

Mercury Injection Capillary Pressure Analysis
Core I.D. 151, C-32-G/94-P-10, 1143.35m

In situ Klinkenberg Permeability = 2.62 md
In situ Porosity = 13.5 %

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	99.8	0.2	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	99.4	0.4	0.000	0.4	0.6	0.0	29.4	0.0	99.3	-5.0
29.6	50	99.1	0.3	0.000	0.5	0.7	0.0	29.1	0.0	97.7	-5.0
37.9	39	98.4	0.7	0.000	0.7	0.9	0.0	28.9	0.0	96.3	-5.0
49.6	30	97.8	0.5	0.000	0.9	1.2	0.0	28.5	0.0	93.5	-5.0
64.1	23	97.4	0.4	0.000	1.1	1.6	0.1	28.2	0.0	91.4	-6.6
82.7	18	97.0	0.4	0.000	1.5	2.0	0.1	27.9	0.0	89.8	-6.3
107	14	96.2	0.7	0.000	1.9	2.6	0.2	27.7	0.0	88.2	-6.0
138	11	95.3	1.0	0.001	2.4	3.4	0.3	27.2	0.0	85.5	-5.6
172	8.6	94.3	0.9	0.001	3.0	4.3	0.4	26.7	0.0	82.0	-5.2
241	6.1	91.4	2.9	0.002	4	6	0.9	26.1	0.0	78.8	-4.8
310	4.8	88.4	3.0	0.003	5	8	1.7	24.5	0.0	69.4	-4.1
379	3.9	85.0	3.5	0.005	7	9	2.9	22.9	0.0	60.4	-3.5
517	2.9	76.5	8.4	0.012	9	13	7.0	21.1	0.1	51.3	-3.0
655	2.3	64.7	11.8	0.023	12	16	15.7	17.0	0.3	33.5	-2.0
827	1.8	48.4	16.3	0.043	15	20	33.6	12.0	1.7	16.8	-1.0
1,034	1.4	39.1	9.3	0.037	18	26	46.9	6.6	7.7	5.0	0.2
1,379	1.1	28.9	10.1	0.058	24	34	63.8	4.2	14.9	2.0	0.9
1,793	0.82	21.4	7.6	0.078	32	44	78.0	2.2	27.7	0.6	1.7
2,413	0.61	15.1	6.3	0.100	42	60	90.9	1.1	41.5	0.2	2.4
2,965	0.50	12.3	2.8	0.112	52	73	97.1	0.5	56.3	0.0	3.2
3,792	0.39	10.1	2.2	0.125	67	94	102.1	0.3	64.2	0.0	3.7
4,999	0.30	8.5	1.5	0.136	88	124	105.6	0.2	71.0	0.0	4.2
6,378	0.23	7.8	0.7	0.143	112	158	107.4	0.1	76.0	0.0	4.6
8,274	0.18	6.9	0.9	0.154	146	205	109.3	0.1	78.5	0.0	4.8
10,687	0.14	6.4	0.5	0.162	188	264	110.6	0.1	81.4	0.0	5.1
13,790	0.11	5.8	0.6	0.174	243	341	112.0	0.1	83.3	0.0	5.3
17,927	0.08	5.0	0.8	0.194	315	443	113.8	0.0	85.4	0.0	5.6
23,098	0.06	4.5	0.5	0.213	406	571	115.1	0.0	88.2	0.0	6.0
29,649	0.05	3.9	0.6	0.240	521	733	116.7	0.0	90.3	0.0	6.3
38,267	0.04	3.2	0.7	0.277	673	946	118.2	0.0	92.6	0.0	6.9
49,644	0.03	2.5	0.7	0.326	873	1227	119.9	0.0	95.2	0.0	7.6
64,124	0.02	2.0	0.5	0.376	1128	1585	121.2	0.0	97.9	0.0	9.1
								100.0	0.0	15.0	

All Hg calculations assume air-mercury T=484 dyne/cm, contact angle=140deg.
Oil/Gas-Brine Pc assumes *in situ* 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 = 2.0 2.0 %
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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