

Mercury Injection Capillary Pressure Analysis
Core I.D. 168, B-86-E/94-P-16, 1166.46m

In situ Klinkenberg Permeability = 0.0029 md
In situ Porosity = 5.1 %

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	98.3	1.7	0.001	12	16	0.0	100.0	0.0	100.0	-5.0
1,034	1.4	96.1	2.2	0.001	15	20	0.0	26.5	0.0	92.8	-6.9
1,379	1.1	93.0	3.1	0.003	18	26	0.2	25.2	0.0	84.0	-5.4
1,793	0.82	89.5	3.6	0.007	24	34	0.6	23.5	0.0	72.9	-4.3
2,413	0.61	85.7	3.8	0.012	32	44	1.4	21.5	0.0	61.3	-3.5
2,965	0.50	83.2	2.4	0.015	42	60	2.6	19.5	0.1	50.6	-2.9
3,792	0.39	80.5	2.7	0.021	52	73	3.5	18.3	0.1	44.6	-2.6
4,999	0.30	78.4	2.1	0.026	67	94	4.8	17.0	0.2	38.4	-2.3
6,378	0.23	73.7	4.8	0.042	88	124	5.9	16.0	0.3	34.1	-2.0
8,274	0.18	61.2	12.4	0.097	112	158	8.8	13.9	0.7	25.8	-1.6
10,687	0.14	45.1	16.2	0.188	146	205	19.0	9.1	3.2	11.1	-0.5
13,790	0.11	30.3	14.8	0.296	188	264	38.1	4.4	12.9	2.6	0.7
17,927	0.08	23.2	7.1	0.363	243	341	61.3	1.6	33.5	0.3	2.0
23,098	0.06	18.0	5.2	0.426	315	443	74.4	0.7	49.4	0.1	2.9
29,649	0.05	14.3	3.7	0.485	406	571	84.9	0.3	64.2	0.0	3.7
38,267	0.04	12.4	1.9	0.523	521	733	92.8	0.1	76.7	0.0	4.7
49,644	0.03	10.2	2.2	0.580	673	946	96.9	0.1	83.8	0.0	5.4
64,124	0.02	8.4	1.8	0.641	873	1227	101.8	0.0	92.4	0.0	6.8
					1128	1585	105.9	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 = 8.4 %
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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