

Mercury Injection Capillary Pressure Analysis
Core I.D. 5, C-32-G/94-P-10, 1153.23m

In situ Klinkenberg Permeability = 0.00017 md
In situ Porosity = 3.1 %

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	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	99.0	1.0	0.004	477	671	0.0	100.0	0.0	100.0	-5.0
2000	0.11	98.4	0.6	0.007	617	867	0.0	7.4	0.0	86.3	-5.7
2600	0.08	97.1	1.3	0.015	796	1119	0.0	7.0	0.0	79.5	-4.9
3350	0.06	96.0	1.0	0.024	1034	1454	0.1	6.3	0.0	65.1	-3.8
4300	0.05	93.2	2.8	0.053	1333	1874	0.2	5.8	0.0	55.2	-3.2
5550	0.04	89.8	3.4	0.100	1711	2405	0.6	4.5	0.3	34.6	-2.1
7200	0.03	83.2	6.7	0.217	2208	3104	1.3	3.1	1.5	17.7	-1.1
9300	0.02	71.0	12.1	0.494	2864	4027	3.6	1.2	11.4	3.1	0.6
					3700	5201	10.6	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 = 71.0 71.0 %
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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