

Methane Adsorption Isotherm

Duvernay

Sample ID: 9336

Raw Basis

Well: 100/10-17-057-23W5/00

Depth: 13137 feet

TOC = 3.55%

Sample Weight = 204.20 g

Particle Size = -12 Mesh

Temperature = 239.0°F (115.0°C)

As-Received Moisture = 0.05%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
63	0.43	2.5	0.08
117	0.81	5.8	0.18
229	1.58	11.6	0.36
443	3.05	19.4	0.61
868	5.98	28.3	0.88
1,520	10.48	34.0	1.06
2,349	16.20	39.8	1.24
3,139	21.64	46.1	1.44
4,068	28.05	50.2	1.57

Langmuir Coefficients

$$V = 63.8 * P / (P + 1,214.2)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,214.2	8.37	63.8	2.0

