

Methane Adsorption Isotherm Summary

Project:	New Crown 1
Reservoir:	Unknown
Sample Number:	AB-70894-NC1_A
Sample Type:	Coal
Drill Depth, metres:	Unknown
Temperature, °C:	60.0
Experimental Moisture Content, fraction:	0.1770
Experimental Ash Content, fraction:	0.1154

Pressure MPa	Methane Storage Capacity, scc/gram			
	As-Received		Dry, Ash-Free	
	Measured	Calculated	Measured	Calculated
0.00	0.00	0.00	0.00	0.00
0.74	0.37	0.37	0.53	0.52
1.83	0.87	0.87	1.23	1.22
3.10	1.36	1.39	1.93	1.97
4.46	1.91	1.90	2.70	2.69
5.87	2.35	2.37	3.32	3.36
7.28	2.83	2.80	4.01	3.96

Parameters	Methane Langmuir Parameters (S.I. Units)	
	As-Received	Dry, Ash-Free
Slope:	0.0887	0.0628
Intercept:	1.9524	1.3815
Regression Coefficient (squared):	0.9790	0.9790
Intercept Variation, Mpa*gram/scc:	0.1019	0.0721
Slope Variation, gram/scc:	0.0227	0.0161
G_s , Variation, scc/gram:	2.3345	3.2992
P_L , MPa:	4.1402	4.1402
Langmuir Volume, scc/gram:	11.28	15.93
Langmuir Pressure, MPa:	22.01	22.01
Langmuir Equation:	$V=11.3*P/(P+22.0)$	$V=15.9*P/(P+22.0)$
Pressure (Midpoint), MPa:	6.03	6.03
Storage Capacity, scc/gram:	2.43	3.43

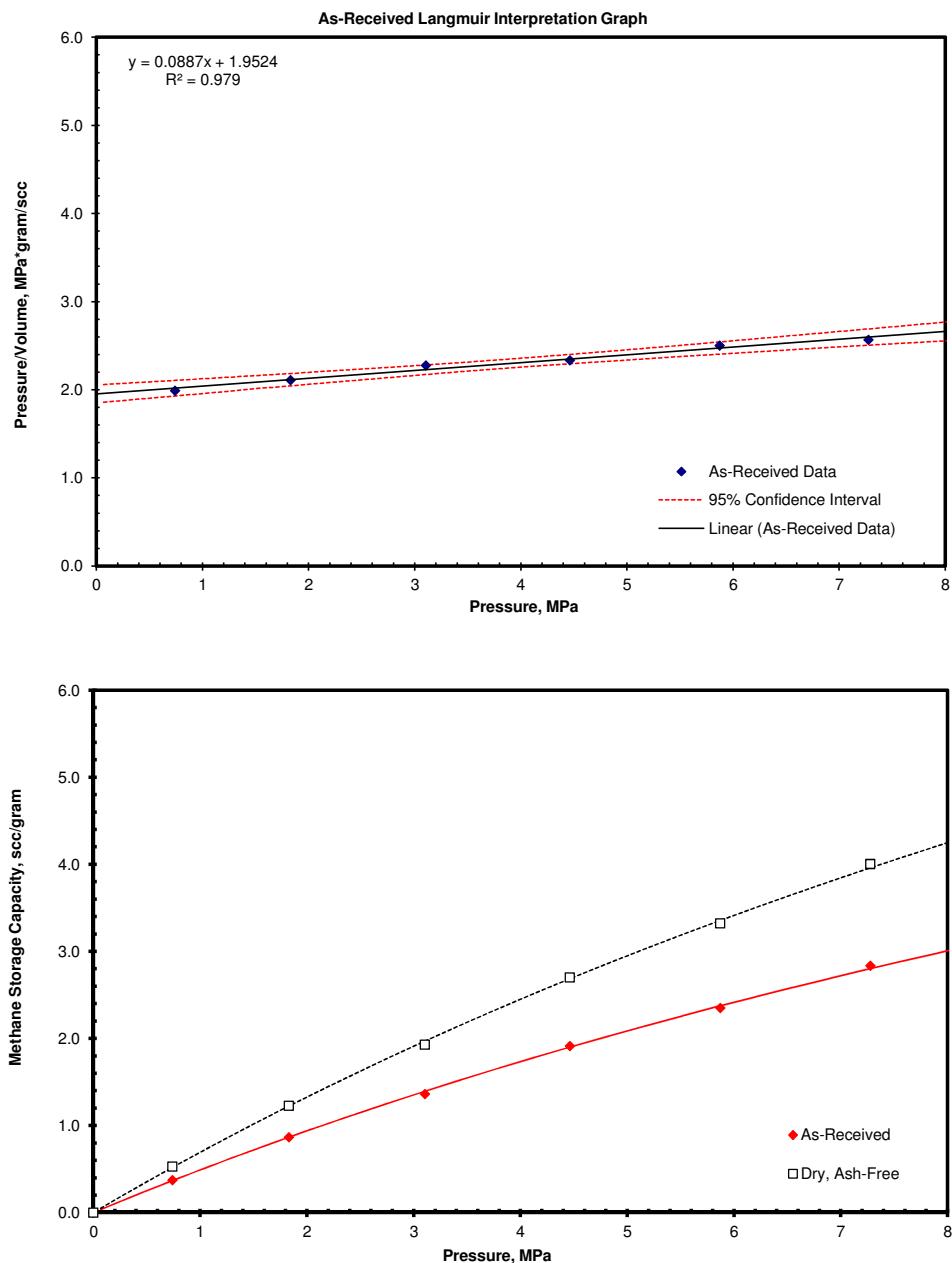
G_s Gas Storage Capacity

G_{sL} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs



Methane Adsorption Isotherm Summary

Project: New Crown 1
 Reservoir: Unknown
 Sample Number: AB-70894-NC1_B
 Sample Type: Coal
 Drill Depth, metres: Unknown
 Temperature, °C: 63.0
 Experimental Moisture Content, fraction: 0.1741
 Experimental Ash Content, fraction: 0.1013

Pressure MPa	Methane Storage Capacity, scc/gram			
	As-Received		Dry, Ash-Free	
	Measured	Calculated	Measured	Calculated
0.00	0.00	0.00	0.00	0.00
0.80	0.50	0.49	0.69	0.67
1.99	1.11	1.13	1.54	1.57
3.37	1.75	1.79	2.42	2.47
4.85	2.42	2.40	3.34	3.31
6.40	2.97	2.95	4.09	4.07
7.97	3.43	3.43	4.73	4.74

Parameters	Methane Langmuir Parameters (S.I. Units)	
	As-Received	Dry, Ash-Free
Slope:	0.0953	0.0691
Intercept:	1.5620	1.1320
Regression Coefficient (squared):	0.9852	0.9852
Intercept Variation, Mpa*gram/scc:	0.1001	0.0725
Slope Variation, gram/scc:	0.0204	0.0148
G_{sl} Variation, scc/gram:	1.7310	2.3887
P_L Variation, MPa:	2.2875	2.2875
Langmuir Volume, scc/gram:	10.49	14.48
Langmuir Pressure, MPa:	16.39	16.39
Langmuir Equation:	$V=10.5*P/(P+16.4)$	$V=14.5*P/(P+16.4)$
Pressure (Midpoint), MPa:	6.65	6.65
Storage Capacity, scc/gram:	3.03	4.18

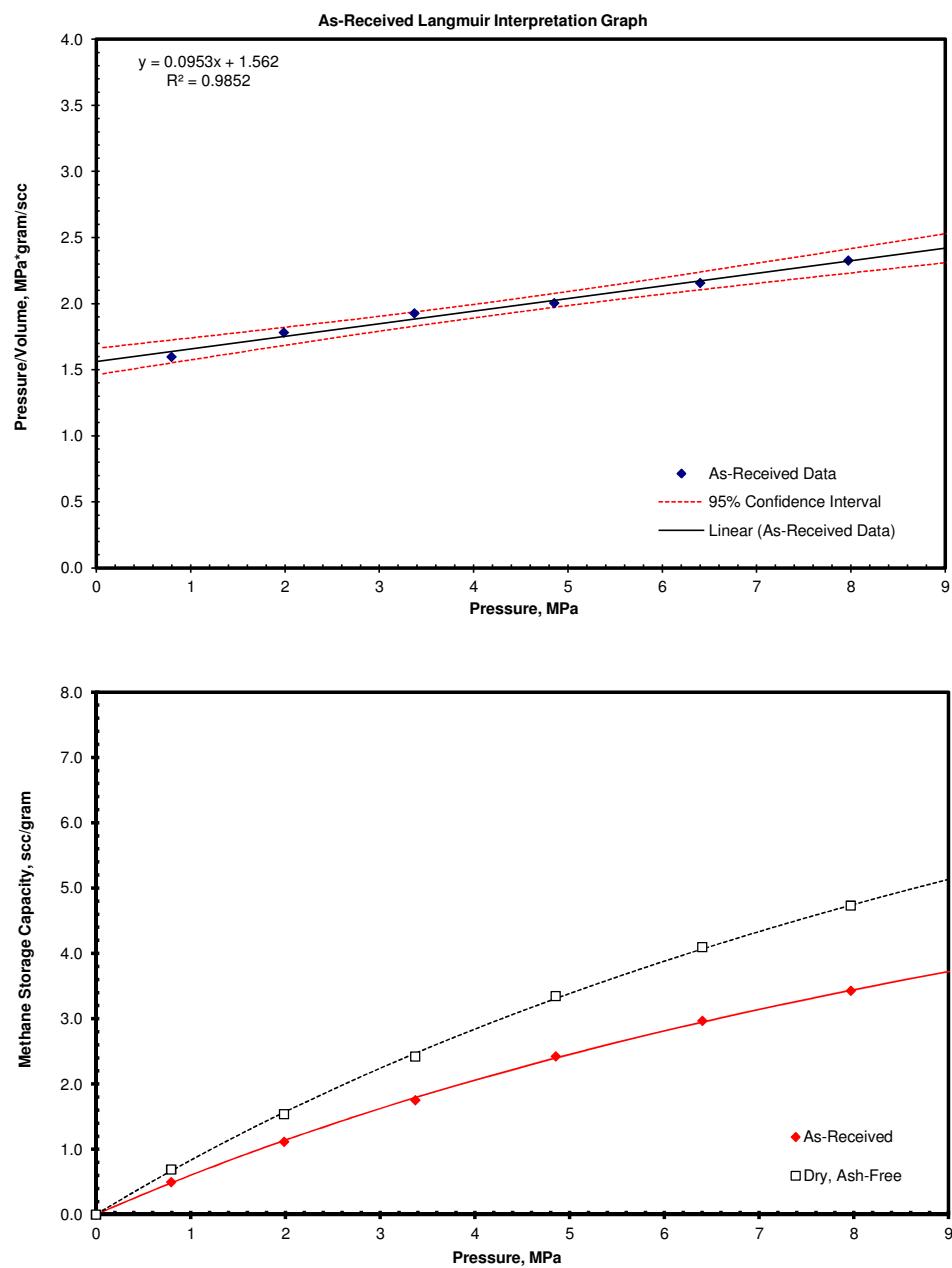
G_s Gas Storage Capacity

G_{sl} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs



Methane Adsorption Isotherm Summary

Project:	New Crown 1
Reservoir:	Unknown
Sample Number:	AB-70894-NC1_C
Sample Type:	Coal
Drill Depth, metres:	Unknown
Temperature, °C:	67.0
Experimental Moisture Content, fraction:	0.1269
Experimental Ash Content, fraction:	0.1382

Pressure MPa	Methane Storage Capacity, scc/gram			
	As-Received		Dry, Ash-Free	
	Measured	Calculated	Measured	Calculated
0.00	0.00	0.00	0.00	0.00
0.78	0.64	0.61	0.87	0.83
1.98	1.44	1.45	1.96	1.98
3.42	2.28	2.33	3.11	3.17
4.99	3.07	3.15	4.18	4.29
6.63	3.83	3.89	5.21	5.29
8.33	4.69	4.55	6.39	6.19

Parameters	Methane Langmuir Parameters (S.I. Units)	
	As-Received	Dry, Ash-Free
Slope:	0.0741	0.0545
Intercept:	1.2126	0.8912
Regression Coefficient (squared):	0.9597	0.9597
Intercept Variation, Mpa*gram/scc:	0.1347	0.0990
Slope Variation, gram/scc:	0.0265	0.0195
G_s , Variation, scc/gram:	3.8436	5.2297
P_L , MPa:	3.8718	3.8718
Langmuir Volume, scc/gram:	13.49	18.36
Langmuir Pressure, MPa:	16.36	16.36
Langmuir Equation:	$V=13.5*P/(P+16.4)$	$V=18.4*P/(P+16.4)$
Pressure (Midpoint), MPa:	7.51	7.51
Storage Capacity, scc/gram:	4.25	5.78

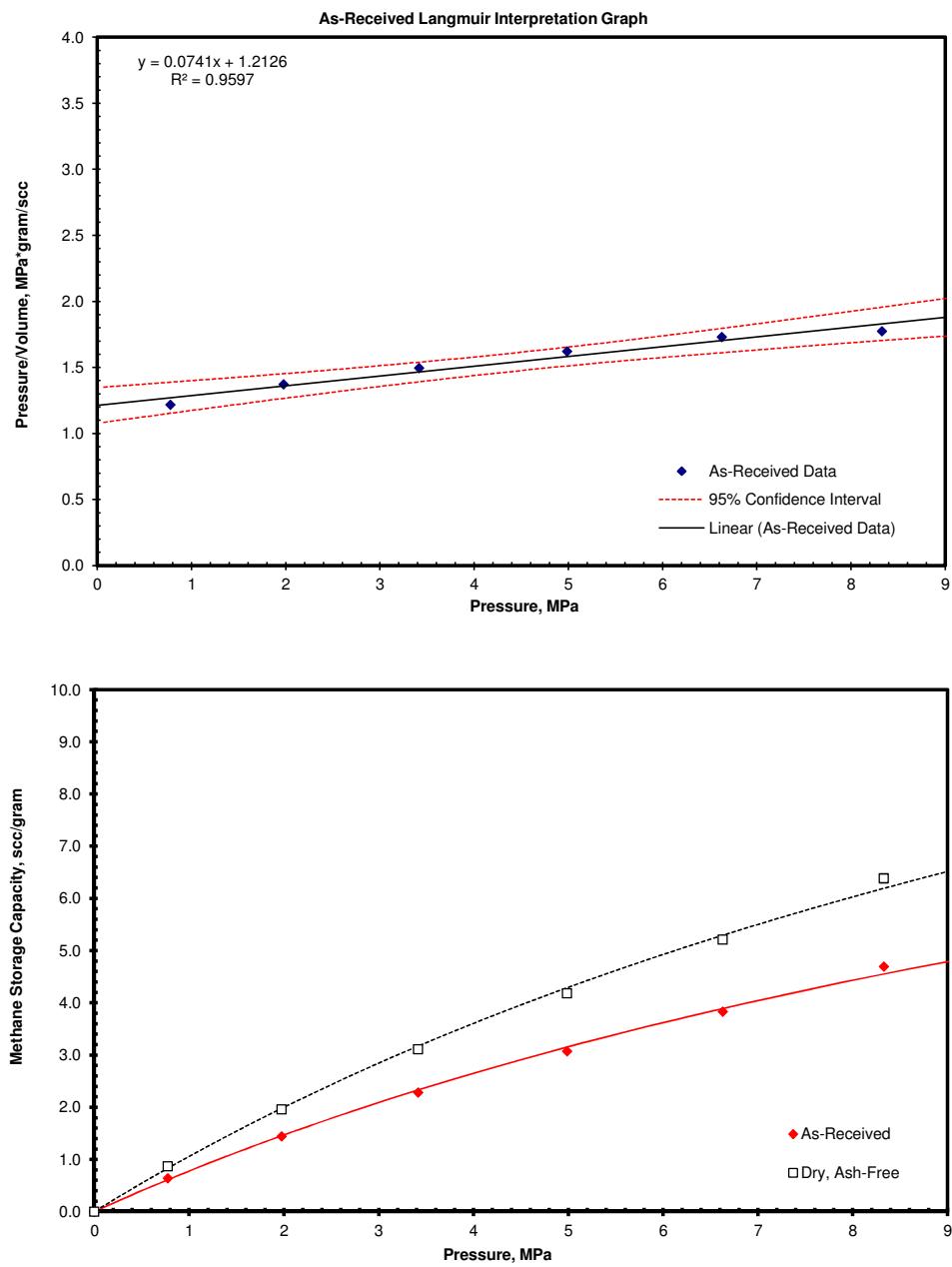
G_s Gas Storage Capacity

G_{sL} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs



Methane Adsorption Isotherm Summary

Project: New Crown 1
 Reservoir: Unknown
 Sample Number: AB-70894-NC1_D
 Sample Type: Coal
 Drill Depth, metres: Unknown
 Temperature, °C: 68.0
 Experimental Moisture Content, fraction: 0.1686
 Experimental Ash Content, fraction: 0.0629

Pressure MPa	Methane Storage Capacity, scc/gram			
	As-Received		Dry, Ash-Free	
	Measured	Calculated	Measured	Calculated
0.00	0.00	0.00	0.00	0.00
0.95	0.68	0.67	0.89	0.87
2.37	1.57	1.56	2.04	2.03
4.06	2.45	2.50	3.18	3.26
5.85	3.36	3.38	4.37	4.39
7.70	4.09	4.17	5.32	5.42
9.60	4.99	4.88	6.50	6.35

Parameters	Methane Langmuir Parameters (S.I. Units)	
	As-Received	Dry, Ash-Free
Slope:	0.0627	0.0482
Intercept:	1.3664	1.0502
Regression Coefficient (squared):	0.9722	0.9722
Intercept Variation, Mpa*gram/scc:	0.1092	0.0839
Slope Variation, gram/scc:	0.0185	0.0142
G_{sl} Variation, scc/gram:	3.3636	4.3766
P_L Variation, MPa:	3.7587	3.7587
Langmuir Volume, scc/gram:	15.96	20.77
Langmuir Pressure, MPa:	21.81	21.81
Langmuir Equation:	$V=16.0*P/(P+21.8)$	
Pressure (Midpoint), MPa:	8.00	8.00
Storage Capacity, scc/gram:	4.28	5.57

G_s Gas Storage Capacity

G_{sl} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs

