

# Methane Adsorption Isotherm

**Muskwa**

**Sample ID: 8995**

**Raw Basis**

**Well: 100/02-30-088-04W6/00**

**Depth: 2401.2 m**

**TOC = 1.11%**

Sample Weight = 236.36 g

Particle Size = -12 Mesh

Temperature = 158.0°F (70.0°C)

As-Received Moisture = 1.24%

## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
63	0.43	0.8	0.02
116	0.80	2.2	0.07
224	1.54	3.7	0.12
424	2.92	5.7	0.18
829	5.72	8.7	0.27
1,230	8.48	11.0	0.34
1,791	12.35	12.7	0.40
2,374	16.37	13.7	0.43
2,968	20.46	14.4	0.45

## Langmuir Coefficients

$$V = 20.4 * P / (P + 1,150.1)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,150.1	7.93	20.4	0.6

