

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 209, C-92-J/94-P-10, 1179.96m**

*In situ* Klinkenberg Permeability = 0.00007 md  
*In situ* Porosity = 1.5 %

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	100.0	0.0	0.000	67	94	0.0	100.0	0.0	100.0	-5.0
6,378	0.23	100.0	0.0	0.000	88	124	0.0	100.0	0.0	100.0	-5.0
8,274	0.18	100.0	0.0	0.000	112	158	0.0	100.0	0.0	100.0	-5.0
10,687	0.14	100.0	0.0	0.000	146	205	0.0	100.0	0.0	100.0	-5.0
13,790	0.11	100.0	0.0	0.000	188	264	0.0	100.0	0.0	100.0	-5.0
17,927	0.08	92.1	7.9	0.021	243	341	0.0	100.0	0.0	100.0	-5.0
23,098	0.06	73.5	18.7	0.085	315	443	0.8	19.2	0.0	65.8	-3.8
29,649	0.05	51.4	22.1	0.182	406	571	8.9	10.4	1.3	19.5	-1.2
38,267	0.04	36.7	14.7	0.266	521	733	29.8	3.5	14.3	2.2	0.8
49,644	0.03	29.3	7.4	0.320	673	946	50.6	0.9	41.0	0.2	2.4
64,124	0.02	20.9	8.4	0.400	873	1227	63.0	0.3	63.7	0.0	3.7
					1128	1585	79.0	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 = 20.9 20.9 %  
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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