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Operator: yv
Submitter: ruby
File: C:\9500\DATA\000-156.SMP

LP Analysis Time: 11/12/2008 18:48:16
HP Analysis Time: 12/12/2008 0:12:10
Report Time: 12/12/2008 15:45:24

Sample Weight: 1.3800 g
Correction Type: Formula
Show Neg. Int: No

Summary Report

Penetrometer parameters

Penetrometer:	#s/n - (10) 5 Bulb, 1.131 Stem, Powder		
Pen. Constant:	22.065 $\mu\text{L/pF}$	Pen. Weight:	56.3800 g
Stem Volume:	1.1310 mL	Max. Head Pressure:	0.030682 MPa
Pen. Volume:	6.7600 mL	Assembly Weight:	129.3700 g

Hg Parameters

Adv. Contact Angle:	130.000 degrees	Rec. Contact Angle:	130.000 degrees
Hg Surface Tension:	485.000 dynes/cm	Hg Density:	13.5335 g/mL

User Parameters

Param 1:	0.000	Param 2:	0.000	Param 3:	0.000
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Low Pressure:

Evacuation Pressure:	100 μmHg
Evacuation Time:	5 mins
Mercury Filling Pressure:	0.0042 MPa
Equilibration Time:	20 secs

High Pressure:

Equilibration Time:	60 secs
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Blank Correction by Formula

(From Pressure 0.0007 to 413.6854 MPa)

Intrusion Data Summary

Total Intrusion Volume =	0.6715 mL/g
Total Pore Area =	50.118 m^2/g
Median Pore Diameter (Volume) =	0.1285 μm
Median Pore Diameter (Area) =	0.0205 μm
Average Pore Diameter (4V/A) =	0.0536 μm
Apparent (skeletal) Density =	2.5461 g/mL
Porosity =	63.0955 %
Stem Volume Used =	82 %



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Tabular Report

Pressure (MPa)	Pore Diameter (μm)	Cumulative Pore Volume (mL/g)	dV/dD Pore Volume (mL/g/ μm)	dV/dlogD Pore Volume (mL/g)
0.0042	299.2455	0.0000	0.000×10^0	0.000×10^0
0.0095	130.7710	0.0083	4.900×10^{-5}	2.296×10^{-2}
0.0111	111.9247	0.0092	5.197×10^{-5}	1.449×10^{-2}
0.0129	96.7625	0.0109	1.071×10^{-4}	2.568×10^{-2}
0.0148	84.0319	0.0128	1.561×10^{-4}	3.243×10^{-2}
0.0171	72.8092	0.0142	1.197×10^{-4}	2.158×10^{-2}
0.0198	62.8572	0.0180	3.796×10^{-4}	5.919×10^{-2}
0.0230	54.2115	0.0197	1.975×10^{-4}	2.656×10^{-2}
0.0267	46.7685	0.0210	1.842×10^{-4}	2.138×10^{-2}
0.0315	39.6093	0.0230	2.736×10^{-4}	2.715×10^{-2}
0.0367	34.0172	0.0247	2.953×10^{-4}	2.498×10^{-2}
0.0427	29.1790	0.0273	5.380×10^{-4}	3.906×10^{-2}
0.0497	25.0999	0.0297	5.900×10^{-4}	3.680×10^{-2}
0.0578	21.5654	0.0320	6.651×10^{-4}	3.566×10^{-2}
0.0677	18.4279	0.0358	1.204×10^{-3}	5.533×10^{-2}
0.0789	15.8021	0.0392	1.311×10^{-3}	5.156×10^{-2}
0.0921	13.5452	0.0417	1.091×10^{-3}	3.680×10^{-2}
0.1075	11.6028	0.0441	1.225×10^{-3}	3.539×10^{-2}
0.1253	9.9522	0.0468	1.679×10^{-3}	4.157×10^{-2}
0.1470	8.4806	0.0503	2.358×10^{-3}	4.994×10^{-2}
0.1716	7.2675	0.0535	2.607×10^{-3}	4.717×10^{-2}
0.2002	6.2299	0.0570	3.399×10^{-3}	5.271×10^{-2}
0.2454	5.0824	0.0602	2.825×10^{-3}	3.666×10^{-2}
0.3145	3.9656	0.0643	3.652×10^{-3}	3.784×10^{-2}
0.4080	3.0562	0.0716	8.010×10^{-3}	6.439×10^{-2}
0.5225	2.3866	0.0783	9.929×10^{-3}	6.190×10^{-2}
0.6667	1.8705	0.0807	4.756×10^{-3}	2.320×10^{-2}
0.8523	1.4631	0.0914	2.635×10^{-2}	1.006×10^{-1}
1.0886	1.1456	0.1073	4.985×10^{-2}	1.490×10^{-1}
1.3966	0.8929	0.1208	5.361×10^{-2}	1.252×10^{-1}
1.7813	0.7000	0.1343	6.971×10^{-2}	1.272×10^{-1}
2.2884	0.5449	0.1506	1.056×10^{-1}	1.505×10^{-1}
2.9113	0.4283	0.1694	1.613×10^{-1}	1.799×10^{-1}
3.7161	0.3356	0.1927	2.505×10^{-1}	2.192×10^{-1}



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Tabular Report

Pressure (MPa)	Pore Diameter (μm)	Cumulative Pore Volume (mL/g)	dV/dD Pore Volume (mL/g/ μm)	dV/dlogD Pore Volume (mL/g)
4.7461	0.2627	0.2221	4.036×10^{-1}	2.767×10^{-1}
6.0571	0.2059	0.2581	6.331×10^{-1}	3.399×10^{-1}
7.7357	0.1612	0.2978	8.894×10^{-1}	3.740×10^{-1}
9.8792	0.1262	0.3387	1.169×10^0	3.848×10^{-1}
12.6033	0.0989	0.3795	1.496×10^0	3.859×10^{-1}
16.0862	0.0775	0.4198	1.881×10^0	3.802×10^{-1}
20.5263	0.0608	0.4589	2.331×10^0	3.693×10^{-1}
26.1982	0.0476	0.4974	2.931×10^0	3.639×10^{-1}
33.4333	0.0373	0.5329	3.440×10^0	3.346×10^{-1}
42.6626	0.0292	0.5635	3.801×10^0	2.897×10^{-1}
54.4503	0.0229	0.5894	4.087×10^0	2.441×10^{-1}
69.4859	0.0179	0.6113	4.421×10^0	2.069×10^{-1}
88.6870	0.0141	0.6293	4.620×10^0	1.694×10^{-1}
113.1752	0.0110	0.6444	4.971×10^0	1.428×10^{-1}
144.4292	0.0086	0.6565	5.095×10^0	1.147×10^{-1}
184.3277	0.0068	0.6661	5.122×10^0	9.036×10^{-2}
219.9814	0.0057	0.6715	4.914×10^0	7.016×10^{-2}
187.0229	0.0067	0.6690	2.470×10^0	3.501×10^{-2}
147.7382	0.0084	0.6690	0.000×10^0	0.000×10^0
116.6583	0.0107	0.6690	0.000×10^0	0.000×10^0
92.1054	0.0135	0.6690	0.000×10^0	0.000×10^0
72.7135	0.0171	0.6682	2.212×10^{-1}	7.779×10^{-3}
57.4058	0.0217	0.6656	5.683×10^{-1}	2.532×10^{-2}
45.3223	0.0275	0.6616	7.047×10^{-1}	3.976×10^{-2}
35.8109	0.0348	0.6553	8.494×10^{-1}	6.068×10^{-2}
28.2931	0.0441	0.6472	8.840×10^{-1}	7.993×10^{-2}
22.3086	0.0559	0.6369	8.667×10^{-1}	9.929×10^{-2}
17.6423	0.0707	0.6245	8.427×10^{-1}	1.222×10^{-1}
13.8988	0.0897	0.6105	7.340×10^{-1}	1.349×10^{-1}
10.9131	0.1143	0.5945	6.498×10^{-1}	1.519×10^{-1}
8.6200	0.1447	0.5777	5.533×10^{-1}	1.642×10^{-1}
6.8525	0.1820	0.5611	4.458×10^{-1}	1.669×10^{-1}
5.4139	0.2303	0.5459	3.143×10^{-1}	1.485×10^{-1}
4.2774	0.2915	0.5314	2.363×10^{-1}	1.413×10^{-1}



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Tabular Report

Pressure (MPa)	Pore Diameter (μm)	Cumulative Pore Volume (mL/g)	dV/dD Pore Volume (mL/g/ μm)	dV/dlogD Pore Volume (mL/g)
3.3746	0.3695	0.5178	1.753×10^{-1}	1.328×10^{-1}
2.6690	0.4672	0.5052	1.289×10^{-1}	1.236×10^{-1}
2.1098	0.5910	0.4931	9.715×10^{-2}	1.178×10^{-1}
1.6680	0.7476	0.4818	7.215×10^{-2}	1.107×10^{-1}
1.3151	0.9482	0.4710	5.412×10^{-2}	1.052×10^{-1}
1.0415	1.1973	0.4603	4.272×10^{-2}	1.050×10^{-1}
0.8257	1.5103	0.4500	3.317×10^{-2}	1.029×10^{-1}
0.6554	1.9028	0.4396	2.646×10^{-2}	1.035×10^{-1}
0.5182	2.4066	0.4295	1.993×10^{-2}	9.843×10^{-2}
0.4111	3.0332	0.4203	1.478×10^{-2}	9.213×10^{-2}
0.3242	3.8464	0.4122	9.978×10^{-3}	7.866×10^{-2}
0.2568	4.8551	0.4043	7.822×10^{-3}	7.800×10^{-2}
0.3088	4.0381	0.4043	0.000×10^0	0.000×10^0
0.3887	3.2085	0.4043	0.000×10^0	0.000×10^0
0.4953	2.5178	0.4043	0.000×10^0	0.000×10^0
0.6350	1.9639	0.4043	0.000×10^0	0.000×10^0
0.8040	1.5509	0.4050	1.625×10^{-3}	6.547×10^{-3}
1.0176	1.2254	0.4060	3.192×10^{-3}	1.015×10^{-2}
1.2972	0.9613	0.4076	6.087×10^{-3}	1.525×10^{-2}
1.6426	0.7592	0.4101	1.209×10^{-2}	2.383×10^{-2}
2.0850	0.5981	0.4138	2.311×10^{-2}	3.594×10^{-2}
2.6444	0.4716	0.4192	4.267×10^{-2}	5.230×10^{-2}
3.3511	0.3721	0.4266	7.456×10^{-2}	7.208×10^{-2}
4.2548	0.2931	0.4360	1.181×10^{-1}	9.001×10^{-2}
5.3882	0.2314	0.4468	1.753×10^{-1}	1.053×10^{-1}
6.8202	0.1828	0.4588	2.475×10^{-1}	1.175×10^{-1}
8.6533	0.1441	0.4723	3.487×10^{-1}	1.306×10^{-1}
10.9603	0.1138	0.4876	5.046×10^{-1}	1.491×10^{-1}
13.8868	0.0898	0.5051	7.291×10^{-1}	1.701×10^{-1}
17.5871	0.0709	0.5246	1.033×10^0	1.903×10^{-1}
22.2812	0.0560	0.5466	1.473×10^0	2.142×10^{-1}
28.2293	0.0442	0.5698	1.963×10^0	2.252×10^{-1}
35.7508	0.0349	0.5918	2.376×10^0	2.153×10^{-1}
45.2873	0.0275	0.6119	2.734×10^0	1.956×10^{-1}



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57.3720	0.0217	0.6294	3.006×10^0	1.697×10^{-1}
72.6621	0.0172	0.6429	2.955×10^0	1.317×10^{-1}
92.0545	0.0135	0.6520	2.523×10^0	8.879×10^{-2}
116.6067	0.0107	0.6578	2.030×10^0	5.640×10^{-2}
147.7096	0.0084	0.6592	6.346×10^{-1}	1.392×10^{-2}
187.1242	0.0067	0.6625	1.870×10^0	3.237×10^{-2}
219.9785	0.0057	0.6635	1.002×10^0	1.420×10^{-2}



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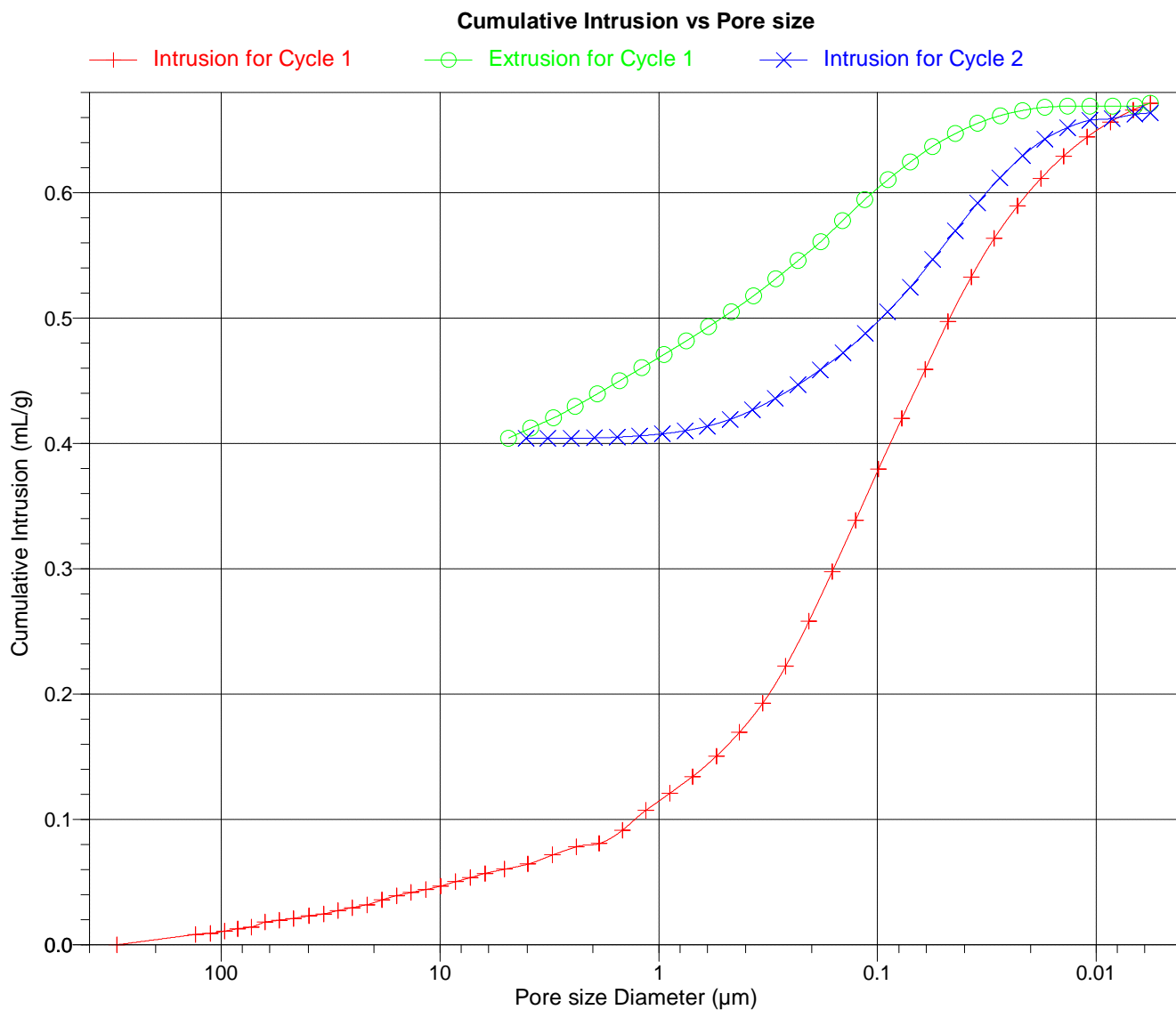
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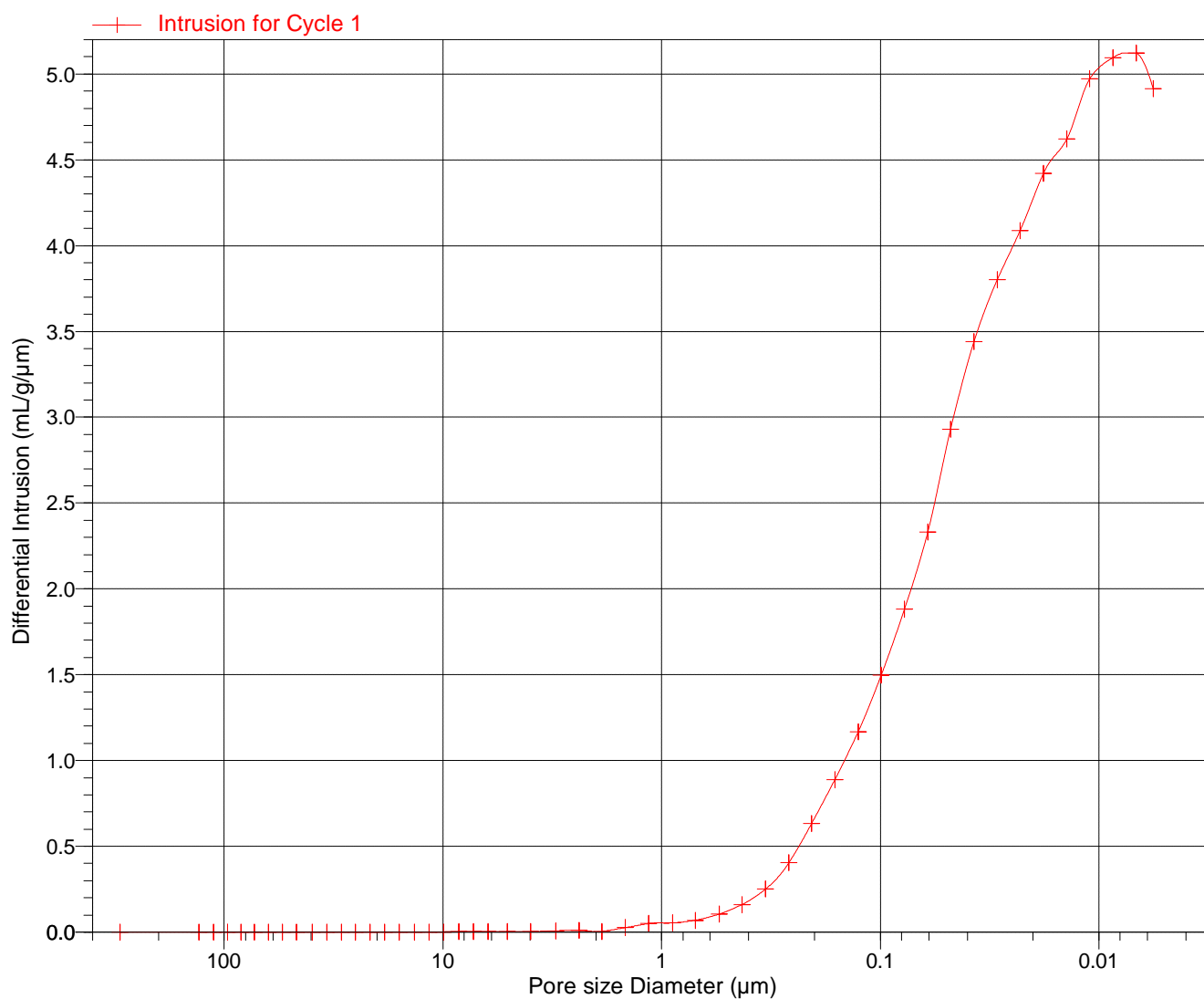
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Differential Intrusion vs Pore size





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Log Differential Intrusion vs Pore size

