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Page 1

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Operator: ruby
Submitter: yves
File: C:\9500\DATA\000-143.SMP

LP Analysis Time: 29/11/2008 9:41:05
HP Analysis Time: 29/11/2008 21:30:22
Report Time: 12/12/2008 15:54:39

Sample Weight: 1.0300 g
Correction Type: None
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:	57.2300 g
Stem Volume:	1.1310 mL	Max. Head Pressure:	0.030682 MPa
Pen. Volume:	6.9000 mL	Assembly Weight:	138.8800 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:	0.0043 MPa
Equilibration Time:	20 secs

High Pressure:

Equilibration Time:	60 secs
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No Blank Correction

(From Pressure 0.0007 to 413.6854 MPa)

Intrusion Data Summary

Total Intrusion Volume =	0.3698 mL/g
Total Pore Area =	12.574 m^2/g
Median Pore Diameter (Volume) =	0.4270 μm
Median Pore Diameter (Area) =	0.0275 μm
Average Pore Diameter (4V/A) =	0.1176 μm
Apparent (skeletal) Density =	1.8326 g/mL
Porosity =	40.3953 %
Stem Volume Used =	34 %



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Page 2

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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)
0.0043	292.7350	0.0000	0.000×10^0	0.000×10^0
0.0090	138.3957	0.0053	3.426×10^{-5}	1.625×10^{-2}
0.0111	112.1269	0.0063	3.711×10^{-5}	1.066×10^{-2}
0.0130	96.2123	0.0072	5.890×10^{-5}	1.410×10^{-2}
0.0150	83.3857	0.0081	6.724×10^{-5}	1.388×10^{-2}
0.0172	72.3235	0.0090	8.474×10^{-5}	1.517×10^{-2}
0.0199	62.5684	0.0109	1.999×10^{-4}	3.099×10^{-2}
0.0231	53.9927	0.0128	2.142×10^{-4}	2.870×10^{-2}
0.0267	46.6298	0.0152	3.310×10^{-4}	3.828×10^{-2}
0.0311	40.0769	0.0174	3.262×10^{-4}	3.250×10^{-2}
0.0366	34.0660	0.0190	2.682×10^{-4}	2.285×10^{-2}
0.0428	29.1596	0.0360	3.477×10^{-3}	2.526×10^{-1}
0.0498	25.0498	0.0380	4.744×10^{-4}	2.955×10^{-2}
0.0579	21.5400	0.0403	6.730×10^{-4}	3.603×10^{-2}
0.0675	18.4825	0.0423	6.254×10^{-4}	2.876×10^{-2}
0.0789	15.8113	0.0449	9.826×10^{-4}	3.872×10^{-2}
0.0919	13.5620	0.0511	2.751×10^{-3}	9.283×10^{-2}
0.1074	11.6154	0.0538	1.406×10^{-3}	4.068×10^{-2}
0.1253	9.9504	0.0598	3.626×10^{-3}	8.984×10^{-2}
0.1471	8.4747	0.0631	2.211×10^{-3}	4.679×10^{-2}
0.1717	7.2634	0.0700	5.665×10^{-3}	1.024×10^{-1}
0.2002	6.2296	0.0731	3.047×10^{-3}	4.723×10^{-2}
0.2425	5.1431	0.0753	2.055×10^{-3}	2.682×10^{-2}
0.3170	3.9339	0.0807	4.388×10^{-3}	4.558×10^{-2}
0.4054	3.0758	0.0873	7.771×10^{-3}	6.240×10^{-2}
0.5208	2.3943	0.0960	1.271×10^{-2}	7.961×10^{-2}
0.6652	1.8746	0.1030	1.351×10^{-2}	6.605×10^{-2}
0.8559	1.4570	0.1110	1.913×10^{-2}	7.299×10^{-2}
1.0912	1.1428	0.1199	2.831×10^{-2}	8.432×10^{-2}
1.3933	0.8950	0.1311	4.509×10^{-2}	1.053×10^{-1}
1.7906	0.6964	0.1459	7.462×10^{-2}	1.360×10^{-1}
2.2793	0.5471	0.1633	1.167×10^{-1}	1.663×10^{-1}
2.9087	0.4287	0.1845	1.792×10^{-1}	2.004×10^{-1}
3.7168	0.3355	0.2091	2.634×10^{-1}	2.306×10^{-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)
4.7487	0.2626	0.2345	3.488×10^{-1}	2.390×10^{-1}
6.0571	0.2059	0.2572	4.006×10^{-1}	2.150×10^{-1}
7.7352	0.1612	0.2763	4.278×10^{-1}	1.799×10^{-1}
9.8730	0.1263	0.2908	4.135×10^{-1}	1.362×10^{-1}
12.6042	0.0989	0.3022	4.192×10^{-1}	1.082×10^{-1}
16.0869	0.0775	0.3128	4.916×10^{-1}	9.937×10^{-2}
20.5255	0.0608	0.3213	5.095×10^{-1}	8.071×10^{-2}
26.1979	0.0476	0.3301	6.671×10^{-1}	8.281×10^{-2}
33.4318	0.0373	0.3380	7.632×10^{-1}	7.423×10^{-2}
42.6659	0.0292	0.3459	9.802×10^{-1}	7.470×10^{-2}
54.4517	0.0229	0.3521	9.859×10^{-1}	5.888×10^{-2}
69.4917	0.0179	0.3570	9.904×10^{-1}	4.634×10^{-2}
88.6765	0.0141	0.3616	1.183×10^0	4.339×10^{-2}
113.1764	0.0110	0.3644	9.310×10^{-1}	2.675×10^{-2}
144.4240	0.0086	0.3671	1.114×10^0	2.507×10^{-2}
184.3281	0.0068	0.3691	1.084×10^0	1.912×10^{-2}
219.9782	0.0057	0.3698	6.253×10^{-1}	8.928×10^{-3}
187.0308	0.0067	0.3717	-1.858×10^0	-2.634×10^{-2}
147.7377	0.0084	0.3717	0.000×10^0	0.000×10^0
116.6572	0.0107	0.3717	0.000×10^0	0.000×10^0
92.0949	0.0135	0.3717	0.000×10^0	0.000×10^0
72.7186	0.0171	0.3717	0.000×10^0	0.000×10^0
57.4157	0.0217	0.3717	0.000×10^0	0.000×10^0
45.2996	0.0275	0.3717	0.000×10^0	0.000×10^0
35.7550	0.0349	0.3717	0.000×10^0	0.000×10^0
28.2457	0.0441	0.3717	0.000×10^0	0.000×10^0
22.2888	0.0559	0.3717	0.000×10^0	0.000×10^0
17.6290	0.0707	0.3697	1.345×10^{-1}	1.953×10^{-2}
13.9026	0.0897	0.3666	1.638×10^{-1}	3.012×10^{-2}
10.9056	0.1143	0.3624	1.672×10^{-1}	3.909×10^{-2}
8.6345	0.1444	0.3575	1.630×10^{-1}	4.834×10^{-2}
6.8626	0.1817	0.3522	1.428×10^{-1}	5.338×10^{-2}
5.4114	0.2304	0.3466	1.148×10^{-1}	5.424×10^{-2}
4.2770	0.2916	0.3411	9.063×10^{-2}	5.422×10^{-2}



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Page 4

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3.3766	0.3693	0.3355	7.178×10^{-2}	5.436×10^{-2}
2.6753	0.4661	0.3297	5.994×10^{-2}	5.739×10^{-2}
2.1145	0.5898	0.3235	4.992×10^{-2}	6.040×10^{-2}
1.6718	0.7459	0.3168	4.302×10^{-2}	6.585×10^{-2}
1.3187	0.9456	0.3095	3.666×10^{-2}	7.105×10^{-2}
1.0442	1.1943	0.3013	3.303×10^{-2}	8.100×10^{-2}
0.8275	1.5069	0.2925	2.795×10^{-2}	8.653×10^{-2}
0.6516	1.9138	0.2832	2.296×10^{-2}	9.000×10^{-2}
0.5151	2.4210	0.2739	1.834×10^{-2}	9.109×10^{-2}
0.4112	3.0329	0.2648	1.489×10^{-2}	9.311×10^{-2}
0.3215	3.8782	0.2569	9.315×10^{-3}	7.375×10^{-2}
0.2580	4.8332	0.2497	7.572×10^{-3}	7.564×10^{-2}
0.3119	3.9986	0.2494	-3.218×10^{-4}	-3.263×10^{-3}
0.3912	3.1874	0.2495	1.611×10^{-4}	1.328×10^{-3}
0.4988	2.5002	0.2498	3.262×10^{-4}	2.126×10^{-3}
0.6335	1.9684	0.2504	1.132×10^{-3}	5.794×10^{-3}
0.8020	1.5550	0.2512	2.110×10^{-3}	8.521×10^{-3}
1.0203	1.2222	0.2529	4.904×10^{-3}	1.560×10^{-2}
1.2914	0.9656	0.2557	1.119×10^{-2}	2.805×10^{-2}
1.6464	0.7574	0.2604	2.215×10^{-2}	4.373×10^{-2}
2.0899	0.5967	0.2670	4.143×10^{-2}	6.428×10^{-2}
2.6508	0.4704	0.2758	6.922×10^{-2}	8.464×10^{-2}
3.3523	0.3720	0.2859	1.028×10^{-1}	9.923×10^{-2}
4.2510	0.2933	0.2966	1.364×10^{-1}	1.040×10^{-1}
5.3858	0.2315	0.3065	1.598×10^{-1}	9.613×10^{-2}
6.8313	0.1825	0.3150	1.735×10^{-1}	8.235×10^{-2}
8.6517	0.1441	0.3221	1.852×10^{-1}	6.934×10^{-2}
10.9625	0.1138	0.3281	1.994×10^{-1}	5.892×10^{-2}
13.8860	0.0898	0.3335	2.256×10^{-1}	5.262×10^{-2}
17.5846	0.0709	0.3384	2.583×10^{-1}	4.757×10^{-2}
22.2796	0.0560	0.3432	3.183×10^{-1}	4.628×10^{-2}
28.2114	0.0442	0.3480	4.062×10^{-1}	4.663×10^{-2}
35.7548	0.0349	0.3528	5.216×10^{-1}	4.727×10^{-2}
45.2937	0.0275	0.3574	6.217×10^{-1}	4.446×10^{-2}



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57.3663	0.0217	0.3614	6.906×10^{-1}	3.899×10^{-2}
72.6679	0.0172	0.3645	6.778×10^{-1}	3.021×10^{-2}
92.0513	0.0135	0.3667	6.059×10^{-1}	2.132×10^{-2}
116.6163	0.0107	0.3682	5.337×10^{-1}	1.483×10^{-2}
147.7131	0.0084	0.3691	4.041×10^{-1}	8.861×10^{-3}
187.1214	0.0067	0.3691	0.000×10^0	0.000×10^0
219.9812	0.0057	0.3694	2.460×10^{-1}	3.485×10^{-3}



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Page 6

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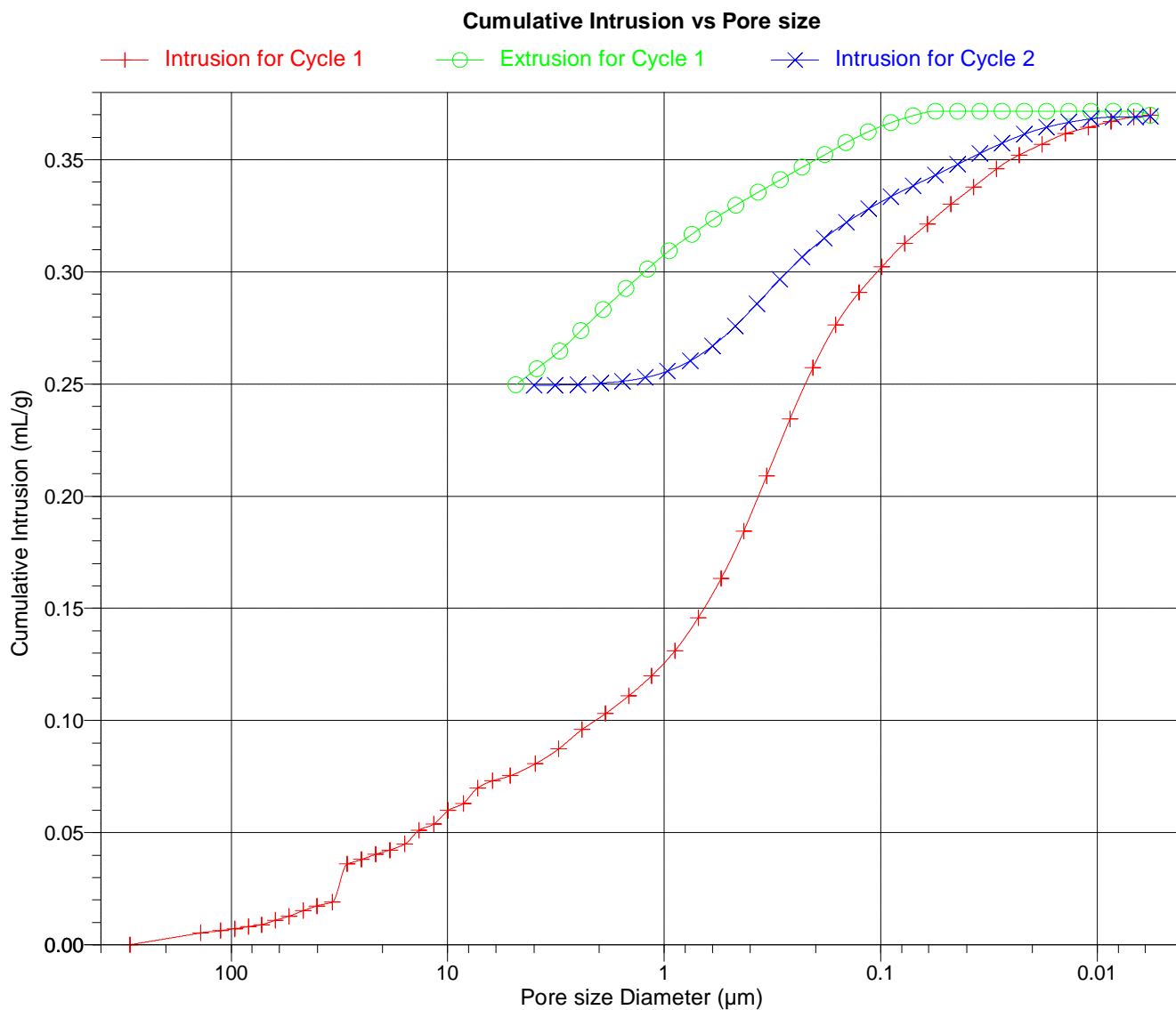
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Port: 1/1

Page 7

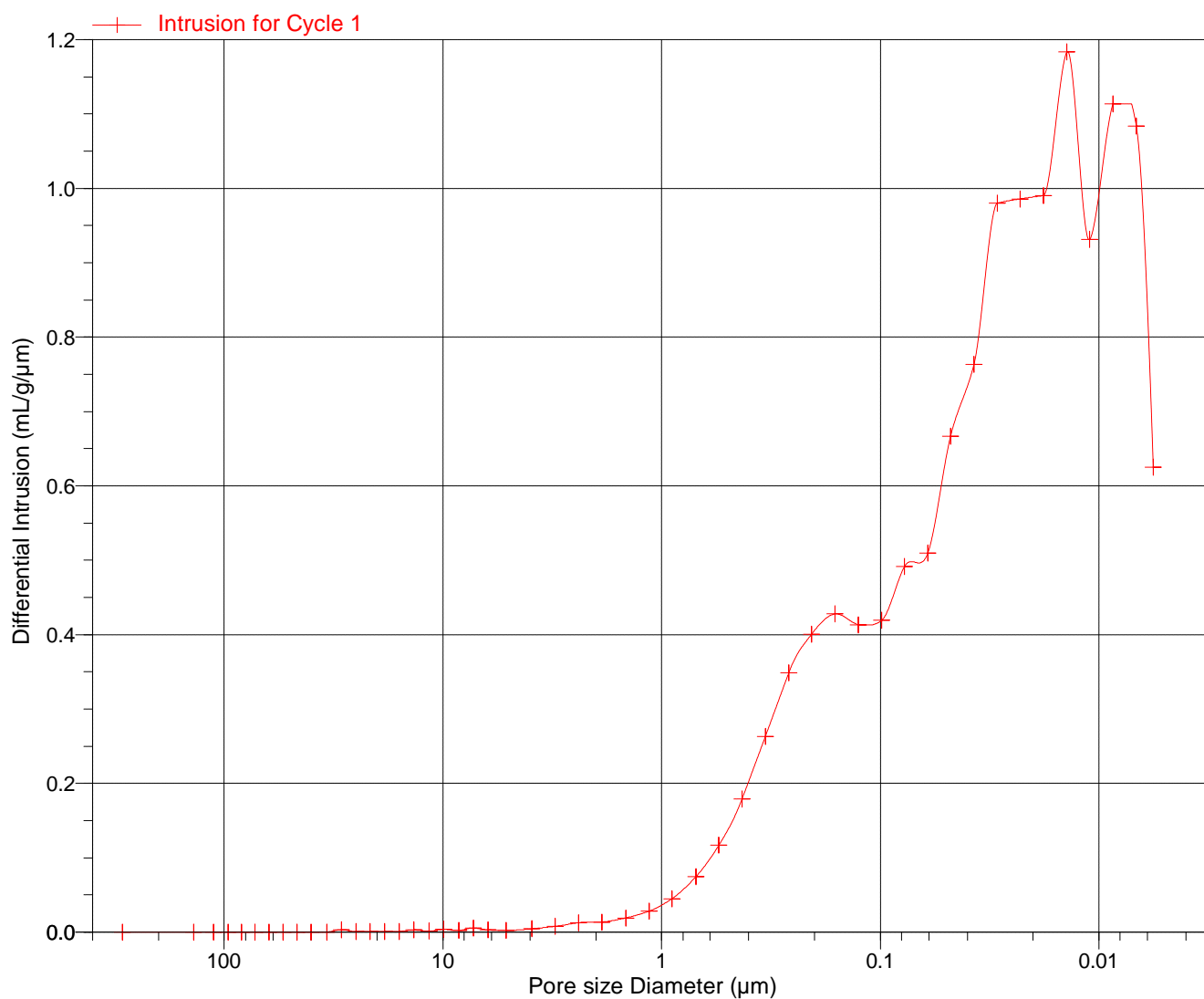
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Differential Intrusion vs Pore size





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Log Differential Intrusion vs Pore size

