

Mercury Injection Capillary Pressure Analysis
Core I.D. 31, C-92-J/94-P-10, 1178.37m

In situ Klinkenberg Permeability = 0.0133 md
In situ Porosity = 2.8 %

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	99.2	0.8	0.000	3.0	4.3	0.0	100.0	0.0	100.0	-5.0
310	4.8	98.7	0.5	0.000	4	6	0.0	18.3	0.0	94.9	-5.0
379	3.9	98.4	0.3	0.000	5	8	0.0	18.0	0.0	91.8	-6.7
517	2.9	97.2	1.2	0.000	7	9	0.0	17.8	0.0	90.0	-6.3
655	2.3	95.7	1.5	0.001	9	13	0.1	17.1	0.0	83.4	-5.3
827	1.8	92.8	2.9	0.002	12	16	0.2	16.3	0.0	75.4	-4.5
1,034	1.4	91.4	1.4	0.001	15	20	0.6	14.7	0.0	61.7	-3.6
1,379	1.1	88.7	2.7	0.003	18	26	0.9	13.9	0.0	55.6	-3.2
1,793	0.82	84.8	3.9	0.006	24	34	1.6	12.6	0.1	45.5	-2.6
2,413	0.61	79.9	4.9	0.010	32	44	2.9	10.7	0.3	33.2	-2.0
2,965	0.50	75.6	4.3	0.015	42	60	5.1	8.6	1.0	21.5	-1.3
3,792	0.39	70.8	4.8	0.023	52	73	7.5	7.0	2.2	14.1	-0.8
4,999	0.30	67.4	3.5	0.029	67	94	10.7	5.3	4.6	8.3	-0.3
6,378	0.23	64.6	2.8	0.036	88	124	13.4	4.3	7.2	5.4	0.1
8,274	0.18	61.9	2.7	0.045	112	158	15.8	3.5	10.0	3.7	0.4
10,687	0.14	58.1	3.8	0.061	146	205	18.3	2.9	13.4	2.4	0.7
13,790	0.11	53.0	5.1	0.089	188	264	22.2	2.1	19.6	1.3	1.2
17,927	0.08	48.8	4.2	0.119	243	341	27.9	1.2	31.1	0.4	1.9
23,098	0.06	46.0	2.8	0.145	315	443	33.2	0.6	43.9	0.1	2.6
29,649	0.05	42.7	3.2	0.183	406	571	36.9	0.4	54.3	0.0	3.1
38,267	0.04	40.9	1.8	0.211	521	733	41.4	0.1	68.4	0.0	4.0
49,644	0.03	39.0	1.9	0.248	673	946	44.1	0.1	77.7	0.0	4.7
64,124	0.02	37.0	1.9	0.298	873	1227	47.0	0.0	88.2	0.0	6.0
					1128	1585	50.0	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 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 = 37.0 37.0 %
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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