

Company: COLUMBIA GAS DEVELOPMENT OF CANADA LTD.
Well: COLUMBIA ET AL KOTANEELEE YT E-37

Formation: NAHANNI, MANETOE
Drilling Fluid: WATER BASE MUD

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File: 7004-8573

0104W

CORED INTERVAL 11412.0' - 13192.0'

CORE NO. 1 11412.0' - 11444.0' (REC. 0')

11412.0-44.0 32.0 - - - - - not received
11444.0-26.0 1282.0 - - - - - drilled

CORE NO. 2 12726.0' - 12733.0' (REC. 3.0') (1 BOX)

- 12726.0-29.0 3.0 - - - - - sh
- 12729.0-33.0 4.0 - - - - - lost core

CORE NO. 3 12733.0' - 12741.0' (REC. 7.0') (2 BOXES)

- 12733.0-40.0 7.0 - - - - - sh
- 12740.0-41.0 1.0 - - - - - lost core
- 12741.0-99.0 58.0 - - - - - drilled

CORE NO. 4 12799.0' - 12859.0' (REC. 57.0') (16 BOXES)

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity Per. Cent.	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K _{Max}	K _{90°}	K _V				Bulk	Grain	
1	12799.0-99.9	0.9	3.23	1.09	0.58	2.91	2.0	1.80	2.75	2.80	dol i p-pv sv anhy carb
2	12799.9-01.2	1.3	7.96	4.98	2.03	10.35	2.9	3.77	2.66	2.74	dol i p-pv sv anhy carb
3	12801.2-02.7	1.5	30.70	21.20	6.83	46.05	2.0	3.00	2.74	2.79	dol i p-pv sv anhy carb
4	12802.7-03.6	0.9	16.20	6.68	2.77	14.58	3.7	3.33	2.65	2.76	dol i p-pv sv anhy carb
b5	12803.6-04.5	0.9	1.28	-	-	1.15	3.8	3.42	2.69	2.79	dol i p-pv sv anhy carb
6	12804.5-05.2	0.7	77.20	63.20	24.00	54.04	4.4	3.08	2.60	2.72	dol i p-pv sv anhy carb
7	12805.2-06.1	0.9	10.30	7.11	2.91	9.27	2.8	2.52	2.75	2.83	dol i p-pv sv anhy carb
8	12805.1-07.0	0.9	11.60	5.38	1.76	10.44	5.5	4.95	2.72	2.88	dol i p-pv sv anhy
9	12807.0-08.1	1.1	1.44	1.29	0.25	1.58	2.3	2.53	2.73	2.80	dol i p-pv sv anhy carb
10	12808.1-09.2	1.1	25.90	6.64	15.00	28.49	2.7	2.97	2.57	2.64	dol i p-pv sv anhy carb
11	12809.2-10.6	1.4	*	0.65	*	0.91	4.2	5.88	2.50	2.60	dol i p-pv sv open vert frac
12	12810.6-12.9	2.3	4.28	3.09	0.36	9.84	3.8	8.74	2.51	2.61	dol i p-pv sv anhy carb
13	12812.9-14.2	1.3	0.13	0.03	0.15	0.17	5.3	6.89	2.47	2.61	dol i p-pv sv anhy carb
14	12814.2-15.0	0.8	0.30	0.25	0.10	0.24	3.7	2.96	2.62	2.73	dol i p-pv sv anhy carb
15	12815.0-16.6	1.6	326.00	1.87	0.24	521.60	3.2	5.12	2.59	2.68	dol i p-pv sv anhy carb
16	12816.6-17.4	0.8	0.03	0.02	0.01	0.02	1.8	1.44	2.75	2.80	dol i p-pv sv anhy carb
17	12817.4-18.6	1.2	1.93	1.29	0.13	2.32	2.4	2.88	2.74	2.81	dol i p-pv sv anhy carb

14.3

71262

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Formation: NAHANNI, MANETOE
Drilling Fluid: WATER BASE MUD

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Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination	
	Depth	Thick	K Max	K90°	KV				Bulk	Grain		
CORE NO. 4 CONTINUED												
18	12818.6-19.5	0.9	0.9	1.70	0.45	0.11	1.53	2.2	1.98	2.71	2.77	do1 i p-pv sv anhy carb
19	12819.5-20.6	1.1	0.72	0.40	0.13	0.79	3.1	3.41	2.71	2.79	do1 i p-pv sv anhy carb	
20	12820.6-21.7	1.1	2.20	0.10	0.22	2.42	3.4	3.74	2.40	2.48	do1 i p-pv sv anhy carb	
21	12821.7-22.4	0.7	1.03	0.57	0.68	0.72	3.9	2.73	2.51	2.61	do1 i p-pv sv anhy carb	
22	12822.4-23.8	1.4	2.08	1.68	0.15	2.92	1.9	2.66	2.72	2.78	do1 i p-pv sv anhy carb	
23	12823.8-24.9	1.1	0.45	0.41	0.36	0.50	3.6	3.96	2.69	2.79	do1 i p-pv sv anhy carb	
24	12824.9-25.7	0.8	2.85	1.03	0.43	2.28	3.4	2.72	2.63	2.72	do1 i p-pv sv anhy carb	
25	12825.7-27.2	1.5	1.17	0.97	0.32	1.76	2.7	4.05	2.73	2.81	do1 i p-pv sv anhy carb	
26	12827.2-28.2	1.0	1.94	1.00	1.53	1.94	1.9	1.90	2.74	2.79	do1 i p-pv sv anhy carb	
27	12828.2-29.2	1.0	0.87	0.85	0.69	0.87	2.2	2.20	2.75	2.81	do1 i p-pv sv anhy carb	
28	12829.2-30.3	1.1	1.15	0.90	0.11	1.27	2.4	2.64	2.74	2.81	do1 i p-pv sv anhy carb	
29	12830.3-31.0	0.7	2.17	1.17	0.11	1.52	2.1	1.47	2.72	2.77	do1 i p-pv sv anhy carb	
30	12831.0-31.7	0.7	0.17	0.17	0.10	0.12	2.6	1.82	2.74	2.82	do1 i p-pv sv anhy carb	
31	12831.7-32.8	1.1	0.48	0.31	0.13	0.53	5.1	5.61	2.71	2.86	do1 i p-pv sv anhy	
32	12832.8-34.2	1.4	0.74	0.66	0.23	1.04	3.1	4.34	2.67	2.75	do1 i p-pv sv anhy carb	
33	12834.2-35.3	1.1	19.80	16.40	2.77	21.78	3.7	4.07	2.69	2.80	do1 i p-pv sv anhy carb	
34	12835.3-35.8	0.5	5.94	3.91	1.03	2.97	2.7	1.35	2.73	2.81	do1 i p-pv sv anhy carb	
35	12835.8-36.5	0.7	7.06	5.54	0.85	4.94	1.2	0.84	2.73	2.77	do1 i p-pv sv anhy carb	
36	12836.5-37.6	1.1	4.36	4.05	1.03	4.80	2.5	2.75	2.75	2.82	do1 i p-pv sv anhy carb	
37	12837.6-38.2	0.6	1.25	1.09	0.51	0.75	2.7	1.62	2.74	2.82	do1 i p-pv sv anhy carb	
38	12838.2-39.2	1.0	2.72	1.25	0.59	2.72	2.8	2.80	2.75	2.83	do1 i p-pv sv anhy carb	
39	12839.2-40.2	1.0	2.33	1.28	1.64	2.33	3.4	3.40	2.70	2.79	do1 i p-pv sv anhy carb	
40	12840.2-41.4	1.2	3.82	0.62	0.43	4.58	3.6	4.32	2.63	2.74	do1 i p-pv sv anhy carb	
41	12841.4-43.0	1.6	0.65	0.63	0.24	1.04	2.2	3.52	2.75	2.81	do1 i p-pv sv anhy carb	
42	12843.0-43.5	0.5	4.55	-	-	2.28	5.1	2.55	2.67	2.81	do1 i p-pv sv anhy carb	
43	12843.5-44.0	0.5	5.12	4.23	2.13	2.56	2.8	1.40	2.74	2.82	do1 i p-pv sv anhy carb	
44	12844.0-44.5	0.5	2.71	1.44	1.20	1.36	2.2	1.10	2.75	2.81	do1 i p-pv sv anhy carb	
45	12844.5-45.5	1.0	1.78	1.30	1.34	1.78	2.6	2.60	2.75	2.82	do1 i p-pv sv anhy carb	
46	12845.5-46.7	1.2	4.06	3.86	0.94	4.87	4.1	4.92	2.71	2.83	do1 i p-pv sv anhy carb	
47	12846.7-47.5	0.8	5.13	4.64	2.97	4.10	3.0	2.40	2.71	2.80	do1 i p-pv sv anhy carb	
48	12847.5-48.5	1.0	4.29	3.30	0.89	4.29	2.8	2.80	2.74	2.82	do1 i p-pv sv anhy carb	
49	12848.5-49.4	0.9	1.04	0.40	0.83	0.94	2.2	1.98	2.72	2.79	do1 i p-pv sv anhy carb	
50	12849.4-50.2	0.8	0.40	0.34	0.17	0.32	2.6	2.08	2.72	2.79	do1 i p-pv sv anhy carb	

33.0

780.18

109.58

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Formation: NAHANNI, MANETOE
Drilling Fluid: WATER BASE MUD

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Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K Max	K90%	KV				Bulk	Grain	

CORE NO. 4 CONTINUED

51	12850.2-51.0	0.8	4.91	3.88	1.65	3.93	3.5	2.80	2.72	2.82	do l i p-pv sv anhy carb
	12851.0-51.8	0.8	2.27	1.34	1.57	1.82	3.2	2.56	2.69	2.78	do l i p-pv sv anhy carb
53	12851.8-52.6	0.8	25.60	2.60	1.10	20.48	5.2	4.16	2.65	2.79	do l i p-pv sv anhy carb
54	12852.6-53.5	0.9	1.14	0.35	0.21	1.03	2.0	1.80	2.71	2.76	do l i p-pv sv anhy carb
55	12853.5-54.6	1.1	0.45	0.36	0.28	0.50	2.9	3.19	2.76	2.84	do l i p-pv sv anhy carb
56	12854.6-56.0	1.4	1.64	1.29	0.60	2.30	2.6	3.64	2.76	2.83	do l i p-pv sv anhy carb
-	12856.0-59.0	3.0	-	-	-	-	-	-	-	-	lost core

CORE NO. 5 12859.0' - 12919.0' (REC. 55.5') (16 BOXES)

57	12859.0-60.0	1.0	1.71	1.27	0.43	1.71	3.6	3.60	2.70	2.80	do l i p-pv sv anhy carb
58	12860.0-60.8	0.8	1.99	1.59	0.99	1.59	3.1	2.48	2.73	2.82	do l i p-pv sv anhy carb
59	12860.8-61.6	0.8	0.75	0.69	0.22	0.60	2.9	2.32	2.69	2.77	do l i p-pv sv anhy carb
60	12861.6-62.4	0.8	1.63	1.32	0.43	1.30	2.7	2.16	2.74	2.82	do l i p-pv sv anhy carb
61	12862.4-63.7	1.3	4.54	4.02	0.51	5.90	3.3	4.29	2.73	2.82	do l i p-pv sv anhy carb
62	12863.7-64.6	0.9	4.31	4.24	1.14	3.88	3.6	3.24	2.73	2.84	do l i p-pv sv anhy
63	12864.6-65.6	1.0	20.00	11.00	36.80	20.00	9.1	9.10	2.38	2.62	do l i p-pv anhy carb vert frac
	12865.6-66.3	0.7	3.45	2.92	1.03	2.42	4.7	3.29	2.64	2.78	do l i p-pv anhy carb
	12866.3-67.3	1.0	2.56	1.61	0.52	2.56	3.4	3.40	2.72	2.82	do l i p-pv anhy carb
66	12867.3-68.3	1.0	3.81	3.71	0.50	3.81	3.0	3.00	2.75	2.83	do l i p-pv anhy carb
67	12868.3-68.8	0.5	2.52	2.47	1.21	1.26	4.3	2.15	2.73	2.85	do l i p-pv sv anhy
68	12868.8-70.2	1.4	1.94	1.67	0.46	2.72	3.3	4.62	2.73	2.82	do l i p-pv sv anhy
69	12870.2-70.7	0.5	35.30	1.81	1.29	17.65	6.6	3.30	2.66	2.85	do l i p-pv sv anhy
70	12870.7-71.3	0.6	225.00	28.40	6.09	135.00	3.1	1.86	2.75	2.84	do l i p-pv sv anhy vert frac
71	12871.3-72.2	0.9	22.40	14.10	1.43	20.16	3.9	3.51	2.72	2.83	do l i p-pv sv anhy
72	12872.2-73.1	0.9	5.09	4.13	1.44	4.58	2.9	2.61	2.76	2.85	do l i p-pv sv anhy
73	12873.1-74.1	1.0	3.50	2.58	1.41	3.50	3.3	3.30	2.72	2.81	do l i p-pv sv anhy
74	12874.1-75.3	1.2	3.68	2.90	1.19	4.42	3.1	3.72	2.73	2.82	do l i p-pv sv anhy
75	12875.3-76.1	0.8	5.69	5.50	1.80	4.55	5.5	4.40	2.63	2.78	do l i p-pv sv anhy carb
76	12876.1-77.1	1.0	23.90	23.60	2.19	23.90	3.6	3.60	2.71	2.82	do l i p-pv sv anhy
77	12877.1-78.0	0.9	7.53	5.49	1.51	6.78	3.6	3.24	2.74	2.84	do l i p-pv sv anhy
78	12878.0-78.8	0.8	2.80	2.12	0.94	2.24	3.1	2.48	2.73	2.82	do l i p-pv sv anhy

18.1 56.7

1079.67

194.65

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Formation: NAHANNI, MANETOE
 Drilling Fluid: WATER BASE MUD

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Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per. Cent	Porosity Feet	Density, gm/cc		Visual Examination
	Depth	Thick.	K Max	K90°	KV				Bulk	Grain	

CORE NO. 5 CONTINUED

79	12878.8-79.7	0.9	1.18	0.48	0.06	1.06	2.4	2.16	2.74	2.81	dol i p-pv sv anhy	
	12879.7-80.9	1.1	1.2	1.45	1.08	0.50	1.74	2.3	2.76	2.74	2.81	dol i p-pv sv anhy
	12880.9-81.8	0.9	0.73	0.51	0.43	0.66	2.5	2.25	2.77	2.84	dol i p-pv sv anhy	
82	12881.8-82.9	1.1	1.33	0.60	0.27	1.46	2.2	2.42	2.77	2.83	dol i p-pv sv anhy	
83	12882.9-83.9	1.0	19.70	14.00	0.40	19.70	2.7	2.70	2.72	2.80	dol i p-pv sv anhy	
84	12883.9-84.6	0.7	8.03	7.24	1.32	5.62	4.8	3.36	2.53	2.66	dol i p-pv sv anhy carb	
85	12884.6-85.7	1.1	5.07	4.73	1.51	5.58	4.1	4.51	2.58	2.69	dol i p-pv sv anhy carb	
86	12885.7-86.9	1.2	28.20	7.56	0.05	33.84	2.4	2.88	2.74	2.81	dol i p-pv sv anhy carb h frac	
87	12886.9-87.8	0.9	1.75	1.42	0.19	1.58	2.4	2.16	2.77	2.84	dol i p-pv sv anhy	
88	12887.8-88.7	0.9	103.00	2.40	0.27	92.70	3.1	2.79	2.68	2.76	dol i p-pv sv carb	
89	12888.7-89.5	0.8	1.98	1.32	0.11	1.58	2.7	2.16	2.70	2.78	dol i p-pv sv carb	
90	12889.5-90.7	1.2	3.07	2.43	0.14	3.68	2.1	2.52	2.74	2.80	dol i p-pv sv carb	
91	12890.7-91.6	0.9	11.80	4.73	1.02	10.62	3.4	3.06	2.63	2.73	dol i p-pv anhy carb	
92	12891.6-92.6	1.0	4.99	3.55	1.31	4.99	3.5	3.50	2.64	2.74	dol i p-pv anhy carb	
93	12892.6-93.5	0.9	2.37	1.78	0.51	2.13	4.0	3.60	2.78	2.90	dol i p-pv scat sv anhy carb	
94	12893.5-94.6	1.1	30.90	16.00	0.74	33.99	3.6	3.96	2.60	2.70	dol i p-pv sv anhy carb h frac	
95	12894.6-95.3	0.7	4.89	1.28	0.54	3.42	3.6	2.52	2.63	2.73	dol i p-pv sv anhy carb	
96	12895.3-96.2	0.9	1.01	0.89	0.20	0.91	2.4	2.16	2.69	2.76	dol i p-pv sv anhy carb	
	12896.2-96.8	0.6	2.91	1.70	0.85	1.75	3.0	1.80	2.68	2.77	dol i p-pv sv anhy carb	
98	12896.8-97.8	1.0	5.45	3.54	0.59	5.45	3.0	3.00	2.75	2.83	dol i p-pv sv anhy carb	
99	12897.8-99.0	1.2	1.53	0.61	0.19	1.84	4.4	5.28	2.56	2.68	dol i p-pv sv anhy carb	
100	12899.0-99.7	0.7	5.65	2.87	0.13	3.96	3.2	2.24	2.62	2.71	dol i p-pv sv anhy carb	
101	12899.7-00.5	0.8	0.83	0.38	0.19	0.66	3.1	2.48	2.69	2.78	dol i p-pv sv anhy carb	
102	12900.5-01.0	0.5	2.37	1.50	0.41	1.19	4.3	2.15	2.55	2.67	dol i p-pv sv anhy carb	
103	12901.0-01.5	0.5	8.08	6.50	3.38	4.04	3.6	1.80	2.66	2.76	dol i p-pv sv anhy carb	
104	12901.5-02.3	0.8	8.28	7.34	2.04	6.62	2.2	1.76	2.72	2.78	dol i p-pv sv anhy carb	
105	12902.3-04.0	1.7	4.79	4.46	0.83	8.14	2.2	3.74	2.77	2.83	dol i p-pv sv anhy carb	
106	12904.0-04.8	0.8	6.51	3.54	0.24	5.21	2.0	1.60	2.77	2.83	dol i p-pv sv anhy carb	
107	12904.8-05.7	0.9	3.54	2.48	0.51	3.19	2.2	1.98	2.76	2.82	dol i p-pv sv anhy carb	
108	12905.7-06.9	1.2	0.47	0.40	0.08	0.56	2.2	2.64	2.77	2.84	dol i p-pv sv anhy carb	
109	12906.9-07.9	1.0	2.25	1.93	0.86	2.25	1.9	1.90	2.75	2.80	dol i p-pv sv anhy carb	
110	12907.9-08.9	1.0	1.68	1.58	0.95	1.68	2.3	3.30	2.73	2.80	dol i p-pv sv anhy carb	

81.9

1347.34

272.52

COLUMBIA GAS DEVELOPMENT OF CANADA LTD.
COLUMBIA ET AL KOTANEELEE YT E-37

Formation NAHANNI, MANETOE
Drilling Fluid WATER BASE MUD

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Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K Max	K90°	KV				Bulk	Grain	

CORE NO. 5 CONTINUED

111	12908.9-09.9	1.0	1.89	1.05	0.30	1.89	2.7	2.70	2.76	2.83	do l i p-pv sv anhy carb
112	12909.9-10.6	0.7	5.44	2.98	1.30	3.81	11.3	7.91	2.50	2.82	do l i p-pv sv anhy carb
	12910.6-11.3	0.7	5.77	3.50	0.64	4.04	3.7	2.59	2.67	2.77	do l i p-pv sv anhy carb
114	12911.3-12.5	1.2	4.12	4.06	0.36	4.94	3.9	4.68	2.65	2.76	do l i p-pv sv anhy carb
115	12912.5-13.5	1.0	1.78	1.66	0.33	1.78	3.4	3.40	2.71	2.81	do l i p-pv sv anhy carb
116	12913.5-14.5	1.0	5.12	2.72	1.12	5.12	3.4	3.40	2.68	2.78	do l i p-pv sv anhy carb
-	12914.5-19.0	4.5	-	-	-	-	-	-	-	-	lost core

CORE NO. 6 12919.0' - 12969.0' (REC. 48.0') (14 BOXES)

117	12919.0-19.6	0.6	6.08	3.92	0.47	3.65	3.2	1.92	2.73	2.82	do l i p-pv sv anhy carb
118	12919.6-20.2	0.6	9.90	9.32	1.13	5.94	2.3	1.38	2.73	2.80	do l i p-pv sv anhy carb
119	12920.2-21.0	0.8	5.92	4.87	0.82	4.74	4.3	3.44	2.63	2.75	do l i p-pv sv anhy carb
120	12921.0-22.1	1.1	48.70	34.90	5.47	53.57	5.2	5.72	2.51	2.81	do l i p-pv sv anhy carb vert fra
121	12922.1-22.8	0.7	11.10	6.81	0.43	7.77	3.0	2.10	2.71	2.80	do l i p-pv sv anhy carb
122	12922.8-23.6	0.8	1220.00	219.00	4.99	976.00	3.5	2.80	2.66	2.76	do l i p-pv sv anhy carb vert fra
123	12923.6-24.6	1.0	15.10	11.30	1.85	15.10	3.0	3.00	2.67	2.76	do l i p-pv sv anhy carb
124	12924.6-25.3	0.7	29.40	24.20	2.08	20.58	4.1	2.87	2.64	2.75	do l i p-pv sv anhy carb
	12925.3-26.6	1.3	**	8.01	0.25	10.40	4.2	5.46	2.66	2.78	do l i p-pv sv anhy carb
126	12926.6-28.0	1.4	3.06	2.29	0.61	4.28	2.3	3.23	2.74	2.81	do l i p-pv sv anhy carb
127	12928.0-28.8	0.8	2.10	1.33	0.21	1.68	2.2	1.76	2.75	2.81	do l i p-pv sv anhy carb
128	12928.8-30.5	1.7	3.21	2.43	0.85	5.46	2.3	3.91	2.70	2.77	do l i p-pv sv anhy carb
129	12930.5-31.2	0.7	2.49	2.36	0.61	1.74	2.1	1.47	2.69	2.75	do l i p-pv sv anhy carb
130	12931.2-32.2	1.0	5.86	5.16	0.90	5.86	3.2	3.20	2.85	2.76	do l i p-pv sv anhy carb
131	12932.2-33.0	0.8	10.30	8.74	0.92	8.24	2.4	1.92	2.68	2.75	do l i p-pv sv anhy carb
132	12933.0-34.0	1.0	8.32	7.61	1.92	8.32	3.1	3.10	2.65	2.74	do l i p-pv sv anhy carb
133	12934.0-34.8	0.8	5.12	4.15	0.28	4.10	1.8	1.44	2.73	2.78	do l i p-pv sv anhy carb
134	12934.8-35.9	1.1	5.80	4.86	0.42	6.38	2.3	2.53	2.72	2.79	do l i p-pv sv anhy carb
135	12935.9-36.5	0.6	17.90	15.30	0.98	10.74	2.8	1.68	2.71	2.79	do l i p-pv sv anhy carb
136	12936.5-37.3	0.8	16.70	6.94	0.68	13.36	2.9	2.32	2.72	2.80	do l i p-pv sv anhy carb
137	12937.3-38.5	1.2	0.71	0.60	0.35	0.85	1.7	2.04	2.77	2.82	do l i p-pv sv anhy carb
138	12938.5-39.5	1.0	0.53	0.18	0.49	0.53	1.9	1.90	2.77	2.82	do l i p-pv sv anhy carb
139	12939.5-40.1	0.6	1.05	0.77	0.12	0.63	4.3	2.58	2.69	2.81	do l i p-pv sv anhy carb

105.5

2533.36

27252

COLUMBIA GAS
DEVELOPMENT OF CANADA LTD.
COLUMBIA ET AL KOTANEELEE YT E-37

Formation NAHANNI, MANETOE
Drilling Fluid WATER BASE MUD

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File 7004-8573

Company
Well

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K Max	K90%	KV				Bulk	Grain	
CORE NO. 6 CONTINUED											
140	12940.1-41.2	1.1	0.15	0.09	0.09	0.17	1.6	1.76	2.77	2.82	doi i p-pv sv anhy carb
141	12941.2-42.3	1.1	1.80	1.31	0.68	1.98	2.0	2.20	2.75	2.81	doi i p-pv sv anhy carb
	12942.3-43.1	0.8	6.12	2.52	0.59	4.90	3.1	2.48	2.70	2.79	doi i p-pv sv anhy carb
143	12943.1-43.9	0.8	10.60	6.56	0.83	8.48	2.4	1.92	2.71	2.78	doi i p-pv sv anhy carb
144	12943.9-44.9	1.0	39.50	21.40	1.14	39.50	2.8	2.80	2.67	2.75	doi i p-pv sv anhy carb
145	12944.9-45.9	1.0	6.15	5.79	0.85	6.15	2.5	2.50	2.69	2.75	doi i p-pv sv anhy carb
146	12945.9-46.7	0.8	6.77	6.35	1.98	5.42	3.3	2.64	2.71	2.81	doi i p-pv sv anhy carb
b147	12946.7-47.4	0.7	0.30	-	-	0.31	2.6	1.82	2.74	2.81	doi i p-pv sv anhy carb
148	12947.4-48.7	1.3	90.10	50.40	2.17	17.13	3.3	4.29	2.66	2.76	doi i p-pv sv anhy carb
149	12948.7-49.5	0.8	105.00	31.50	2.44	84.00	2.7	2.16	2.72	2.80	doi i p-pv sv anhy carb
150	12949.5-50.3	0.8	22.20	9.45	1.91	17.76	2.7	2.16	2.70	2.77	doi i p-pv sv anhy carb
151	12950.3-50.8	0.5	38.40	21.70	2.12	19.20	3.9	1.95	2.71	2.82	doi i p-pv sv anhy carb
152	12950.8-51.9	1.1	13.20	9.03	0.38	14.52	3.4	3.74	2.67	2.77	doi i p-pv sv anhy carb
153	12951.9-53.1	1.2	13.70	11.10	2.92	16.44	3.3	3.96	2.67	2.77	doi i p-pv sv anhy carb
154	12953.1-54.1	1.0	9.37	8.05	0.66	9.37	2.8	2.80	2.76	2.84	doi i p-pv sv anhy carb
155	12954.1-55.1	1.0	114.00	110.00	9.67	114.00	3.4	3.40	2.73	2.83	doi i p-pv sv anhy carb vert fr
156	12955.1-56.2	1.1	11.70	10.10	0.58	12.87	2.9	3.19	2.75	2.83	doi i p-pv sv anhy carb
157	12956.2-57.2	1.0	21.30	15.50	0.35	21.30	2.1	2.10	2.78	2.84	doi i p-pv sv anhy carb
	12957.2-57.8	0.6	2.97	2.77	0.37	1.78	2.2	1.32	2.77	2.83	doi i p-pv sv anhy carb
159	12957.8-59.1	1.3	39.30	9.62	2.49	51.09	3.7	4.81	2.69	2.80	doi i p-pv sv anhy carb
160	12959.1-60.1	1.0	2.23	-	-	2.23	5.1	5.10	2.69	2.83	doi i p-pv sv anhy carb
b161	12960.1-60.7	0.6	0.17	-	-	0.10	2.7	1.62	2.71	2.79	doi i p-pv sv anhy carb
162	12960.7-61.6	0.9	26.10	17.70	0.78	23.49	2.2	1.98	2.76	2.82	doi i p-pv sv anhy carb
b163	12961.6-62.6	1.0	2.19	-	-	2.19	3.2	3.20	2.75	2.84	doi i p-pv sv anhy carb
b164	12962.6-63.8	1.2	1.84	-	-	2.21	2.8	3.36	2.68	2.76	doi i p-pv sv anhy carb
165	12963.8-65.0	1.2	14.50	7.48	0.32	17.40	1.6	1.92	2.77	2.81	doi i p-pv sv anhy carb
166	12965.0-66.2	1.2	1.47	0.47	0.12	1.76	2.4	2.88	2.74	2.81	doi i p-pv sv anhy carb
167	12966.2-67.0	0.8	1.16	1.16	0.95	0.93	1.5	1.20	2.75	2.80	doi i p-pv sv anhy carb
-	12967.0-69.0	2.0	-	-	-	-	-	-	-	-	lost core
-	12969.0-32.0	163.0	-	-	-	-	-	-	-	-	drilled

129.8
129.8 @ 3.24% → 420.53 P/H
129.8 @ 23.2 md → 3011.13 P/H

COLUMBIA GAS

Company DEVELOPMENT OF CANADA LTD.
Well COLUMBIA ET AL KOTANEELEE YT E-37

Formation NAHANNI, MANETOE
Drilling Fluid WATER BASE MUD

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File 7004-8573

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K Max	K90%	KV				Bulk	Grain	
CORE NO. 7 13132.0' - 13192.0' (REC. 55.0') (16 BOXES)											
168	13132.0-32.9	0.9	9.18	8.31	1.28	8.26	6.0	5.40	2.71	2.88	do l i p-pv sv anhy
169	13132.9-33.5	0.6	3.56	3.32	0.59	2.14	4.6	2.76	2.73	2.86	do l i p-pv sv anhy
170	13133.5-34.0	0.5	9.44	5.87	1.34	4.72	5.5	2.75	2.68	2.84	do l i p-pv sv anhy
171	13134.0-34.7	0.7	1.98	1.63	0.46	1.39	3.3	2.31	2.76	2.86	do l i p-pv sv anhy
172	13134.7-35.2	0.5	11.00	6.44	0.66	5.50	5.8	2.90	2.70	2.87	do l i p-pv sv anhy
173	13135.2-36.2	1.0	15.70	9.61	0.56	15.70	3.4	3.40	2.77	2.87	do l i p-pv sv anhy
b174	13136.2-36.6	0.4	0.05	-	-	0.02	5.9	2.36	2.68	2.85	do l i p-pv sv anhy
175	13136.6-37.2	0.6	6.13	4.60	1.54	3.68	3.8	2.28	2.75	2.86	do l i p-pv sv anhy
176	13137.2-37.7	0.5	5.40	5.03	1.23	2.70	3.5	1.75	2.77	2.87	do l i p-pv sv anhy
177	13137.7-38.5	0.8	7.16	3.56	0.30	5.73	3.4	2.72	2.75	2.85	do l i p-pv sv anhy
178	13138.5-39.1	0.6	8.23	7.92	0.82	4.94	4.9	2.94	2.74	2.88	do l i p-pv sv anhy
179	13139.1-39.7	0.6	12.20	11.90	0.68	7.32	4.8	2.88	2.71	2.85	do l i p-pv sv anhy
180	13139.7-40.2	0.5	5.63	3.41	0.67	2.82	3.1	1.55	2.77	2.86	do l i p-pv sv anhy
181	13140.2-40.9	0.7	7.08	2.07	0.38	4.96	2.9	2.03	2.77	2.86	do l i p-pv sv anhy
182	13140.9-41.7	0.8	0.44	0.43	0.06	0.35	2.9	2.32	2.80	2.89	do l i p-pv sv anhy
183	13141.7-42.7	1.0	10.90	10.40	0.68	10.90	2.8	2.80	2.77	2.85	do l i p-pv sv anhy
184	13142.7-43.5	0.8	18.30	11.40	1.68	14.64	2.4	1.92	2.73	2.80	do l i p-pv sv anhy
185	13143.5-44.4	0.9	2.46	2.23	0.25	2.21	3.0	2.70	2.78	2.86	do l i p-pv sv anhy
	13144.4-45.0	0.6	19.50	12.20	0.60	11.70	3.1	1.86	2.77	2.86	do l i p-pv sv anhy
b187	13145.0-45.8	0.8	0.89	-	-	0.71	4.1	3.28	2.75	2.86	do l i p-pv sv anhy
188	13145.8-46.7	0.9	9.77	8.42	0.79	8.79	4.4	3.96	2.75	2.88	do l i p-pv sv anhy
189	13146.7-47.7	1.0	6.16	3.70	3.66	6.16	3.2	3.20	2.75	2.84	do l i p-pv sv anhy vert frac
190	13147.7-48.4	0.7	1.99	1.65	0.49	1.39	4.0	2.80	2.74	2.86	do l i p-pv sv anhy
191	13148.4-48.8	0.4	12.60	11.20	0.11	5.04	3.0	1.20	2.77	2.86	do l i p-pv sv anhy
b192	13148.8-50.2	1.4	0.11	-	-	0.15	2.9	4.06	2.76	2.84	do l i p-pv sv anhy
193	13150.2-50.9	0.7	9.78	9.55	0.05	6.85	2.9	2.03	2.77	2.85	do l i p-pv sv anhy
b194	13150.9-51.9	1.0	0.47	-	-	0.47	5.1	5.10	2.74	2.89	do l i p-pv sv anhy
195	13151.9-52.8	0.9	2.62	2.31	0.27	2.36	2.4	2.16	2.78	2.85	do l i p-pv sv anhy
b196	13152.8-53.8	1.0	0.50	-	-	0.50	6.6	6.60	2.68	2.87	do l i p-pv sv anhy
b197	13153.8-54.8	1.0	5.24	-	-	5.24	6.7	6.70	2.71	2.90	do l i p-pv sv anhy
198	13154.8-55.6	0.8	12.00	7.36	1.34	9.60	3.5	2.80	2.75	2.85	do l i p-pv sv anhy
b199	13155.6-56.5	0.9	0.03	-	-	0.03	5.9	5.31	2.71	2.88	do l i p-pv sv anhy

CORE LABORATORIES - CANADA, LTD.

Company COLUMBIA GAS
DEVELOPMENT OF CANADA LTD.
Well COLUMBIA ET AL KOTANEELEE YT E-37

Formation NAHANNI, MANETOE
Drilling Fluid WATER BASE MUD

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File 7004-8573

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity Per Cent	Porosity Feet	Density, gm./cc.		Visual Examination
	Depth	Thick	K Max	K90°	KV				Bulk	Grain	

CORE NO. 7 CONTINUED

200	13156.5-57.3	0.8	29.20	21.40	0.82	23.36	2.7	2.16	2.80	2.88	doi i p-pv sv anhy
201	13157.3-57.8	0.5	3.98	3.87	0.22	1.99	2.7	1.35	2.79	2.87	doi i p-pv sv anhy
202	13157.8-58.4	0.6	20.10	7.84	0.16	12.06	2.6	1.56	2.79	2.86	doi i p-pv sv anhy
203	13158.4-59.2	0.8	10.40	9.63	1.77	8.32	2.6	2.08	2.78	2.86	doi i p-pv sv anhy
204	13159.2-59.9	0.7	4.21	2.86	1.31	2.95	3.0	2.10	2.78	2.87	doi i p-pv sv anhy
205	13159.9-60.7	0.8	9.78	5.81	0.15	7.82	3.1	2.48	2.77	2.86	doi i p-pv sv anhy
206	13160.7-61.4	0.7	2.28	1.78	0.26	1.60	2.7	1.89	2.78	2.86	doi i p-pv sv anhy
207	13161.4-62.0	0.6	23.60	14.70	0.81	14.16	1.0	0.60	2.78	2.81	doi i p-pv sv anhy
208	13162.0-62.6	0.6	4.67	2.96	0.36	2.80	4.1	2.46	2.74	2.86	doi i p-pv sv anhy
209	13162.6-63.6	1.0	1.07	0.84	0.48	1.07	2.6	2.60	2.78	2.86	doi i p-pv sv anhy
210	13163.6-64.4	0.8	14.40	9.02	1.52	11.52	3.9	3.12	2.74	2.86	doi i p-pv sv anhy
211	13164.4-65.7	1.3	2.85	2.79	0.93	3.71	2.8	3.64	2.77	2.86	doi i p-pv sv anhy
212	13165.7-66.6	0.9	1.62	0.76	0.13	1.46	3.2	2.88	2.75	2.84	doi i p-pv sv anhy
b213	13166.6-67.4	0.8	1.37	-	-	1.10	4.8	3.84	2.72	2.86	doi i p-pv sv anhy
214	13167.4-68.2	0.8	4.79	3.08	1.09	3.83	3.3	2.64	2.75	2.84	doi i p-pv sv anhy
215	13168.2-68.9	0.7	15.70	9.79	0.84	10.99	3.4	2.38	2.75	2.84	doi i p-pv sv anhy
216	13168.9-69.8	0.9	85.70	29.60	3.85	77.13	4.9	4.41	2.71	2.85	doi i p-pv sv anhy
217	13169.8-70.4	0.6	60.50	26.40	3.23	36.30	5.4	3.24	2.70	2.86	doi i p-pv sv anhy
218	13170.4-71.2	0.8	25.70	6.69	0.47	20.56	3.1	2.48	2.76	2.85	doi i p-pv sv anhy
219	13171.2-71.7	0.5	9.03	6.16	1.12	4.52	4.0	2.00	2.73	2.85	doi i p-pv sv anhy
220	13171.7-72.1	0.4	4.18	3.98	1.62	1.67	9.3	3.72	2.58	2.85	doi i p-pv sv anhy
221	13172.1-73.4	1.3	6.74	4.56	0.80	8.76	6.0	7.80	2.57	2.73	doi i p-pv sv anhy carb
222	13173.4-74.4	1.0	11.60	5.18	2.02	11.60	5.5	5.50	2.70	2.85	doi i p-pv sv anhy
223	13174.4-75.2	0.8	42.30	23.30	3.48	33.84	8.0	6.40	2.64	2.87	doi i p-pv sv anhy
224	13175.2-75.8	0.6	13.90	4.92	1.67	8.34	4.9	2.94	2.71	2.86	doi i p-pv sv ls anhy
225	13175.8-76.3	0.5	37.00	25.00	21.60	18.50	9.6	4.80	2.59	2.87	doi i p-pv sv anhy
226	13176.3-77.0	0.7	7.40	6.05	0.81	5.18	2.8	1.96	2.77	2.85	doi i p-pv sv anhy
227	13177.0-77.7	0.7	9.17	6.35	1.25	6.42	4.4	3.08	2.73	2.85	doi i p-pv sv anhy
228	13177.7-78.7	1.0	2.48	2.33	0.37	2.48	2.2	2.20	2.78	2.84	doi i p-pv sv anhy
229	13178.7-79.3	0.6	19.90	16.70	0.30	11.94	2.7	1.62	2.76	2.84	doi i p-pv sv anhy
b230	13179.3-80.3	1.0	0.60	-	-	0.60	6.7	6.70	2.65	2.84	doi i p-pv sv anhy
231	13180.3-81.3	1.0	10.80	9.05	0.91	10.80	3.4	3.40	2.75	2.84	doi i p-pv sv anhy
232	13181.3-82.2	0.9	2100.00	25.50	1.20	1890.00	8.8	7.92	2.61	2.86	doi i p-pv sv anhy

WELL: COLUMBIA ET AL KOTANEELEE YT E-37

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FORMATION: NAHANNI, MANETOE

SUMMARY INTERVAL: 11412.0 - 13192.0

FILE: 7004-8573

TOTAL FOOTAGE: 1780.0

FOOTAGE ANALYZED 215.5

FOOTAGE NOT ANALYZED: TOTAL 1564.5 DENSE 10.0 LOST 19.5 DRILLED 1503.0 *NABR 32.0 RUBBLE 0.0

SUMMARY OF ANALYZED CORE:	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS. %	POROSITY FEET	WEIGHTED AVERAGE PERM. MD.	PERM. FEET	WEIGHTED AVERAGE RESID. OIL %	WEIGHTED AVERAGE TOT. WATER %
TOTAL	215.5	100.0	3.4	732.31	26.278	5662.869	0.0	0.0
BY PERM RANGES:								
LESS THAN 0.01 Md.	0.0	0.0	0.0	0.00	0.000	0.000	0.0	0.0
0.01 - 0.09 Md.	2.1	1.0	4.3	9.11	0.034	0.071	0.0	0.0
0.10 - 0.49 Md.	15.0	7.0	3.7	55.19	0.308	4.617	0.0	0.0
0.50 - 0.99 Md.	14.0	6.5	3.4	46.92	0.697	9.763	0.0	0.0
1.0 - 9.99 Md.	124.9	57.9	3.2	398.87	3.904	487.638	0.0	0.0
GREATER THAN 9.99 Md.	59.5	27.6	3.7	222.22	86.736	5160.780	0.0	0.0

*NOT ANALYZED BY REQUEST

12850'

CORE #5 12859' - 12919' REC. 55.5'

12900'

CORE #6 12919' - 12969' REC. 48.0'

12950'

DRILLED 12969' - 13132'

CORE #7 13132' - 13192' REC. 55.0'

13150'