

Mercury Injection Capillary Pressure Analysis
Core I.D. 48, C-94-I/94-P-10, 1139.03m

In situ Klinkenberg Permeability = 0.016 md
In situ Porosity = 3.6 %

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	98.2	1.8	0.000	9	13	0.0	100.0	0.0	100.0	-5.0
827	1.8	93.1	5.1	0.002	12	16	0.0	27.1	0.0	92.5	-6.8
1,034	1.4	88.2	4.8	0.002	15	20	0.6	24.1	0.0	73.5	-4.4
1,379	1.1	83.4	4.8	0.004	18	26	1.8	21.5	0.0	58.4	-3.4
1,793	0.82	78.0	5.4	0.007	24	34	3.5	19.0	0.1	45.8	-2.7
2,413	0.61	70.0	8.0	0.014	32	44	6.1	16.4	0.3	34.2	-2.0
2,965	0.50	62.0	8.0	0.022	42	60	11.4	13.0	1.1	21.3	-1.3
3,792	0.39	51.6	10.4	0.035	52	73	18.2	9.9	2.7	12.5	-0.7
4,999	0.30	43.9	7.7	0.047	67	94	29.5	6.6	7.1	5.5	0.1
6,378	0.23	38.4	5.6	0.059	88	124	39.7	4.5	12.8	2.6	0.7
8,274	0.18	34.7	3.7	0.069	112	158	48.0	3.3	18.7	1.4	1.1
10,687	0.14	29.9	4.8	0.086	146	205	53.9	2.6	23.6	0.8	1.4
13,790	0.11	26.8	3.1	0.100	188	264	62.0	1.8	31.3	0.4	1.9
17,927	0.08	22.3	4.5	0.127	243	341	67.7	1.3	37.3	0.2	2.2
23,098	0.06	17.8	4.5	0.161	315	443	76.2	0.8	47.3	0.1	2.7
29,649	0.05	13.7	4.2	0.202	406	571	85.2	0.4	59.1	0.0	3.4
38,267	0.04	10.8	2.9	0.238	521	733	94.1	0.2	72.1	0.0	4.3
49,644	0.03	8.4	2.4	0.277	673	946	100.0	0.1	82.1	0.0	5.2
64,124	0.02	6.3	2.1	0.323	873	1227	100.0	0.0	91.2	0.0	6.5
					1128	1585	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 = 0.4212 7.8360 kPa/m
Oil/gas-Brine height assumes brine density gradient = 10.2358 10.2358 kPa/m
Swi assumed for relative permeability = 6.3 6.3 %
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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