

GRID: _____

PLACER DEVELOPMENT LIMITED

EXPLORATION DEPARTMENT

HOLE No. 77-3
SHEET No. 1 of 5LOCATION: NTS 105A2W/1041554 BEARING: _____
DATE COLLARED: 4 May 1979 LENGTH: 500' (153 m)
DATE COMPLETED: 9 May 1979 DIP: -90LATITUDE: 60°03'16"
DEPARTURE: 128°55'33"
ELEVATION: 2190' (667 m)PROPERTY: Liard Coal
CORE SIZE: HQ LOGGED BY: M. Boyd + D. Jenkins
SCALE OF LOG: 1:200 DATE: 10 May 1979

DEPTH m	m block & %rec.	ROCK TYPE DESCRIPTION	Graph. log Structure	SAMPLE NO.	COAL ANALYSES														REMARKS		
					MOISTURE %	% ASH		% V. M.		% F. C.		CALORIFIC VALUE		% S	% H	% N	% O	E.S.I.		Reflec	Sp. Gravity
						as rec'd.	dry basis	as rec'd.	dry basis	as rec'd.	dry basis	as rec'd.	dry basis								
0																					
4																					
8																					
12		Casing																			
16																					
20		Cave - Ground up coal mixed w/ sand & clay																			
24	47% 31% 43% 47%	Sand: Lt. grey; coarse grnd; well sorted; grades upward into fine grnd less well sorted sand @ 23 cm then grades upward to sandy micaceous silt @ top; 2cm coal parting @ top																			
28	58% 34% 61%	SANDY, LT. GREY, SL. WELL SORTED FINE GRND. HARD CARBONOUS INTO V.F. CLAY WITHIN. SANDS INTO SILT. COARSE, MEDIUM, FINE, COAL, CARBONOUS INTERBEDDED. DIRTY, FINE GRAINED TO HEAVY GRAINED CLAY GRADING UP INTO MICACEOUS, POORLY BEDDED & COPEL, SANDSTONE. Coal: Black; Hard; finely divided Organic matter		58943																Sent to Roke	

BORHOLE LOG BY: _____

DATE: _____

DEPTH m	m block % loc.	ROCK TYPE DESCRIPTION	Graph. log Structure	SAMPLE NO.	COAL ANALYSES															REMARKS	
					MOISTURE %	% ASH		% V. M.		% F. C.		CALORIFIC VALUE		% S	% H	% N	% O	U.S. E.	Reflec.		Sp. Gravity
						as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis								
35	57%	CLAY, V.F. GRAINED, LITTLE MATTER, L.Y. GRAY TINTED SANDSTONE: FINE GRAINED, GRAY'S UNWASHED INTO V.F. FINE CLAY V. FINE GRAINED VISIBLE CHINCHON VISIBLE IN QUANTITY AT 32.0 - 32.5																			
36	39%	SANDSTONE: DIRTY BROWN, F. GRAINED, GRAY INTO VERY ORGANIC CLAY WITH INTERMITTENT STOPS OF THIN LAYERS COAL. PNE 2.00 REM. ONE 5.00																			
	92%	SANDSTONE: FINE GRAINED, LITTLE MATTER, WELL SORTED, NO BUST CLAY ORGANIC FINING, UNWASHED INTO POOR QUALITY COAL SOOTY, THEN KNO. TO F. GRAINED, SANDY CLAY																			
	20%	CLAY, SLIGHTLY ORGANIC, F. GRAINED																			
40	12.5%	QUARTZ, HIGHLY SILICIOUS ROCKS, PEBBLES, AND VERY COARSE GRAINED SAND, HIGHLY MICACEOUS QUARTZ & FELLS																			
	14%	HIGHLY SILICIOUS ROCKS, PEBBLES AND V. COARSE GRAINED QUARTZ, PLAG. FELDSPAR, AND SANDSTONE SAND CLAYITE & MUSCOVITE, POORLY SORTED																			
	6%	COARSE GRAINED SAND AND SILICIOUS QUARTZ S.A. ABOVE. POORLY SORTED. FELLS																			
42	30%	QUARTZ, PLAG. FELDSPAR, C. GRAINED SAND																			
	16%																				
48	95%	Silt and Clay: Gt. grey - Bed; Sandy; in part high organic content in clay																			
52		Gravel: coarse pebble to cobble Size; no matrix recovered; clasts consist of quartz, argillite, and acid intrusive rock types.																			
	41%																				
66																					
60																					
	30%	sand: med - dk. grey, fine grnd. poorly sorted																			
	50%	micaceous; thin bedded coal partings																			
	87%																				
	87%																				

DEPTH m	m block & % rec.	ROCK TYPE DESCRIPTION	Graph Log Structure	SAMPLE NO.	COAL ANALYSES														REMARKS		
					MOISTURE %	% ASH		% V. M.		% F. C.		CALORIFIC VALUE		% S	% H	% N	% O	F.S.I		Reflec.	Sp. Gravity
						as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis								
60	100%																				
	43%																				
	100%	Clay: Lt. greenish grey - DK. BRN., silty w/ small @ bottom, moderate organ. @ top																			
72	75%	Sand: Lt. grey - med. BRN; fine grnd poorly sorted w/increasing proportion of silt and clay matrix @ top;																			
	100%	Local thin coal partings; locally thin bedded																			
76	50%																				
	11%	Clay bed; Lt. green silty																			
	52%	Clay w/silt and fine sand interbeds Clay is soft and plastic																			
80	90%	Increasing organic content towards base																			
	43%	Coal: DK. BRN. - Black; hard; finely divided organic matrix w/grass molds		58944																Send sample for logging correlation	
	105%	Clay - silt: Clay - Blue grey; silty. Compact w/little plasticity																			
84	61%	w/ 20-30 cm interbeds of silt and sandy silt in top 3m																			
88																					
92																					
96																					
100																					
	100%	1-2cm Coal partings @ 102.7m																			
	100%																				

GRID: _____

DEPTH m	m block & % rec.	ROCK TYPE DESCRIPTION	Graph. log Structure	SAMPLE NO.	COAL ANALYSES														REMARKS
					MOISTURE %	% ASH as recvd.	% V. M. dry basis	% F. C. as recvd.	dry basis	CALORIFIC VALUE as recvd.	dry basis	% S	% H	% N	% O	L.S. 3	Reflec.	S.p. Gravity	
109		Clay: as above; lower 0.5 m gradational to coal by interbeds of coal																	
93%																			
73%		Coal: Compact w/ clay chips and grass free																	
108		Sand: Lt. grey; fine grnd; poorly sorted thin bedded w/ coal partings																	
96%																			
46%																			
93%		Coal 15 cm + organic clay																	
112																			
63%		Sand: Lt. grey; fine-med. grnd poorly sorted; Rare 1 mm thick clay and coal partings (deformed by drilling)																	
87%																			
6%																			
116																			
0%																			
66%																			
120																			
100%																			
51%																			
54%																			
67%		Coal partings @ 123-124 m																	
174																			
33%																			
0%																			
128																			
0%																			
93%																			
132		Clay: Blue grey mat. w grnd. + yellow; silty + sandy; mic; compact w/ narrow zones of moderate plasticity																	
0%																			
136		Thin silt beds w/ abund. muscovite																	
106%		Coal ball @ 137.5																	
0%																			
140																			
106%																			

DEPTH m		m block & % rec.	ROCK TYPE DESCRIPTION	Graph log Structure	SAMPLE NO.	COAL ANALYSES														REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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