

Mercury Injection Capillary Pressure Analysis
Core I.D. 73, A-25-E/94-P-16, 1142.38m

In situ Klinkenberg Permeability = 0.0039 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	99.5	0.5	0.000	7	9	0.0	100.0	0.0	100.0	-5.0
655	2.3	97.8	1.7	0.000	9	13	0.0	29.0	0.0	98.1	-5.0
827	1.8	91.5	6.3	0.002	12	16	0.1	28.0	0.0	91.2	-6.5
1,034	1.4	87.3	4.1	0.002	15	20	0.9	24.3	0.0	69.3	-4.1
1,379	1.1	83.2	4.1	0.004	18	26	2.0	22.1	0.0	57.2	-3.3
1,793	0.82	82.1	1.1	0.005	24	34	3.6	20.0	0.1	46.9	-2.7
2,413	0.61	79.1	3.0	0.007	32	44	4.0	19.4	0.1	44.4	-2.6
2,965	0.50	77.4	1.7	0.009	42	60	5.5	18.0	0.2	38.0	-2.2
3,792	0.39	65.7	11.7	0.025	52	73	6.4	17.2	0.3	34.8	-2.1
4,999	0.30	35.2	30.6	0.078	67	94	14.8	12.2	1.5	17.7	-1.1
6,378	0.23	14.3	20.8	0.125	88	124	53.1	3.3	19.7	1.2	1.2
8,274	0.18	11.9	2.5	0.132	112	158	92.6	0.4	59.9	0.0	3.5
10,687	0.14	9.7	2.1	0.140	146	205	98.1	0.3	67.1	0.0	3.9
13,790	0.11	8.1	1.7	0.148	188	264	100.0	0.2	73.8	0.0	4.4
17,927	0.08	7.1	1.0	0.155	243	341	100.0	0.1	79.4	0.0	4.9
23,098	0.06	5.8	1.3	0.165	315	443	100.0	0.1	82.9	0.0	5.3
29,649	0.05	5.1	0.7	0.173	406	571	100.0	0.0	87.6	0.0	5.9
38,267	0.04	4.0	1.1	0.188	521	733	100.0	0.0	90.4	0.0	6.4
49,644	0.03	3.3	0.6	0.199	673	946	100.0	0.0	94.6	0.0	7.4
64,124	0.02	2.6	0.7	0.214	873	1227	100.0	0.0	97.2	0.0	8.6
					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 = 2.6 %
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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