

Mercury Injection Capillary Pressure Analysis
Core I.D. 35, D-37-I/94-P-10, 1133.21m

In situ Klinkenberg Permeability = 4.73 md
In situ Porosity = 10.5 %

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	99.4	0.6	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	98.9	0.5	0.000	0.3	0.4	0.0	28.4	0.0	97.5	-5.0
29.6	50	97.8	1.1	0.000	0.4	0.6	0.0	28.1	0.0	95.4	-5.0
37.9	39	97.1	1.1	0.000	0.5	0.7	0.1	27.4	0.0	91.1	-6.5
49.6	30	96.1	0.6	0.000	0.7	0.9	0.1	27.0	0.0	88.6	-6.0
64.1	23	95.5	1.1	0.000	0.9	1.2	0.2	26.4	0.0	84.5	-5.5
82.7	18	95.5	0.5	0.000	1.1	1.6	0.3	26.1	0.0	82.5	-5.2
107	14	94.2	0.0	0.000	1.5	2.0	0.3	26.1	0.0	82.5	-5.2
138	11	92.9	1.3	0.000	1.9	2.6	0.4	25.3	0.0	77.8	-4.8
172	8.6	91.8	1.3	0.000	2.4	3.4	0.6	24.6	0.0	73.3	-4.4
241	6.1	83.5	1.0	0.001	3.0	4.3	0.8	24.0	0.0	70.0	-4.1
310	4.8	74.5	8.4	0.003	4	6	3.4	19.6	0.1	46.8	-2.7
379	3.9	67.3	9.0	0.006	5	8	8.2	15.4	0.5	28.8	-1.8
517	2.9	55.7	7.2	0.008	7	9	13.5	12.4	1.4	18.7	-1.1
655	2.3	49.4	11.6	0.014	9	13	24.8	8.2	4.6	8.3	-0.3
827	1.8	40.6	6.3	0.018	12	16	32.3	6.3	7.8	4.9	0.2
1,034	1.4	35.4	8.9	0.026	15	20	44.6	4.1	15.0	2.0	0.9
1,379	1.1	28.8	5.2	0.024	18	26	52.7	3.0	20.9	1.1	1.3
1,793	0.82	24.6	6.5	0.033	24	34	63.9	1.9	30.7	0.4	1.9
2,413	0.61	20.4	4.3	0.041	32	44	71.8	1.3	38.8	0.2	2.3
2,965	0.50	18.1	4.2	0.051	42	60	80.0	0.8	48.2	0.1	2.8
3,792	0.39	16.2	2.2	0.058	52	73	84.6	0.6	53.8	0.0	3.1
4,999	0.30	14.2	2.0	0.065	67	94	88.7	0.4	59.2	0.0	3.4
6,378	0.23	12.9	1.9	0.075	88	124	92.9	0.3	64.9	0.0	3.8
8,274	0.18	11.8	1.3	0.083	112	158	95.7	0.2	68.8	0.0	4.0
10,687	0.14	10.7	1.1	0.092	146	205	98.1	0.2	72.5	0.0	4.3
13,790	0.11	9.5	1.1	0.104	188	264	100.0	0.1	76.1	0.0	4.6
17,927	0.08	8.5	1.2	0.121	243	341	100.0	0.1	80.4	0.0	5.0
23,098	0.06	7.9	1.0	0.139	315	443	100.0	0.1	83.9	0.0	5.4
29,649	0.05	6.9	0.7	0.155	406	571	100.0	0.0	86.4	0.0	5.7
38,267	0.04	6.2	1.0	0.184	521	733	100.0	0.0	90.2	0.0	6.3
49,644	0.03	5.3	0.7	0.212	673	946	100.0	0.0	93.0	0.0	7.0
64,124	0.02	4.4	0.9	0.254	873	1227	100.0	0.0	96.4	0.0	8.2
			0.9	0.310	1128	1585	100.0	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 *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 = 4.4 %
Sorw assumed for relative permeability = 0 %
In situ Gas/Oil & Brine Density (g/cc)= 0.031/0.80 1.03 g/cc

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