

Methane Adsorption Isotherm

Montney

Sample ID: 9257

Raw Basis

Well: 100/16-23-057-06W6/00

Depth: 8683 feet

TOC = 1.14%

Sample Weight = 232.86 g

Particle Size = -12 Mesh

Temperature = 140.0°F (60.0°C)

As-Received Moisture = 0.17%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
113	0.78	3.7	0.12
217	1.50	6.3	0.20
426	2.94	8.5	0.27
835	5.76	12.7	0.40
1,255	8.65	15.6	0.49
1,802	12.42	17.6	0.55
2,396	16.52	20.0	0.62
3,132	21.59	21.1	0.66
3,912	26.97	22.2	0.69

Langmuir Coefficients

$$V = 26.5 * P / (P + 820.8)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
820.8	5.66	26.5	0.8

