

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 180, C-34-A/94-P-15, 1139.96m**

*In situ* Klinkenberg Permeability = 0.0696 md  
*In situ* Porosity = 6.9 %

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	99.1	0.9	0.000	22	31	0.0	100.0	0.0	100.0	-5.0
95	2.3	98.3	0.8	0.001	30	42	0.0	28.0	0.0	96.3	-5.0
120	1.8	94.7	3.6	0.003	38	53	0.0	27.5	0.0	93.0	-6.9
150	1.4	87.6	7.1	0.006	48	67	0.4	25.4	0.0	79.5	-4.9
200	1.1	70.4	17.3	0.022	60	84	1.9	21.5	0.0	57.1	-3.3
260	0.82	59.4	10.9	0.036	80	112	11.1	13.4	1.0	22.3	-1.4
350	0.61	46.2	13.2	0.058	103	145	20.8	9.3	3.4	10.7	-0.5
430	0.50	38.5	7.8	0.074	139	196	36.5	5.3	10.3	3.5	0.5
550	0.39	32.0	6.5	0.091	171	240	47.8	3.5	17.8	1.5	1.1
725	0.30	26.3	5.7	0.111	219	308	58.4	2.3	26.5	0.6	1.6
925	0.23	22.4	3.9	0.128	288	405	68.6	1.4	36.5	0.2	2.2
1200	0.18	19.8	2.6	0.143	368	517	76.0	0.9	44.9	0.1	2.6
1550	0.14	17.2	2.6	0.162	477	671	81.3	0.7	51.3	0.1	3.0
2000	0.11	14.8	2.4	0.185	617	867	86.6	0.5	58.3	0.0	3.4
2600	0.08	12.7	2.1	0.211	796	1119	91.6	0.3	65.2	0.0	3.8
3350	0.06	10.8	1.9	0.242	1034	1454	96.1	0.2	71.8	0.0	4.3
4300	0.05	8.9	1.9	0.282	1333	1874	100.4	0.1	78.4	0.0	4.8
5550	0.04	7.5	1.3	0.317	1711	2405	104.8	0.0	85.4	0.0	5.6
7200	0.03	6.3	1.2	0.359	2208	3104	107.9	0.0	90.4	0.0	6.4
9300	0.02	5.2	1.1	0.409	2864	4027	110.8	0.0	95.4	0.0	7.7
					3700	5201	113.5	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 = 5.2 5.2 %  
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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