

Mercury Injection Capillary Pressure Analysis
Core I.D. 138, A-25-I/94-P-10, 1118.78m

In situ Klinkenberg Permeability = 0.931 md
In situ Porosity = 10.3 %

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	99.4	0.6	0.000	0.2	0.3	0.0	100.0	0.0	100.0	-5.0
22.8	65	98.7	0.7	0.000	0.3	0.4	0.0	28.7	0.0	97.6	-5.0
29.6	50	98.0	0.8	0.000	0.4	0.6	0.0	28.2	0.0	94.9	-5.0
37.9	39	97.6	0.4	0.000	0.5	0.7	0.1	27.8	0.0	91.9	-6.7
49.6	30	97.4	0.2	0.000	0.7	0.9	0.1	27.6	0.0	90.4	-6.4
64.1	23	97.0	0.4	0.000	0.9	1.2	0.1	27.4	0.0	89.6	-6.2
82.7	18	96.7	0.3	0.000	1.1	1.6	0.1	27.2	0.0	88.2	-6.0
107	14	96.3	0.4	0.000	1.5	2.0	0.1	27.0	0.0	87.1	-5.8
138	11	95.5	0.9	0.000	1.9	2.6	0.2	26.8	0.0	85.6	-5.6
172	8.6	94.3	1.2	0.001	2.4	3.4	0.3	26.3	0.0	82.5	-5.2
241	6.1	92.4	1.9	0.001	3.0	4.3	0.4	25.7	0.0	78.4	-4.8
310	4.8	89.4	3.0	0.002	4	6	0.7	24.6	0.0	71.9	-4.3
379	3.9	84.6	4.7	0.004	5	8	1.4	22.9	0.0	62.7	-3.6
517	2.9	67.5	17.1	0.014	7	9	3.0	20.5	0.1	50.0	-2.9
655	2.3	51.8	15.7	0.025	9	13	13.3	12.7	1.3	19.4	-1.2
827	1.8	36.3	15.5	0.039	12	16	29.3	7.2	6.2	6.3	0.0
1,034	1.4	29.7	6.6	0.032	15	20	51.3	3.3	19.1	1.3	1.2
1,379	1.1	22.8	6.9	0.042	18	26	62.4	2.1	28.2	0.5	1.7
1,793	0.82	19.0	3.9	0.050	24	34	75.2	1.2	40.9	0.2	2.4
2,413	0.61	15.9	3.1	0.058	32	44	82.9	0.7	49.7	0.1	2.9
2,965	0.50	14.2	1.6	0.063	42	60	89.3	0.5	57.8	0.0	3.3
3,792	0.39	12.7	1.5	0.069	52	73	92.9	0.4	62.4	0.0	3.6
4,999	0.30	11.5	1.2	0.076	67	94	96.2	0.3	67.1	0.0	3.9
6,378	0.23	10.8	0.7	0.081	88	124	98.9	0.2	70.8	0.0	4.2
8,274	0.18	9.6	1.2	0.091	112	158	100.5	0.2	73.2	0.0	4.4
10,687	0.14	8.8	0.8	0.100	146	205	103.2	0.1	77.1	0.0	4.7
13,790	0.11	8.2	0.7	0.110	188	264	104.9	0.1	79.7	0.0	4.9
17,927	0.08	7.4	0.8	0.125	243	341	106.5	0.1	82.1	0.0	5.2
23,098	0.06	6.4	1.0	0.149	315	443	108.3	0.0	84.9	0.0	5.5
29,649	0.05	5.6	0.8	0.174	406	571	110.6	0.0	88.5	0.0	6.0
38,267	0.04	4.8	0.9	0.210	521	733	112.4	0.0	91.5	0.0	6.6
49,644	0.03	4.3	0.5	0.236	673	946	114.5	0.0	94.9	0.0	7.5
64,124	0.02	3.5	0.8	0.290	873	1227	115.6	0.0	96.8	0.0	8.4
					1128	1585	117.5	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 = 3.5 3.5 %
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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