

Methane Adsorption Isotherm

Duvernay

Sample ID: 9264

Raw Basis

Well: 100/09-06-052-11W5/00

Depth: 9902.5 feet

TOC = 1.36%

Sample Weight = 227.27 g

Particle Size = -12 Mesh

Temperature = 179.6°F (82.0°C)

As-Received Moisture = 0.20%

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
112	0.77	1.4	0.04
216	1.49	2.8	0.09
425	2.93	4.3	0.13
836	5.76	6.5	0.20
1,263	8.71	8.7	0.27
1,844	12.71	10.4	0.32
2,452	16.91	11.2	0.35
3,079	21.23	12.1	0.38
3,925	27.06	13.3	0.42

Langmuir Coefficients

$$V = 17.3 * P / (P + 1,262.9)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,262.9	8.71	17.3	0.5

