

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 (psia)	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 (ft)	Approx. Oil-Water Height Above Free Water Level (ft)	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
2.0	107	100.0	0.0	0.000	0.1	0.1	0.0	100.0	0.0	100.0	-5.0
2.5	86	100.0	0.0	0.000	0.8	1.2	0.0	100.0	0.0	100.0	-5.0
3.3	65	100.0	0.0	0.000	1.0	1.5	0.0	100.0	0.0	100.0	-5.0
4.3	50	100.0	0.0	0.000	1.3	2.0	0.0	100.0	0.0	100.0	-5.0
5.5	39	100.0	0.0	0.000	1.7	2.6	0.0	100.0	0.0	100.0	-5.0
7.2	30	100.0	0.0	0.000	2.2	3.3	0.0	100.0	0.0	100.0	-5.0
9.3	23	100.0	0.0	0.000	2.9	4.3	0.0	100.0	0.0	100.0	-5.0
12.0	18	100.0	0.0	0.000	3.7	5.5	0.0	100.0	0.0	100.0	-5.0
15.5	14	100.0	0.0	0.000	4.8	7.1	0.0	100.0	0.0	100.0	-5.0
20	11	100.0	0.0	0.000	6.2	9.2	0.0	100.0	0.0	100.0	-5.0
25	8.6	100.0	0.0	0.000	8.0	11.9	0.0	100.0	0.0	100.0	-5.0
35	6.1	100.0	0.0	0.000	10.0	14.9	0.0	100.0	0.0	100.0	-5.0
45	4.8	100.0	0.0	0.000	14	21	0.0	100.0	0.0	100.0	-5.0
55	3.9	98.8	1.2	0.000	18	27	0.0	100.0	0.0	100.0	-5.0
75	2.9	93.5	5.3	0.003	22	33	0.0	26.8	0.0	94.9	-5.0
95	2.3	80.7	12.9	0.012	30	45	0.5	23.8	0.0	74.6	-4.5
120	1.8	41.0	39.6	0.047	38	57	4.7	17.1	0.2	38.8	-2.3
150	1.4	34.4	6.7	0.020	48	71	43.9	3.5	17.1	1.6	1.0
200	1.1	28.4	5.9	0.028	60	89	54.4	2.2	26.2	0.7	1.6
260	0.82	24.3	4.2	0.036	80	119	64.7	1.3	37.1	0.2	2.2
350	0.61	20.6	3.6	0.046	104	155	72.4	0.8	46.5	0.1	2.7
430	0.50	18.7	1.9	0.052	140	209	79.6	0.5	56.1	0.0	3.2
550	0.39	16.9	1.8	0.059	172	256	83.4	0.4	61.6	0.0	3.6
725	0.30	15.3	1.7	0.068	219	328	87.1	0.2	67.3	0.0	3.9
925	0.23	14.3	1.0	0.075	289	432	90.7	0.2	72.8	0.0	4.3
1200	0.18	13.8	0.4	0.078	369	551	92.8	0.1	76.3	0.0	4.6
1550	0.14	13.4	0.5	0.084	479	715	93.7	0.1	77.8	0.0	4.8
2000	0.11	12.9	0.4	0.090	618	923	94.8	0.1	79.6	0.0	4.9
2600	0.08	12.2	0.7	0.103	798	1192	95.7	0.1	81.1	0.0	5.1
3350	0.06	12.0	0.3	0.110	1037	1549	97.2	0.1	83.7	0.0	5.4
4300	0.05	11.0	1.0	0.142	1337	1996	97.8	0.0	84.8	0.0	5.5
5550	0.04	10.2	0.7	0.172	1716	2562	100.0	0.0	88.8	0.0	6.1
7200	0.03	9.1	1.1	0.229	2215	3306	100.0	0.0	91.7	0.0	6.6
9300	0.02	8.3	0.9	0.290	2873	4289	100.0	0.0	96.2	0.0	8.0
					3711	5541	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 = 0.0134 0.3464 psi/ft
Oil/gas-Brine height assumes brine density gradient = 0.4460 0.4460 psi/ft
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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