

Capillary Pressure Curve (Mercury Intrusion) Test Report

(Sample-SS4)

Wells: Huangliu Formation, Yinggehai Basin, South China Sea.

1. Petrophysical properties:

Oilfield:	/	Sample ID:	SS4
Depth, m:	3221.50		
Formation:	Huangliu Formation	Permeability, $10^{-3}\mu\text{m}^2$:	25.2
Porosity, %:	17.2		

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	0.005	159.89	0.005	0.00	29.462	0.025	32.488	74.39
2	0.009	82.46	0.010	0.00	19.562	0.038	21.571	73.56
3	0.014	53.69	0.015	0.00	14.751	0.050	16.266	73.14
4	0.026	28.16	0.029	0.00	11.810	0.062	13.023	72.87
5	0.036	20.17	0.040	0.00	9.760	0.075	10.762	72.59
6	0.046	16.03	0.051	0.01	7.915	0.093	8.728	72.41
7	0.055	13.26	0.061	0.02	4.938	0.149	5.445	71.77
8	0.080	9.203	0.088	0.03	1.940	0.379	2.139	69.11
9	0.103	7.119	0.114	0.14	1.513	0.486	1.669	68.19
10	0.132	5.555	0.146	7.52	0.930	0.791	1.025	66.54
11	0.156	4.715	0.172	15.18	0.422	1.744	0.465	64.89
12	0.201	3.657	0.222	30.51	0.299	2.462	0.329	63.79
13	0.328	2.241	0.362	42.88	0.153	4.796	0.169	62.78
14	0.507	1.450	0.559	47.41	0.127	5.785	0.140	62.14
15	0.985	0.746	1.087	52.08	0.109	6.730	0.121	61.96
16	1.483	0.496	1.635	54.69	0.082	8.928	0.091	61.41
17	2.008	0.366	2.215	56.07	0.061	12.15	0.067	60.77
18	4.958	0.148	5.467	61.98	0.046	16.14	0.050	60.50
19	7.909	0.093	8.721	65.69	0.037	20.15	0.040	60.31
20	9.884	0.074	10.900	67.34	0.028	26.44	0.031	59.95
21	11.838	0.062	13.054	68.71	0.014	53.37	0.015	59.12
22	14.755	0.050	16.270	70.50	0.007	110.60	0.007	57.88
23	19.776	0.037	21.807	72.13				
24	29.462	0.025	32.488	74.39				