

Methane Adsorption Isotherm

Colorado Group 2WSP

Sample ID: 8044

Raw Basis

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

Depth: 2480.0 m

TOC = 3.20%

Sample Weight = 228.99 g
Particle Size = < 12 Mesh
Temperature = 140.0°F (60.0°C)

As-Received Moisture = 0.82%

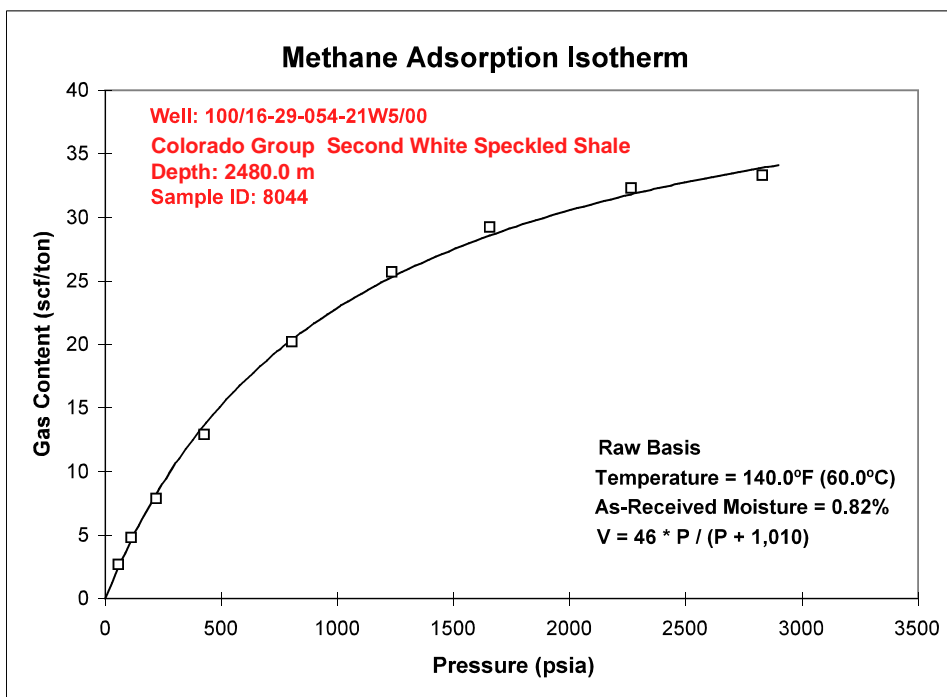
Methane Adsorption

Pressure		Gas Content (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
59	0.41	2.7	0.08
114	0.79	4.9	0.15
220	1.52	7.8	0.24
426	2.94	12.9	0.40
806	5.56	20.2	0.63
1,236	8.52	25.7	0.80
1,657	11.42	29.3	0.91
2,266	15.62	32.3	1.01
2,830	19.51	33.3	1.04

Langmuir Coefficients

$$V = 46.0 * P / (P + 1,009.6)$$

PL		VL (Raw Basis)	
(psia)	(MPa)	(scf/ton)	(scc/gm)
1,009.6	6.96	46.0	1.4



Schlumberger