

Methane Adsorption Isotherm

Majeau Lake
Sample ID: 9262
Raw Basis

Well: 100/10-13-063-12W5/00
Depth: 8614 feet
TOC = 1.73%

Sample Weight = 238.99 g	As-Received Moisture = 0.55%
Particle Size = -12 Mesh	
Temperature = 152.6°F (67.0°C)	

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
125	0.86	1.8	0.06
235	1.62	3.4	0.11
462	3.19	5.4	0.17
919	6.34	8.6	0.27
1,335	9.20	9.9	0.31
1,903	13.12	11.8	0.37
2,508	17.29	13.3	0.42
3,269	22.54	13.8	0.43
4,012	27.66	14.3	0.45

Langmuir Coefficients

$$V = 18.6 * P / (P + 1,120.6)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,120.6	7.73	18.6	0.6

