

Methane Adsorption Isotherm

Duvernay

Sample ID: 9265

Raw Basis

Well: 100/16-04-074-26W5/00

Depth: 2940.0 m

TOC = 2.84%

Sample Weight = 224.52 g

Particle Size = -12 Mesh

Temperature = 161.6°F (72.0°C)

As-Received Moisture = 0.92%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
118	0.81	1.7	0.05
224	1.54	3.4	0.11
430	2.96	6.3	0.20
843	5.81	9.6	0.30
1,251	8.63	12.0	0.37
1,805	12.45	13.6	0.42
2,426	16.73	15.5	0.48
3,146	21.69	16.2	0.51
3,805	26.23	16.8	0.52

Langmuir Coefficients

$$V = 22.8 * P / (P + 1,249.9)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,249.9	8.62	22.8	0.7

