

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 146, B-50-I/94-P-10, 1136.9m**

*In situ* Klinkenberg Permeability = 0.000035 md  
*In situ* Porosity = 2.8 %

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>		Corey Calculated		
							Imbibition	Carbonate	Oil or Gas	Water	Log
							Relative Permeability (%)	Relative Permeability (%)	Relative Permeability (%)	Relative Permeability (%)	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	100.0	0.0	0.000	22	31	0.0	100.0	0.0	100.0	-5.0
95	2.3	100.0	0.0	0.000	30	42	0.0	100.0	0.0	100.0	-5.0
120	1.8	100.0	0.0	0.000	38	53	0.0	100.0	0.0	100.0	-5.0
150	1.4	100.0	0.0	0.000	48	67	0.0	100.0	0.0	100.0	-5.0
200	1.1	100.0	0.0	0.000	60	84	0.0	100.0	0.0	100.0	-5.0
260	0.82	100.0	0.0	0.000	80	112	0.0	100.0	0.0	100.0	-5.0
350	0.61	100.0	0.0	0.000	103	145	0.0	100.0	0.0	100.0	-5.0
430	0.50	100.0	0.0	0.000	139	196	0.0	100.0	0.0	100.0	-5.0
550	0.39	100.0	0.0	0.000	171	240	0.0	100.0	0.0	100.0	-5.0
725	0.30	100.0	0.0	0.000	219	308	0.0	100.0	0.0	100.0	-5.0
925	0.23	100.0	0.0	0.000	288	405	0.0	100.0	0.0	100.0	-5.0
1200	0.18	100.0	0.0	0.000	368	517	0.0	100.0	0.0	100.0	-5.0
1550	0.14	99.4	0.6	0.002	477	671	0.0	100.0	0.0	100.0	-5.0
2000	0.11	99.0	0.4	0.003	617	867	0.0	0.8	0.0	80.5	-5.0
2600	0.08	98.4	0.6	0.005	796	1119	0.0	0.6	0.0	70.2	-4.1
3350	0.06	98.2	0.2	0.007	1034	1454	0.0	0.4	0.0	55.3	-3.2
4300	0.05	95.7	2.4	0.025	1333	1874	0.0	0.4	0.1	50.1	-2.9
5550	0.04	95.4	0.4	0.028	1711	2405	0.2	-0.2	1.9	15.7	-0.9
7200	0.03	92.3	3.1	0.065	2208	3104	0.3	-0.3	2.6	12.8	-0.7
9300	0.02	88.5	3.8	0.125	2864	4027	0.7	-0.4	19.8	1.2	1.2
					3700	5201	1.7	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 =	88.5	88.5	%
Sorw assumed for relative permeability =	0	0	%
<i>In situ</i> Gas/Oil & Brine Density (g/cc)=	0.043/0.80	1.045	g/cc

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