

Mercury Injection Capillary Pressure Analysis
Core I.D. 93, C-94-I/94-P-10, 1132.88m

In situ Klinkenberg Permeability = 0.1166 md
In situ Porosity = 6.8 %

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	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	97.3	2.7	0.001	7	9	0.0	100.0	0.0	100.0	-5.0
655	2.3	93.9	3.4	0.001	9	13	0.1	26.9	0.0	89.0	-6.1
827	1.8	89.0	4.8	0.003	12	16	0.5	24.9	0.0	76.6	-4.6
1,034	1.4	88.0	1.0	0.002	15	20	1.5	22.2	0.0	61.2	-3.5
1,379	1.1	82.4	5.6	0.005	18	26	1.8	21.7	0.0	58.3	-3.4
1,793	0.82	78.3	4.1	0.007	24	34	3.9	18.9	0.1	44.0	-2.6
2,413	0.61	70.2	8.2	0.015	32	44	5.9	16.9	0.3	35.4	-2.1
2,965	0.50	60.0	10.2	0.026	42	60	11.2	13.3	1.0	22.1	-1.4
3,792	0.39	46.6	13.3	0.045	52	73	20.2	9.5	3.2	11.2	-0.5
4,999	0.30	35.9	10.7	0.065	67	94	35.9	5.4	10.0	3.7	0.4
6,378	0.23	30.4	5.6	0.078	88	124	51.8	3.0	20.8	1.1	1.3
8,274	0.18	26.2	4.2	0.090	112	158	61.2	2.0	29.1	0.5	1.8
10,687	0.14	22.5	3.7	0.105	146	205	68.7	1.4	36.7	0.2	2.2
13,790	0.11	19.4	3.1	0.121	188	264	75.9	0.9	44.7	0.1	2.6
17,927	0.08	15.9	3.5	0.144	243	341	82.0	0.6	52.2	0.1	3.0
23,098	0.06	12.7	3.2	0.172	315	443	89.2	0.4	61.8	0.0	3.6
29,649	0.05	10.2	2.5	0.199	406	571	96.2	0.2	71.8	0.0	4.3
38,267	0.04	8.2	2.0	0.228	521	733	100.0	0.1	80.3	0.0	5.0
49,644	0.03	6.6	1.6	0.258	673	946	100.0	0.0	87.9	0.0	5.9
64,124	0.02	5.2	1.4	0.291	873	1227	100.0	0.0	94.2	0.0	7.3
					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 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 = 5.2 5.2 %
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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