

# Methane Adsorption Isotherm

Colorado Group 2WSP

Well: 100/06-23-043-11W4/00

Sample ID: 8041

Depth: 548.9 m

Raw Basis

TOC = 5.18%

Sample Weight = 192.01 g

Particle Size = < 12 Mesh

As-Received Moisture = 2.30%

Temperature = 77.0°F (25.0°C)

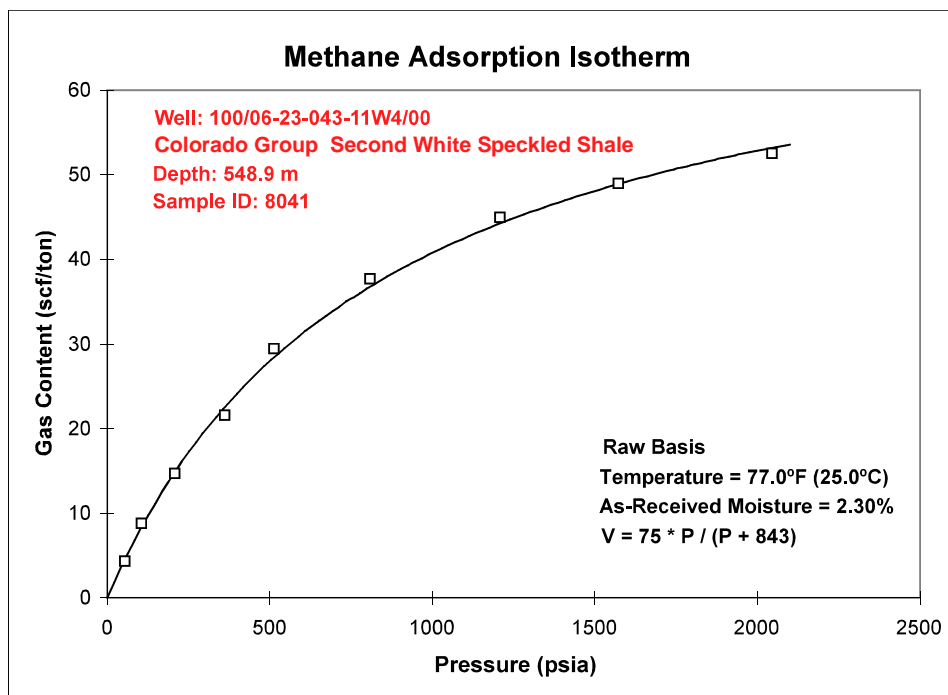
## Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
55	0.38	4.4	0.14
107	0.74	8.8	0.27
209	1.44	14.7	0.46
362	2.50	21.6	0.67
515	3.55	29.4	0.92
809	5.58	37.7	1.18
1,209	8.34	44.9	1.40
1,574	10.85	48.9	1.53
2,046	14.11	52.6	1.64

## Langmuir Coefficients

$$V = 75.1 * P / (P + 842.6)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
842.6	5.81	75.1	2.3



Schlumberger