

Methane Adsorption Isotherm

Majeau Lake

Sample ID: 9263

Raw Basis

Well: 100/10-30-053-14W5/00

Depth: 10396.5 feet

TOC = 0.45%

Sample Weight = 229.82 g

Particle Size = -12 Mesh

Temperature = 176.0°F (80.0°C)

As-Received Moisture = 0.61%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
114	0.79	0.5	0.02
217	1.50	1.3	0.04
426	2.94	2.0	0.06
838	5.78	2.8	0.09
1,263	8.71	3.5	0.11
1,836	12.66	4.1	0.13
2,444	16.85	4.7	0.15
3,079	21.23	5.0	0.16
3,935	27.13	5.0	0.16

Langmuir Coefficients

$$V = 6.6 * P / (P + 1,125.5)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,125.5	7.76	6.6	0.2

