

Methane Adsorption Isotherm

Colorado Group 2WSP

Sample ID: 8045

Raw Basis

Well: 100/07-19-045-06W5/00

Depth: 1816.6 m

TOC = 2.92%

Sample Weight = 235.78 g
Particle Size = < 12 Mesh
Temperature = 122.0°F (50.0°C)

As-Received Moisture = 0.75%

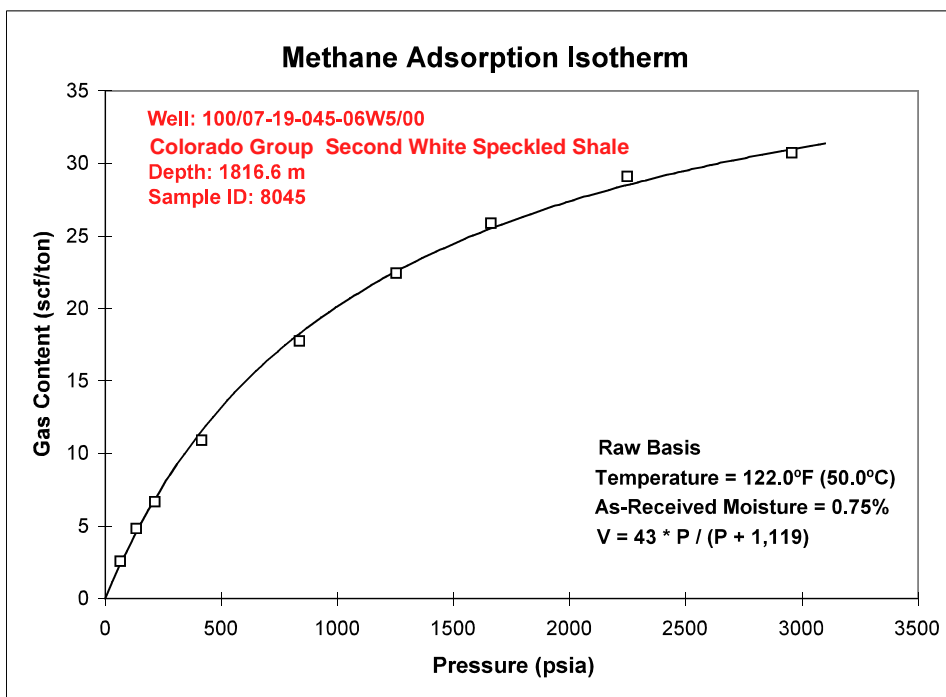
Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
65	0.45	2.6	0.08
135	0.93	4.8	0.15
214	1.48	6.6	0.21
416	2.87	10.9	0.34
837	5.77	17.8	0.56
1,255	8.65	22.4	0.70
1,663	11.47	25.9	0.81
2,249	15.51	29.1	0.91
2,957	20.39	30.8	0.96

Langmuir Coefficients

$$V = 42.7 * P / (P + 1,118.6)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,118.6	7.71	42.7	1.3



Schlumberger