

Methane Adsorption Isotherm

Banff

Sample ID: 8047

Raw Basis

Well: 100/02-14-082-02W6/00

Depth: 6480 feet

TOC = 0.44%

Sample Weight = 239.03 g	As-Received Moisture = 0.66%
Particle Size = < 12 Mesh	
Temperature = 122.0°F (50.0°C)	

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
66	0.46	0.5	0.02
134	0.92	1.0	0.03
216	1.49	1.5	0.05
421	2.90	2.5	0.08
849	5.85	4.2	0.13
1,276	8.80	4.9	0.15
1,681	11.59	5.7	0.18
2,265	15.62	6.4	0.20
2,961	20.42	6.8	0.21

Langmuir Coefficients $V = 9.6 * P / (P + 1,202.8)$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,202.8	8.29	9.6	0.3

