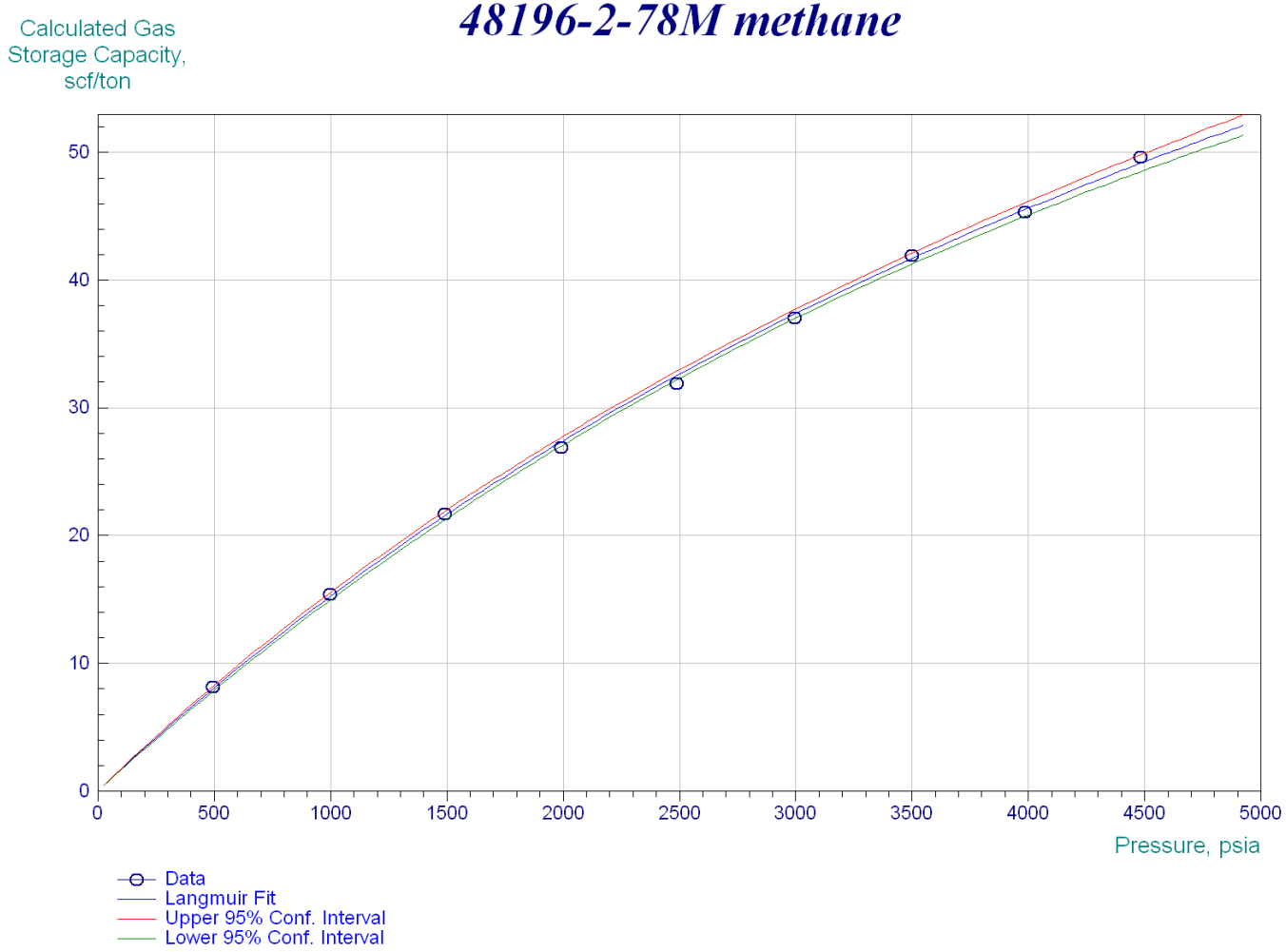
Sample 48196-2-78M Methane Adsorption Isotherm Parameters

Parameter	Unit	Value
Top Depth	ft	8,514.00
Bottom Depth	ft	8,514.10
Sample Parameters		
Measurement Gas	-	methane
Measurement Temperature	°F	199.9
Total Organic Carbon	wt frac	0.0372
Crushed Density	g/cm^3	2.476
Porosity	vol frac	0.0750
Gas Saturation	vol frac	0.2090
Quartz Content	wt frac	0.080
Clay Content	wt frac	0.160
Other Content	wt frac	0.760
Langmuir Parameters		
Number of Points	-	11
Regression Coefficient	-	0.9968
Langmuir Storage Capacity, Organic Fraction	scf/ton	3,645.35
Langmuir Storage Capacity, In-Situ	scf/ton	135.61
Langmuir Storage Capacity Range, In-Situ	scf/ton	1.59
Langmuir Pressure	psia	7,885.95
Langmuir Pressure Range	psia	271.09

Sample 48196-2-78M Methane Adsorption Isotherm Data

Pressure	Storage Capacity, in-situ
psia	scf/ton
496.11	8.14
998.54	15.41
1,493.33	21.68
1,992.81	26.92
2,487.38	31.94
2,996.16	37.02
3,499.85	41.89
3,983.77	45.32
4,480.96	49.61
3,983.77	45.32
4,480.96	49.61

48196-2-78M methane



Weatherford LABORATORIES

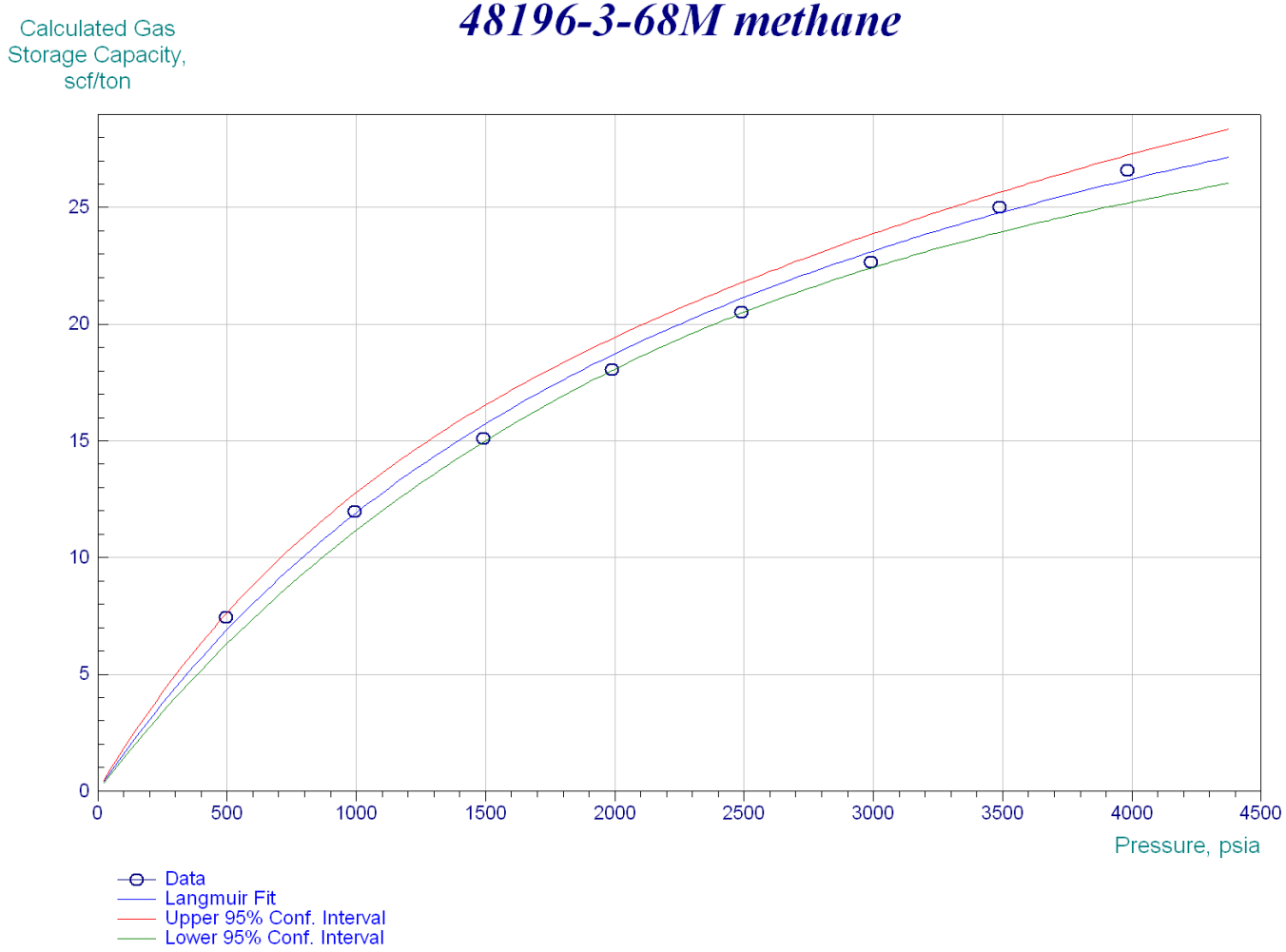
Sample 48196-3-68M Methane Adsorption Isotherm Parameters

Parameter	Unit	Value
Top Depth	ft	8,598.60
Bottom Depth	ft	8,598.65
Sample Parameters		
Measurement Gas	-	methane
Measurement Temperature	°F	199.9
Total Organic Carbon	wt frac	0.0169
Crushed Density	g/cm^3	2.483
Porosity	vol frac	0.0950
Gas Saturation	vol frac	0.4160
Quartz Content	wt frac	0.020
Clay Content	wt frac	0.040
Other Content	wt frac	0.940
Langmuir Parameters		
Number of Points	-	9
Regression Coefficient	-	0.9933
Langmuir Storage Capacity, Organic Fraction	scf/ton	2,583.93
Langmuir Storage Capacity, In-Situ	scf/ton	43.67
Langmuir Storage Capacity Range, In-Situ	scf/ton	0.69
Langmuir Pressure	psia	2,663.15
Langmuir Pressure Range	psia	303.19

Sample 48196-3-68M Methane Adsorption Isotherm Data

Pressure	Storage Capacity, in-situ
psia	scf/ton
494.01	7.45
992.88	11.96
1,489.40	15.10
1,987.93	18.05
2,489.33	20.51
2,988.95	22.65
3,486.39	25.03
3,982.22	26.59
3,982.22	26.59

48196-3-68M methane



Weatherford LABORATORIES

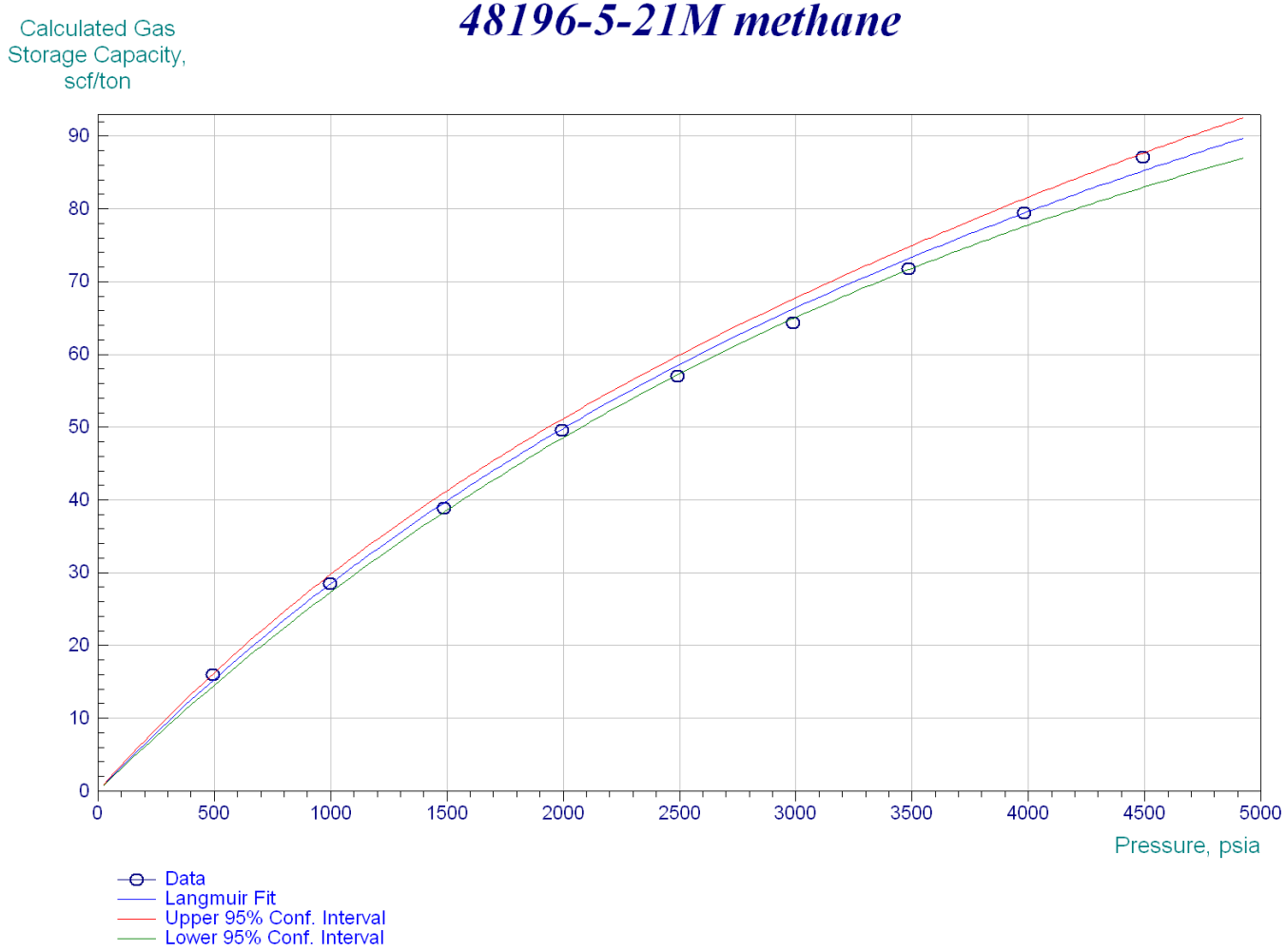
Sample 48196-5-21M Methane Adsorption Isotherm Parameters

Parameter	Unit	Value
Top Depth	ft	8,735.10
Bottom Depth	ft	8,735.20
Sample Parameters		
Measurement Gas	-	methane
Measurement Temperature	°F	199.9
Total Organic Carbon	wt frac	0.0767
Crushed Density	g/cm^3	2.429
Porosity	vol frac	0.0500
Gas Saturation	vol frac	0.0840
Quartz Content	wt frac	0.130
Clay Content	wt frac	0.210
Other Content	wt frac	0.660
Langmuir Parameters		
Number of Points	-	11
Regression Coefficient	-	0.9905
Langmuir Storage Capacity, Organic Fraction	scf/ton	2,581.38
Langmuir Storage Capacity, In-Situ	scf/ton	197.99
Langmuir Storage Capacity Range, In-Situ	scf/ton	3.93
Langmuir Pressure	psia	5,947.27
Langmuir Pressure Range	psia	423.94

Sample 48196-5-21M Methane Adsorption Isotherm Data

Pressure	Storage Capacity, in-situ
psia	scf/ton
493.01	16.00
996.69	28.57
1,489.07	38.88
1,993.55	49.54
2,489.89	57.07
2,987.38	64.30
3,484.01	71.73
3,980.96	79.38
4,489.36	87.03
3,980.96	79.38
4,489.36	87.03

48196-5-21M methane



Weatherford LABORATORIES