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Operator: yv
Submitter: ruby
File: C:\9500\DATA\000-150.SMP

LP Analysis Time: 06/12/2008 9:45:33
HP Analysis Time: 07/12/2008 17:32:43
Report Time: 12/12/2008 15:51:03

Sample Weight: 3.0900 g
Correction Type: Formula
Show Neg. Int: No

Summary Report

Penetrometer parameters

Penetrometer:	#s/n - (09) 5 Bulb, 1.131 Stem, Solid		
Pen. Constant:	22.065 $\mu\text{L/pF}$	Pen. Weight:	56.0400 g
Stem Volume:	1.1310 mL	Max. Head Pressure:	0.030682 MPa
Pen. Volume:	6.8500 mL	Assembly Weight:	132.8800 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:	0.0040 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 =	0.0505 mL/g
Total Pore Area =	0.840 m^2/g
Median Pore Diameter (Volume) =	0.4183 μm
Median Pore Diameter (Area) =	0.1431 μm
Average Pore Diameter (4V/A) =	0.2408 μm
Apparent (skeletal) Density =	2.4832 g/mL
Porosity =	11.1515 %
Stem Volume Used =	15 % ****



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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)
0.0040	309.2055	0.0000	0.000×10^0	0.000×10^0
0.0095	131.7970	0.0013	7.269×10^{-6}	3.482×10^{-3}
0.0110	113.6271	0.0014	6.891×10^{-6}	1.943×10^{-3}
0.0127	98.2000	0.0017	1.785×10^{-5}	4.347×10^{-3}
0.0147	85.0969	0.0019	1.529×10^{-5}	3.221×10^{-3}
0.0170	73.4658	0.0021	1.507×10^{-5}	2.746×10^{-3}
0.0197	63.2352	0.0023	2.080×10^{-5}	3.268×10^{-3}
0.0229	54.4964	0.0024	1.863×10^{-5}	2.520×10^{-3}
0.0266	46.8489	0.0026	2.456×10^{-5}	2.860×10^{-3}
0.0314	39.7595	0.0029	4.062×10^{-5}	4.041×10^{-3}
0.0366	34.1069	0.0031	3.987×10^{-5}	3.384×10^{-3}
0.0425	29.3384	0.0033	2.363×10^{-5}	1.723×10^{-3}
0.0495	25.1745	0.0035	6.615×10^{-5}	4.144×10^{-3}
0.0578	21.5666	0.0037	5.206×10^{-5}	2.796×10^{-3}
0.0674	18.4903	0.0039	5.291×10^{-5}	2.435×10^{-3}
0.0788	15.8281	0.0040	5.644×10^{-5}	2.225×10^{-3}
0.0919	13.5625	0.0042	7.184×10^{-5}	2.426×10^{-3}
0.1074	11.6086	0.0044	8.330×10^{-5}	2.409×10^{-3}
0.1253	9.9547	0.0045	1.060×10^{-4}	2.626×10^{-3}
0.1469	8.4896	0.0047	1.196×10^{-4}	2.535×10^{-3}
0.1715	7.2724	0.0049	1.234×10^{-4}	2.236×10^{-3}
0.1999	6.2373	0.0050	1.451×10^{-4}	2.253×10^{-3}
0.2480	5.0273	0.0052	1.797×10^{-4}	2.322×10^{-3}
0.3180	3.9217	0.0054	1.395×10^{-4}	1.430×10^{-3}
0.4032	3.0931	0.0055	1.829×10^{-4}	1.470×10^{-3}
0.5220	2.3890	0.0057	2.801×10^{-4}	1.758×10^{-3}
0.6692	1.8634	0.0061	6.369×10^{-4}	3.102×10^{-3}
0.8521	1.4634	0.0066	1.382×10^{-3}	5.266×10^{-3}
1.0876	1.1466	0.0076	3.118×10^{-3}	9.322×10^{-3}
1.3931	0.8951	0.0096	7.879×10^{-3}	1.843×10^{-2}
1.7879	0.6975	0.0126	1.518×10^{-2}	2.769×10^{-2}
2.2782	0.5474	0.0179	3.552×10^{-2}	5.065×10^{-2}
2.9126	0.4281	0.0246	5.606×10^{-2}	6.265×10^{-2}
3.7192	0.3353	0.0307	6.534×10^{-2}	5.715×10^{-2}



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Tabular Report

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4.7480	0.2626	0.0363	7.805×10^{-2}	5.346×10^{-2}
6.0576	0.2059	0.0406	7.494×10^{-2}	4.022×10^{-2}
7.7355	0.1612	0.0434	6.390×10^{-2}	2.687×10^{-2}
9.8739	0.1263	0.0454	5.487×10^{-2}	1.807×10^{-2}
12.6039	0.0989	0.0467	4.777×10^{-2}	1.233×10^{-2}
16.0869	0.0775	0.0477	4.602×10^{-2}	9.302×10^{-3}
20.5286	0.0607	0.0484	4.486×10^{-2}	7.105×10^{-3}
26.2126	0.0476	0.0490	4.674×10^{-2}	5.800×10^{-3}
33.4361	0.0373	0.0495	5.126×10^{-2}	4.984×10^{-3}
42.6721	0.0292	0.0500	5.344×10^{-2}	4.072×10^{-3}
54.4538	0.0229	0.0502	3.721×10^{-2}	2.222×10^{-3}
69.4895	0.0179	0.0503	2.557×10^{-2}	1.197×10^{-3}
88.6801	0.0141	0.0505	5.021×10^{-2}	1.841×10^{-3}
113.1743	0.0110	0.0505	0.000×10^0	0.000×10^0
144.4246	0.0086	0.0505	0.000×10^0	0.000×10^0
184.3298	0.0068	0.0505	0.000×10^0	0.000×10^0
219.9797	0.0057	0.0505	0.000×10^0	0.000×10^0
187.0227	0.0067	0.0491	1.465×10^0	2.077×10^{-2}
147.7504	0.0084	0.0491	0.000×10^0	0.000×10^0
116.6279	0.0107	0.0491	0.000×10^0	0.000×10^0
92.0969	0.0135	0.0491	0.000×10^0	0.000×10^0
72.7134	0.0171	0.0491	0.000×10^0	0.000×10^0
57.4167	0.0217	0.0491	0.000×10^0	0.000×10^0
45.3205	0.0275	0.0491	0.000×10^0	0.000×10^0
35.7590	0.0349	0.0491	0.000×10^0	0.000×10^0
28.2288	0.0442	0.0491	0.000×10^0	0.000×10^0
22.3095	0.0559	0.0491	0.000×10^0	0.000×10^0
17.6130	0.0708	0.0491	0.000×10^0	0.000×10^0
13.9175	0.0896	0.0491	0.000×10^0	0.000×10^0
10.9818	0.1136	0.0491	0.000×10^0	0.000×10^0
8.6732	0.1438	0.0491	0.000×10^0	0.000×10^0
6.8507	0.1820	0.0491	0.000×10^0	0.000×10^0
5.4118	0.2304	0.0491	0.000×10^0	0.000×10^0
4.2757	0.2916	0.0491	0.000×10^0	0.000×10^0



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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)
3.3768	0.3693	0.0491	0.000×10^0	0.000×10^0
2.6517	0.4703	0.0491	0.000×10^0	0.000×10^0
2.1093	0.5912	0.0484	5.281×10^{-3}	6.425×10^{-3}
1.6613	0.7506	0.0473	6.858×10^{-3}	1.054×10^{-2}
1.3202	0.9445	0.0461	6.572×10^{-3}	1.277×10^{-2}
1.0410	1.1979	0.0447	5.614×10^{-3}	1.378×10^{-2}
0.8260	1.5097	0.0432	4.723×10^{-3}	1.466×10^{-2}
0.6488	1.9221	0.0419	3.222×10^{-3}	1.267×10^{-2}
0.5206	2.3952	0.0408	2.230×10^{-3}	1.104×10^{-2}
0.4071	3.0629	0.0401	1.089×10^{-3}	6.810×10^{-3}
0.3228	3.8626	0.0396	5.715×10^{-4}	4.537×10^{-3}
0.2592	4.8119	0.0392	4.087×10^{-4}	4.065×10^{-3}
0.3105	4.0158	0.0393	0.000×10^0	0.000×10^0
0.3937	3.1670	0.0393	0.000×10^0	0.000×10^0
0.4980	2.5038	0.0393	0.000×10^0	0.000×10^0
0.6321	1.9728	0.0394	2.028×10^{-4}	1.040×10^{-3}
0.8069	1.5455	0.0396	4.466×10^{-4}	1.800×10^{-3}
1.0247	1.2169	0.0400	1.067×10^{-3}	3.378×10^{-3}
1.2982	0.9606	0.0407	2.664×10^{-3}	6.647×10^{-3}
1.6484	0.7565	0.0416	4.546×10^{-3}	8.944×10^{-3}
2.0870	0.5975	0.0428	7.818×10^{-3}	1.213×10^{-2}
2.6479	0.4709	0.0443	1.185×10^{-2}	1.451×10^{-2}
3.3521	0.3720	0.0460	1.704×10^{-2}	1.646×10^{-2}
4.2593	0.2928	0.0476	1.999×10^{-2}	1.523×10^{-2}
5.3868	0.2315	0.0489	2.120×10^{-2}	1.274×10^{-2}
6.8356	0.1824	0.0499	2.062×10^{-2}	9.779×10^{-3}
8.6480	0.1442	0.0506	1.817×10^{-2}	6.802×10^{-3}
10.9600	0.1138	0.0511	1.618×10^{-2}	4.784×10^{-3}
13.8848	0.0898	0.0514	1.393×10^{-2}	3.251×10^{-3}
17.5885	0.0709	0.0517	1.185×10^{-2}	2.182×10^{-3}
22.2813	0.0560	0.0518	7.770×10^{-3}	1.130×10^{-3}
28.2280	0.0442	0.0518	0.000×10^0	0.000×10^0
35.7456	0.0349	0.0518	0.000×10^0	0.000×10^0
45.2872	0.0275	0.0518	0.000×10^0	0.000×10^0



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57.3642	0.0217	0.0518	0.000×10^0	0.000×10^0
72.6712	0.0172	0.0518	0.000×10^0	0.000×10^0
92.0515	0.0135	0.0518	0.000×10^0	0.000×10^0
116.6073	0.0107	0.0518	0.000×10^0	0.000×10^0
147.7020	0.0084	0.0518	0.000×10^0	0.000×10^0
187.1216	0.0067	0.0518	0.000×10^0	0.000×10^0
219.9798	0.0057	0.0518	0.000×10^0	0.000×10^0



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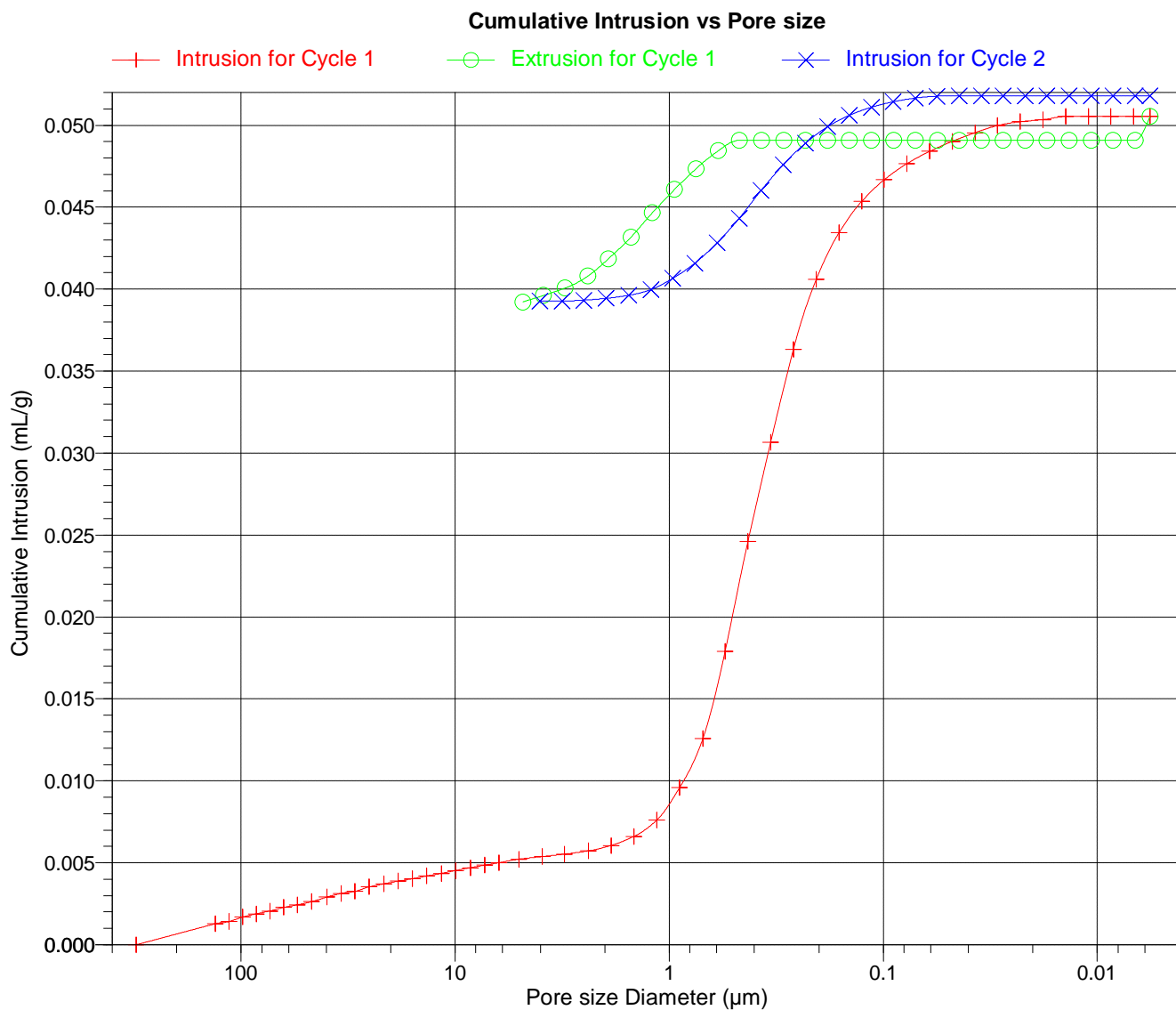
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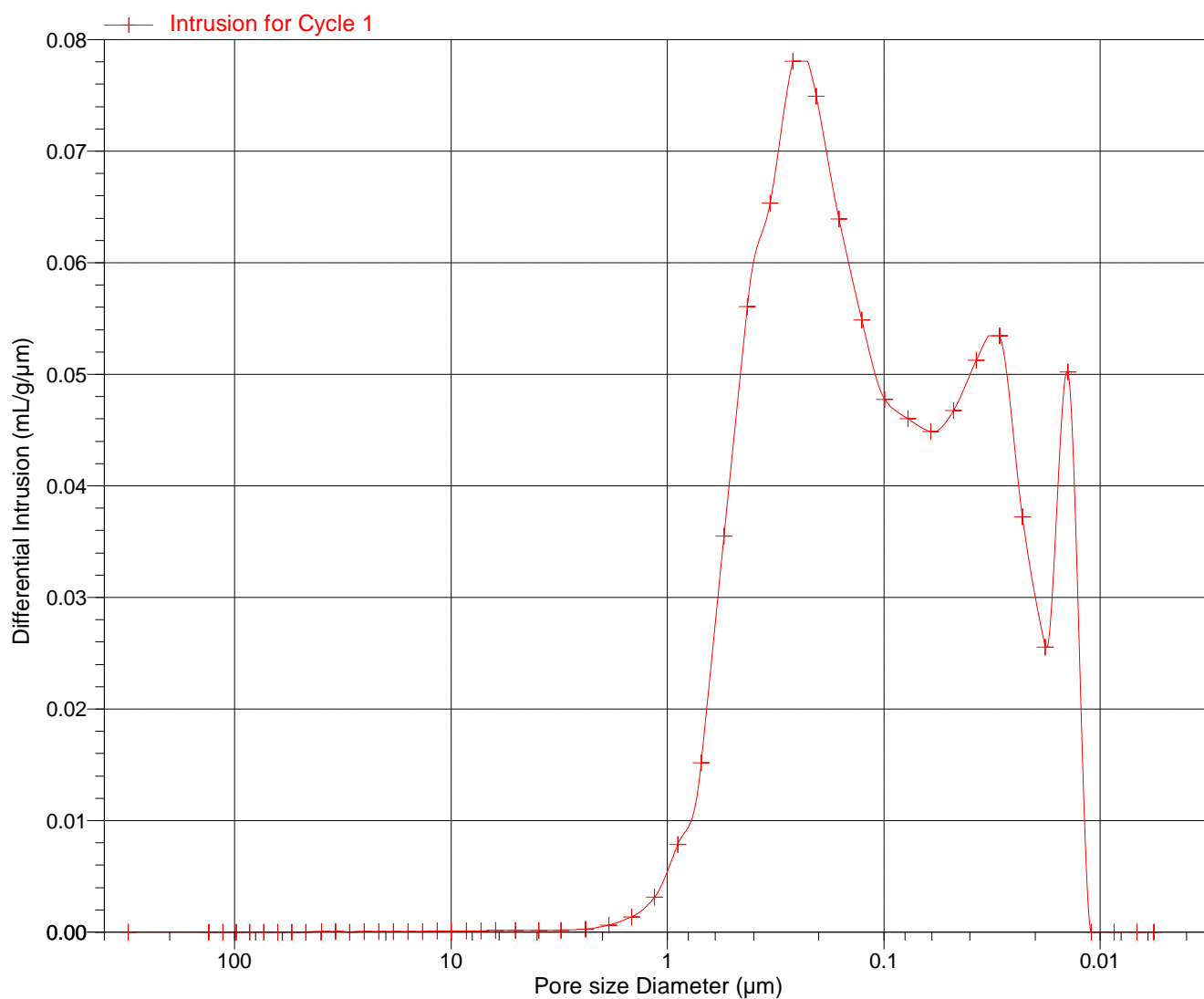
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Differential Intrusion vs Pore size





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Log Differential Intrusion vs Pore size

