

Mercury Injection Capillary Pressure Analysis
Core I.D. 24, A-89-I/94-P-10, 1156.33m

In situ Klinkenberg Permeability = 0.0014 md
In situ Porosity = 1.7 %

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	100.0	0.0	0.000	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	100.0	0.0	0.000	15	20	0.0	100.0	0.0	100.0	-5.0
1,379	1.1	100.0	0.0	0.000	18	26	0.0	100.0	0.0	100.0	-5.0
1,793	0.82	100.0	0.0	0.000	24	34	0.0	100.0	0.0	100.0	-5.0
2,413	0.61	100.0	0.0	0.000	32	44	0.0	100.0	0.0	100.0	-5.0
2,965	0.50	100.0	0.0	0.000	42	60	0.0	100.0	0.0	100.0	-5.0
3,792	0.39	100.0	0.0	0.000	52	73	0.0	100.0	0.0	100.0	-5.0
4,999	0.30	100.0	0.0	0.000	67	94	0.0	100.0	0.0	100.0	-5.0
6,378	0.23	98.2	1.8	0.002	88	124	0.0	100.0	0.0	100.0	-5.0
8,274	0.18	94.7	3.5	0.006	112	158	0.0	22.0	0.0	91.0	-6.5
10,687	0.14	88.0	6.7	0.016	146	205	0.4	19.9	0.0	75.2	-4.5
13,790	0.11	78.9	9.1	0.033	188	264	1.8	16.3	0.1	50.6	-2.9
17,927	0.08	64.5	14.4	0.069	243	341	5.6	12.0	0.6	27.7	-1.7
23,098	0.06	54.9	9.5	0.099	315	443	15.9	6.6	4.6	8.4	-0.3
29,649	0.05	45.4	9.5	0.138	406	571	25.7	3.9	11.8	2.9	0.6
38,267	0.04	38.4	7.0	0.175	521	733	37.7	1.9	25.5	0.7	1.6
49,644	0.03	28.4	10.0	0.244	673	946	47.9	0.9	41.3	0.2	2.4
64,124	0.02	23.1	5.2	0.291	873	1227	64.8	0.1	75.4	0.0	4.5
					1128	1585	74.6	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 = 0.0186 0.3464 kPa/m
Oil/gas-Brine height assumes brine density gradient = 0.4525 0.4525 kPa/m
Swi assumed for relative permeability = 23.1 23.1 %
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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