

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 203, C-34-A/94-P-15, 1148.92m**

*In situ* Klinkenberg Permeability = 0.00107 md  
*In situ* Porosity = 4.6 %

Mercury Injection Capillary Pressure (kPa)	Approx. Pore Entry Diameter (um)	Cumulative Wetting Phase Saturation (% pore vol)	Pore Size Distribution Frequency	Cumulative Surface Area (m2/g)	Approx. Gas-Water Height Above Free Water Level (m)	Approx. Oil-Water Height Above Free Water Level (m)	Honarpour <i>et al.</i> Imbibition Carbonate		Corey Calculated		
							Oil Relative Permeability (%)	Water Relative Permeability (%)	Oil or Gas Relative Permeability (%)	Water Relative Permeability (%)	Log Oil/Brine Kro/Krw Ratio
13.8	107	100.0	0.0	0.000	0.0	0.0	0.0	100.0	0.0	100.0	-5.0
17.2	86	100.0	0.0	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	100.0	0.0	0.000	0.3	0.4	0.0	100.0	0.0	100.0	-5.0
29.6	50	100.0	0.0	0.000	0.4	0.6	0.0	100.0	0.0	100.0	-5.0
37.9	39	100.0	0.0	0.000	0.5	0.7	0.0	100.0	0.0	100.0	-5.0
49.6	30	100.0	0.0	0.000	0.7	0.9	0.0	100.0	0.0	100.0	-5.0
64.1	23	100.0	0.0	0.000	0.9	1.2	0.0	100.0	0.0	100.0	-5.0
82.7	18	100.0	0.0	0.000	1.1	1.6	0.0	100.0	0.0	100.0	-5.0
107	14	100.0	0.0	0.000	1.5	2.0	0.0	100.0	0.0	100.0	-5.0
138	11	100.0	0.0	0.000	1.9	2.6	0.0	100.0	0.0	100.0	-5.0
172	8.6	100.0	0.0	0.000	2.4	3.4	0.0	100.0	0.0	100.0	-5.0
241	6.1	100.0	0.0	0.000	3.0	4.3	0.0	100.0	0.0	100.0	-5.0
310	4.8	100.0	0.0	0.000	4	6	0.0	100.0	0.0	100.0	-5.0
379	3.9	100.0	0.0	0.000	5	8	0.0	100.0	0.0	100.0	-5.0
517	2.9	100.0	0.0	0.000	7	9	0.0	100.0	0.0	100.0	-5.0
655	2.3	100.0	0.0	0.000	9	13	0.0	100.0	0.0	100.0	-5.0
827	1.8	100.0	0.0	0.000	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	100.0	0.0	0.000	15	20	0.0	100.0	0.0	100.0	-5.0
1,379	1.1	100.0	0.0	0.000	18	26	0.0	100.0	0.0	100.0	-5.0
1,793	0.82	100.0	0.0	0.000	24	34	0.0	100.0	0.0	100.0	-5.0
2,413	0.61	100.0	0.0	0.000	32	44	0.0	100.0	0.0	100.0	-5.0
2,965	0.50	100.0	0.0	0.000	42	60	0.0	100.0	0.0	100.0	-5.0
3,792	0.39	100.0	0.0	0.000	52	73	0.0	100.0	0.0	100.0	-5.0
4,999	0.30	99.1	0.9	0.002	67	94	0.0	100.0	0.0	100.0	-5.0
6,378	0.23	95.9	3.1	0.011	88	124	0.0	12.1	0.0	91.5	-6.6
8,274	0.18	95.9	0.0	0.011	112	158	0.2	10.3	0.0	67.3	-3.9
10,687	0.14	93.4	2.5	0.024	146	205	0.2	10.3	0.0	67.3	-3.9
13,790	0.11	93.1	0.3	0.026	188	264	0.5	9.0	0.1	51.7	-3.0
17,927	0.08	91.8	1.4	0.037	243	341	0.6	8.8	0.1	50.1	-2.9
23,098	0.06	90.9	0.9	0.046	315	443	0.9	8.2	0.1	43.1	-2.5
29,649	0.05	87.8	3.2	0.090	406	571	1.0	7.8	0.2	38.9	-2.3
38,267	0.04	83.8	4.0	0.161	521	733	1.9	6.4	0.6	26.4	-1.6
49,644	0.03	72.6	11.2	0.420	673	946	3.3	4.8	2.0	15.2	-0.9
64,124	0.02	56.8	15.8	0.890	873	1227	9.5	1.6	16.2	1.8	1.0
					1128	1585	23.6	0.0	100.0	0.0	15.0

All Hg calculations assume air-mercury T=484 dyne/cm, contact angle=140deg.  
Oil/Gas-Brine Pc assumes insitu o/g-brine Tcos0= 64.0000 22.0000 dynes/cm  
Oil/gas-Brine height assumes o/g density gradient = 0.4212 7.8360 kPa/m  
Oil/gas-Brine height assumes brine density gradient = 10.2358 10.2358 kPa/m  
Swi assumed for relative permeability = 56.8 56.8 %  
Sorw assumed for relative permeability = 0 0 %  
*In situ* Gas/Oil & Brine Density (g/cc)= 0.043/0.80 1.045 g/cc

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