

# DRILL RUNS FOR DRILLHOLE 70-1

Run	Recovery (m)	Character
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Note: All the core from drillhole 70-1 was previously split and sampled by Imperial Oil Enterprises Ltd. Recoveries reported here were obtained by spreading the remaining half along the core box. Where only the length of the longest piece is given, all core now consists of split cylinders.

Box 1 4.57-11.43 m (15'-37½') H.S. Bostock Core Library Number 4151 (000695)  
Section 11F

4.57-5.79	(15'-19')	0.97	max 9 cm for single piece
5.79-6.71	(19'-22')	0.99	max 10 cm
6.71-7.32	(22'-24')	0.53	max 12 cm
7.32-7.92	(24'-26')	0.79	max 8 cm
7.92-8.38	(26'-27½')	0.45	max 9 cm
8.38-9.14	(27½'-30')	0.46	max 6 cm
9.14-9.45	(30'-31')	0.38	max 12 cm
9.45-9.60	(31'-31½')	0.19	max 10 cm
9.60-10.21	(31½'-33½')	0.62	max 9 cm
10.21-11.13	(33½'-36½')	0.70	max 8 cm

6.08

Box 2 11.43-17.68 m (37½'-58') H.S. Bostock C.L.N. 4152 (000696), Section 11F

11.13-12.19	(36½'-40')	0.80	max 8 cm for single piece split core and angular fragments
12.19-12.95	(40'-42½')	0.96	max 10 cm
12.95-13.26	(42½'-43½')	0.22	max 8 cm, 12.95-13.26 m - rounded rubble
13.26-13.72	(43½'-45')	0.45	max 6 cm, split core and rounded fragments
13.72-14.48	(45'-47½')	0.91	max 8 cm
14.48-14.63	(47½'-48')	0.23	max 4 cm, mostly rounded rubble
14.63-15.24	(48'-50')	0.42	max 9 cm
15.24-15.70	(50'-51½')	0.27	max 9 cm
15.70-16.46	(51½'-54')	0.65	max 9 cm
16.46-17.68	(54'-58')	1.16	max 16 cm

6.07

Box 3 17.68-25.30 m (58'-83') H.S. Bostock C.L.N. 4153 (000697), Section 11F

17.68-19.20	(58'-63')	1.26	max 11 cm for single piece
19.20-20.12	(63'-66')	0.85	max 9 cm
20.12-20.73	(66'-68')	0.50	max 11 cm
20.73-21.64	(68'-71')	0.58	rounded rubble
21.64-22.25	(71'-73')	0.58	max 11 cm
22.25-23.77	(73'-78')	1.40	max 12 cm
23.77-24.99	(78'-82')	1.13	max 8 cm
24.99-25.30	(82'-83')	0.23	max 6 cm

6.53

# DRILL RUNS FOR DRILLHOLE 70-1 (CONT.)

Run	Recovery (m)	Character
<b>Box 4 25.30-32.61 m (83'-107')</b> H.S. Bostock C.L.N. 4154 (000698), Section 11F		
25.30-26.21 (83'-86')	0.76	max 10 cm for single piece
26.21-26.82 (86'-88')	0.56	max 9 cm
26.82-27.13 (88'-89')	0.29	max 6 cm
27.13-27.43 (89'-90')	0.18	max 8 cm
27.43-28.35 (90'-93')	0.76	max 8 cm
28.35-28.96 (93'-95')	0.60	max 14 cm
28.96-29.26 (95'-96')	0.32	max 10 cm
29.26-30.48 (96'-100')	0.84	max 10 cm, split core and angular fragments
30.48-30.78 (100'-101')	0.17	max 8 cm, split core and angular and rounded fragments
30.78-31.70 (101'-104')	0.42	max 9 cm, split core and angular fragments
31.70-32.08 (104'-105 $\frac{1}{4}$ ')	0.35	max 6 cm, 31.70-31.88 m - rounded fragments
32.08-32.31 (105 $\frac{1}{4}$ '-106')	0.12	rounded fragments
32.31-32.61 (106'-107')	0.35	angular and rounded fragments
	5.72	
<b>Box 5 32.61-41.15 m (107'-135')</b> H.S. Bostock C.L.N. 4155 (000699), Section 11F		
32.61-33.53 (107'-110')	0.57	rounded fragments and split core
33.53-34.29 (110'-112 $\frac{1}{2}$ ')	0.44	max 6 cm for single piece, angular fragments and split core
34.29-34.75 (112 $\frac{1}{2}$ '-114')	0.33	max 7 cm, split core and angular fragments
34.75-35.97 (114'-118')	0.56	max 11 cm
35.97-36.27 (118'-119')	0.18	angular fragments
36.27-37.19 (119'-122')	0.44	angular fragments
37.19-38.71 (122'-127')	0.29	max 7 cm, split core and angular fragments
38.71-39.62 (127'-130')	1.10	max 12 cm
39.62-40.23 (130'-132')	0.60	max 9 cm
40.23-40.54 (132'-133')	0.26	max 10 cm
40.54-41.15 (133'-135')	0.47	max 8 cm
	5.24	
<b>Box 6 41.15-49.07 m (135'-161')</b> H.S. Bostock C.L.N. 4156 (000700), Section 11F		
41.15-41.45 (135'-136')	0.30	max 8 cm for single piece
41.45-42.06 (136'-138')	0.60	max 10 cm
42.06-42.67 (138'-140')	0.49	max 10 $\frac{1}{2}$ cm
42.67-43.13 (140'-141 $\frac{1}{2}$ ')	0.28	max 11 cm
43.13-43.43 (141 $\frac{1}{2}$ '-142 $\frac{1}{2}$ ')	0.30	max 8 $\frac{1}{2}$ cm
43.43-43.74 (142 $\frac{1}{2}$ '-143 $\frac{1}{2}$ ')	0.27	max 10 $\frac{1}{2}$ cm
43.74-44.50 (143 $\frac{1}{2}$ '-146')	0.68	max 9 cm
44.50-46.02 (146'-151')	0.30	mostly rounded fragments
46.02-46.63 (151'-153')	0.22	rounded fragments and split core
46.63-47.09 (153'-154 $\frac{1}{2}$ ')	0.33	angular fragments and split core
47.09-47.55 (154 $\frac{1}{2}$ '-156')	0.09	max 6 cm
47.55-48.16 (156'-158')	0.60	max 13 cm
48.16-48.77 (158'-160')	0.43	max 7 cm
	4.89	

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Run	Recovery (m)	Character
<b>Box 7 49.07-56.08 m (161'-184')</b> H.S. Bostock C.L.N. 4157 (000701), Section 11E		
48.77-49.23 (160'-161½')	0.45	max 9 cm for single piece
49.23-49.83 (161½'-163½')	0.60	max 8½ cm
49.83-51.21 (163½'-168')	1.39	max 11 cm
51.21-51.66 (168'-169½')	0.45	max 8 cm
51.66-52.43 (169½'-172')	0.85	max 10½ cm
52.43-52.73 (172'-173')	0.30	angular fragments and split core, max 9 cm
52.73-53.34 (173'-175')	0.55	max 8 cm
53.34-53.95 (175'-177')	0.29	angular fragments
53.95-54.25 (177'-178')	0.29	max 9 cm
54.25-55.17 (178'-181')	0.00	
55.17-55.47 (181'-182')	0.00	
55.47-55.78 (182'-183')	0.14	rounded fragments
55.78-55.93 (183'-183½')	0.15	max 6 cm
	5.46	
<b>Box 8 56.08-65.23 m (184'-214')</b> H.S. Bostock C.L.N. 4158 (000702), Section 3C		
55.93-56.54 (183½'-185½')	0.23	max 9 cm for single piece
56.54-57.15 (185½'-187½')	0.35	max 8 cm
57.15-58.06 (187½'-190½')	0.75	max 9½ cm
58.06-58.37 (190½'-191½')	0.30	max 6 cm
58.37-58.98 (191½'-193½')	0.15	max 6 cm
58.98-60.05 (193½'-197')	0.40	mostly angular fragments, max 9 cm
60.05-60.66 (197'-199')	0.24	mostly rubble
60.66-61.11 (199'-200½')	0.13	angular fragments
61.11-62.18 (200½'-204')	0.73	max 5½ cm
62.18-63.25 (204'-207½')	0.80	max 6 cm
63.25-64.01 (207½'-210')	0.69	max 10 cm
64.01-64.92 (210'-213')	0.50	max 7 cm
	5.27	
<b>Box 9 65.23-73.15 m (214'-240')</b> H.S. Bostock C.L.N. 4159 (000703), Section 3C		
64.92-65.68 (213'-215½')	0.33	max 6 cm for single piece
65.68-67.21 (215½'-220½')	1.23	split core and rubble, max 8 cm
67.21-67.67 (220½'-222')	0.25	max 6½ cm
67.67-67.97 (222'-223')	0.18	angular fragments
67.97-68.58 (223'-225')	0.49	67.97-68.25 m - split core max 9 cm, 68.25-68.30 m - rubble, 68.30-68.46 m - angular fragments
68.58-69.80 (225'-229')	0.77	max 8½ cm
69.80-70.71 (229'-232')	0.56	69.80-69.87 m - split core max 5½ cm, 69.87-70.36m - rubble
70.71-71.63 (232'-235')	0.26	max 5 cm, rounded fragments
71.63-73.15 (235'-240')	0.99	71.63-71.71 m - rounded rubble max 5 cm, 71.71-71.73 m - fine earthy rubble, 71.73-72.72 m - split core max 12 cm
	5.06	

# DRILL RUNS FOR DRILLHOLE 70-1 (CONT.)

Run	Recovery (m)	Character
<u>Box 10 73.15-81.38 m (240'-267')</u> H.S. Bostock C.L.N. 4160 (000704), Section 3C		
73.15-73.46 (240'-241')	0.27	max 7 cm for single piece
73.46-74.07 (241'-243')	0.59	max 8 cm, 73.46-73.57 m - rounded fragments, 73.57-74.05 m - mostly split core, angular fragments at bottom
74.07-74.68 (243'-245')	0.60	max 10 cm
74.68-75.59 (245'-248')	0.86	max 10½ cm
75.59-76.50 (248'-251')	0.66	max 9½ cm
76.50-77.11 (251'-253')	0.48	max 11 cm
77.11-78.03 (253'-256')	0.36	max 12 cm, about half fine angular rubble
78.03-78.94 (256'-259')	0.33	max 7 cm, split core and angular fragments
78.94-79.86 (259'-262')	0.25	angular fragments
79.86-80.31 (262'-263½')	0.25	max 9½ cm
80.31-81.38 (263½'-267')	0.53	max 7 cm, split core and angular fragments
	5.18	
<u>Box 11 81.38-89.61 m (267'-294')</u> H.S. Bostock C.L.N. 4161 (000705), Section 3C		
81.38-81.69 (267'-268')	0.24	angular fragments
81.69-82.14 (268'-269½')	0.40	81.69-81.76 m - rubble, 81.76-82.09 m - split core max 8½ cm for single piece
82.14-82.60 (269½'-271')	0.24	max 8 cm
82.60-83.06 (271'-272½')	0.28	max 8 cm
83.06-83.67 (272½'-274½')	0.54	max 10½ cm
83.67-84.58 (274½'-277½')	0.80	max 9 cm
84.58-85.04 (277½'-279')	0.21	split core and angular fragments
85.04-86.11 (279'-282½')	0.20	angular fragments and rubble
86.11-86.72 (282½'-284½')	0.40	max 6 cm, rubble and split core
86.72-87.33 (284½'-286½')	0.59	max 9 cm, alternating split core and rubble
87.33-88.54 (286½'-290½')	1.00	max 9½ cm
88.54-89.15 (290½'-292½')	0.60	max 9 cm
89.15-89.61 (292½'-294')	0.20	angular fragments
	5.70	
<u>Box 12 89.61-90.98 m (294'-298½')</u> H.S. Bostock C.L.N. 4162 (000706), Section 3C		
89.61-90.22 (294'-296')	0.34	max 6 cm
90.22-90.98 (296'-298½')	0.53	max 6½ cm
	0.87	

86.41 (283½') 62.07

$$\text{Recovery} = \frac{62.07}{86.41} \times 100 = 71.8\%$$