

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 73, A-25-E/94-P-16, 1142.38m**

*In situ* Klinkenberg Permeability = 0.0039 md  
*In situ* Porosity = 3.6 %

Mercury Injection Capillary Pressure (psia)	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 (ft)	Approx. Oil-Water Height Above Free Water Level (ft)	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
2.0	107	100.0	0.0	0.000	0.1	0.1	0.0	100.0	0.0	100.0	-5.0
2.5	86	100.0	0.0	0.000	0.8	1.1	0.0	100.0	0.0	100.0	-5.0
3.3	65	100.0	0.0	0.000	1.0	1.4	0.0	100.0	0.0	100.0	-5.0
4.3	50	100.0	0.0	0.000	1.3	1.8	0.0	100.0	0.0	100.0	-5.0
5.5	39	100.0	0.0	0.000	1.7	2.4	0.0	100.0	0.0	100.0	-5.0
7.2	30	100.0	0.0	0.000	2.2	3.1	0.0	100.0	0.0	100.0	-5.0
9.3	23	100.0	0.0	0.000	2.9	4.0	0.0	100.0	0.0	100.0	-5.0
12.0	18	100.0	0.0	0.000	3.7	5.2	0.0	100.0	0.0	100.0	-5.0
15.5	14	100.0	0.0	0.000	4.8	6.7	0.0	100.0	0.0	100.0	-5.0
20	11	100.0	0.0	0.000	6.2	8.7	0.0	100.0	0.0	100.0	-5.0
25	8.6	100.0	0.0	0.000	8.0	11.2	0.0	100.0	0.0	100.0	-5.0
35	6.1	100.0	0.0	0.000	9.9	14.0	0.0	100.0	0.0	100.0	-5.0
45	4.8	100.0	0.0	0.000	14	20	0.0	100.0	0.0	100.0	-5.0
55	3.9	100.0	0.0	0.000	18	25	0.0	100.0	0.0	100.0	-5.0
75	2.9	99.5	0.5	0.000	22	31	0.0	100.0	0.0	100.0	-5.0
95	2.3	97.8	1.7	0.000	30	42	0.0	29.0	0.0	98.1	-5.0
120	1.8	91.5	6.3	0.002	38	53	0.1	28.0	0.0	91.2	-6.5
150	1.4	87.3	4.1	0.002	48	67	0.9	24.3	0.0	69.3	-4.1
200	1.1	83.2	4.1	0.004	60	84	2.0	22.1	0.0	57.2	-3.3
260	0.82	82.1	1.1	0.005	80	112	3.6	20.0	0.1	46.9	-2.7
350	0.61	79.1	3.0	0.007	103	145	4.0	19.4	0.1	44.4	-2.6
430	0.50	77.4	1.7	0.009	139	196	5.5	18.0	0.2	38.0	-2.2
550	0.39	65.7	11.7	0.025	171	240	6.4	17.2	0.3	34.8	-2.1
725	0.30	35.2	30.6	0.078	219	308	14.8	12.2	1.5	17.7	-1.1
925	0.23	14.3	20.8	0.125	288	405	53.1	3.3	19.7	1.2	1.2
1200	0.18	11.9	2.5	0.132	368	517	92.6	0.4	59.9	0.0	3.5
1550	0.14	9.7	2.1	0.140	477	671	98.1	0.3	67.1	0.0	3.9
2000	0.11	8.1	1.7	0.148	617	867	100.0	0.2	73.8	0.0	4.4
2600	0.08	7.1	1.0	0.155	796	1119	100.0	0.1	79.4	0.0	4.9
3350	0.06	5.8	1.3	0.165	1034	1454	100.0	0.1	82.9	0.0	5.3
4300	0.05	5.1	0.7	0.173	1333	1874	100.0	0.0	87.6	0.0	5.9
5550	0.04	4.0	1.1	0.188	1711	2405	100.0	0.0	90.4	0.0	6.4
7200	0.03	3.3	0.6	0.199	2208	3104	100.0	0.0	94.6	0.0	7.4
9300	0.02	2.6	0.7	0.214	2864	4027	100.0	0.0	97.2	0.0	8.6
					3700	5201	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 = 0.0186 0.3464 psi/ft  
Oil/gas-Brine height assumes brine density gradient = 0.4525 0.4525 psi/ft  
Swi assumed for relative permeability = 2.6 %  
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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