

PLACER DEVELOPMENT LIMITED

EXPLORATION DEPARTMENT

HOLE No. 2C.22
SHEET No. 1 of 6

GRID: _____

LOCATION: ALASKA HWY. BEARING: _____ LATITUDE: 60° 03' PROPERTY: LIARD COAL BASIN
DATE COLLARED: MARCH 14, 1978 LENGTH: 136.2 m DEPARTURE: 128.52 CORE SIZE: HQ / WL LOGGED BY: J. E. JOHNSON
DATE COMPLETED: MARCH 29, 1978 DIP: -90° ELEVATION: 2070' SCALE OF LOG: 1:100 DATE: APRIL 4, 1978

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								
41																						
42																						
43	12.6	gray silt (minor organic matter) (mixed with some clay)																				
44	30% 44.2																					
45																						
46	20%																					
47																						
48	48.2	gray silt - contact - bedding with rounded & pebbles (1/2 - 1 cm) sand			25																	
49		↓ 1 to 10% & pebbles (poorly consolidated)																				
50																						
51	16																					
52																						
53																						
54																						
55	54.8	10 cm coal organic clay & silt			54.6 54.8	36.61	14.00	24.90	24.42	38.53	19.97	31.49	5114	8067	15.2%							
56	100	↓ milky material. presents gradually organic silt & clay			56.2																	
57	56.4 56.7	COAL			56.852	10.50	12.36	20.78	27.19	45.70	19.45	33.52	5482	9214	14.2%							

GRID: _____

PLACER DEVELOPMENT LIMITED

EXPLORATION DEPARTMENT

 LOGGED BY: 118
 DATE: April 5, 1975

 HOLE No. 2
 SHEET No. 2 of 6

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	L.S.I.		Reflec.	Sp. Gravity
						as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis								
57	50	COAL	1.7m	58852																	
58	57.9	clay (mudstone?)		57.9																	
59	100	COAL	0.3m	58853	44.46	4.79	8.62	28.53	51.36	22.22	40.02	5946	10706	14.75							
60	59.4	clay (organic, where from?)		58.9																	
60	100	COAL	0.2m	58854	44.21	8.64	15.48	26.30	47.14	20.85	37.38	5993	9846	116.20							
61	60.9	COAL	0.35m	58855	41.78	5.42	9.31	30.09	51.68	22.71	39.01	6158	10567	117.29							
62	95	COAL	1.8m	58856	42.76	7.69	13.44	28.31	49.47	21.24	37.09	5757	10058	13.22							
63	100	clay																			
64	100	COAL	1.5m	58857	42.23	5.33	9.22	29.26	50.65	23.18	40.13	6139	10627	13.23							
65	64.6	CLAY SPLIT		64.3																	
66	100	COAL	1.2m	58858	41.14	9.47	16.09	28.10	47.73	21.69	36.18	5741	9754	14.24							
67	60	CLAY		60.2																	
68	67.6	COAL	0.6m	58859	39.22	11.49	18.91	27.99	46.05	21.30	35.04	5676	9938	14.23							
68	67.3	"sandy" COAL	0.3m	58860	41.25	13.95	40.76	20.05	34.13	14.75	25.11	3855	6562	10.17							
69	60																				
70	50	COAL	4.0m	58861	35.95	11.36	17.63	29.80	46.27	23.25	36.10	6217	9652	15.23							
71	70.1																				
72	71.9	clayish, silty, organic mud		71.9																	
73	75	CLAY (mudstone?)		73.0																	
74	73.8	COAL (quality?)	0.8m	58862	27.42	20.45	28.18	29.23	40.28	22.90	31.54	5896	8123	22.31							
75		organic silty mud		73.8																	
		sand																			

BOREHOLE LOG BY: _____

DATE: _____

GRID: _____

PLACER DEVELOPMENT LIMITED
EXPLORATION DEPARTMENTLOGGED BY: _____ DATE: _____
HOLE No. _____ SHEET No. 3 of 2

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								
75																						
76	50	sand (minor organic matter)																				
76.8																						
77																						
78																						
79																						
80																						
81																						
82																						
83	0/10	wash out, caving possible sand																				
84																						
85																						
86																						
87																						
88																						
89																						
90	90.5																					
91	40%	↑ sand ↓ coal			91.0																	
92	22.9	> Quartz sand (where from?) 2.2m			58863	36.58	5.68	8.95	31.94	50.37	25.80	40.68	6734	10619	15/24							
93	2.0%																					

GRID: _____

PLACER DEVELOPMENT LIMITED
EXPLORATION DEPARTMENTLOGGED BY: JS
DATE: April 5, 1973HOLE No. 2042
SHEET No. 7 of 6

DEPTH m	m block & % sec.	ROCK TYPE DESCRIPTION	Graph. log Structure	SAMPLE NO.	COAL ANALYSES													REMARKS		
					MOISTURE %	% ASH		% V. M.		% F.C.	CALORIFIC VALUE		% S	% H	% N	% O	I.S. 3		Reflec.	Sp. Gravity
						as recvd.	dry basis	as recvd.	dry basis		as recvd.	dry basis								
93	93.1	COAL (9.1112) ↓ GRAY SLIGHTLY ORGANIC) CLAY		93.2																
94	75																			
95	95.4	← 10 cm org. mud ↓ GRAY SILT																		
96	100	↓ GRAY CLAY ↓ whitish clay																		
97	96.6																			
98	99																			
98	98.1	↓ gray org. clay with drift wood																		
99	(95)																			
100	99.7 50 100.3 49 101.1	↓ COAL 10 cm float org. mud 1.3		99.4 99.8 58864	37.38	14.18	22.65	22.05	44.80	20.39	32.55	5704	8994	16/ 26						
1		↑		101.1																
2	75 102.1	↑ scate earth clay whitish clay ↓		102.12																
3	80	COAL 1.8		58865	33.76	17.57	26.53	28.26	42.66	20.41	30.81	5640	8514	29/ 31						
4	103.6	↑ gray, clayish silt		103.6																
5	95 105.0	↑ whitish clay gray sand																		
6	6																			
7	106.7	↓ grayish clay																		
8	99 108.1	grayish silty clay clayish silt → silty clay with ovals, woody particles																		
9	99	gray silt (some organic mat) ↓																		
110	109.7																			
111	95																			

BOREHOLE LOG BY: _____

DATE: _____

GRID: _____

PLACER DEVELOPMENT LIMITED

EXPLORATION DEPARTMENT

LOGGED BY: _____ HOLE No. 21
DATE: April 6, 1975 SHEET No. 5 of 10

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	I.S. F.		Reflec.	Sp. Gravity
						as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis	as recvd.	dry basis								
111	111.3	Org. mud. (clay, (silt), coal particles.)																			
112	25	clay silt & sand																			
113	112.8																				
114	113.4																				
115	114.9	→ diff coal in the sand																			
116	30	sand clay (org. mud)																			
117	116.4	whitish clay																			
118	117.2	organic mud / greenish clay gradually changing into org. mud and into COAL		58866	35.06	14.70	22.64	28.34	43.64	21.90	33.72	5832	8980	21/33							
119	95	ORGANIC MUD GRAY CLAY whitish clay		118.2																	
120	119.4	gray silt																			
121	121.0																				
122	100	sand with lenticles of "diff coal" bedding		100																	
123	122.5	COAL (brown clay & silt-clay (org. mud))		58867	23.61	32.11	41.38	33.62	20.92	15.66	20.50	4364	5713	24/32							
124	90	org. clay																			
125	124.1																				
126	30																				
127	125.5																				
128	10																				
129	126.5																				
130	99	org. mud gradually changing into																			
131	5	COAL recovery?		58868	23.65	21.74	28.42	33.23	43.53	21.38	28.00	6301	8253	18/23						128.0 S	

