

Capillary Pressure Curve (Mercury Intrusion) Test Report

(Sample-SS5)

Wells: Zhuhai Formation, Pearl River Mouth Basin, South China Sea.

1. Petrophysical properties:

Oilfield:	/	Sample ID:	SS5
Depth, m:	1359.15		
Formation:	Zhuhai Formation	Permeability, $10^{-3} \mu\text{m}^2$:	589
Porosity, %:	32.2		

2. Capillary Pressure Curve

ID	Intrusion				Extrusion			
	Pressure MPa	3D Pore-throat radius μm	J -function	Mercury saturation %	Pressure MPa	3D Pore-throat radius μm	J -function	Mercury saturation %
1	0.003	224.24	0.021	0.00	29.446	0.025	188.898	80.93
2	0.007	101.87	0.046	0.00	19.784	0.037	126.914	80.11
3	0.012	60.04	0.079	0.00	14.910	0.049	95.647	79.88
4	0.023	32.69	0.144	0.09	12.064	0.061	77.394	79.48
5	0.032	22.89	0.206	0.24	9.858	0.075	63.240	79.28
6	0.041	17.81	0.265	3.03	7.945	0.093	50.970	79.09
7	0.049	14.86	0.317	6.25	4.911	0.150	31.507	78.46
8	0.065	11.35	0.416	24.99	1.876	0.392	12.033	76.81
9	0.083	8.814	0.535	31.94	1.509	0.488	9.677	76.41
10	0.110	6.691	0.705	42.94	0.975	0.754	6.254	75.51
11	0.137	5.372	0.878	50.09	0.438	1.677	2.813	74.10
12	0.185	3.972	1.188	55.00	0.272	2.709	1.742	73.07
13	0.282	2.612	1.806	59.48	0.176	4.190	1.126	72.21
14	0.493	1.491	3.164	63.41	0.131	5.602	0.842	71.46
15	0.974	0.756	6.245	66.71	0.101	7.303	0.646	71.03
16	1.487	0.495	9.540	68.64	0.068	10.77	0.438	69.81
17	1.974	0.373	12.661	69.93	0.054	13.66	0.345	69.38
18	4.884	0.151	31.331	75.90	0.036	20.71	0.228	68.01
19	7.937	0.093	50.919	77.79	0.026	28.61	0.165	66.91
20	9.915	0.074	63.606	78.42	0.016	45.18	0.104	64.67
21	11.815	0.062	75.796	78.93	0.008	86.63	0.054	56.22
22	14.860	0.049	95.327	79.48				
23	19.602	0.038	125.752	80.23				
24	29.446	0.025	188.898	80.93				