

Methane Adsorption Isotherm

Colorado Group Blackstone

Sample ID: 8043

Raw Basis

Well: 100/16-29-054-21W5/00

Depth: 2319.1 m

TOC = 1.73%

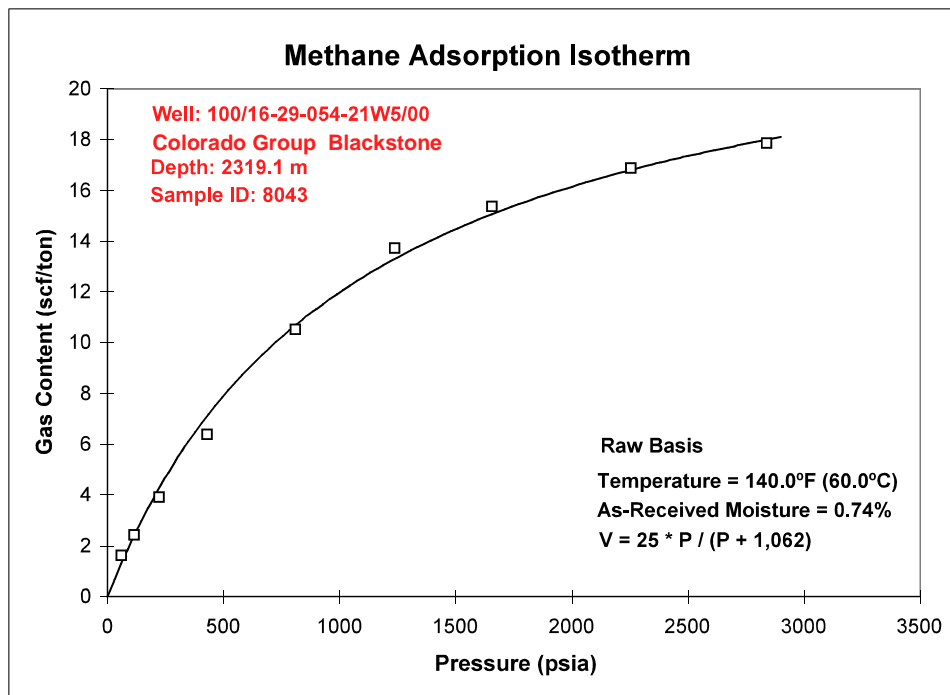
Sample Weight = 230.58 g	As-Received Moisture = 0.74%
Particle Size = < 12 Mesh	
Temperature = 140.0°F (60.0°C)	

Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
59	0.41	1.6	0.05
115	0.79	2.5	0.08
222	1.53	4.0	0.12
429	2.96	6.4	0.20
809	5.58	10.5	0.33
1,238	8.54	13.7	0.43
1,656	11.42	15.4	0.48
2,255	15.55	16.9	0.53
2,838	19.57	17.9	0.56

Langmuir Coefficients $V = 24.7 * P / (P + 1,061.5)$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,061.5	7.32	24.7	0.8



Schlumberger