

Mercury Injection Capillary Pressure Analysis
Core I.D. 93, C-94-I/94-P-10, 1132.88m

In situ Klinkenberg Permeability = 0.1166 md
In situ Porosity = 6.8 %

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> 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	97.3	2.7	0.001	22	31	0.0	100.0	0.0	100.0	-5.0
95	2.3	93.9	3.4	0.001	30	42	0.1	26.9	0.0	89.0	-6.1
120	1.8	89.0	4.8	0.003	38	53	0.5	24.9	0.0	76.6	-4.6
150	1.4	88.0	1.0	0.002	48	67	1.5	22.2	0.0	61.2	-3.5
200	1.1	82.4	5.6	0.005	60	84	1.8	21.7	0.0	58.3	-3.4
260	0.82	78.3	4.1	0.007	80	112	3.9	18.9	0.1	44.0	-2.6
350	0.61	70.2	8.2	0.015	103	145	5.9	16.9	0.3	35.4	-2.1
430	0.50	60.0	10.2	0.026	139	196	11.2	13.3	1.0	22.1	-1.4
550	0.39	46.6	13.3	0.045	171	240	20.2	9.5	3.2	11.2	-0.5
725	0.30	35.9	10.7	0.065	219	308	35.9	5.4	10.0	3.7	0.4
925	0.23	30.4	5.6	0.078	288	405	51.8	3.0	20.8	1.1	1.3
1200	0.18	26.2	4.2	0.090	368	517	61.2	2.0	29.1	0.5	1.8
1550	0.14	22.5	3.7	0.105	477	671	68.7	1.4	36.7	0.2	2.2
2000	0.11	19.4	3.1	0.121	617	867	75.9	0.9	44.7	0.1	2.6
2600	0.08	15.9	3.5	0.144	796	1119	82.0	0.6	52.2	0.1	3.0
3350	0.06	12.7	3.2	0.172	1034	1454	89.2	0.4	61.8	0.0	3.6
4300	0.05	10.2	2.5	0.199	1333	1874	96.2	0.2	71.8	0.0	4.3
5550	0.04	8.2	2.0	0.228	1711	2405	100.0	0.1	80.3	0.0	5.0
7200	0.03	6.6	1.6	0.258	2208	3104	100.0	0.0	87.9	0.0	5.9
9300	0.02	5.2	1.4	0.291	2864	4027	100.0	0.0	94.2	0.0	7.3
					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 = 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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