

Capillary Pressure Curve (Mercury Intrusion) Test Report

(Sample-SS3)

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

1. Petrophysical properties:

Oilfield:	/	Sample ID:	SS3
Depth, m:	3091.54		
Formation:	Huangliu Formation	Permeability, $10^{-3} \mu\text{m}^2$:	17.2
Porosity, %:	16.9		

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	0.004	197.72	0.003	0.00	29.800	0.025	26.817	76.81
2	0.009	82.73	0.008	0.13	19.894	0.037	17.903	76.40
3	0.014	52.50	0.013	0.26	14.956	0.049	13.459	75.88
4	0.024	30.39	0.022	0.51	11.884	0.062	10.695	75.69
5	0.034	21.54	0.031	0.64	9.990	0.074	8.990	75.43
6	0.044	16.64	0.040	0.64	7.943	0.093	7.148	74.88
7	0.054	13.60	0.049	0.71	5.046	0.146	4.541	74.34
8	0.074	9.954	0.066	0.73	1.867	0.394	1.680	70.99
9	0.093	7.885	0.084	0.77	1.434	0.513	1.290	70.35
10	0.122	6.025	0.110	0.90	0.970	0.758	0.873	68.55
11	0.151	4.877	0.136	1.80	0.444	1.657	0.399	66.49
12	0.201	3.668	0.180	15.05	0.304	2.418	0.274	65.08
13	0.306	2.403	0.275	27.14	0.159	4.633	0.143	63.41
14	0.496	1.483	0.446	37.04	0.141	5.220	0.127	62.78
15	0.989	0.743	0.890	45.53	0.120	6.127	0.108	62.12
16	1.518	0.484	1.366	50.03	0.090	8.206	0.081	61.28
17	1.988	0.370	1.789	52.60	0.066	11.08	0.060	60.83
18	4.929	0.149	4.435	60.19	0.049	15.07	0.044	60.03
19	7.912	0.093	7.120	63.54	0.039	18.94	0.035	59.55
20	9.972	0.074	8.974	65.47	0.029	25.53	0.026	58.78
21	11.867	0.062	10.680	66.88	0.018	40.32	0.016	57.62
22	14.861	0.049	13.373	68.81	0.009	82.64	0.008	55.69
23	19.843	0.037	17.857	71.90	0.004	171.05	0.004	54.53
24	29.800	0.025	26.817	76.81				