

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 27, C-32-G/94-P-10, 1149.66m**

*In situ* Klinkenberg Permeability = 0.0228 md  
*In situ* Porosity = 7.0 %

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	99.0	1.0	0.001	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	99.0	0.0	0.000	15	20	0.0	26.8	0.0	95.5	-5.0
1,379	1.1	98.3	0.6	0.001	18	26	0.0	26.8	0.0	95.5	-5.0
1,793	0.82	95.8	2.5	0.004	24	34	0.0	26.4	0.0	92.9	-6.9
2,413	0.61	76.7	19.1	0.038	32	44	0.2	24.9	0.0	82.8	-5.3
2,965	0.50	59.7	17.0	0.075	42	60	6.9	15.2	0.4	30.8	-1.9
3,792	0.39	47.9	11.8	0.108	52	73	20.5	8.5	3.8	9.7	-0.4
4,999	0.30	39.2	8.7	0.140	67	94	34.3	5.0	10.6	3.4	0.5
6,378	0.23	34.8	4.4	0.161	88	124	46.7	3.0	19.6	1.3	1.2
8,274	0.18	31.0	3.8	0.184	112	158	53.6	2.2	25.9	0.7	1.6
10,687	0.14	27.7	3.3	0.210	146	205	60.1	1.6	32.6	0.4	2.0
13,790	0.11	24.5	3.2	0.243	188	264	66.0	1.2	39.2	0.2	2.3
17,927	0.08	21.1	3.4	0.288	243	341	71.9	0.8	46.6	0.1	2.7
23,098	0.06	17.3	3.8	0.352	315	443	78.6	0.5	55.7	0.0	3.2
29,649	0.05	14.4	3.0	0.417	406	571	86.3	0.2	67.1	0.0	3.9
38,267	0.04	12.3	2.1	0.476	521	733	92.6	0.1	77.3	0.0	4.7
49,644	0.03	10.0	2.3	0.559	673	946	97.1	0.0	85.0	0.0	5.5
64,124	0.02	8.7	1.4	0.623	873	1227	100.0	0.0	94.2	0.0	7.3
					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 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 = 8.7 %  
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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