

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 45, B-50-I/94-P-10, 1145.31m**

*In situ* Klinkenberg Permeability = 0.706 md  
*In situ* Porosity = 7.5 %

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	99.4	0.6	0.000	1.9	2.6	0.0	100.0	0.0	100.0	-5.0
172	8.6	98.0	1.4	0.000	2.4	3.4	0.0	28.5	0.0	97.7	-5.0
241	6.1	95.0	3.0	0.001	3.0	4.3	0.0	27.7	0.0	92.0	-6.7
310	4.8	94.3	0.8	0.001	4	6	0.3	25.9	0.0	80.9	-5.1
379	3.9	92.2	2.1	0.001	5	8	0.4	25.5	0.0	78.2	-4.8
517	2.9	86.0	6.2	0.004	7	9	0.8	24.3	0.0	71.3	-4.2
655	2.3	78.9	7.1	0.007	9	13	2.5	21.0	0.0	53.3	-3.1
827	1.8	63.6	15.3	0.016	12	16	5.6	17.5	0.2	37.1	-2.2
1,034	1.4	56.2	7.4	0.012	15	20	16.7	11.1	2.1	14.9	-0.9
1,379	1.1	45.5	10.8	0.022	18	26	24.2	8.5	4.3	8.8	-0.3
1,793	0.82	36.9	8.6	0.033	24	34	37.5	5.4	10.4	3.5	0.5
2,413	0.61	29.7	7.2	0.045	32	44	50.3	3.4	18.7	1.4	1.1
2,965	0.50	26.2	3.5	0.052	42	60	62.4	2.1	28.7	0.5	1.7
3,792	0.39	23.1	3.2	0.060	52	73	68.7	1.5	34.8	0.3	2.1
4,999	0.30	20.4	2.7	0.070	67	94	74.7	1.1	41.1	0.2	2.4
6,378	0.23	19.2	1.2	0.075	88	124	80.0	0.8	47.2	0.1	2.7
8,274	0.18	16.9	2.3	0.088	112	158	82.5	0.7	50.2	0.1	2.9
10,687	0.14	15.4	1.5	0.099	146	205	87.2	0.5	56.0	0.0	3.2
13,790	0.11	14.0	1.4	0.113	188	264	90.4	0.4	60.2	0.0	3.5
17,927	0.08	12.2	1.8	0.135	243	341	93.4	0.3	64.3	0.0	3.7
23,098	0.06	10.0	2.2	0.170	315	443	97.4	0.2	69.9	0.0	4.1
29,649	0.05	8.2	1.8	0.207	406	571	100.0	0.1	77.2	0.0	4.7
38,267	0.04	6.2	2.0	0.259	521	733	100.0	0.1	83.5	0.0	5.3
49,644	0.03	4.9	1.3	0.304	673	946	100.0	0.0	91.0	0.0	6.5
64,124	0.02	3.9	0.9	0.345	873	1227	100.0	0.0	96.2	0.0	8.1
					1128	1585	100.0	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 *in situ* 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 = 3.9 %  
Sorw assumed for relative permeability = 0 %  
*In situ* Gas/Oil & Brine Density (g/cc)= 0.043/0.80 1.045 g/cc

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