

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 20, A-41-A/94-P-15, 1140.71m**

*In situ* Klinkenberg Permeability = 0.0014 md  
*In situ* Porosity = 2.6 %

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	98.4	1.6	0.001	18	26	0.0	100.0	0.0	100.0	-5.0
1,793	0.82	95.6	2.8	0.002	24	34	0.0	24.1	0.0	92.5	-6.8
2,413	0.61	91.2	4.4	0.004	32	44	0.2	22.5	0.0	80.5	-5.0
2,965	0.50	85.9	5.2	0.008	42	60	1.0	20.0	0.0	64.0	-3.7
3,792	0.39	79.4	6.6	0.014	52	73	2.5	17.3	0.1	47.9	-2.8
4,999	0.30	71.8	7.6	0.024	67	94	5.4	14.2	0.4	32.3	-1.9
6,378	0.23	69.1	2.6	0.028	88	124	10.1	11.0	1.3	19.3	-1.2
8,274	0.18	65.5	3.6	0.035	112	158	12.0	9.9	1.9	15.9	-0.9
10,687	0.14	62.0	3.5	0.044	146	205	15.0	8.6	2.9	11.9	-0.6
13,790	0.11	58.8	3.2	0.055	188	264	18.2	7.4	4.2	8.9	-0.3
17,927	0.08	52.5	6.3	0.083	243	341	21.4	6.4	5.9	6.7	-0.1
23,098	0.06	47.1	5.5	0.114	315	443	28.4	4.7	10.4	3.5	0.5
29,649	0.05	34.8	12.3	0.203	406	571	35.4	3.4	16.0	1.8	0.9
38,267	0.04	25.9	8.8	0.286	521	733	53.7	1.2	37.0	0.2	2.2
49,644	0.03	21.4	4.5	0.342	673	946	69.3	0.3	61.5	0.0	3.6
64,124	0.02	16.3	5.0	0.421	873	1227	78.1	0.1	78.1	0.0	4.8
					1128	1585	88.3	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 = 0.0186 0.3464 kPa/m  
Oil/gas-Brine height assumes brine density gradient = 0.4525 0.4525 kPa/m  
Swi assumed for relative permeability = 16.3 16.3 %  
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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