

Methane Adsorption Isotherm

Muskwa

Sample ID: 8450

Raw Basis

Well: 100/11-30-109-08W6/00

Depth: 1613.9 m

TOC = 4.96%

Sample Weight = 207.75 g

Particle Size = -12 Mesh

Temperature = 149.0°F (65.0°C)

As-Received Moisture = 1.45%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
60	0.41	2.4	0.07
115	0.79	3.8	0.12
220	1.52	7.2	0.22
425	2.93	13.5	0.42
832	5.74	24.1	0.75
1,235	8.52	29.2	0.91
1,637	11.29	34.5	1.08
2,069	14.27	40.0	1.25
2,541	17.52	43.4	1.35

Langmuir Coefficients

$$V = 79.9 * P / (P + 2,106.2)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
2,106.2	14.52	79.9	2.5

