

Methane Adsorption Isotherm

Duvernay
Sample ID: 9364
Raw Basis

Well: 100/02-06-047-04W5/00
Depth: 8677 feet
TOC = 1.29%

Sample Weight = 237.77 g	As-Received Moisture = 0.26%
Particle Size = -12 Mesh	
Temperature = 161.6°F (72.0°C)	

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
118	0.81	1.5	0.05
225	1.55	2.5	0.08
430	2.96	4.3	0.13
841	5.80	6.6	0.21
1,254	8.65	7.7	0.24
1,808	12.47	9.2	0.29
2,432	16.77	9.7	0.30
3,154	21.75	10.6	0.33
3,798	26.19	11.6	0.36

Langmuir Coefficients

$$V = 14.3 * P / (P + 1,051.7)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,051.7	7.25	14.3	0.4

