

**Mercury Injection Capillary Pressure Analysis**  
**Core I.D. 72, A-25-E/94-P-16, 1145.03m**

*In situ* Klinkenberg Permeability = 0.111 md  
*In situ* Porosity = 10.0 %

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	98.8	1.2	0.000	5	8	0.0	100.0	0.0	100.0	-5.0
517	2.9	93.5	5.3	0.003	7	9	0.0	26.8	0.0	94.9	-5.0
655	2.3	80.7	12.9	0.012	9	13	0.5	23.8	0.0	74.6	-4.5
827	1.8	41.0	39.6	0.047	12	16	4.7	17.1	0.2	38.8	-2.3
1,034	1.4	34.4	6.7	0.020	15	20	43.9	3.5	17.1	1.6	1.0
1,379	1.1	28.4	5.9	0.028	18	26	54.4	2.2	26.2	0.7	1.6
1,793	0.82	24.3	4.2	0.036	24	34	64.7	1.3	37.1	0.2	2.2
2,413	0.61	20.6	3.6	0.046	32	44	72.4	0.8	46.5	0.1	2.7
2,965	0.50	18.7	1.9	0.052	42	60	79.6	0.5	56.1	0.0	3.2
3,792	0.39	16.9	1.8	0.059	52	73	83.4	0.4	61.6	0.0	3.6
4,999	0.30	15.3	1.7	0.068	67	94	87.1	0.2	67.3	0.0	3.9
6,378	0.23	14.3	1.0	0.075	88	124	90.7	0.2	72.8	0.0	4.3
8,274	0.18	13.8	0.4	0.078	112	158	92.8	0.1	76.3	0.0	4.6
10,687	0.14	13.4	0.5	0.084	146	205	93.7	0.1	77.8	0.0	4.8
13,790	0.11	12.9	0.4	0.090	188	264	94.8	0.1	79.6	0.0	4.9
17,927	0.08	12.2	0.7	0.103	243	341	95.7	0.1	81.1	0.0	5.1
23,098	0.06	12.0	0.3	0.110	315	443	97.2	0.1	83.7	0.0	5.4
29,649	0.05	11.0	1.0	0.142	406	571	97.8	0.0	84.8	0.0	5.5
38,267	0.04	10.2	0.7	0.172	521	733	100.0	0.0	88.8	0.0	6.1
49,644	0.03	9.1	1.1	0.229	673	946	100.0	0.0	91.7	0.0	6.6
64,124	0.02	8.3	0.9	0.290	873	1227	100.0	0.0	96.2	0.0	8.0
					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 = 8.3 8.3 %  
Sorw assumed for relative permeability = 0 0 %  
*In situ* Gas/Oil & Brine Density (g/cc)= 0.031/0.80 1.03 g/cc

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