Methane Adsorption Isotherm Summary

Well: **Glyde-1**
Reservoir: **Barney Creek**
Sample Number: AB-64348-20
Sample Type: Shale
Drill Depth, feet: 1148.29-1164.69
Temperature, °F: 103.1

Pressure	Methane Storage Capacity, scf/ton	
psia	As-Received	
	Measured	Calculated
0.0	0.00	0.00
88.9	0.84	0.77
221.4	1.57	1.66
375.1	2.37	2.44
540.5	2.97	3.07
711.0	3.69	3.58
882.5	4.02	3.99

Parameters	Methane Langmuir Parameters (U.S. Units)
	As-Received
Slope:	0.13
Intercept:	104.23
Regression Coefficient (squared):	0.97
Intercept Variation, psia*ton/scf:	23.01
Slope Variation, ton/scf:	0.04
G_{sL} Variation, scf/ton:	2.24
P_L Variation, psia:	227.68
Langmuir Volume, scf/ton:	7.54
Langmuir Pressure, psia:	785.49
Langmuir Equation:	V=7.5*P/(P+785.5)
Pressure (Midpoint), psia:	519.00
Storage Capacity, scf/ton:	3.00

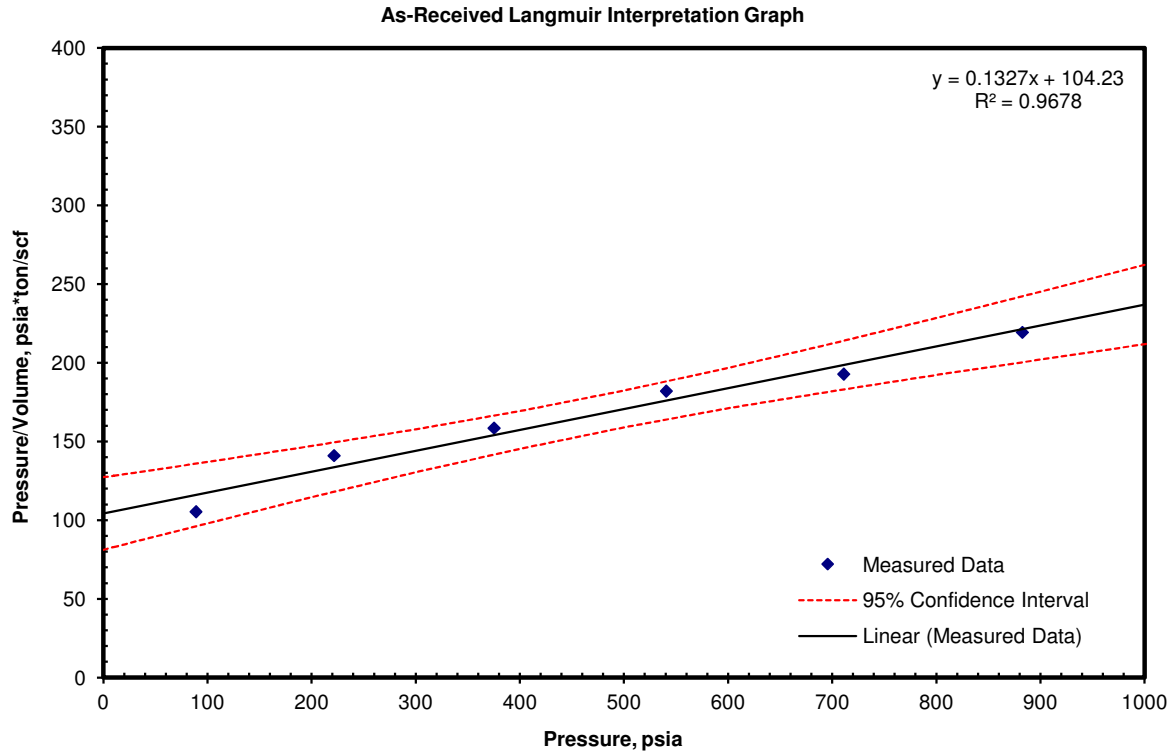
G_s Gas Storage Capacity

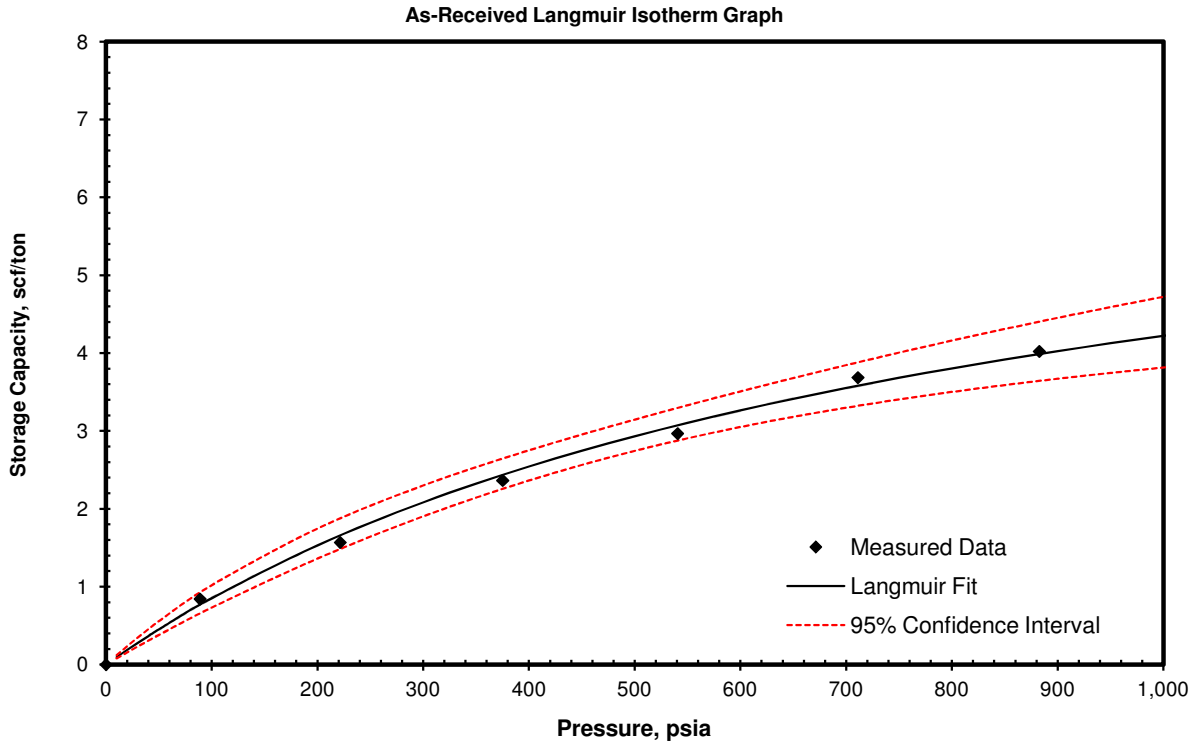
G_{sL} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs





Methane Adsorption Isotherm Summary

Well: **Glyde-1**
Reservoir: **Barney Creek**
Sample Number: AB-64348-20
Sample Type: Shale
Drill Depth, meters: 350.00-355.00
Temperature, °C: 39.5

Pressure	Methane Storage Capacity, scc/gram	
MPa	As-Received	
	Measured	Calculated
0.0	0.00	0.00
0.6	0.03	0.02
1.5	0.05	0.05
2.6	0.07	0.08
3.7	0.09	0.10
4.9	0.12	0.11
6.1	0.13	0.12

Parameters	Methane Langmuir Parameters (S.I. Units)
	As-Received
Slope:	4.25
Intercept:	23.02
Regression Coefficient (squared):	0.97
Intercept Variation, Mpa*gram/scc:	5.08
Slope Variation, gram/scc:	1.36
G_{sL} Variation, scc/gram:	0.07
P_L Variation, MPa:	1.57
Langmuir Volume, scc/gram:	0.24
Langmuir Pressure, MPa:	5.42
Langmuir Equation:	V=0.2*P/(P+5.4)
Pressure (Midpoint), MPa:	3.58
Storage Capacity, scc/gram:	0.09

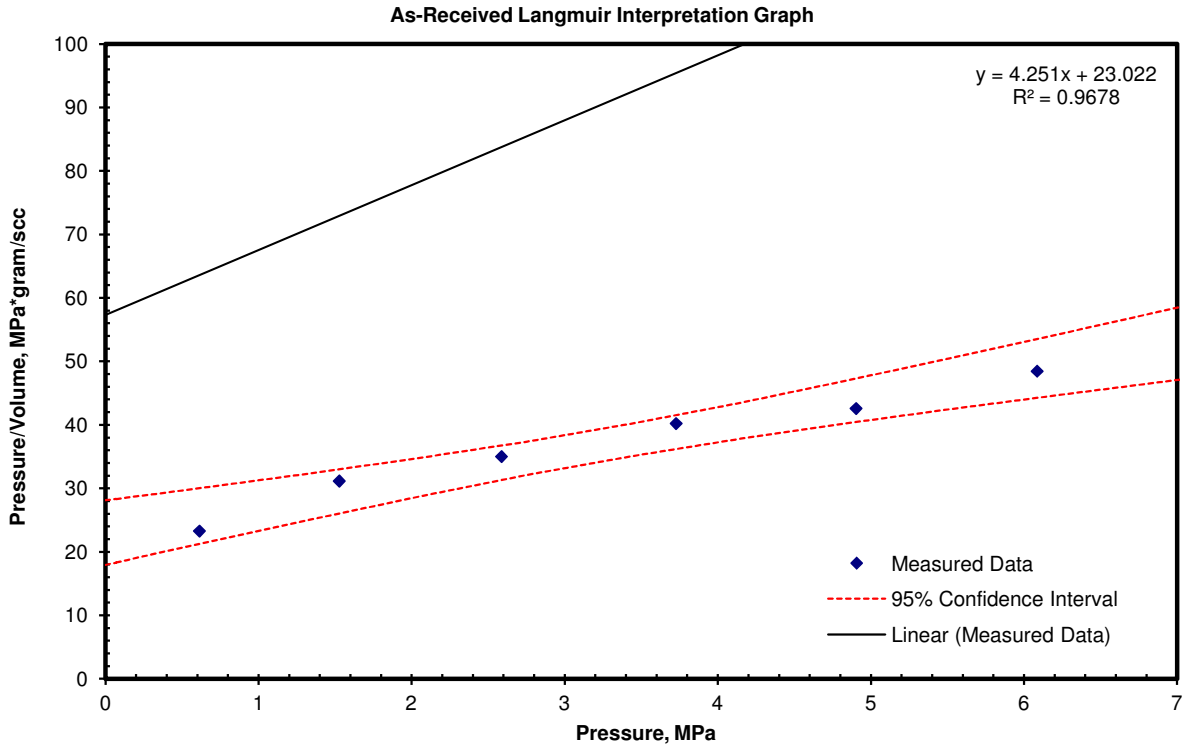
G_s Gas Storage Capacity

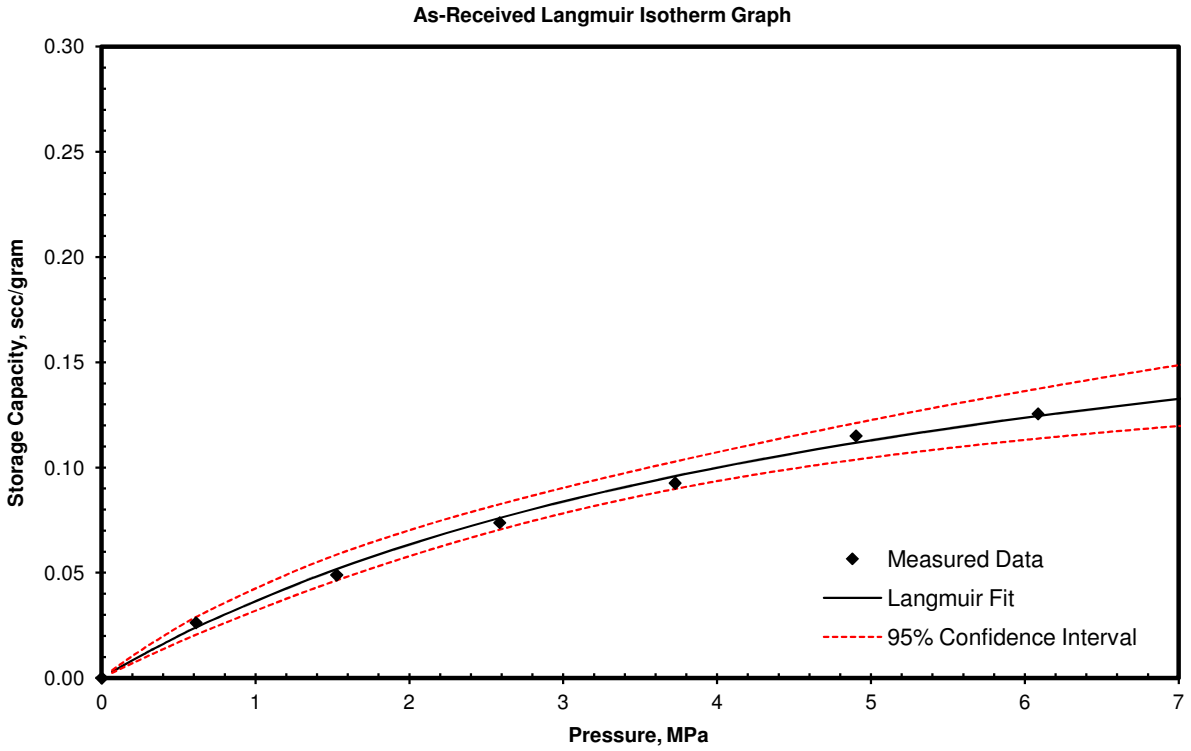
G_{sL} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs





Methane Adsorption Isotherm Summary

Well: **Glyde-1**
Reservoir: **Barney Creek**
Sample Number: AB-64348-21
Sample Type: Shale
Drill Depth, feet: 1574.80-1591.20
Temperature, °F: 103.1

Pressure	Methane Storage Capacity, scf/ton	
psia	As-Received	
	Measured	Calculated
0.0	0.00	0.00
120.0	0.82	0.81
295.5	1.90	1.90
502.5	3.05	3.07
723.8	4.09	4.20
951.7	5.22	5.25
1185.0	6.35	6.22

Parameters	Methane Langmuir Parameters (U.S. Units)
	As-Received
Slope:	0.04
Intercept:	143.81
Regression Coefficient (squared):	0.96
Intercept Variation, psia*ton/scf:	9.77
Slope Variation, ton/scf:	0.01
G_{sL} Variation, scf/ton:	7.47
P_L Variation, psia:	1037.93
Langmuir Volume, scf/ton:	25.44
Langmuir Pressure, psia:	3658.10
Langmuir Equation:	V=25.4*P/(P+3,658.1)
Pressure (Midpoint), psia:	706.00
Storage Capacity, scf/ton:	4.11

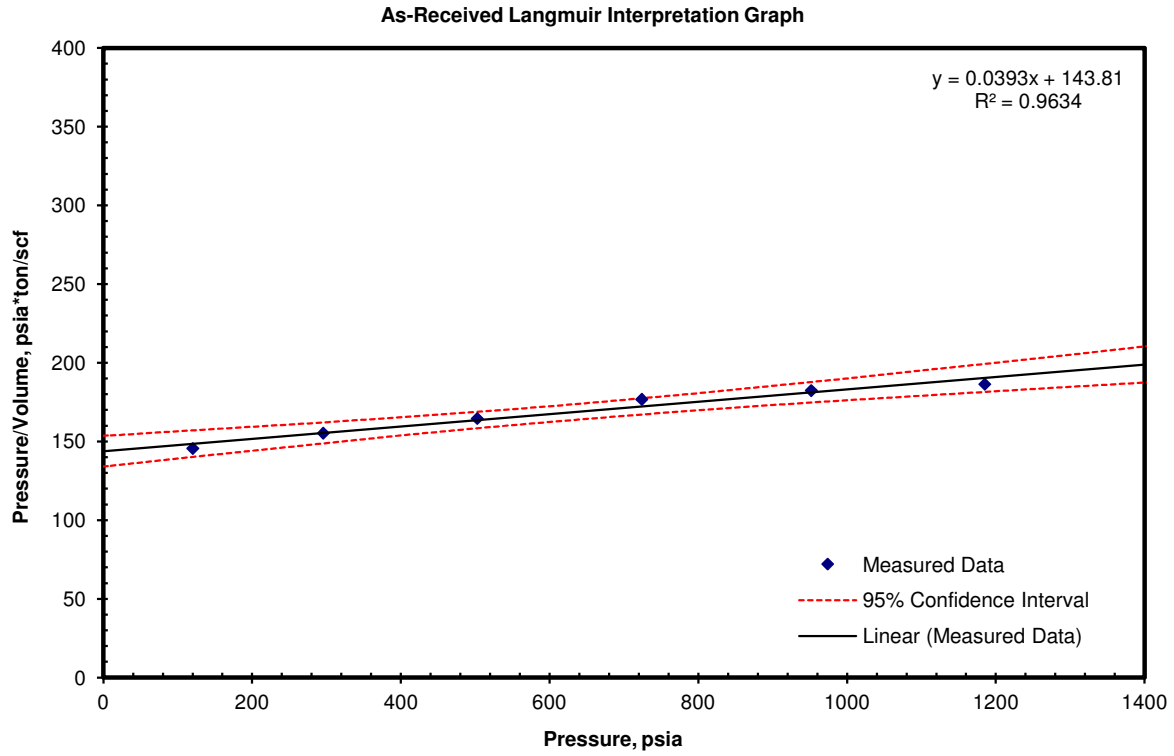
G_s Gas Storage Capacity

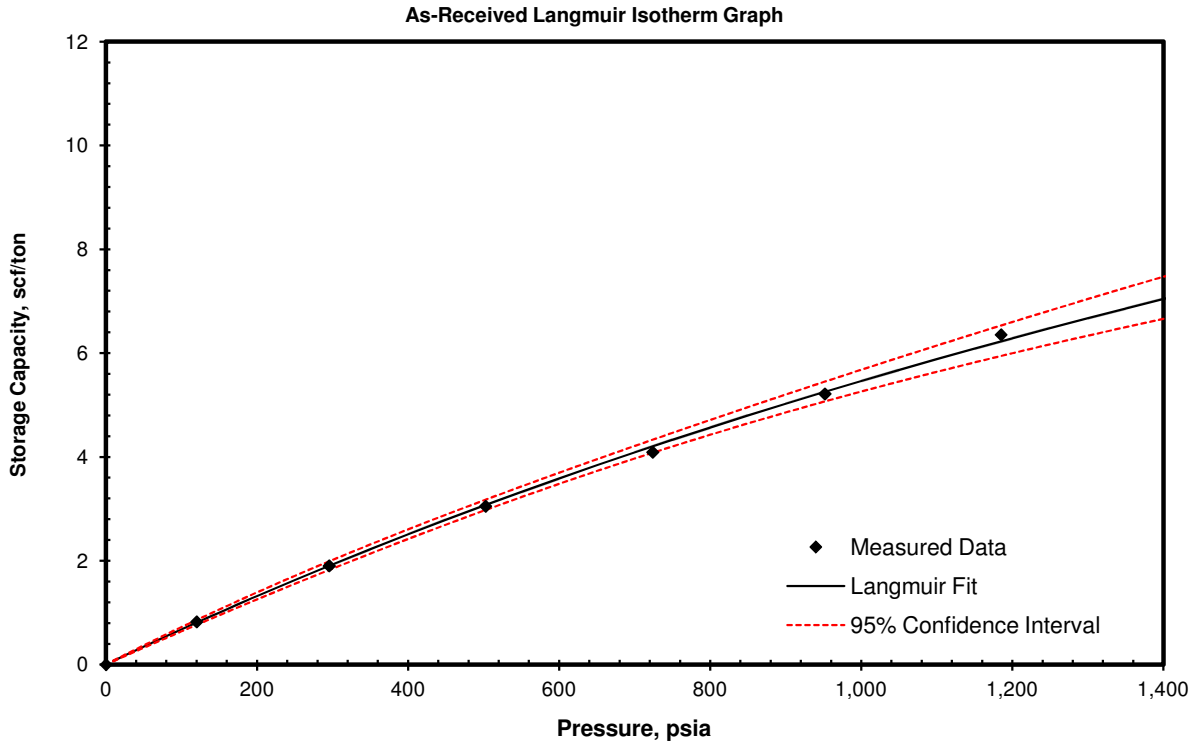
G_{sL} Langmuir Gas Storage Capacity

P_L Langmuir Pressure

p Relevant Pressure (Reservoir Pressure)

Methane Adsorption Isotherm Summary Graphs





Methane Adsorption Isotherm Summary

Project: **Glyde-1**
Reservoir: **Barney Creek**
Sample Number: AB-64348-21
Sample Type: Shale
Drill Depth, metres: 480.00-485.00
Temperature, °C: 39.5

Pressure	Methane Storage Capacity, scc/gram	
MPa	As-Received	
	Measured	Calculated
0.0	0.00	0.00
0.8	0.03	0.03
2.0	0.06	0.06
3.5	0.10	0.10
5.0	0.13	0.13
6.6	0.16	0.16
8.2	0.20	0.19

Parameters	Methane Langmuir Parameters (S.I. Units)
	As-Received
Slope:	1.26
Intercept:	31.77
Regression Coefficient (squared):	0.96
Intercept Variation, Mpa*gram/scc:	2.16
Slope Variation, gram/scc:	0.43
G_{sL} Variation, scc/gram:	0.23
P_L Variation, MPa:	7.16
Langmuir Volume, scc/gram:	0.79
Langmuir Pressure, MPa:	25.22
Langmuir Equation:	V=0.8*P/(P+25.2)
Pressure (Midpoint), MPa:	4.87
Storage Capacity, scc/gram:	0.13

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