

Mercury Injection Capillary Pressure Analysis
Core I.D. 97, A-21-A/94-P-15, 1120.7m

In situ Klinkenberg Permeability = 0.0140 md
In situ Porosity = 5.0 %

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	99.6	0.4	0.000	5	8	0.0	100.0	0.0	100.0	-5.0
517	2.9	98.0	1.5	0.000	7	9	0.0	27.0	0.0	98.2	-5.0
655	2.3	94.9	3.2	0.001	9	13	0.0	26.0	0.0	91.6	-6.6
827	1.8	88.0	6.9	0.004	12	16	0.3	24.2	0.0	79.2	-4.9
1,034	1.4	79.7	8.2	0.006	15	20	1.8	20.4	0.0	56.6	-3.3
1,379	1.1	71.0	8.7	0.011	18	26	5.2	16.4	0.2	36.3	-2.2
1,793	0.82	63.9	7.1	0.017	24	34	10.6	12.5	1.0	21.4	-1.3
2,413	0.61	53.5	10.4	0.030	32	44	16.4	9.8	2.5	13.1	-0.7
2,965	0.50	44.9	8.6	0.042	42	60	27.3	6.4	6.9	5.6	0.1
3,792	0.39	36.5	8.5	0.057	52	73	38.3	4.2	13.6	2.4	0.8
4,999	0.30	30.7	5.7	0.071	67	94	51.0	2.4	24.2	0.8	1.5
6,378	0.23	27.3	3.5	0.082	88	124	60.5	1.5	34.1	0.3	2.0
8,274	0.18	25.6	1.7	0.088	112	158	66.7	1.1	41.4	0.2	2.4
10,687	0.14	22.8	2.8	0.103	146	205	69.9	0.9	45.4	0.1	2.6
13,790	0.11	20.6	2.2	0.117	188	264	75.2	0.6	52.7	0.0	3.0
17,927	0.08	18.5	2.1	0.136	243	341	79.5	0.4	58.9	0.0	3.4
23,098	0.06	17.2	1.3	0.150	315	443	83.9	0.3	65.5	0.0	3.8
29,649	0.05	14.6	2.6	0.188	406	571	86.5	0.2	69.7	0.0	4.1
38,267	0.04	12.5	2.0	0.225	521	733	92.1	0.1	79.0	0.0	4.9
49,644	0.03	10.6	1.9	0.271	673	946	96.5	0.0	86.7	0.0	5.8
64,124	0.02	9.4	1.3	0.310	873	1227	100.0	0.0	94.6	0.0	7.4
					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 = 9.4 %
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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