

# Methane Adsorption Isotherm

Montney

Sample ID: 9259

Raw Basis

Well: 100/06-14-066-06W6/00

Depth: 3030.6 m

TOC = 0.93%

Sample Weight = 245.91 g

Particle Size = -12 Mesh

Temperature = 176.0°F (80.0°C)

As-Received Moisture = 0.28%

## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
119	0.82	1.1	0.03
226	1.56	1.8	0.06
437	3.01	3.2	0.10
874	6.03	5.0	0.16
1,278	8.81	5.9	0.18
1,897	13.08	7.1	0.22
2,501	17.24	8.0	0.25
3,067	21.15	8.4	0.26
3,971	27.38	9.2	0.29

## Langmuir Coefficients

$$V = 11.9 * P / (P + 1,248.3)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,248.3	8.61	11.9	0.4

