

Mercury Injection Capillary Pressure Analysis
Core I.D. 117, B-86-E/94-P-16, 1162.48m

In situ Klinkenberg Permeability = 0.00018 md
In situ Porosity = 2.5 %

Mercury Injection Capillary Pressure (kPa)	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 (m)	Approx. Oil-Water Height Above Free Water Level (m)	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
13.8	107	100.0	0.0	0.000	0.0	0.0	0.0	100.0	0.0	100.0	-5.0
17.2	86	100.0	0.0	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	100.0	0.0	0.000	0.3	0.4	0.0	100.0	0.0	100.0	-5.0
29.6	50	100.0	0.0	0.000	0.4	0.6	0.0	100.0	0.0	100.0	-5.0
37.9	39	100.0	0.0	0.000	0.5	0.7	0.0	100.0	0.0	100.0	-5.0
49.6	30	100.0	0.0	0.000	0.7	0.9	0.0	100.0	0.0	100.0	-5.0
64.1	23	100.0	0.0	0.000	0.9	1.2	0.0	100.0	0.0	100.0	-5.0
82.7	18	100.0	0.0	0.000	1.1	1.6	0.0	100.0	0.0	100.0	-5.0
107	14	100.0	0.0	0.000	1.5	2.0	0.0	100.0	0.0	100.0	-5.0
138	11	100.0	0.0	0.000	1.9	2.6	0.0	100.0	0.0	100.0	-5.0
172	8.6	100.0	0.0	0.000	2.4	3.4	0.0	100.0	0.0	100.0	-5.0
241	6.1	100.0	0.0	0.000	3.0	4.3	0.0	100.0	0.0	100.0	-5.0
310	4.8	100.0	0.0	0.000	4	6	0.0	100.0	0.0	100.0	-5.0
379	3.9	100.0	0.0	0.000	5	8	0.0	100.0	0.0	100.0	-5.0
517	2.9	100.0	0.0	0.000	7	9	0.0	100.0	0.0	100.0	-5.0
655	2.3	100.0	0.0	0.000	9	13	0.0	100.0	0.0	100.0	-5.0
827	1.8	100.0	0.0	0.000	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	100.0	0.0	0.000	15	20	0.0	100.0	0.0	100.0	-5.0
1,379	1.1	100.0	0.0	0.000	18	26	0.0	100.0	0.0	100.0	-5.0
1,793	0.82	100.0	0.0	0.000	24	34	0.0	100.0	0.0	100.0	-5.0
2,413	0.61	100.0	0.0	0.000	32	44	0.0	100.0	0.0	100.0	-5.0
2,965	0.50	100.0	0.0	0.000	42	60	0.0	100.0	0.0	100.0	-5.0
3,792	0.39	100.0	0.0	0.000	52	73	0.0	100.0	0.0	100.0	-5.0
4,999	0.30	100.0	0.0	0.000	67	94	0.0	100.0	0.0	100.0	-5.0
6,378	0.23	100.0	0.0	0.000	88	124	0.0	100.0	0.0	100.0	-5.0
8,274	0.18	100.0	0.0	0.000	112	158	0.0	100.0	0.0	100.0	-5.0
10,687	0.14	100.0	0.0	0.000	146	205	0.0	100.0	0.0	100.0	-5.0
13,790	0.11	93.7	6.3	0.018	188	264	0.0	100.0	0.0	100.0	-5.0
17,927	0.08	77.7	15.9	0.078	243	341	0.5	19.4	0.0	70.9	-4.2
23,098	0.06	60.1	17.6	0.163	315	443	6.3	11.6	0.7	25.5	-1.6
29,649	0.05	38.7	21.4	0.296	406	571	20.1	5.3	7.2	5.4	0.1
38,267	0.04	31.5	7.2	0.353	521	733	47.5	0.9	40.4	0.2	2.4
49,644	0.03	25.8	5.6	0.412	673	946	59.3	0.3	63.0	0.0	3.6
64,124	0.02	23.1	2.7	0.448	873	1227	69.4	0.0	86.5	0.0	5.7
					1128	1585	74.7	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 = 0.4212 7.8360 kPa/m
Oil/gas-Brine height assumes brine density gradient = 10.2358 10.2358 kPa/m
Swi assumed for relative permeability = 23.1 23.1 %
Sorw assumed for relative permeability = 0 0 %
In situ Gas/Oil & Brine Density (g/cc)= 0.043/0.80 1.045 g/cc

Mercury Injection Capillary Pressure Analysis
Core I.D. 117, B-86-E/94-P-16, 1162.48m

