0.003
							2cm carb gyp unit - numerous H/L gypsum vnits ~ 12-15 per meter												
							0.8cm gyp unit												
							Alt'n strong - phyllic phase - phenos distinct					0.10%	85009C			0.16	0.003		
							1cm carb-py unit												
55							1cm py unit. ** cpy is v. fine grained and it would not be hard to underestimate					0.15%	85010C			0.17	0.002		
							3cm qtz unit												
							1.5cm qtz unit * H/L frts ; py vnits show some displacement of the qtz units												
							40cm silicious zone												
							1.5cm py-carb unit cuts 1.5cm qtz unit.					0.10%	85011C			0.17	0.002		
60																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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	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	% Mo	Ag	Au	Oz/Ton Au
60	↑	↑	↑	↑	mod	BIOTITE - FELDSPAR PORPHYRY cont.	1cm gouge zone								60					
	↑	↑	↑	↑	mod	Minor hematite staining of fspars	15cm carb unit.				0.15%		85012C			0.16	0.002		0.02	0.003
	↑	↑	↑	↑	mod	63.0 - decrease in fpts, py units	0.5cm chl unit								63					
	↑	↑	↑	↑	mod	Rock takes on a darker grey tone - more silica	0.5cm py unit									0.14	0.002			
65	↑	↑	↑	↑	mod	Phyllic alt'n - very strong	1cm carb unit			2-3%					66					851.5
	↑	↑	↑	↑	mod		12cm qtz unit.				0.15%		85014C			0.14	0.002			
	↑	↑	↑	↑	mod	69.0 - Increase in s/w and fring	str qtz s/w								69					
70	↑	↑	↑	↑	mod		2cm qtz unit				0.10%		85015C			0.21	0.002		0.03	0.003
	↑	↑	↑	↑	mod		1cm py unit													
	↑	↑	↑	↑	mod		1cm qtz unit													
	↑	↑	↑	↑	mod		1cm py unit													
	↑	↑	↑	↑	mod		1.5cm qtz unit													
	↑	↑	↑	↑	mod		2cm gyp unit													
75	↑	↑	↑	↑	mod								85016C			0.15	0.004			

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-69
 PAGE No. 6 OF 23
 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. B/D.													% Cu	% Mo	Ag	Au
75	strong	moderate	weak				BIOTITE - FELDSPAR PORPHYRY									75				
							→ 1.5cm qtz unit						0.10%	85017C			0.16	0.005		
							- hematitic staining of altered fspar phenos common									78				
							→ 0.9cm py unit													
80							→ 2cm qtz unit. - Qtz slw moderately developed						< 0.10%	85018C			0.05	0.004		
							- Numerous 1/2 gyp units									81				
							→ 0.6cm py unit						< 0.10%	85019C			0.07	0.004		
85							Phyllic alt'n						< 0.10%	85020C			0.10	0.003		
							→ 1cm qtz unit									84				
													0.10%	85021C			0.13	0.002		
																87				
90																90				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 7 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	OZ/tom Ag	OZ/tom Au	
8	strong	moderate	v. weak		moderate PY - CPY		DESCRIPTIVE GEOLOGY BIOTITE - FELDSPAR PORPHYRY 90.4 - Qtz s/w decreases - Gypsum vining ~ 15-20/meter.			2%	0.10%	B5022C		90	0.13	0.002	0.01	0.000		
95	very weak				weak	→ 10° contact 94.3m sharp contact @ 10° to c.a. TRACHYTIC RHYODACITE BRECCIA DYKE (PMD) - dark brown color w sections of bleached (pale green) rock. - trachytic texture strong - lathes not aligned or oriented - contains several H/L carbonate units. - plag lathes → sericite → 2cm gouge zones - fragments are rounded to subrounded - brn - poss argillite - contains many calcite amygules → 2cm gouge zones			< 0.5%	nil	B5023C		93	0.16	0.001					
100														94.3						
105																				

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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 : 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	Oz/Ton Ag	Oz/Ton Au				
105							TRACHYTIC RHYOLACITE BRECCIA DYKE → 3cm gouge zone				< 0.5%	nil												
110							→ 20cm gouge zone 109.9m Gouge Contact @ 80° to C.A. → 1cm gouge zone BIOTITE-FELDSPAR PORPHYRY → 5cm gouge zone - brownish grey colored - crowded porphyritic texture - comp → 1cm py-gyp vnt. - 30% phenos - 90% plg → sericite → 2cm gouge zone w gypsum. - 5% bio → sericite - 70% g.m. - silica, sericite, see bio - Qtz s/w weakly developed - gypsum vning moderate. - A lot of pink hem staining on fms - numerous 1/4 py vnts - phenos completely altered but distinct.					2-3%	0.10%	0.10%	85024C	109.3			0.04	0.006			808.2	
115							→ 2cm gtz vnt - Weak potassic phase → 1cm py vnt																	
120							→ 1cm gtz vnt → 1cm gyp vnt.																	

Not sampled

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-69
 PAGE No. 9 OF 23
 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	Ag	Tm
120	↑	↑	↑	↑	↑		BIOTITE - FELDSPAR PORPHYRY cont.													
							1cm gouge zone	123.6 - Qtz s/w picks up - moderate.					0.10%	85028C		120	0.14	0.003		
125								sulphides very fine grained - estimates probably low!					0.15%	85029C		123	0.18	0.003		
							str. qtz s/w.	wk potassic alt'n					0.15%	85030C		126	0.27	0.006		
130							1.3cm qtz unit.	s/w still increasing					0.10%	85031C		129	0.33	0.004	0.01	20.00
							1.5cm qtz unit.						0.15%	85032C		132	0.24	0.011		
							1.2cm qtz-py unit													
							1.5cm qtz unit													
135																				

2-3%

791.5

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-69
 PAGE No. 10 OF 23
 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	Ag	Au
135							BIOTITE - FELDSPAR PORPHYRY cont												
							→ 0.8cm py unit					0.10%	85033C		135	0.21	0.004		
							- Qtz s/w moderate												
							→ 1.5cm py-qtz unit												
140							* Periodic zones of 0.30% Cu Very small and not continuous - corresponds to increase in s/w					0.15%	85034C		139	0.29	0.007		
							→ 1.2cm qtz unit												
							→ 1cm qtz-carb unit					0.20%	85035C		141	0.32	0.003		0.01
							Numerous H/L py units												
							→ 3x1cm qtz units.												
145							Visual Cu increasing					0.20%	85036C		144	0.36	0.003		
							→ 1cm gouge zone.												
												0.15%	85037C		147	0.19	0.002		
							→ 0.8cm py unit												
150																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : *PC-69*
 COORDINATES : N. E. DATE FINISHED : PAGE No. *11* OF *23*
 INCLINATION : AZIMUTH : TOTAL DEPTH : 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	SERCITE	CLAY	SEC. BTO.												% Cu	% Mo	oz/t Ag	oz/t Au	
150	↑	↑	↑	↑			BIOTITE - FELDSPAR PORPH. cont								150					
155	↑	↑	↑	↑			2cm gyp w py						85038C		153	0.23	0.006			
	↑	↑	↑	↑			WK potassia alt'n						85039C		156	0.15	0.001		0.05	0.003
	↑	↑	↑	↑			0.8cm py unit						85040C		159	0.15	0.002			
	↑	↑	↑	↑			2cm gouge zone						85041C		162	0.26	0.004			
	↑	↑	↑	↑			1cm qtz unit						85042C		165	0.21	0.003			
	↑	↑	↑	↑			1cm gouge zone													
	↑	↑	↑	↑			158.0 Gouge contact @ 30° to C.A Q.F.B.P #2 DYKE													
	↑	↑	↑	↑			159.0 Gouge contact @ 25° to C.A BIOTITE - FELDSPAR PORPHYRY													
	↑	↑	↑	↑			1cm gouge zone													
	↑	↑	↑	↑			1cm qtz unit													
	↑	↑	↑	↑			159-169 - Rock is very strongly altered - phenos obliterated													
	↑	↑	↑	↑			2cm gouge zone - Qtz s/w strong													
	↑	↑	↑	↑			1cm qtz-carb unit - cpy contained within micro frts ; silicious patches													
	↑	↑	↑	↑			2cm qtz unit													

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. : FC-69
 PAGE No. 12 OF 23
 REF. TO CLAIM CORNER :
 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	Oz/Ton Ag	Ton Au
165	Strong	v. strong					BIOTITE - FELDSPAR PORPHYRY cont.							85043C		165	0.25	0.003		
							1cm gyp vnt.													
							1cm qtz vnt	- starting to see spy in the py vnts												
								Qtz s/w - strong												
170								169.0 - Phenos become quite distinct again						85044C		168	0.25	0.002		0.29
							1cm gouge zone													
							3cm gouge-bxx zone													
							1cm py w py vnt													
								Phyllic to v. weak potassic alt'n.												
							2cm qtz vnt.	Qtz s/w mod to strong						85045C		171	0.21	0.002		
							1cm gouge zone													
175																				
							1cm qtz vnt													
							0.7cm py-cpy vnt.													
180							1cm gouge zone							85047C		177	0.23	0.001		

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-69
 PAGE No. 13 OF 23
 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	g/t Ag	g/t Au
180							BIOTITE - FELDSPAR PORPHYRY cont.									180	0.22	0.002	0.08	0.003
							Noting that a silicious envelope is developing around the frts units.													
							→ 0.5cm py unit													
							→ 1cm qtz unit													
							Gypsum vning weak													
185							Qtz s/w mod developed													
							→ 1.5cm qtz unit w MoS ₂													
							→ 3cm qtz-carb unit													
							Upper phyllic to wk potassic alt'n phase													
							→ 1cm gouge zone													
190																				
							→ 1cm qtz unit													
							→ 2cm gouge zone													
							→ 1.5cm qtz unit													
195																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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 Cu	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BIO.													% Cu	% Mo	oz/t Ag	oz/t Au
195							BIOTITE-FELDSPAR PORPHYRY cont							85053C		195				
							→ 0.4cm cpy unit.													
							→ 0.7cm gouge zone						0.40%				0.27	0.003		
							→ 2cm qtz unit													
							→ 2cm gouge zone													
							→ 2.6cm gouge zone													
							→ 1cm gyp. unit													
							Qtz s/w mod-str developed													
200																				
							→ 1cm gyp unit						0.40%				0.33	0.004		
							Upper phyllic to wk potassic altn.						0.35%				0.34	0.004	0.08	0.005
							→ 1cm qtz unit													
							Gyp vning weak													
							→ 0.8cm py unit						0.40%				0.35	0.003		
							→ 2.5cm gouge zone													
							→ 1cm qtz unit													
							→ 2cm qtz unit						0.40%				0.39	0.005		
210																				

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-69
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 15 of 23
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	% Mo	Oz/Ton Ag	Oz/Ton Au		
210					BIOTITE-FELDSPAR PORPHYRY cont.								210						
					20cm qtz unit						85058C			0.40	0.004				
					1cm qtz unit Qtz slw mod-str.								213						
					1cm qtz unit						85059C			0.39	0.006		0.11	0.003	
215					Upper phyllic alt'n.				.3-3 1/2%										
					1cm py-qtz unit - cpy contained in micro siliceous units; sil. patches					0.50%	85060C			0.36	0.006				
					1cm py unit								216						
					1cm qtz unit					0.50%									
					1.5cm qtz unit						85061C			0.48	0.002				
220					1cm gouge zone out 1cm qtz unit					0.40%									
											85062C			0.32	0.002				
222																			
225																			

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-69
 COORDINATES : N. E. DATE FINISHED : PAGE No. 16 OF 23
 INCLINATION : AZIMUTH : TOTAL DEPTH : m 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. B.D.													% Cu	% Mo	Ag	Au	
225							BIOTITE → FELDSPAR PORPHYRY CONT				3					225					
							→ 1cm qtz-py-cpy unit.	225.6m vein contact @ 5070 c.m.													
							→ 1.5cm qtz unit	ARGILLITE													
								- contains many BFP sections as we are following the contact for awhile.					0.45%	85063C				0.18	0.004		
							→ 1.3cm carb unit w sph & gal.														
							→ 1cm py-cpy-gyp carb unit														
								- tan to grey color													
								- very strong to intense frtng					0.40%	85064C				0.34	0.009	1.01	0.004
							→ intense s/w	- intense altn - sericitization													
								- silicification													
							→ 1cm qtz unit.	- sulphides contained in frts													
								+ sil-ser zones.													
								- qtz s/w v strong													
							→ 1cm qtz unit.														
							→ 0.8cm py unit.	- cpy v. fine grained													
							→ 1cm qtz unit.														
							→ BFP														
							→ 1cm qtz unit.														
240																					

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-64
 PAGE No. 17 OF 23
 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. BLD.													% Cu	% Mo	Ag	Tm
240	Strong	very strong	MOD				1cm qtz unit. ARGILLITE cont.					0.35%	85068C		240	0.34	0.003	0.0	0.003	
							1cm qtz unit													
							1cm qtz unit Qtz s/w strongly developed													
245							2cm qtz unit Alt'n - wk potassic					0.35%	85069C		243	0.25	0.003			
											3/4 - 4%	0.35%	85070C		246	0.29	0.002			
							0.5cm py unit.													
250							1cm py-carb unit.					0.30%	85071C		249	0.30	0.002	0.07	0.003	
							series of qtz + py units													
							3cm gouge zone w qtz													
255							1cm qtz unit							85072C		252	0.28	0.002		

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-69
 PAGE No. 18 OF 23
 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. B.I.D.													% Cu	% Mo	O ₂ /Ton Ag	Ton Au	
255	↑	↑	↑	↑	↑		ARGILLITE cont.														
	↑	↑	↑	↑	↑		Qtz s/w very strong						0.25%	85073C				0.43	0.003		
	↑	↑	↑	↑	↑		1cm qtz unit.														
	↑	↑	↑	↑	↑		1cm gouge zone.														
260	↑	↑	↑	↑	↑		260.6m														
	↑	↑	↑	↑	↑		260.6-268.3 - Fault zone w small sections of dyke QFP-1														
	↑	↑	↑	↑	↑		QFP Dyke.														
	↑	↑	↑	↑	↑		260.6-268.5 - BIOTITE - FELDSPAR PORPHYRY														
	↑	↑	↑	↑	↑		-very strong alteration - phenos are mostly obliterated														
	↑	↑	↑	↑	↑		2cm qtz unit.														
	↑	↑	↑	↑	↑		2cm gouge zone														
265	↑	↑	↑	↑	↑		5cm gouge zone.														
	↑	↑	↑	↑	↑		265.3-265.7 - PMD - Q.F.P. - 1														
	↑	↑	↑	↑	↑		~ 80% to G.A.														
	↑	↑	↑	↑	↑		Qtz s/w very strong														
	↑	↑	↑	↑	↑		1.5cm qtz unit														
	↑	↑	↑	↑	↑		268.5m sharp contact @ 80° to G.A														
	↑	↑	↑	↑	↑		PMD - Q.F.P. #2														
	↑	↑	↑	↑	↑		-light green to dk brn color, qtz phenos														
	↑	↑	↑	↑	↑		-weary frted														
270	↑	↑	↑	↑	↑																

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar Lake HOLE No. : PC-69
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 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	Oz/Ton Ag	Oz/Ton Au		
270					weak			PMD - Quartz-Feldspar Porphyry cont														
								→ 2cm gouge 271.4m Gouge contact @ 70° to C.A. 1cm qtz unit BIOTITE - FELDSPAR PORPHYRY			<0.5%		0.20%	85078C		270	0.22	0.001				
								- contains periodic patches of altered argillite → 1.5cm gouge zone. 1cm qtz unit. - strongly altered - potassic phase - phenos often obscured					0.40%	85079C		273	0.38	0.003			0.07	<0.003
275								Argillite - qtz s/w strongly developed. - 1st appearance of good sec. bio. (in quantity and persistence) - pale green to dk brn color - pheno size appears to be a bit smaller. than before.					0.40%	85080C		276	0.29	0.003				
								→ 1cm qtz unit - comp - 40% phenos - 35% plag → ser → 1cm gouge w qtz - 5% bio → ser → 2cm gouge zone - 60% gm - sec. bio, silica, sericite → 1cm py unit				3-3 1/2%		85081C		279	0.43	<0.001				
280								274.3 - 276.2 m - Argillite - contains a lot of faults → 3cm gouge zone → 1cm qtz unit.					0.40%	85081C		282						
								→ 1cm vuggy qtz unit → 1cm qtz unit.					0.40%	85082C		285	0.50	<0.001				
285								→ 1.5cm qtz unit														

moderate to strong
 moderate to periodic strong
 strong
 Py-cpy - (MoS₂)

635.5

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : FC-69
 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 REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. BIO													% Cu	% Mo	Ag	Au	
285	↑	↑	↑	↑	↑		1cm gouge zone 1.5cm qtz unit. 1cm qtz-py unit Gouge contact Andesite 287-287.8 - Andesite Dyke sharp contact @ 45°									285	0.36	<0.001		0.2/ton Ag Au	
290	↑	↑	↑	↑	↑		2cm qtz unit 1cm qtz unit 1cm qtz unit 1.3cm gouge zone. 1.5cm qtz unit	289-290 - sections of argillite present Qtz s/w strong									288	0.36	<0.001		0.08 <0.005
295	↑	↑	↑	↑	↑		1cm gouge zone Argillite. 1cm qtz-py unit. Argillite. Argillite	293-298.2 - periodic sections of argillite contained within									291	0.64	<0.001		
	↑	↑	↑	↑	↑		1cm qtz unit Argillite. 1.3cm gouge zone										294	0.43	<0.001		623.5
300	↑	↑	↑	↑	↑												297	0.52	0.001		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 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 : 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	g/t Ag	g/t Au		
300	↑	↑	↑	↑		→ 1cm qtz vnit. BIOTITE - FELDSPAR PORPHYRY cont Argillite.									300						
	↑	↑	↑	↑		→ 1.3cm gouge zone * Arc very near the arg - → 1cm carbonate vnit. BFP contact.						0.40%	85088C			0.44	0.001			0.08	20.003
	↑	↑	↑	↑		→ 1.4cm qtz vnit - Qtz s/w strong									303						
305	↑	↑	↑	↑		→ 2.5cm gouge zone Alt'n strong - potassic						0.40%	85089C			0.61	0.001				
	↑	↑	↑	↑		→ 1.0cm qtz vnit						0.40%	85090C			0.64	0.002				
	↑	↑	↑	↑		→ 1cm qtz vnit									306						
	↑	↑	↑	↑		310-3121 - Argillite - tan to dk brn color depending on the sec. bio. content.						0.40%	85091C			0.49	0.001			0.12	20.003
310	↑	↑	↑	↑		Argillite									309						
	↑	↑	↑	↑		Argillite															
	↑	↑	↑	↑		Argillite						0.40%	85092C			0.24	0.002				
315	↑	↑	↑	↑		Argillite									312						
	↑	↑	↑	↑											315						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
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 : 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	oz/Ton Au	oz/Ton Cu	oz/Ton Ag
315							BIOTITE-FELDSPAR PORPHYRY cont. Argillite → 19cm qtz unit. * Contains sections of Argillite within. → 70cm gouge zone - contacts very sharp and irregular. → 22cm gouge zone								315	0.46	0.001	↓	599.5	↓
320							→ 50.5cm py unit. Qtz s/w strong				3-3 1/2	0.30%	85094C		318	0.24	0.005	↕		↕
							→ 1cm py unit → 2x1cm qtz units → 1cm py-cpy unit → 8cm gouge zone → 1cm qtz unit Alt'n strong - potassic					0.35%	85093C		321	0.26	0.003		0.11	0.004
325							→ 1cm qtz unit 326.8-329.5 - Rock is very block due to the sec. bio. → qtz masses					0.40%	85096C		324	0.61	0.001			
330							→ 1.5cm qtz unit					0.45%	85097C		327	0.79	0.001			↓
												0.5%			330			↓	587.7	↓

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-69
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 23 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	spec. bio													% Cu	% Mo	Oz/Ton Au	Oz/Ton Au
330	strong	moderate to strong	mod to strong	strong to very strong	BI-CRY-(MS)		BIOTITE - FELDSPAR PORPHYRY env.													
							→ 1.2cm py vult.	- Qtz s/w very strong						85098C		330	0.92	0.001	0.07	0.005
							→ 1.6cm qtz vult	strong potassic alt'n.				3 - 3 1/2%	0.45%			333				
335							→ 2cm gouge zone.							85099C			0.65	0.001		
							→ 1cm qtz vult.													
								337.11m End of Hole					40%	85100C		336	0.63	0.001		
																337.11				580.32

PC-70

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar Lake HOLE No. : PC-70
 CASING COLLAR ELEV.: 903.9m GROUND ELEV.: 903.7m DATE STARTED : Nov. 2, 1981 PAGE No. 1 OF 21
 COORDINATES : 5905.2 N. 12001.8 E. DATE FINISHED : Nov. 5, 1981 REF. TO CLAIM CORNER :
 INCLINATION : - 70° AZIMUTH : 090° TOTAL DEPTH : 306.7 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													
					0. - 0.31 Stick-Up													
5					0.31 - 20.73m Overburden													
10																		
15																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar Lake HOLE No. : PC-70
 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 :

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													% Cu	% Mo		
30	↑	↑	↑	↑	↑		BIOTITE - FELDSPAR PORPHYRY cont													
							→ 2cm gouge zone						40.10%	85104C		30	0.02	0.003		
							→ Gouge zone						40.10%	85105C		33	40.01	0.003		
35							Alt'n very strong - phyllic						40.10%	85106C		36	0.03	0.001		
							→ Gouge zone.						40.10%	85107C		39	0.02	0.003		
							→ 0.7cm py unit.						40.10%	85108C		42	0.02	0.002		
							→ 2cm qtz unit	* Rock very badly fractured												
							→ Gouge zone													
40																				
45																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar Lake HOLE No. : PC-70
 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	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. B/D.													% Cu	% Mo		
45	↑	↑	↑		↑		BIOTITE - FELDSPAR PORPHYRY cont									45	0.01	0.003		
							22cm gouge zone						40.10%	85109C						
							0.6cm py unit.						40.10%	85110C			0.01	0.002		
							1cm gouge zone	Rock very shattered					40.10%	85111C			0.01	0.003		
50							1cm gouge zone						40.10%	85112C			0.01	0.004		
							0.8cm qtz-py unit	Qtz s/w weak.					40.10%	85113C			0.02	0.003		
							Gouge zone						3-3 1/2 %							
							Gouge zone						40.10%							
55							Gouge zone						40.10%							
													40.10%							
													40.10%							
60													40.10%							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-70
 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	C% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS				
	SILICA	SERICITE	CLAY	SEC. B/D													% Cu	% Mo			
60	strong	strong	weak		very strong	py - cpx	DESCRIPTIVE GEOLOGY														
							BIOTITE - FELDSPAR PORPHYRY cont.														
							61.6 - End of shatter zone					3-3 1/2%	40.10%	85114C		60					
							1cm gouge zone														
							1cm py unit														
							63.1m sharp-irregular contact.														
							TRACHYTIC RHYODACITE BRECCIA.														
							- trachytic texture is very strong														
							on the edges of the dyke, disappears in the core.														
							- At edges - dark brn color														
							- weak porphyritic texture														
							- Zn core - no trachytic texture														
							- porphyritic texture.														
							65.8 - End of track test														
							- 10-15% - plag - 2%														
							qtz - 6%														
							bio - 1%														
							- breccia frags more prominent														
							- light grey color - minor hem staining.														
							20cm gouge zone														
							- Qtz phenos increase in size														
							content towards the middle.														
							- Periodic lathes found in the														
							core - same dyke.														
							1.8cm carb. unit.														
							1.5cm gouge zone														
							1cm carb unit														
							Alot of bleaching around gouge zones														
							1cm gouge zone														
							* Breccia texture very weak														
							- could be a														
75																					

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-70
 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. BTO													%	%	%	%
90	Strong	Strong	weak (phenos)		Strong	Py-Cpy		DESCRIPTIVE GEOLOGY BIOTITE - FELDSPAR PORPHYRY								90				
								→ py vnltz												
								→ 1.5cm py vnltz												
								→ 0.7cm gyp vnlt												
								→ 2x1.5cm py vnltz												
								- Qtz s/w weakly developed												
95								→ 1.2cm py vnlt												
								- Alt'n very strong - phyllic												
								→ 0.5cm py vnlt.												
								→ Argillite												
100																				
								→ 1cm gyp. vnlt.												
								→ 0.8cm carb. vnlt.												
								→ 0.5cm gauge conc.												
105																				

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : <i>Poplar</i>	HOLE No. : <i>PC-70</i>
CASING COLLAR ELEV. :	GROUND ELEV. :	DATE STARTED :	PAGE No. <i>8</i> OF <i>21</i>
COORDINATES : N. E.	AZIMUTH :	DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :	TOTAL DEPTH : <i>n</i>	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					
105	↑	↑	↑	↑				<i>BIOTITE - FELDSPAR PORPHYRY cont.</i>															
								<i>1cm gouge zone.</i>															
								<i>0.8cm py unit.</i>					<i><0.10%</i>	<i>85125C</i>					<i>0.02</i>	<i>0.001</i>			
								<i>- Qtz s/w weakly developed</i>															
110																							
								<i>1cm py unit.</i>															
								<i>Alt'n strong - phyllic phase</i>															
								<i>2cm py unit</i>															
								<i>1cm carb. unit</i>															
								<i>3cm qtz unit</i>															
								<i>2x1.5cm py unit</i>															
								<i>2cm carb. unit</i>															
120	↓	↓	↓	↓									<i>40.10%</i>	<i>85129C</i>					<i>0.05</i>	<i>0.005</i>			

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-70
 PAGE No. 9 OF 21
 REF. TO CLAIM CORNER :
 LOGGED BY :

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS	
	SILICA	SERICITE	CLAY	SEC. B.D.													% Cu	% Mo
120	strong	very strong	strong	weak (phenos)				BIOTITE - FELDSPAR PORPHYRY cont										
							→ 0.8cm py unit.							85130C			0.04	0.003
							Qtz s/w weakly developed											
125								Numerous H/L py units.			4-5%			85131C			0.02	0.003
							→ 15cm gyp unit.											
							→ 0.7cm py unit	Alt'n strong - phyllic -phenos mostly destroyed						85132C			0.05	0.002
														85133C			0.06	0.002
130																		
														85134C			0.05	0.002
							→ 1.3cm py unit.											
135																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-70*
 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 : 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
135	↑	↑	↑	↑			→ 0.8cm py unit. <u>BIOTITE - FELDSPAR PORPHYRY cont.</u>										
							→ 1cm py unit										
140	↑	↑	↑	↑			<u>Alt'n strong - phyllic.</u>										
							<u>Qtz s/w weak</u>										
							→ 3cm carb. unit										
145	↑	↑	↑	↑			→ 2cm gyp. unit.										
							<u>146.1m Gouge contact @ 30° to C.A</u>										
							<u>TRACHYTIC F. RHYODACITE</u>										
							-bleached, fspar lathes → sericite										
							-minor Qtz & fspar phenos										
							<u>148.3m sharp contact @ 80° to C.A</u>										
							<u>Wk breccia</u>										
							→ 3cm Qtz unit.										
							<u>BIOTITE - FELDSPAR PORPHYRY</u>										
							<u>as above</u>										
150																	

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar Lake* HOLE No. : *PC-70*
 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 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		
150	↑	↑	↑	↑	↑		BIOTITE - FELDSPAR PORPHYRY													
							→ 2x1cm qtz vntls													
							→ 0.5cm gouge zone													
							→ 0.3cm cpy-py vntls													
							1535 - starting to get small patches of argillite in the B.F.P.													
							→ 2cm gouge zone													
155																				
							Description -													
							- grey color													
							- very strongly altered													
							- phenos are rare, many ghosts still present													
							- very strong silicification + sericitization													
							- Qtz s/w weak													
							→ 1cm gouge zone													
							→ vuggy qtz vnt													
							→ 2cm py vnt w gyp													
							* cpy contained in several units.													
							- probably if s/w was greater this would have alot more cpy													
							- cpy very fine													
160							→ 1cm gouge zone													
							Alt'n very strong - phyllic													
							→ 1cm gouge zone													
165																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-70*
 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	SEC. BIO													% Cu	% Mo		
165	↑	↑	↑		↑			BIOTITE - FELDSPAR PORPHYRY cont.								165	0.03	0.002		
								1.3cm gyp unit 1cm gouge zone												
								1cm qtz-py unit					0.10%	85145C						
								1cm gouge zone					0.10%	85146C						
170								Alt'n very strong - phyllic					0.10%	85147C						
								0.9cm py-qtz unit 2cm gouge zone					0.10%	85147C						
								Qtz s/w weakly devel.					0.10%	85147C						
								1cm qtz-carb unit Argillite					0.10%	85148C						
								1cm qtz unit					0.10%	85148C						
175								1cm gouge zone					0.10%	85149C						
								1cm gouge zone					0.10%	85149C						
								2cm qtz unit 1cm qtz unit					0.10%	85149C						
180													0.10%	85149C						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-70
 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 : 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			
180							180.3m Gauge contact @ 47° PCA PMD - Q.F.P. #2 → BFP @ 10° to CA - pale green color - 5% phenos in a silicious matrix - 4% qtz - 1% plag - frtng - weak. → 1cm gouge zone				< 0.5%	nil			180					
185																				
186							→ Gauge contact 186.6m Gauge contact @ 80° PCA → 1cm qtz-py unit BIOTITE-FELDSPAR PORPHYRY → 1cm qtz unit - very strongly altered - strong silicification / sericitization - phenos are rare → 1cm qtz unit - fracturing strong → 2cm gyp unit - qtz s/w weak - alt'n - phyllic phase - numerous H/L py units					40.10%	85150C			186	0.07	0.003		
189																				
190																				
192							→ 1.2cm qtz unit → 1cm gouge zone → 1cm gouge zone													
195							→ 1cm gouge zone													

Not Sampled

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-70
 PAGE No. 14 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													% Cu	% Mo		
195	strong	strong	SEC. B.D.	strong	Py - COPY		BIOTITE - FELDSPAR PORPHYRY cont. 0.6cm Py unit.				5%	40.10%	85153C		195	0.04	0.004		
198.5	very weak (phenos)			weak			sharp contact @ 20° to CA Quartz-Feldspar-Biotite Porphyry Dyke (PMD) - olive green, silicious, aphanite matrix - 15% phenos - up to 5mm in size. - 7% qtz - 2cm gouge zone - 7% plag → sericite - 1% bio → chlorite. - fring weak			40.05%	nil			198.5					
206.0	very strong	moderate		very strong	Py - COPY		1cm gouge zone 206.0m Gouge contact @ 30° to C.A. SILICIFIED ARGILLITE - tan to grey color - very strong fring 208.8-209.3 - B.F.P			2%	40.10%	85154C		206.0	0.01	0.004			
209.3	wk			wk			209.3m sharp contact @ 20° to C.A. Q.B.F.P. Dyke cont							209.3					

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-70*
 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 : 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				
210	<i>sericite</i>				<p>DESCRIPTIVE GEOLOGY</p> <p><i>Quartz-Feldspar-Biotite Porphyry</i></p> <p><i>PMD - QFBP</i></p> <p><i>22x3cm gouge zones</i></p> <p><i>22cm gouge zone</i></p> <p><i>2cm gouge zone</i></p> <p><i>10cm gouge zone</i></p>				<i>cu</i>									
215	<i>very weak</i>	<i>weak</i>																
220					<i>4cm gouge zone</i>				<i>20.5%</i>	<i>nil</i>								
225																		

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar.*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : *PC-70*
 COORDINATES : N. E. DATE FINISHED : PAGE No. *16* OF *21*
 INCLINATION : AZIMUTH : TOTAL DEPTH : m 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					
225	<i>sericite</i>					<i>DESCRIPTIVE GEOLOGY</i>														
						<i>PMD - Q.F.B.P. Dyke</i>														
230						<i>1cm gouge zone</i>														
235										<i>40.5%</i>	<i>nil</i>									
240						<i>1cm gouge zone</i>														

No x Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : *PC-70*
 COORDINATES : N. E. DATE FINISHED : PAGE No. *17* OF *21*
 INCLINATION : AZIMUTH : TOTAL DEPTH : 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		
240							<u>PMD - Q.B.F.P Dyke</u>												
245																			
250							→ 1cm gouge zone												
							→ 1cm gouge zone												
							251.1m Gouge contact @ 80° to c.a												
							<u>BIOTITE - FELDSPAR PORPHYRY</u>												
							- lgt grey color												
							- crowded porphyritic texture												
							- alt'n moderate												
							- comp - 40% phenos - 35% plag - ser												
							- 5% bio - clay												
							→ 2cm gouge zone.												
							matrix - silica + sericite												
							- Qtz s/w weak.												
255																			

Not Sampled

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-70
 PAGE No. 18 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			
255	strong	moderate	very strong	Py - (cpy)		DESCRIPTIVE GEOLOGY													
						BIOTITE-FELDSPAR PORPHYRY													
						259.9m sharp contact													
						SILICIFIED ARGILLITE													
						→ 1cm qtz mit.													
						- tan color													
						- v. strong frtng													
						- alot of py in frts.													
						- Qtz s/w weakly devel.													
260																			
						261.7m Brxx contact @ 80° to CA													
						→ 4cm gouge zone Qtz - Fsp - B/D Porph Dyke													
						same as before													
265																			
						→ 1cm gouge zone													
						→ 2cm gouge zone													
270																			

Not Sampled

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-70
 PAGE No. 19 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	Cu % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC BIO													% Cu	% Mo		
270	weak	strong	moderate	strong	strong		1cm gouge zone. <u>PMD - Q.F.B.P. Dyke.</u> 270.7m sharp contact @ 30° to c.a. 1cm py unit 5cm gouge zone <u>BIOTITE-FELDSPAR PORPH</u> 272.6m irregular contact. Argillite - tan color - strong silicification 2cm gouge zone. s/w weak 1cm gouge zone 279.0m Gauge contact @ 70° to c.a. <u>PMD - Q.F.B.P. Dyke.</u> 3cm gouge zone.													
275	strong	strong		strong	strong						2 1/2 - 3%	< 0.10%	85159C		270.7	Not sampled				
												< 0.10%	85160C		273	0.08	0.007			
												< 0.10%	85160C		276	0.06	0.007			
												< 0.10%	85161C		279	0.11	0.011			
280												< 0.5%	nil			Not sampled				
285																				

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-70
 PAGE No. 20 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				
	sericite																		
285						PMD - Q.F.B.P. Dyke.					Cu								
			weak			2cm gouge zone													
290						2cm gouge 290.7m Gouge contact @ 40° to C.A.													
						PMD - Trachytic-Feldspar-Biotite Rhyodacite Dyke.													
						- dk brn color													
						- trachytic texture comes and goes													
295						2cm gouge zone. - 25% qtz & fspar phenos.													
						- frtng weak													
300						vuggy carbonate vults													

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar*
 HOLE No. : *PC-70*
 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 : 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					
300	<i>sericite</i>				<i>weak</i>			DESCRIPTIVE GEOLOGY					<i>Cu</i>				<i>Not sampled</i>					
										<i>PMD - T.F.B.R. Dyke.</i>				<i><0.5%</i>	<i>nil</i>							
305								<i>carb units</i>														
								<i>carb units.</i>														
								<i>306.7 End of Hole</i>														

PC-71

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-71
 CASING COLLAR ELEV.: 923.7m GROUND ELEV.: 923.5m DATE STARTED : Nov 5, 1981 PAGE No. 1 OF 15
 COORDINATES : 6296.6 N. 12398.8 E. DATE FINISHED : Nov 7, 1981 REF. TO CLAIM CORNER :
 INCLINATION : -090° AZIMUTH : - TOTAL DEPTH : 218.24 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								DESCRIPTIVE GEOLOGY												
								0 - 0.32 STICK-UP												
								0.32 - 9.14m - OVERBURDEN												
0								9.14m												
								<u>BIOTITE - FELDSPAR PORPHYRY</u>												
								- greenish grey color - alt'n strong - phenos often destroyed.												
								- strong frtng - mod to strong silicification in envelopes. - Qtz s/w moderately developed.												
								- crowded porphyry - 30-35% phenos-30% plaq → ser → clay 45% bio → ser												
								→ 1.5cm gouge zone												
								→ 2cm gouge zone.												
								→ 0.6cm PY unit												
15																				

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-71
 PAGE No. 2 OF 15
 REF. TO CLAIM CORNER :
 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				%	%				
15	↑	↑	↑	↑	↑		30cm gouge zone	BIOTITE - FELDSPAR PORPHYRY cont								15	0.11	0.004				
							→ 0.70m qtz vnt.	- Numerous H/L py vnts.						85164C		18	0.13	0.010				
							→ 1cm py vnt							85165C		21	0.13	0.005				
20							→ 1cm gouge zone	Qtz s/w moderately developed.						85166C		24	0.11	0.004				
								* Silicious envelopes up to 1cm wide are present around frts						85167C		27	0.14	0.012				
							→ 2cm gouge zone							85168C		30						
							→ 1.5cm py-qtz vnt	Minor hematite staining of fspars.														
								Alt'n strong - phyllic. phase.														
							→ 2cm gouge zone															
							→ 1.5cm qtz vnt															
								28.6 - presence of sec. bio - increase in opy.														

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-71
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 3 OF 15
 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.													%	%	%	%
30	↑	↑	↑	↑	↑		BIOTITE - FELDSPAR PORPHYRY cont													
							2cm gouge zone													
							1.3cm py qtz unit													
							Numerous H/L py units													
							33.3 - 36.0 Rock badly broken up													
							Alt'n moderate - potassic phase													
35							Qtz s/w moderate													
							6cm brxx zone													
							1cm carb-py unit													
							37-44.9 - Qtz s/w strong													
							1cm py unit													
							1cm py unit													
40							1.2cm qtz unit													
							2x1cm gouge zone.													
							1cm qtz unit													
							1cm py-qtz unit													
							2cm qtz unit													
							1.5cm qtz unit													
							2cm qtz unit													
45							44.90 Breccia contact													

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-11
 PAGE No. 4 OF 15
 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. B/D													% Cu	% Mo			
45							<p>TRACHYTIC FELDSPAR (BIOTITE) / RHYODACITE DYKE</p> <p>→ 1.3cm carb unit</p> <p>- light green to dk brn color - bleaching at contacts and around frts.</p> <p>- strong trachytic texture. - no visible alignment</p> <p>- 15% phenos - 13% plag 1% bio 1% qtz</p> <p>- plag phenos weakly altered</p> <p>→ 30m gouge zone - fracturing weak - phenos range up to 1cm in size in some places.</p> <p>* Believe contact is somewhat around 30 to 50° to c.a</p>														
50																					
55							<p>→ contacts 56.0 - 56.7 - B.F.P. BFP</p> <p>→ contact @ 30° to c.a</p> <p>→ maze of carb units</p> <p>Periodic Bx frags found within the unit - frags up to 20cm in size</p>														
60																					

very weak (phenos)

weak

< 0.10%
nil

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-71
 COORDINATES : N. E. DATE FINISHED : PAGE No. 5 OF 15
 INCLINATION : AZIMUTH : TOTAL DEPTH : m 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. PID.													% Cu	% Mo		
60							frag-unknown. T.F.B.R. Dyke cont.													
							Minor hematitic staining of the plag phenos													
65							3cm gouge zone.													
							B.F.P frag													
70																				
75																				

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-11
 COORDINATES : N. E. DATE FINISHED : PAGE No. 6 OF 15
 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	
75							T.F.B.R. Dyke cont.											
80	weak			weak			B.F.P. frag				< 0.1%							
83.7							83.7m sharp contact @ 15° to c.a.											
85	moderate	strong		strong	py-cpy		83.7-91.1m -Bio-Esp. Porphyry and Argillite Inter Phase											
							-mostly argillite w small sections of B.F.P.											
							-Qtz s/w weakly developed.											
							10cm qtz unit											
							2cm py-carb unit											
							1.5cm qtz unit											
							2x0.5cm gouge zones											
87											2%	0.10%	85174C				0.18	0.009
88													85175C				0.19	0.004
90																		

Not Sampled

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-71
 PAGE No. 7 OF 15
 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													%	%				
90	mod	str		str	py-cpx		<p>Argillite</p> <p>Bxx zone</p> <p>91.1m Bxxx contact.</p> <p>PMD - Q.F.P. #1</p> <p>10cm gouge zone</p> <p>10cm gouge zone</p> <p>7% qtz phenos</p> <p>4% plag phenos</p> <p>alot of vugs where probably plag phenos used to be.</p> <p>frting weak except in fault zones</p> <p>traces of altered bio phenos.</p> <p>Bxx zone w/ PMD; BFP frags</p>			2	0.10	85/760	90	Cu	Mo	0.16	0.003				
95	weak			weak to intense			<p>10cm gouge zone w/ bxx frags</p>														
100	weak			weak			<p>100.6 - 101.7 - Fault zone.</p> <p>101.7m</p> <p>10cm gouge</p> <p>P.M.D. - T.F.B.R. Dyke</p> <p>as before (page 6)</p> <p>this dyke is past above dyke</p>														
105	weak			weak																	

< 0.10%
nil

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-71
 COORDINATES : N. E. DATE FINISHED : PAGE No. 8 OF 15
 INCLINATION : AZIMUTH : TOTAL DEPTH : 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	chlorite																	
105							<p>T.F.B.R. Dyke cont 105.5m</p> <p>Q.B.F.P. #2^{surf} Dyke</p> <p>- no trachytic texture - 15% phenos - 10% plag - 4% qtz - 1% bio.</p> <p>- bio phenos small and chloritically altered</p> <p>10cm gouge zone</p>														
110					weak																
115					weak		<p>113.8 - 120.6 - Breccia - containing frags of - Q.F.P. #1 - Q.B.F.P. #1</p>			40-10%	nil										
120					strong																

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-71
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. 9 OF 15
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																	
120							DESCRIPTIVE GEOLOGY													
							Fault contact 120.7m													
							Q.F.P. #1													
							3m gouge zone - as before													
							5cm gouge zone													
125							5cm gouge zone.													
							80cm blk zone													
							2cm gouge zone													
				weak																
							30cm blk zone													
130							/													
							134-134.D - Blk Zone													
135																				

20.10%
nil
Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-71
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : PAGE No. 10 OF 15
 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																																			
135							Q.F.P. #1 Dyke.																															
							Bxx																															
							1cm gouge zone																															
140							In bxx zone - Frags are Q.F.P #1																															
							1m bxx zone																															
145																																						
150																																						

40.10%
nil

No 7
sampled

weak

A A }
A A }
A A }

A A }
A A }
A A }

1cm gouge zone

1m bxx zone

Bxx


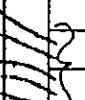

DESCRIPTIVE GEOLOGY

Q.F.P. #1 Dyke.

In bxx zone - Frags are Q.F.P #1

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-71
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 11 OF 15
 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																
150							DESCRIPTIVE GEOLOGY Q.F.P. #1 Dyke												
155							 Bxx												
160							 1.3m Fault zone				20.0%	nil							
165							 71cm gouge zone												

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-11
 COORDINATES : N. E. DATE FINISHED : PAGE No. 12 OF 15
 INCLINATION : AZIMUTH : TOTAL DEPTH : m 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													ASSAYS			
165							Q.F.P.#1 Dyke. cont.												
							1cm gouge												
							1cm gouge.												
170																			
							15cm gouge												
							10cm bar												
175							1cm gouge												
							15cm gouge												
							1cm gouge												
180																			

<0.10%
nil

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-71
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 13 OF 15
 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																	
180						Q.F.P. #1 Dyke cont → 10cm gouge → 10cm gouge														
185						→ 15cm gouge → 1cm gouge zone														
190						→ 30cm gouge zone				~ 0-10%	nil.									
195						→ 2cm gouge zone Δ Δ → sk bxx Δ Δ → bxx														

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-71*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *14* OF *15*
 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						
195					DESCRIPTIVE GEOLOGY															
					<i>Q.F.P. #1 Dyke cont.</i>															
				A	<i>weakly bxx'd.</i>															
			A																	
			A																	
			A																	
200																				
					<i>1cm gouge zone.</i>															
					<i>1cm gouge zone</i>															
					<i>204.5 - 206.3 m - Bxx zone</i>				<i>40-10%</i>	<i>nil</i>										
205				△△																
				△△																
				△△																
				△△																
				△△																
210																				

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-71*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. *15* OF *15*
 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				
210					DESCRIPTIVE GEOLOGY													
					<i>Q.F.P. #1 dyke cont</i>													
					<i>212.6 - E.O.H - Brxx with Q.F.P.#1 & Q.F.P.#2 frags</i>													
215									<i><0.10%</i>	<i>nil</i>								
					<i>218.24m E.O.H</i>													
220																		

weak

Δ :
 Δ Δ
 Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ
 Δ Δ Δ Δ

Nox Sampled

PC-72

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-72
 CASING COLLAR ELEV.: 923.8m GROUND ELEV.: 923.6m DATE STARTED : Nov. 7, 1981 PAGE No. 1 OF 21
 COORDINATES : 6295.8 N. 12399.2 E. DATE FINISHED : Nov. 11, 1981 REF. TO CLAIM CORNER :
 INCLINATION : -60° AZIMUTH : 090° TOTAL DEPTH : 309.6 m LOGGED BY : G.L. Holland

DEPTH (M)	ALTERATION				FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED CE	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC. BLD													limonite	% Cu	% Mo	Ag
0							0-0.31 STICK-UP													
5							0.31 - 9.14 OVERBURDEN													
10	mod to strong	strong	weak	weak	strong	Py-cpx	9.14-22.8 BIOTITE-FELDSPAR PORPH. - alt'n strong - most sections phenos completely destroyed - greenish-grey color. - a lot of H/L py unit - strong sil. salvages around fets - vults - Qtz s/w mod. → 15cm gouge comp - 40% phenos - 37% plaq → ser = clay ~ 3% bio → ser. → 1cm gouge matrix - sil + ser.			2 1/2 - 3%	0.10%	85177C	12	0.13	0.002			0.05	0.003	915.9
15													0.10%	85178C			0.10	0.003		

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-72
 PAGE No. 2 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 C _F	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS			
	SILICA	SERICITE	CLAY	SEC B/D.	CHLORITE													% Cu	% Mo		
15	Strong	Strong	v. weak	Strong	Pyrophyllite			→ 2x3cm gouge BIOTITE - FELDSPAR PORPHYRY → 2cm qtz vntt. Qtz s/w moderate → 1cm py vntt → 1cm qtz vntt								15					
20	Strong	Strong	v. weak	Strong	Pyrophyllite			→ 5cm gouge zone 19-21 - A lot of hematite staining → 1cm gouge zone Alt'n strong - 1 phyllic phase				3%					18				
	weak	weak	weak	weak	hem			→ 10cm gouge 22.8m sharp contact @ 45° to C.A. TRACHYTIC FELDSPAR - BIOTITE RHYODACITE DYKE (T.F.B.R.) → 10m carb unit - color varies from reddish brn to cream - cream reflect bleaching - fracturing weak - trachytic texture mod to str. - no alignment - porphyritic texture - 18% phenos - 13% plag - 2% bio. - bio phenos weakly altered (chlorite) to fresh. - minor disc hem or magnetite. - minor brn frags present				0.15%					21				
25												20.1%	nil				22.8				
30																					

Nox Sampled

924.1

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : Poplar	HOLE No. : PC-72
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 :

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				
	sericite	chlorite																	
30	↑	↑	↑			<u>T.F.B.R. Dyke cont.</u>													
						→ 20m gouge													
						32.5 - 33.9 - Brxy - containing G.F.P. #4 box and B.F.P frags. in a gouge matrix													
						→ 1cm gouge													
						→ 1cm carb unit													
35																			
	↑	↑	↑			Periodic frags present - up to 15cm in size				20-10%	nil								
40						→ 1cm carb unit													
						→ F.P. frag													
45																			

Not Sampled

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-72
 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	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)	ASSAYS				
	sericite	chlorite																		
45	weak			weak	hem		T.F.B.R. Dyke cont					Cu								
							20cm gouge 47.35m Gouge contact @ 80° to c.A													
							Quartz-Feldspar Porphyry #1													
							Bxx. 47.3 - 49.2 - bxx - w QFP #1 frags													
50							- olive green color aphanitic matrix													
							- 20% phenos - 10% qtz													
							- 10% plag													
							10cm gouge zone													
							Bxx zone - 20cm - plag phenos often plucked out													
							- Frtng generally weak.													
							7cm gouge zone													
55							1cm gouge													
							1cm gouge													
							7cm bxx zone.													
60																				

10.10%

nil

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-72*
 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					
	<i>sericite</i>	<i>chlorite</i>																		
90						<i>Q.F.P. #1 DYKE cont</i>														
95						<i>10cm gouge zone</i>														
						<i>97.8 - 98.8 - Fault zone</i>														
						<i>1m Fault zone</i>														
100																				
						<i>10cm gouge zone</i>														
						<i>104.5 - 105.4 - Fault zone</i>														
105						<i>>90cm Fault zone</i>														

Not Sampled

*20.10%
nil*

weak

COMPOSITE DRILL LOG

CORE SIZE : 7 : SCALE : PROJECT : Poplar : HOLE No. : PC-72
 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			
105	sericite						DESCRIPTIVE GEOLOGY Fault zone Q.F.P. #1 DYKE cont → 20cm gouge zone → 30cm gouge zone → 30cm gouge zone → 10cm gouge zone Bxx zone				40.10%	Cu nil							
110				weak															
115																			
120																			

Not Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-72
 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					
135				▲	BRECCIA cont														
				▲	136 - fragments - 70% QBFP#1														
				▲	↓ - 30% Q.F.P														
				▲	→ 2cm gouge zone														
				▲															
				▲															
				▲															
140				▲	140.0 - fragments - 50% Q.F.P.#1														
				▲	↓ - 50% Q.B.F.P.#1														
				▲															
				▲															
				▲															
				▲															
				▲	144.0 - fragments - 95% Q.F.P.#1														
				▲	↓ 5% QBFP#1														
145				▲	→ 1cm gouge zone														
				▲	145.0 - Q.F.P.#1 Dyke														
				▲	- occasional small B.F.P. & Q.F.P														
				▲	#1 frags present.														
				▲	→ 1cm gouge zone														
				▲	147.0 - weakly brecciated - mostly														
				▲	just rotation of the Q.F.P.														
				▲	→ 2cm gouge zone														
				▲	frags														
150																			

weak

< 0.10%
 nil

No x
 Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-72*
 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													% Cu	% Mo	Ag	Ton Au			
165	strong	st	wk	strong			BIOTITE - FELDSPAR PORPHYRY cont															
165.5 - 169	moderate			strong			Rock takes on a black color due to the sec bio						85185C				0.20	0.001				
							0.7cm qtz unit															
							1cm qtz unit															
170							1.3cm qtz-py unit						85186C				0.20	0.001				
							1cm gyp unit															
							Qtz s/w moderately developed															
							1cm py-epy unit						85187C				0.16	0.001		0.02	0.003	
	strong			strong			Alt'n mod to str. - phyllic phase															
	strong						1cm qtz unit															
175							2cm gouge zone						85188C				0.21	0.001				
							1.3cm qtz unit															
							1cm qtz unit						85189C				0.13	0.001				
							0.8cm py unit															
180																						

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-72
 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 RID												%	%
195	moderate	moderate	weak	weak			BIOTITE - FELDSPAR PORPHYRY cont								195	Cu	Mo
							1.5cm qtz vnt.					0.15%	85195C		198	0.15	0.002
200	moderate	moderate	weak	weak			2cm qtz vnt. 1cm gouge zone Qtz s/w moderately devel.					0.10%	85196C		201	0.15	0.004
							1cm carb unit. Alt'n mod - potassic					0.10%	85197C		204	0.10	0.002
							1cm gouge zone. 204 - Alt'n strong - potassic					0.10%	85198C		207	0.08	0.004
205	mod to strong	moderate	moderate	moderate			1cm qtz-py vnt. 1.5cm py-cpy vnt. Numerous H/L py vnits.					0.10%	85198C		210	0.10	0.008
							0.9cm qtz vnt. 3cm gouge zone 1cm qtz vnt.					0.15%	85199C				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Fbplar* HOLE No. : *PC-72*
 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. B.I.D.													% Cu	% Mo		
210	str	mod						BIOTITE - FELDSPAR PORPHYRY cont								210	0.09	0.004		
								- Qtz s/w weak to moderate					0.10%	85200C						
								- Numerous H/L py units					0.10%	85201C						
215								Alt'n mod - potassic phase.					0.10%	85202C						
													0.10%	85203C						
220													0.10%	85204C						
													0.10%							

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-12
 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 810													% Cu	% Mo			
240																					
								<u>T.F.B.R. Dyke cont.</u>													
								- green to brown color - strong trachytic texture -unaligned - 15% phenos - 13% p/leg → ser 2% bio → ser				40.10%	nil								
245																					
								→ 15cm gouge zone													
								→ 246.6m Gouge contact													
								<u>MIXTURE OF ARGILLITE AND FELDSPAR PORPHYRY</u>													
								→ 3cm gouge zone													
								→ 10cm gouge zone				2%	< 0.10%	85210C							0.02 0.002
								→ 10cm gouge zone													
250								→ 20cm gouge zone													
								→ 250.5m Gouge contact													
								→ 7cm gouge zone													
								<u>T.F.B.R. Dyke</u>													
								→ 1cm gouge zone				40.10%	nil								
								→ 252.9m Gouge contact @ 65°													
								→ 1cm carb. w/lt													
								<u>BIOTITE - FELDSPAR PORPHYRY.</u>													
								→ 1.5cm qtz w/lt				2 1/2%	0.10%	85211C							0.17 0.003
255																					

Not sampled

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-72
 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. PID													% Cu	% Mo		
255	strong	strong	strong	strong			BIOTITE - FELDSPAR PORPHYRY cont									255	0.18	0.002		
							3cm gouge zone													
							1cm qtz unit													
							1.3cm qtz unit													
							1cm qtz-py unit													
							Qtz s/w moderate													
							1.5cm carb unit													
							1.8cm gouge zone													
260							1cm qtz unit													
							1cm gouge zone													
							2cm qtz unit													
							Alt'n strong - phyllic													
							0.5m Fault zone													
							264 - Major Fault zone													
							- probably movement (alteration)													
265							2cm carb unit													
							1cm qtz unit													
							- rock turns from greenish to black across fault													
							Alt'n strong - potassic													
							Qtz s/w weak													
270																				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar* HOLE No. : *PC-72*
 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 BIO													% Cu	% Mo
270								<u>BIOTITE - FELDSPAR PORPHYRY cont</u>										
							→ 1cm qtz vult.											
							→ 1.5cm carb unit	* strong envelopes around fets - sil iser										
							→ 1cm carb unit											
275																		
								- Qtz s/w starting to pick-up weak to moderate.										
							→ 2cm qtz vult											
								Alt'n strong - potassic										
							→ 1cm carb vult											
280							→ 1cm carb vult											
285																		

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-72
 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		SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)	ASSAYS					
	SILICA	SERICITE	CLAY	SEC. BIO								% Cu	% ESTIMATED				%	%	%	%		
285	→	→	→	→	→		BIOTITE - FELDSPAR PORPHYRY cont.							85222C		285	0.13	0.015				
	→	→	→	→	→	→ 4cm qtz unit w py + cp.						0.20%		85222C		288	0.10	0.002				
	→	→	→	→	→	→ 1.6cm qtz unit						0.15%		85223C		291	0.10	0.004				
290	→	→	→	→	→	→ 1cm gouge w carb.	* Sil + ser envelopes well developed along frts.					2 1/2 - 3%		85224C		294	0.09	0.002				
	→	→	→	→	→	→ 1cm qtz unit.	Alt'n strong - potassic					0.10%		85225C		297	0.08	0.002				
	→	→	→	→	→	→ 1cm qtz unit.	Qtz s/w weak to moderate					0.10%		85226C		300						
295	→	→	→	→	→	→ 5cm carb unit w qtz.																
300	→	→	→	→	→																	

PC-73

COMPOSITE DRILL LOG

CORE SIZE : NQ wireline SCALE : 1:100 PROJECT : Poplar HOLE No. : PC-73
 CASING COLLAR ELEV.: 922.7m GROUND ELEV.: 922.7m DATE STARTED : November 11, 1981 PAGE No. 1 OF 22
 COORDINATES : 5996.5 N. 12,498.7 E. DATE FINISHED : November 14, 1981 REF. TO CLAIM CORNER :
 INCLINATION : -090° AZIMUTH : — TOTAL DEPTH : 327.97 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							DESCRIPTIVE GEOLOGY													
							0-0.31 stick-up													
							0.31 - 9.14 OVERBURDEN													
5																				
							9.14 m													
							MIXED SECTIONS OF ARGILLITE AND BIOTITE-FELDSPAR PORPH.													
10							→ 1.3cm qtz unit 9.1-13.3 - B.F.P													
							→ 1cm qtz unit													
							→ 0.8cm py unit													
							13.3 - 14.5 - Argillite													
							→ 1cm gouge 14.5 - 15.7 - B.F.P													
							→ 1cm gouge													
15																				

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-73
 PAGE No. 3 OF 22
 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. B/D												% Cu	% Mo		
30	strong	moderate	weak		moderate PY (CPY)	BIOTITE-FELDSPAR PORPHYRY cont	- composition - 45% phenos - 40% plag → ser → clay						85237C		30	0.06	0.001		
							→ 0.8cm carb. unit - 5% bio → ser. → 2cm carb unit - matrix - silica + sericite - bio phenos are relics - alt'n: moderate but complete - groundmass completely altered - phenos completely altered but distinct			3%	40.10%				33	0.06	0.001		
35	moderate	moderate			strong PY (CPY)	Argillite.	35.1m sharp irregular contact. - fracting weak to moderate - Qtz s/w weak					40.10%		85238C					
						2m Fault zone				2 1/2 - 3%	40.10%		85239C		36	0.08	0.002		
						39.2m sharp contact @ 30° to c.a.									39				
						BIOTITE-FELDSPAR PORPHYRY													
40	strong	moderate	weak		moderate PY (CPY)	as before	→ 1cm carb. unit → 2x1cm carb units			3%	40.10%		85240C			0.01	0.001		
						42.3m irregular contact													
						ARGILLITE	→ 2cm gouge zone												
						as before													
45						→ 3cm gouge zone													

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-73
 PAGE No. 4 OF 22
 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		
45	moderate	moderate			strong	py-hem	ARGILLITE cont.				2%	40.10%	85242C		45	0.02	0.002			
					weak		48.0 - 49.1 - P.M.D - Q.F.B.P. #1								48					
50	strong	moderate	weak		moderate	py-hem	49.1m BIOTITE - FELDSPAR PORPH				2 1/2 - 3%	40.10%	85243C		51	0.04	0.002			
					weak		as before.													
					moderate		Qtz s/w weak.													
					weak		Phyllitic alt'n.													
					moderate		10cm gouge zone													
					weak		54.2m Gauge contact @ 20° to G.A													
55					weak		Q.F.B.P. #1 Dyke													
					moderate		Carb. units													
					moderate		1cm carb unit.													
					moderate		57.7m Gauge contact @ 20° to G.A													
					moderate		2cm gouge zone													
					moderate		BIOTITE - FELDSPAR PORPHYRY													
					moderate		as before													
					moderate		0.8cm Qtz unit													
60					moderate															

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar*
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : *PC-73*
 COORDINATES : N. E. DATE FINISHED : PAGE No. *5* OF *22*
 INCLINATION : AZIMUTH : TOTAL DEPTH : REF. TO CLAIM CORNER :
 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			
60	strong	moderate to strong	weak					BIOTITE-FELDSPAR PORPHYRY cont.				20.10%	85246C		60	0.05	0.002				
								1cm carb vnit 1cm qtz vnit 2cm qtz-py vnit * minor H/L hematite vnits													
65								Qtz s/w weak.				20.10%	85247C		63	0.06	0.002				
								Alt ⁿ strong - phyllic.													
								2cm py vnit 1cm gouge zone													
70								irregular contact Argillite - tan color - strong frting - envelopes around frts.				20.10%	85249C		69	0.10	0.002				
								74.4 m irregular contact B.F.P. cont				20.10%	85250C		72	0.10	0.002				
75																					

COMPOSITE DRILL LOG

CORE SIZE :	SCALE :	PROJECT : <i>Poplar</i>	HOLE No. : <i>PC-73</i>
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED :	PAGE No. <i>7</i> OF <i>22</i>
COORDINATES : N. E.	AZIMUTH :	DATE FINISHED :	REF. TO CLAIM CORNER :
INCLINATION :		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		
90	strong	strong					1cm hem-qtz unit Biotite - Feldspar Porph cont. 1cm qtz unit Qtz s/w moderate. 0.2cm py unit 1cm gyp unit. Alth strong-phyllie				2 1/2 - 3%	0.10%	85256C		90	0.03	0.001			
95	strong	strong					1cm gyp unit 1cm carb unit 1cm gouge zone 1cm gouge zone 2cm gouge zone 10cm gouge zone 98.5m Gouge contact @ 35° to C.A. ARGILLITE -greenish color -fitting strong to v strong -Alth strong -phyllie					0.10%	85257C		93	0.04	0.001			
	strong	strong					1cm gouge. 0.2cm py. unit -Qtz s/w weak					0.10%	85258C		96	0.03	0.002			
100	strong	strong					1cm gouge zone 1cm py unit					0.10%	85259C		99	0.05	0.002			
105	strong	strong					1cm gouge zone 1cm py unit 2cm qtz unit					0.10%	85260C		102	0.05	0.003			

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-73
 PAGE No. 10 OF 22
 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. BID.													%	%	%	%
135	↑	↑	↑	↑	↑		10m hem unit. 1.5m qtz-py unit.													
							BIOTITE - FELDSPAR PORPH. cont													
							Qtz s/w weak to moderate													
140							20cm gouge zone 2cm qtz unit.													
							4cm gouge zone 0.7cm carb. unit. 2cm qtz unit 1cm gyp unit													
							Alt'n moderate - phyllic													
145							10m qtz unit 0.7cm py unit													
							20cm qtz unit. 10cm gouge zone 4cm gouge zone													
150																				

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-73
 PAGE No. 11 OF 22
 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. BDO.	CHLORITE													% Cu	% Mo		
150									1cm gouge zone <u>BIOTITE-FELDSPAR PORPHYRY cont</u>								150				
									1cm qtz vult												
									Qtz s/w weak												
									1cm gouge zone												
155									Alt'n mod - phyllic												
									156.0m sharp contact @ 30° to c.A												
									<u>TRACHYTIC FELDSPAR BIOTITE</u>												
									<u>PORPHYRY DYKE</u>												
									- pale green color.												
									- strong trachytic texture												
									- 20% phenos - 15% plag → ser. 5% bio → chl.												
									- minor frags present												
									- minor hematite staining of fspars.												
160																					
165																					

<0.10%
nil

No x Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : HOLE No. : PC-73
 COORDINATES : N. E. DATE FINISHED : PAGE No. 12 OF 22
 INCLINATION : AZIMUTH : TOTAL DEPTH : 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					
	sericite	chlorite																			
165							1cm gauge P.M.D. T.F.B.R. Dyke cont.														
							1cm gauge zone														
170	weak (plag phenos)	weak (bio phenos)	weak																		
175							1cm gauge zone				40.10%	nil									
180																					

Not Sampled

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-73
 PAGE No. 13 OF 22
 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			
	Sericite	chlorite													% Cu	% Mo		
180						P.M.D. - T.F.B.R. Dyke cont.					Cu							
185						7.5m gouge zone.												
						10cm gouge zone.												
						Bx zone.												
190						15mgt. vlt.												
195																		

20-10%
 nil

not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : *Poplar*
 HOLE No. : PC-73
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED :
 PAGE No. 14 OF 22
 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	%	%	
195								DESCRIPTIVE GEOLOGY									%	%		
								<u>PMD - T.F.B.R. Dyke cont</u>									Cu	Mo		
								→ 10cm gouge zone												
								→ 50cm gouge-bxx zone												
								→ 1cm gouge zone	<i>T.F.B.R has a lot of very similar characteristics as the Q.F.B.P.</i>											
200								→ 1cm gouge zone	<i>- probably is a variation</i>											
								→ 8cm gouge zone												
									<i>199.0 Q.F.B.P #1</i>											
								→ 1cm gouge zone	↓											
								→ 2cm gouge zone												
205								→ 10cm gouge zone												
								→ 10cm gouge zone												
								→ 40cm bxx zone												
210																				

<0.10%
nil

Not sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-73
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 15 OF 22
 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	CHLORITE													% Cu	% Mo		
210									PMD - F.F.B.R. Dyke cont. Q.F.B.P. #1												
									→ 1cm gouge zone.												
215																					
									→ 1cm gouge zone.												
220																					
									221.5m sharp contact @ 30° to OA BIOTITE-FELDSPAR PORPH.												
									→ 1cm qtz unit												
									→ 1.5cm qtz unit												
									→ 1cm gyp. unit												
									- crowded porphyry - comp = 50% phenos - 45% plag → ser - 5% bio → ser & sec. bio - matrix - sil & ser. - qtz s/w moderately developed - minor H/L hem. vlt. - alt'n mod - potassic												
225																					

Not Sampled

40.10%
nil

2 1/2%
0.30%

25278C

221.5

0.17 40.00

225

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-73
 PAGE No. 16 OF 22
 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. B.I.O.												CHLORITE	%	%	
225	↑	↑	↑	↑	↑		→ 2x1.5cm qtz unit. <u>BIOTITE - FELDSPAR PORPHYRY cont</u>								225				
	↑	↑	↑	↑	↑		→ Bxx 225.8-226.3 - Bxx zone w Q.F.P #1 → 1cm gauge zone. and B.F.P frags in a green sil matrix						25279C			0.17	0.001		
	↑	↑	↑	↑	↑		→ 1cm gyp vult.								228				
230	↑	↑	↑	↑	↑		→ Bxx zone 229-230.1 - Bxx zone - as above. → 1cm gauge zone → 100m qtz vult w cpy; hem → 3x2cm qtz unit			2-2 1/2		0.25%	25280C			0.26	0.002		
	↑	↑	↑	↑	↑		→ 232.9m Contact @ 70° to C.A. <u>PMD - T.B.F.P Dyke</u> -strong trachytic texture -purple grn color -15% phenos -12% plag -3% bro					0.10%	25281C			0.16	0.001		
235	↑	↑	↑	↑	↑		→ 235.2m bxx contact @ 40° to CA. → 1cm gauge <u>BIOTITE - FELDSPAR PORPHYRY</u>			40.10%		0.10%	25282C			0.14	0.001		
	↑	↑	↑	↑	↑		as before.			1 1/2 - 2%		0.25%	25283C			0.22	0.001		
	↑	↑	↑	↑	↑		→ 1cm qtz vult. <u>Qtz s/w moderate.</u>								237				
240	↑	↑	↑	↑	↑		→ 10cm bxx zone.								240				

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-73
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 18 OF 22
 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													% Cu	% Mo		
255						weak			PMD - T.F.B.R. Dyke dk brn color - strong trachytic texture - 15% phenos - 13% plag 2% bio												
260						intense			259-261.6m - Fault zone. at 45° to c.a. Fault zone			40.10%	nil								
265						weak			1cm gouge zone												
270	mod	strong	weak			strong	hem. py-(gr)		10cm gouge 267.8m Gouge contact. BIOTITE-FELDSPAR PORPHYRY as before			2%	0.10%	85289C		2678		0.14	40.00		

Nox Sampled

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-73
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 19 OF 22
 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	SEC KSPAR													% Cu	% Mo		
270	↑	↑	↑	↑	↑	↑		→ 1cm qtz unit	BIOTITE - FELDSPAR PORPHYRY cont							270	0.14	0.002			
								→ 1cm qtz unit													
								→ 1cm gouge zone													
									273.10 - 275.54 - Core ground Core lost - core springs failed and could not retrieve core.								273	0.21	0.002		
275									- Up to 2% hem present												
								→ 2cm qtz unit									276				
								→ 10cm bx zone	Alt's strong - inner potassic												
								→ 4cm qtz unit													
								→ 8cm qtz-hem unit													
								→ 1cm py unit													
								→ 1cm gyp unit													
								→ 1cm qtz unit													
								→ 1cm qtz unit													
280								→ 1cm qtz unit	Qtz s/w moderate.												
								→ 6cm qtz unit													
								→ 8cm qtz unit													
								→ 1cm py-qtz unit.													
285																					

COMPOSITE DRILL LOG

CORE SIZE : SCALE : PROJECT : Poplar HOLE No. : PC-73
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : PAGE No. 20 OF 22
 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 B70													SEC. KSPAR	% Cu	% Mo		
285	↑	↑	↑	↑	↑		1cm qtz-hem unit									285					
	↑	↑	↑	↑	↑		2cm qtz unit														
	↑	↑	↑	↑	↑		1.2cm qtz unit	Qtz s/w moderately devel					0.30%					0.18	0.002		
	↑	↑	↑	↑	↑		0.5cm py unit.														
	↑	↑	↑	↑	↑		1cm qtz unit														
	↑	↑	↑	↑	↑		10cm bre zone.	Alt'n strong - inner potassic				2 1/2 - 3%									
	↑	↑	↑	↑	↑		1cm qtz unit						0.35%					0.15	0.003		
290	↑	↑	↑	↑	↑		bre.	290.8 - 291.1 - Breccia													
	↑	↑	↑	↑	↑		1cm qtz unit														
	↑	↑	↑	↑	↑		1cm gouge zone.						0.30%								
	↑	↑	↑	↑	↑		1cm gouge zone.	Gouge contact @ 36° to c.i.A													
	↑	↑	↑	↑	↑			293.6m													
	↑	↑	↑	↑	↑			Quartz - Feldspar Porphyry #1													
	↑	↑	↑	↑	↑			- olive green color													
	↑	↑	↑	↑	↑			- 15% phenos - 8% qtz													
	↑	↑	↑	↑	↑			- 7% plag → ser.													
	↑	↑	↑	↑	↑			- aphanitic matrix													
	↑	↑	↑	↑	↑		10cm gouge zone.														
295	↑	↑	↑	↑	↑																
	↑	↑	↑	↑	↑																
	↑	↑	↑	↑	↑																
	↑	↑	↑	↑	↑																
	↑	↑	↑	↑	↑																
300	↑	↑	↑	↑	↑		10cm gouge zone.														

Not Sampled

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-73
 PAGE No. 22 OF 22
 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 EPID	SEC KSPAR													% Cu	% Mo
315	↑	↑	↑	↑	↑	↑			BIOTITE - FELDSPAR PORPHYRY cont.										
	↑	↑	↑	↑	↑	↑			→ 1.5cm qtz-py unit				0.40%	85301C		315	0.21	0.001	
	↑	↑	↑	↑	↑	↑			Alt's very strong - inner potassic							317			
	↑	↑	↑	↑	↑	↑			→ 2cm qtz unit				0.35%	85302C			0.20	0.001	
320	↑	↑	↑	↑	↑	↑			Qtz s/w strong							320			
	↑	↑	↑	↑	↑	↑			→ 2cm qtz unit										
	↑	↑	↑	↑	↑	↑			→ 1cm qtz unit.										
	↑	↑	↑	↑	↑	↑			→ 1cm qtz unit										
	↑	↑	↑	↑	↑	↑			→ 2cm qtz unit										
	↑	↑	↑	↑	↑	↑			→ 1cm gyp unit.										
	↑	↑	↑	↑	↑	↑													
	↑	↑	↑	↑	↑	↑													
	↑	↑	↑	↑	↑	↑													
325	↑	↑	↑	↑	↑	↑			→ 2cm qtz-hem unit				0.40%	85304C		323	0.25	0.003	
	↑	↑	↑	↑	↑	↑													
	↑	↑	↑	↑	↑	↑			→ 1cm py unit.										
	↑	↑	↑	↑	↑	↑													
	↑	↑	↑	↑	↑	↑			→ 21cm qtz				0.35%	85305C		326	0.23	0.001	
330	↑	↑	↑	↑	↑	↑			327.97m End of Hole.										