

Mercury Injection Capillary Pressure Analysis
Core I.D. 77, A-89-I/94-P-10, 1149.38m

In situ Klinkenberg Permeability = 0.000048 md
In situ Porosity = 2.3 %

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	100.0	0.0	0.000	9	13	0.0	100.0	0.0	100.0	-5.0
827	1.8	98.8	1.2	0.000	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	98.4	0.4	0.000	15	20	0.0	25.9	0.0	94.6	-5.0
1,379	1.1	98.4	0.0	0.000	18	26	0.0	25.6	0.0	92.8	-6.9
1,793	0.82	95.9	2.4	0.001	24	34	0.0	25.6	0.0	92.8	-6.9
2,413	0.61	93.9	2.0	0.002	32	44	0.2	24.2	0.0	82.8	-5.3
2,965	0.50	92.3	1.6	0.003	42	60	0.5	23.0	0.0	75.1	-4.5
3,792	0.39	90.1	2.2	0.005	52	73	0.8	22.1	0.0	69.4	-4.1
4,999	0.30	86.8	3.3	0.009	67	94	1.2	21.0	0.0	62.2	-3.6
6,378	0.23	84.5	2.3	0.012	88	124	2.2	19.2	0.0	52.5	-3.0
8,274	0.18	83.7	0.8	0.014	112	158	3.0	18.1	0.1	46.5	-2.7
10,687	0.14	81.6	2.1	0.019	146	205	3.3	17.7	0.1	44.4	-2.6
13,790	0.11	78.2	3.5	0.030	188	264	4.3	16.7	0.2	39.5	-2.3
17,927	0.08	64.8	13.3	0.085	243	341	6.0	15.1	0.4	32.3	-1.9
23,098	0.06	43.0	21.9	0.201	315	443	15.6	9.6	2.5	13.3	-0.7
29,649	0.05	24.7	18.2	0.325	406	571	41.1	3.4	17.1	1.6	1.0
38,267	0.04	18.6	6.1	0.379	521	733	71.5	0.6	51.9	0.1	3.0
49,644	0.03	15.2	3.4	0.417	673	946	83.6	0.2	71.0	0.0	4.2
64,124	0.02	11.3	3.9	0.474	873	1227	90.7	0.1	83.6	0.0	5.4
					1128	1585	99.2	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 = 11.3 11.3 %
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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