

Mercury Injection Capillary Pressure Analysis
Core I.D. 172, B-50-I/94-P-10, 1144.85m

In situ Klinkenberg Permeability = 0.755 md
In situ Porosity = 13.5 %

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	99.9	0.1	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	99.9	0.1	0.000	0.3	0.4	0.0	29.1	0.0	99.7	-5.0
29.6	50	99.8	0.1	0.000	0.4	0.6	0.0	29.1	0.0	99.4	-5.0
37.9	39	99.6	0.2	0.000	0.5	0.7	0.0	29.0	0.0	99.1	-5.0
49.6	30	99.6	0.0	0.000	0.7	0.9	0.0	29.0	0.0	98.4	-5.0
64.1	23	99.5	0.1	0.000	0.9	1.2	0.0	28.9	0.0	98.3	-5.0
82.7	18	99.5	0.0	0.000	1.1	1.6	0.0	28.9	0.0	98.0	-5.0
107	14	99.5	0.0	0.000	1.5	2.0	0.0	28.9	0.0	98.0	-5.0
138	11	99.5	0.0	0.000	1.9	2.6	0.0	28.9	0.0	98.0	-5.0
172	8.6	99.5	0.0	0.000	2.4	3.4	0.0	28.9	0.0	98.0	-5.0
241	6.1	99.0	0.5	0.000	3.0	4.3	0.0	28.9	0.0	98.0	-5.0
310	4.8	99.0	0.0	0.000	4	6	0.0	28.6	0.0	95.9	-5.0
379	3.9	98.9	0.1	0.000	5	8	0.0	28.6	0.0	95.9	-5.0
517	2.9	97.8	1.0	0.001	7	9	0.0	28.5	0.0	95.5	-5.0
655	2.3	91.3	6.5	0.007	9	13	0.1	27.9	0.0	91.4	-6.6
827	1.8	42.9	48.4	0.068	12	16	0.9	24.2	0.0	68.8	-4.0
1,034	1.4	31.4	11.5	0.025	15	20	41.1	4.9	11.9	2.9	0.6
1,379	1.1	22.7	8.7	0.043	18	26	59.4	2.5	24.9	0.7	1.5
1,793	0.82	17.7	5.0	0.057	24	34	75.4	1.2	40.2	0.2	2.4
2,413	0.61	14.1	3.6	0.070	32	44	85.5	0.7	51.7	0.1	3.0
2,965	0.50	12.8	1.3	0.076	42	60	93.1	0.4	61.2	0.0	3.5
3,792	0.39	11.4	1.5	0.084	52	73	95.9	0.3	65.0	0.0	3.8
4,999	0.30	9.9	1.4	0.095	67	94	99.2	0.2	69.5	0.0	4.1
6,378	0.23	8.3	1.6	0.111	88	124	102.5	0.2	74.2	0.0	4.4
8,274	0.18	7.2	1.0	0.123	112	158	106.2	0.1	79.7	0.0	4.9
10,687	0.14	6.4	0.8	0.136	146	205	108.6	0.1	83.4	0.0	5.3
13,790	0.11	6.0	0.5	0.146	188	264	110.5	0.0	86.3	0.0	5.7
17,927	0.08	5.4	0.6	0.163	243	341	111.6	0.0	88.1	0.0	6.0
23,098	0.06	4.9	0.5	0.178	315	443	113.1	0.0	90.4	0.0	6.4
29,649	0.05	4.4	0.5	0.202	406	571	114.2	0.0	92.1	0.0	6.7
38,267	0.04	3.9	0.5	0.230	521	733	115.4	0.0	94.2	0.0	7.3
49,644	0.03	3.3	0.6	0.273	673	946	116.6	0.0	96.1	0.0	8.0
64,124	0.02	2.9	0.4	0.309	873	1227	118.0	0.0	98.4	0.0	9.6
					1128	1585	118.9	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 = 2.9 %
Sorw assumed for relative permeability = 0 %
In situ Gas/Oil & Brine Density (g/cc)= 0.043/0.80 1.045 g/cc

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