

Mercury Injection Capillary Pressure Analysis
Core I.D. 159, C-34-A/94-P-15, 1139.38m

In situ Klinkenberg Permeability = 0.163 md
In situ Porosity = 7.0 %

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	99.7	0.3	0.000	0.5	0.7	0.0	100.0	0.0	100.0	-5.0
49.6	30	99.6	0.1	0.000	0.7	0.9	0.0	28.5	0.0	98.7	-5.0
64.1	23	99.6	0.0	0.000	0.9	1.2	0.0	28.5	0.0	98.4	-5.0
82.7	18	99.6	0.0	0.000	1.1	1.6	0.0	28.5	0.0	98.4	-5.0
107	14	99.6	0.0	0.000	1.5	2.0	0.0	28.5	0.0	98.4	-5.0
138	11	99.6	0.0	0.000	1.9	2.6	0.0	28.5	0.0	98.4	-5.0
172	8.6	99.5	0.1	0.000	2.4	3.4	0.0	28.5	0.0	98.4	-5.0
241	6.1	98.7	0.8	0.000	3.0	4.3	0.0	28.4	0.0	97.8	-5.0
310	4.8	98.0	0.7	0.000	4	6	0.0	27.9	0.0	94.6	-5.0
379	3.9	97.1	0.9	0.001	5	8	0.1	27.5	0.0	91.8	-6.7
517	2.9	95.3	1.8	0.001	7	9	0.1	27.0	0.0	88.5	-6.0
655	2.3	91.1	4.2	0.003	9	13	0.3	25.9	0.0	81.8	-5.2
827	1.8	79.3	11.8	0.010	12	16	1.0	23.6	0.0	67.6	-3.9
1,034	1.4	68.1	11.1	0.011	15	20	5.4	17.5	0.2	37.6	-2.2
1,379	1.1	52.6	15.5	0.026	18	26	12.8	12.7	1.2	19.7	-1.2
1,793	0.82	42.6	10.0	0.039	24	34	28.3	7.2	6.1	6.4	0.0
2,413	0.61	34.3	8.3	0.053	32	44	41.6	4.5	13.1	2.5	0.7
2,965	0.50	29.7	4.6	0.063	42	60	54.4	2.8	22.4	1.0	1.4
3,792	0.39	25.2	4.5	0.075	52	73	62.3	2.0	29.3	0.5	1.8
4,999	0.30	20.8	4.5	0.091	67	94	70.5	1.3	37.6	0.2	2.2
6,378	0.23	18.5	2.3	0.101	88	124	79.2	0.8	47.4	0.1	2.8
8,274	0.18	16.7	1.8	0.112	112	158	83.9	0.6	53.1	0.0	3.1
10,687	0.14	15.0	1.7	0.124	146	205	87.7	0.5	58.1	0.0	3.3
13,790	0.11	12.9	2.1	0.145	188	264	91.2	0.3	62.8	0.0	3.6
17,927	0.08	10.7	2.2	0.172	243	341	95.8	0.2	69.3	0.0	4.1
23,098	0.06	9.3	1.4	0.195	315	443	100.7	0.1	76.5	0.0	4.6
29,649	0.05	7.6	1.7	0.230	406	571	103.8	0.1	81.4	0.0	5.1
38,267	0.04	6.9	0.8	0.251	521	733	107.7	0.0	87.5	0.0	5.9
49,644	0.03	5.8	1.1	0.289	673	946	109.5	0.0	90.6	0.0	6.4
64,124	0.02	4.5	1.2	0.346	873	1227	112.1	0.0	94.9	0.0	7.5
					1128	1585	115.1	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 = 4.5 4.5 %
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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