

# Methane Adsorption Isotherm

**Montney**  
**Sample ID: 9258**  
**Raw Basis**

**Well: 100/07-14-064-25W5/00**  
**Depth: 2297.3 m**  
**TOC = 0.47%**

Sample Weight = 226.85 g	As-Received Moisture = 0.60%
Particle Size = -12 Mesh	
Temperature = 141.8°F (61.0°C)	

## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
112	0.77	1.6	0.05
215	1.48	2.9	0.09
421	2.90	4.1	0.13
825	5.69	5.8	0.18
1,243	8.57	6.9	0.22
1,785	12.31	7.8	0.24
2,372	16.35	8.5	0.27
3,102	21.39	9.5	0.30
3,886	26.79	10.2	0.32

## Langmuir Coefficients

$$V = 12.0 * P / (P + 828.1)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
828.1	5.71	12.0	0.4

