

# Methane Adsorption Isotherm

Montney

Sample ID: 9260

Raw Basis

Well: 100/15-08-081-12W6/00

Depth: 1827.7 m

TOC = 0.66%

Sample Weight = 242.03 g

Particle Size = -12 Mesh

Temperature = 131.0°F (55.0°C)

As-Received Moisture = 0.13%

## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
65	0.45	0.9	0.03
119	0.82	1.5	0.05
229	1.58	2.9	0.09
434	2.99	5.0	0.16
852	5.87	6.9	0.22
1,257	8.67	8.9	0.28
1,813	12.50	9.8	0.31
2,384	16.44	10.6	0.33
3,013	20.77	11.1	0.35

## Langmuir Coefficients

$$V = 14.9 * P / (P + 974.3)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
974.3	6.72	14.9	0.5

