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Operator: ruby
Submitter: yves
File: C:\9500\DATA\000-144.SMP

LP Analysis Time: 29/11/2008 9:41:05
HP Analysis Time: 01/12/2008 18:12:07
Report Time: 12/12/2008 15:53:47

Sample Weight: 1.0500 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:	60.8300 g
Stem Volume:	1.1310 mL	Max. Head Pressure:	0.030682 MPa
Pen. Volume:	6.8500 mL	Assembly Weight:	144.0800 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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Blank Correction by Formula

(From Pressure 0.0007 to 413.6854 MPa)

Intrusion Data Summary

Total Intrusion Volume =	0.2624 mL/g
Total Pore Area =	3.703 m^2/g
Median Pore Diameter (Volume) =	1.1131 μm
Median Pore Diameter (Area) =	0.0562 μm
Average Pore Diameter (4V/A) =	0.2835 μm
Apparent (skeletal) Density =	2.0974 g/mL
Porosity =	35.5022 %
Stem Volume Used =	25 %



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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	0.0064	4.178×10^{-5}	1.982×10^{-2}
0.0111	112.1269	0.0078	5.190×10^{-5}	1.491×10^{-2}
0.0130	96.2123	0.0088	6.483×10^{-5}	1.552×10^{-2}
0.0150	83.3857	0.0118	2.327×10^{-4}	4.803×10^{-2}
0.0172	72.3235	0.0133	1.332×10^{-4}	2.384×10^{-2}
0.0199	62.5684	0.0162	3.022×10^{-4}	4.684×10^{-2}
0.0231	53.9927	0.0185	2.578×10^{-4}	3.453×10^{-2}
0.0267	46.6298	0.0211	3.653×10^{-4}	4.224×10^{-2}
0.0311	40.0769	0.0234	3.486×10^{-4}	3.473×10^{-2}
0.0366	34.0660	0.0256	3.678×10^{-4}	3.133×10^{-2}
0.0428	29.1596	0.0280	4.881×10^{-4}	3.546×10^{-2}
0.0498	25.0498	0.0300	4.841×10^{-4}	3.016×10^{-2}
0.0579	21.5400	0.0324	6.719×10^{-4}	3.597×10^{-2}
0.0675	18.4825	0.0350	8.556×10^{-4}	3.935×10^{-2}
0.0789	15.8113	0.0372	8.138×10^{-4}	3.207×10^{-2}
0.0919	13.5620	0.0393	9.501×10^{-4}	3.207×10^{-2}
0.1074	11.6154	0.0415	1.136×10^{-3}	3.285×10^{-2}
0.1253	9.9504	0.0437	1.306×10^{-3}	3.235×10^{-2}
0.1471	8.4747	0.0464	1.823×10^{-3}	3.858×10^{-2}
0.1717	7.2634	0.0486	1.856×10^{-3}	3.356×10^{-2}
0.2002	6.2296	0.0511	2.388×10^{-3}	3.702×10^{-2}
0.2465	5.0592	0.0527	1.375×10^{-3}	1.780×10^{-2}
0.3179	3.9227	0.0574	4.125×10^{-3}	4.243×10^{-2}
0.4052	3.0776	0.0623	5.797×10^{-3}	4.649×10^{-2}
0.5230	2.3843	0.0688	9.409×10^{-3}	5.885×10^{-2}
0.6670	1.8695	0.0798	2.135×10^{-2}	1.040×10^{-1}
0.8520	1.4637	0.1005	5.108×10^{-2}	1.951×10^{-1}
1.0902	1.1438	0.1279	8.565×10^{-2}	2.558×10^{-1}
1.3965	0.8929	0.1538	1.032×10^{-1}	2.408×10^{-1}
1.7807	0.7003	0.1740	1.045×10^{-1}	1.908×10^{-1}
2.2774	0.5476	0.1888	9.709×10^{-2}	1.388×10^{-1}
2.9117	0.4283	0.2000	9.403×10^{-2}	1.051×10^{-1}
3.7170	0.3355	0.2091	9.813×10^{-2}	8.586×10^{-2}



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Tabular Report

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4.7516	0.2624	0.2170	1.083×10^{-1}	7.419×10^{-2}
6.0554	0.2059	0.2240	1.238×10^{-1}	6.641×10^{-2}
7.7313	0.1613	0.2301	1.369×10^{-1}	5.758×10^{-2}
9.8769	0.1263	0.2358	1.613×10^{-1}	5.314×10^{-2}
12.6031	0.0989	0.2405	1.742×10^{-1}	4.495×10^{-2}
16.0873	0.0775	0.2449	2.047×10^{-1}	4.137×10^{-2}
20.5283	0.0607	0.2487	2.278×10^{-1}	3.608×10^{-2}
26.2041	0.0476	0.2521	2.555×10^{-1}	3.171×10^{-2}
33.4255	0.0373	0.2548	2.646×10^{-1}	2.573×10^{-2}
42.6714	0.0292	0.2574	3.153×10^{-1}	2.403×10^{-2}
54.4512	0.0229	0.2592	2.875×10^{-1}	1.717×10^{-2}
69.4914	0.0179	0.2606	2.836×10^{-1}	1.327×10^{-2}
88.6817	0.0141	0.2616	2.471×10^{-1}	9.059×10^{-3}
113.1744	0.0110	0.2622	2.185×10^{-1}	6.278×10^{-3}
144.4235	0.0086	0.2622	0.000×10^0	0.000×10^0
184.3272	0.0068	0.2624	1.154×10^{-1}	2.035×10^{-3}
219.9801	0.0057	0.2624	0.000×10^0	0.000×10^0
187.0248	0.0067	0.2599	2.509×10^0	3.555×10^{-2}
147.7465	0.0084	0.2599	0.000×10^0	0.000×10^0
116.6550	0.0107	0.2599	0.000×10^0	0.000×10^0
92.1006	0.0135	0.2599	0.000×10^0	0.000×10^0
72.7107	0.0172	0.2599	0.000×10^0	0.000×10^0
57.4075	0.0217	0.2599	0.000×10^0	0.000×10^0
45.4060	0.0275	0.2599	0.000×10^0	0.000×10^0
35.7936	0.0348	0.2599	0.000×10^0	0.000×10^0
28.3010	0.0441	0.2599	0.000×10^0	0.000×10^0
22.3127	0.0559	0.2599	0.000×10^0	0.000×10^0
17.6104	0.0708	0.2599	0.000×10^0	0.000×10^0
13.9130	0.0896	0.2599	0.000×10^0	0.000×10^0
10.9142	0.1143	0.2592	3.162×10^{-2}	7.387×10^{-3}
8.6942	0.1434	0.2571	7.057×10^{-2}	2.085×10^{-2}
6.8374	0.1824	0.2548	5.824×10^{-2}	2.174×10^{-2}
5.4044	0.2307	0.2540	1.624×10^{-2}	7.686×10^{-3}
4.2752	0.2917	0.2526	2.396×10^{-2}	1.434×10^{-2}



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3.3764	0.3693	0.2506	2.491×10^{-2}	1.887×10^{-2}
2.6647	0.4680	0.2482	2.474×10^{-2}	2.374×10^{-2}
2.1073	0.5918	0.2452	2.399×10^{-2}	2.913×10^{-2}
1.6645	0.7492	0.2418	2.180×10^{-2}	3.350×10^{-2}
1.3178	0.9463	0.2376	2.138×10^{-2}	4.154×10^{-2}
1.0455	1.1927	0.2326	2.032×10^{-2}	4.981×10^{-2}
0.8283	1.5055	0.2268	1.852×10^{-2}	5.726×10^{-2}
0.6527	1.9105	0.2202	1.628×10^{-2}	6.371×10^{-2}
0.5161	2.4161	0.2130	1.415×10^{-2}	7.017×10^{-2}
0.4035	3.0909	0.2049	1.210×10^{-2}	7.636×10^{-2}
0.3250	3.8369	0.1968	1.084×10^{-2}	8.609×10^{-2}
0.2591	4.8120	0.1872	9.817×10^{-3}	9.733×10^{-2}
0.3094	4.0300	0.1872	0.000×10^0	0.000×10^0
0.3930	3.1727	0.1875	2.750×10^{-4}	2.269×10^{-3}
0.4971	2.5085	0.1879	7.271×10^{-4}	4.734×10^{-3}
0.6314	1.9749	0.1890	2.065×10^{-3}	1.061×10^{-2}
0.8064	1.5463	0.1913	5.215×10^{-3}	2.104×10^{-2}
1.0169	1.2263	0.1955	1.315×10^{-2}	4.178×10^{-2}
1.2970	0.9615	0.2030	2.835×10^{-2}	7.106×10^{-2}
1.6446	0.7582	0.2117	4.299×10^{-2}	8.471×10^{-2}
2.1052	0.5923	0.2202	5.104×10^{-2}	7.896×10^{-2}
2.6427	0.4719	0.2270	5.650×10^{-2}	6.893×10^{-2}
3.3558	0.3716	0.2329	5.842×10^{-2}	5.646×10^{-2}
4.2500	0.2934	0.2379	6.492×10^{-2}	4.948×10^{-2}
5.3912	0.2313	0.2424	7.256×10^{-2}	4.363×10^{-2}
6.8269	0.1827	0.2463	7.879×10^{-2}	3.738×10^{-2}
8.6552	0.1441	0.2496	8.511×10^{-2}	3.187×10^{-2}
10.9671	0.1137	0.2525	9.686×10^{-2}	2.861×10^{-2}
13.8866	0.0898	0.2551	1.087×10^{-1}	2.535×10^{-2}
17.5864	0.0709	0.2573	1.157×10^{-1}	2.131×10^{-2}
22.2793	0.0560	0.2593	1.369×10^{-1}	1.991×10^{-2}
28.2254	0.0442	0.2610	1.423×10^{-1}	1.633×10^{-2}
35.7477	0.0349	0.2624	1.488×10^{-1}	1.349×10^{-2}
45.2865	0.0275	0.2636	1.651×10^{-1}	1.181×10^{-2}



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57.3704	0.0217	0.2640	7.519×10^{-2}	4.246×10^{-3}
72.6628	0.0172	0.2644	6.820×10^{-2}	3.040×10^{-3}
92.0623	0.0135	0.2644	0.000×10^0	0.000×10^0
116.6101	0.0107	0.2644	0.000×10^0	0.000×10^0
147.7079	0.0084	0.2644	0.000×10^0	0.000×10^0
187.1220	0.0067	0.2644	0.000×10^0	0.000×10^0
219.9861	0.0057	0.2644	0.000×10^0	0.000×10^0



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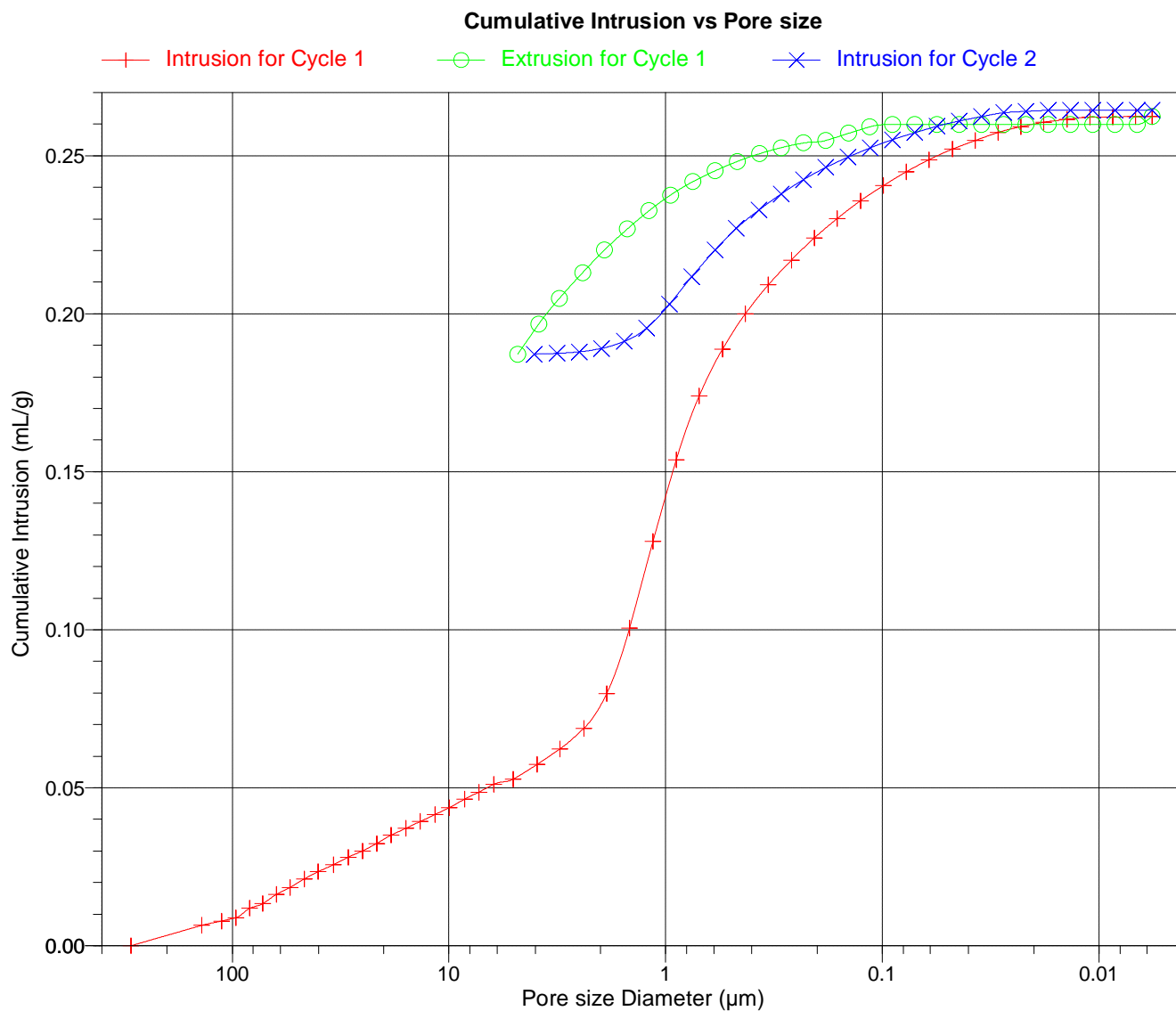
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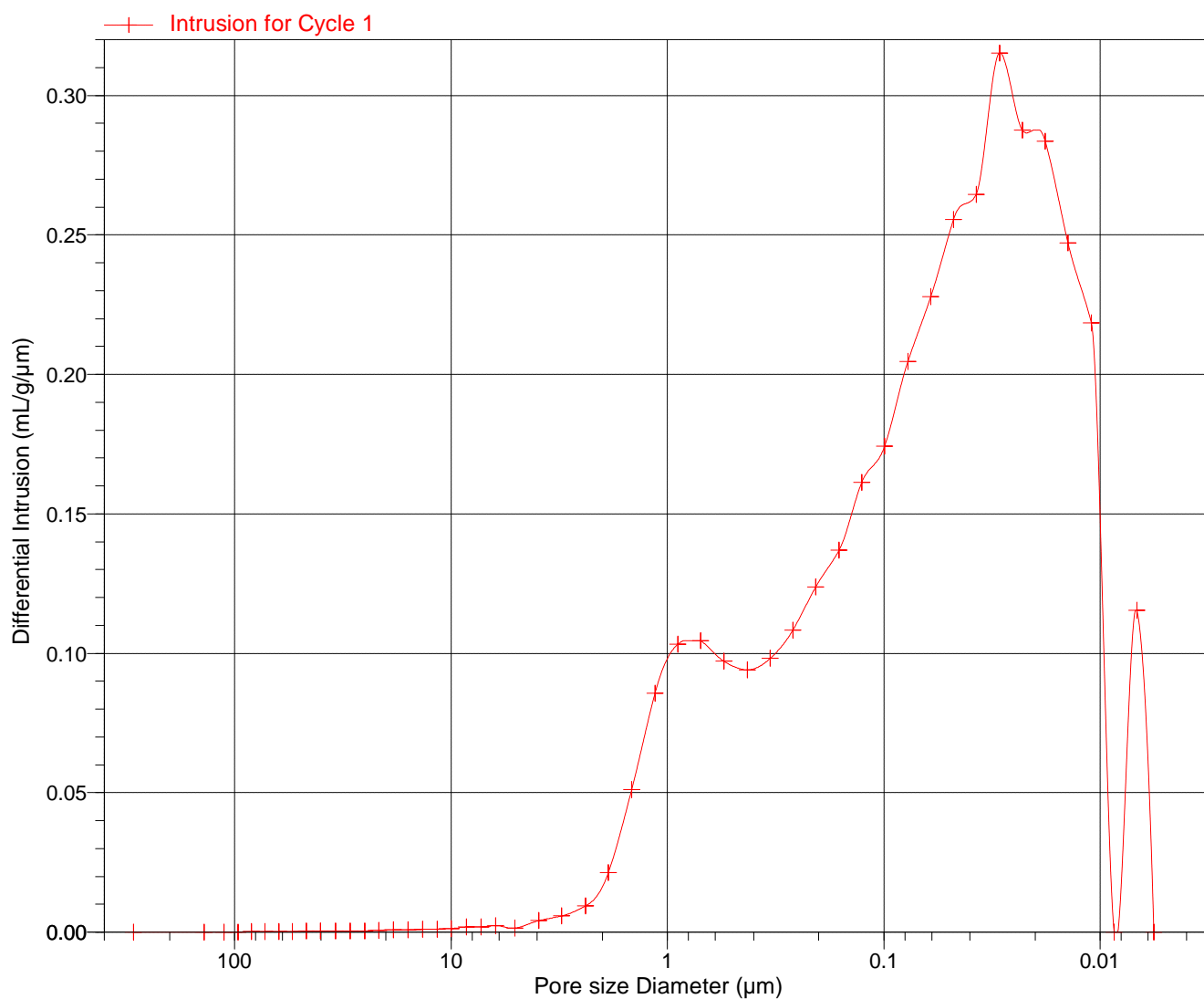
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Differential Intrusion vs Pore size



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Log Differential Intrusion vs Pore size

