

# Methane Adsorption Isotherm

Colorado Group Fish Scales

Sample ID: 8042

Raw Basis

Well: 100/06-17-030-03W5/00

Depth: 2319.7 m

TOC = 1.75%

Sample Weight = 232.19 g	As-Received Moisture = 0.51%
Particle Size = < 12 Mesh	
Temperature = 122.0°F (50.0°C)	

## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
65	0.45	1.0	0.03
134	0.92	1.9	0.06
214	1.48	3.0	0.09
417	2.88	4.9	0.15
832	5.74	8.1	0.25
1,249	8.61	9.8	0.31
1,669	11.51	11.6	0.36
2,249	15.51	13.1	0.41
2,950	20.34	14.3	0.45

## Langmuir Coefficients $V = 20.7 * P / (P + 1,318.5)$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,318.5	9.09	20.7	0.6

