

Methane Adsorption Isotherm

Duvernay

Sample ID: 9380

Raw Basis

Well: 100/10-08-046-22W4/00

Depth: 5605.5 feet

TOC = 0.59%

Sample Weight = 226.67 g

Particle Size = -12 Mesh

Temperature = 123.8°F (51.0°C)

As-Received Moisture = 1.12%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
63	0.43	1.0	0.03
120	0.83	2.5	0.08
216	1.49	4.2	0.13
371	2.56	5.1	0.16
525	3.62	6.4	0.20
830	5.72	7.6	0.24
1,221	8.42	8.5	0.27
1,616	11.14	9.2	0.29
2,176	15.00	9.6	0.30

Langmuir Coefficients

$$V = 11.9 * P / (P + 497.2)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
497.2	3.43	11.9	0.4

