

Sample: Rock Sample
 Operator: N. KELLY
 Submitter: Reseach Lab
 File: C:\DEMO9500\DATA\ROCK.SMP

LP Analysis Time: 5/11/1998 10:02:34AM
 HP Analysis Time: 5/11/1998 11:07:05AM
 Report Time: 3/31/2006 11:44:56AM

Sample Weight: 21.6260 g
 Correction Type: Formula
 Show Neg. Int: No

Summary Report

Penetrometer parameters

| | | | |
|----------------|---------------------------------------|---------------------|-------------|
| Penetrometer: | 635 - (05) 15 Bulb, 1.836 Stem, Solid | | |
| Pen. Constant: | 27.820 $\mu\text{L/pF}$ | Pen. Weight: | 62.1860 g |
| Stem Volume: | 1.8360 mL | Max. Head Pressure: | 4.4500 psia |
| Pen. Volume: | 16.5382 mL | Assembly Weight: | 180.3401 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 |
|----------|-------|----------|-------|----------|-------|

Low Pressure:

| | |
|---------------------------|--------------------|
| Evacuation Pressure: | 50 μmHg |
| Evacuation Time: | 5 mins |
| Mercury Filling Pressure: | 1.60 psia |
| Equilibration Time: | 10 secs |

High Pressure:

| | |
|---------------------|---------|
| Equilibration Time: | 10 secs |
|---------------------|---------|

Blank Correction by Formula

Intrusion Data Summary

| | |
|---------------------------------|-----------------------------|
| Total Intrusion Volume = | 0.0673 mL/g |
| Total Pore Area = | 4.055 m^2/g |
| Median Pore Diameter (Volume) = | 5.3174 μm |
| Median Pore Diameter (Area) = | 0.0049 μm |
| Average Pore Diameter (4V/A) = | 0.0663 μm |
| Bulk Density at 1.60 psia = | 2.2993 g/mL |
| Apparent (skeletal) Density = | 2.7198 g/mL |
| Porosity = | 15.4629 % |
| Stem Volume Used = | 74 % |

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Tabular Report

| Pressure (psia) | Pore Diameter (µm) | Incremental Pore Volume (mL/g) | Cumulative Pore Volume (mL/g) | Cumulative Pore Area (m ² /g) | Incremental Pore Area (m ² /g) |
|-----------------|--------------------|--------------------------------|-------------------------------|--|---|
| 1.60 | 113.0355 | 0.0000 | 0.0000 | 0.000 | 0.000 |
| 2.10 | 86.3239 | 0.0003 | 0.0003 | 0.000 | 0.000 |
| 3.08 | 58.7369 | 0.0010 | 0.0013 | 0.000 | 0.000 |
| 4.08 | 44.3253 | 0.0009 | 0.0022 | 0.000 | 0.000 |
| 5.58 | 32.3839 | 0.0012 | 0.0035 | 0.000 | 0.000 |
| 7.08 | 25.5499 | 0.0013 | 0.0048 | 0.000 | 0.000 |
| 8.55 | 21.1519 | 0.0015 | 0.0063 | 0.001 | 0.000 |
| 10.54 | 17.1633 | 0.0026 | 0.0088 | 0.001 | 0.001 |
| 13.04 | 13.8715 | 0.0052 | 0.0140 | 0.003 | 0.001 |
| 14.74 | 12.2724 | 0.0030 | 0.0170 | 0.003 | 0.001 |
| 16.02 | 11.2905 | 0.0021 | 0.0191 | 0.004 | 0.001 |
| 20.01 | 9.0400 | 0.0046 | 0.0237 | 0.006 | 0.002 |
| 20.51 | 8.8187 | 0.0005 | 0.0242 | 0.006 | 0.000 |
| 21.02 | 8.6062 | 0.0005 | 0.0247 | 0.006 | 0.000 |
| 21.51 | 8.4100 | 0.0004 | 0.0251 | 0.007 | 0.000 |
| 23.01 | 7.8619 | 0.0013 | 0.0264 | 0.007 | 0.001 |
| 25.00 | 7.2350 | 0.0015 | 0.0279 | 0.008 | 0.001 |
| 29.97 | 6.0341 | 0.0034 | 0.0313 | 0.010 | 0.002 |
| 38.91 | 4.6480 | 0.0048 | 0.0361 | 0.014 | 0.004 |
| 48.63 | 3.7196 | 0.0040 | 0.0401 | 0.018 | 0.004 |
| 58.64 | 3.0843 | 0.0028 | 0.0429 | 0.021 | 0.003 |
| 73.52 | 2.4601 | 0.0028 | 0.0458 | 0.025 | 0.004 |
| 88.61 | 2.0411 | 0.0019 | 0.0477 | 0.028 | 0.003 |
| 113.16 | 1.5983 | 0.0021 | 0.0498 | 0.033 | 0.005 |
| 138.51 | 1.3058 | 0.0014 | 0.0512 | 0.037 | 0.004 |
| 172.90 | 1.0461 | 0.0013 | 0.0525 | 0.041 | 0.005 |
| 218.23 | 0.8288 | 0.0012 | 0.0537 | 0.047 | 0.005 |
| 269.61 | 0.6708 | 0.0009 | 0.0546 | 0.051 | 0.005 |
| 328.56 | 0.5505 | 0.0008 | 0.0554 | 0.057 | 0.005 |
| 417.73 | 0.4330 | 0.0009 | 0.0563 | 0.064 | 0.007 |
| 519.92 | 0.3479 | 0.0007 | 0.0571 | 0.071 | 0.008 |
| 640.95 | 0.2822 | 0.0006 | 0.0577 | 0.079 | 0.008 |
| 696.00 | 0.2599 | 0.0002 | 0.0579 | 0.082 | 0.003 |
| 795.32 | 0.2274 | 0.0003 | 0.0582 | 0.088 | 0.006 |
| 990.10 | 0.1827 | 0.0005 | 0.0588 | 0.098 | 0.010 |
| 1230.33 | 0.1470 | 0.0004 | 0.0592 | 0.109 | 0.010 |
| 1318.86 | 0.1371 | 0.0001 | 0.0593 | 0.112 | 0.003 |
| 1411.76 | 0.1281 | 0.0001 | 0.0594 | 0.116 | 0.004 |
| 1512.63 | 0.1196 | 0.0001 | 0.0595 | 0.120 | 0.004 |
| 1618.71 | 0.1117 | 0.0001 | 0.0597 | 0.123 | 0.004 |
| 1715.93 | 0.1054 | 0.0001 | 0.0597 | 0.127 | 0.003 |
| 1908.17 | 0.0948 | 0.0002 | 0.0599 | 0.133 | 0.006 |
| 2072.81 | 0.0873 | 0.0001 | 0.0600 | 0.138 | 0.005 |
| 2221.87 | 0.0814 | 0.0001 | 0.0601 | 0.142 | 0.004 |
| 2374.50 | 0.0762 | 0.0001 | 0.0602 | 0.147 | 0.005 |
| 2519.50 | 0.0718 | 0.0001 | 0.0603 | 0.151 | 0.004 |

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Tabular Report

| Pressure (psia) | Pore Diameter (µm) | Incremental Pore Volume (mL/g) | Cumulative Pore Volume (mL/g) | Cumulative Pore Area (m ² /g) | Incremental Pore Area (m ² /g) |
|-----------------|--------------------|--------------------------------|-------------------------------|--|---|
| 2659.82 | 0.0680 | 0.0001 | 0.0603 | 0.154 | 0.003 |
| 2710.57 | 0.0667 | 0.0000 | 0.0604 | 0.156 | 0.002 |
| 2868.66 | 0.0630 | 0.0000 | 0.0604 | 0.159 | 0.003 |
| 3009.24 | 0.0601 | 0.0001 | 0.0605 | 0.163 | 0.004 |
| 3268.27 | 0.0553 | 0.0001 | 0.0605 | 0.168 | 0.006 |
| 3505.87 | 0.0516 | 0.0001 | 0.0606 | 0.174 | 0.006 |
| 3746.27 | 0.0483 | 0.0001 | 0.0607 | 0.180 | 0.006 |
| 3999.34 | 0.0452 | 0.0001 | 0.0608 | 0.186 | 0.006 |
| 4302.85 | 0.0420 | 0.0001 | 0.0608 | 0.192 | 0.006 |
| 4532.29 | 0.0399 | 0.0001 | 0.0609 | 0.198 | 0.007 |
| 4769.36 | 0.0379 | 0.0001 | 0.0610 | 0.204 | 0.006 |
| 4989.03 | 0.0363 | 0.0001 | 0.0610 | 0.211 | 0.007 |
| 5291.30 | 0.0342 | 0.0001 | 0.0611 | 0.219 | 0.008 |
| 5497.07 | 0.0329 | 0.0000 | 0.0611 | 0.225 | 0.006 |
| 5734.42 | 0.0315 | 0.0001 | 0.0612 | 0.231 | 0.007 |
| 5984.18 | 0.0302 | 0.0001 | 0.0612 | 0.238 | 0.007 |
| 6228.63 | 0.0290 | 0.0001 | 0.0613 | 0.245 | 0.007 |
| 6474.49 | 0.0279 | 0.0000 | 0.0613 | 0.252 | 0.007 |
| 6736.67 | 0.0268 | 0.0001 | 0.0614 | 0.260 | 0.008 |
| 6979.34 | 0.0259 | 0.0000 | 0.0614 | 0.268 | 0.008 |
| 7474.26 | 0.0242 | 0.0001 | 0.0615 | 0.280 | 0.012 |
| 7966.69 | 0.0227 | 0.0001 | 0.0616 | 0.292 | 0.013 |
| 8482.90 | 0.0213 | 0.0001 | 0.0617 | 0.306 | 0.014 |
| 9003.71 | 0.0201 | 0.0001 | 0.0618 | 0.324 | 0.018 |
| 9316.63 | 0.0194 | 0.0001 | 0.0618 | 0.337 | 0.013 |
| 9595.48 | 0.0188 | 0.0001 | 0.0619 | 0.348 | 0.011 |
| 10033.28 | 0.0180 | 0.0001 | 0.0620 | 0.364 | 0.015 |
| 10490.24 | 0.0172 | 0.0001 | 0.0620 | 0.380 | 0.016 |
| 10992.25 | 0.0165 | 0.0001 | 0.0621 | 0.398 | 0.017 |
| 11497.81 | 0.0157 | 0.0001 | 0.0622 | 0.417 | 0.019 |
| 11985.28 | 0.0151 | 0.0001 | 0.0623 | 0.436 | 0.019 |
| 12554.70 | 0.0144 | 0.0001 | 0.0623 | 0.458 | 0.023 |
| 13090.07 | 0.0138 | 0.0001 | 0.0624 | 0.480 | 0.022 |
| 13610.88 | 0.0133 | 0.0001 | 0.0625 | 0.503 | 0.023 |
| 13975.24 | 0.0129 | 0.0001 | 0.0625 | 0.520 | 0.017 |
| 14303.77 | 0.0126 | 0.0001 | 0.0626 | 0.537 | 0.017 |
| 14583.69 | 0.0124 | 0.0000 | 0.0626 | 0.552 | 0.015 |
| 14978.21 | 0.0121 | 0.0001 | 0.0627 | 0.571 | 0.019 |
| 15395.43 | 0.0117 | 0.0001 | 0.0628 | 0.591 | 0.020 |
| 15744.53 | 0.0115 | 0.0001 | 0.0628 | 0.610 | 0.019 |
| 16162.46 | 0.0112 | 0.0001 | 0.0629 | 0.631 | 0.021 |
| 16666.60 | 0.0109 | 0.0001 | 0.0629 | 0.655 | 0.024 |
| 17022.45 | 0.0106 | 0.0001 | 0.0630 | 0.675 | 0.019 |
| 17352.75 | 0.0104 | 0.0000 | 0.0630 | 0.693 | 0.019 |
| 17707.88 | 0.0102 | 0.0001 | 0.0631 | 0.713 | 0.020 |
| 18102.04 | 0.0100 | 0.0001 | 0.0632 | 0.735 | 0.021 |

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|-----------------|--------------------|--------------------------------|-------------------------------|--|---|
| 18435.18 | 0.0098 | 0.0000 | 0.0632 | 0.754 | 0.019 |
| 18824.73 | 0.0096 | 0.0001 | 0.0633 | 0.776 | 0.022 |
| 19202.93 | 0.0094 | 0.0001 | 0.0633 | 0.799 | 0.022 |
| 19793.64 | 0.0091 | 0.0001 | 0.0634 | 0.830 | 0.032 |
| 20246.69 | 0.0089 | 0.0001 | 0.0634 | 0.857 | 0.027 |
| 20750.83 | 0.0087 | 0.0001 | 0.0635 | 0.887 | 0.029 |
| 21162.38 | 0.0085 | 0.0001 | 0.0636 | 0.911 | 0.025 |
| 21592.02 | 0.0084 | 0.0001 | 0.0636 | 0.938 | 0.027 |
| 22031.59 | 0.0082 | 0.0001 | 0.0637 | 0.965 | 0.027 |
| 22603.85 | 0.0080 | 0.0001 | 0.0637 | 1.000 | 0.035 |
| 23164.76 | 0.0078 | 0.0001 | 0.0638 | 1.034 | 0.034 |
| 23693.03 | 0.0076 | 0.0001 | 0.0639 | 1.068 | 0.035 |
| 24079.03 | 0.0075 | 0.0001 | 0.0639 | 1.095 | 0.027 |
| 24594.52 | 0.0074 | 0.0001 | 0.0640 | 1.128 | 0.033 |
| 25005.71 | 0.0072 | 0.0001 | 0.0640 | 1.156 | 0.028 |
| 25405.20 | 0.0071 | 0.0001 | 0.0641 | 1.186 | 0.029 |
| 25850.80 | 0.0070 | 0.0001 | 0.0641 | 1.216 | 0.030 |
| 26395.39 | 0.0069 | 0.0001 | 0.0642 | 1.254 | 0.038 |
| 26872.92 | 0.0067 | 0.0001 | 0.0643 | 1.287 | 0.033 |
| 27330.59 | 0.0066 | 0.0001 | 0.0643 | 1.322 | 0.034 |
| 27746.39 | 0.0065 | 0.0001 | 0.0644 | 1.353 | 0.031 |
| 28176.74 | 0.0064 | 0.0001 | 0.0644 | 1.384 | 0.031 |
| 28914.69 | 0.0063 | 0.0001 | 0.0645 | 1.435 | 0.051 |
| 29429.12 | 0.0061 | 0.0001 | 0.0646 | 1.474 | 0.040 |
| 29967.68 | 0.0060 | 0.0001 | 0.0646 | 1.514 | 0.040 |
| 30490.98 | 0.0059 | 0.0001 | 0.0647 | 1.553 | 0.038 |
| 30933.74 | 0.0058 | 0.0000 | 0.0647 | 1.586 | 0.033 |
| 31352.74 | 0.0058 | 0.0000 | 0.0648 | 1.619 | 0.033 |
| 31826.73 | 0.0057 | 0.0001 | 0.0648 | 1.655 | 0.036 |
| 32366.35 | 0.0056 | 0.0001 | 0.0649 | 1.697 | 0.042 |
| 32871.20 | 0.0055 | 0.0001 | 0.0649 | 1.736 | 0.039 |
| 33539.25 | 0.0054 | 0.0001 | 0.0650 | 1.786 | 0.050 |
| 34003.66 | 0.0053 | 0.0001 | 0.0651 | 1.824 | 0.038 |
| 34645.46 | 0.0052 | 0.0001 | 0.0651 | 1.873 | 0.049 |
| 35522.13 | 0.0051 | 0.0001 | 0.0652 | 1.938 | 0.065 |
| 36223.88 | 0.0050 | 0.0001 | 0.0653 | 1.991 | 0.053 |
| 36968.57 | 0.0049 | 0.0001 | 0.0654 | 2.051 | 0.060 |
| 37632.36 | 0.0048 | 0.0001 | 0.0654 | 2.104 | 0.053 |
| 38423.52 | 0.0047 | 0.0001 | 0.0655 | 2.169 | 0.066 |
| 39162.89 | 0.0046 | 0.0001 | 0.0656 | 2.229 | 0.060 |
| 39981.01 | 0.0045 | 0.0001 | 0.0656 | 2.295 | 0.066 |
| 40475.22 | 0.0045 | 0.0000 | 0.0657 | 2.339 | 0.043 |
| 41006.33 | 0.0044 | 0.0001 | 0.0657 | 2.385 | 0.047 |
| 42539.34 | 0.0043 | 0.0001 | 0.0659 | 2.503 | 0.118 |
| 43373.07 | 0.0042 | 0.0001 | 0.0660 | 2.576 | 0.073 |
| 44016.65 | 0.0041 | 0.0001 | 0.0660 | 2.635 | 0.058 |

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Tabular Report

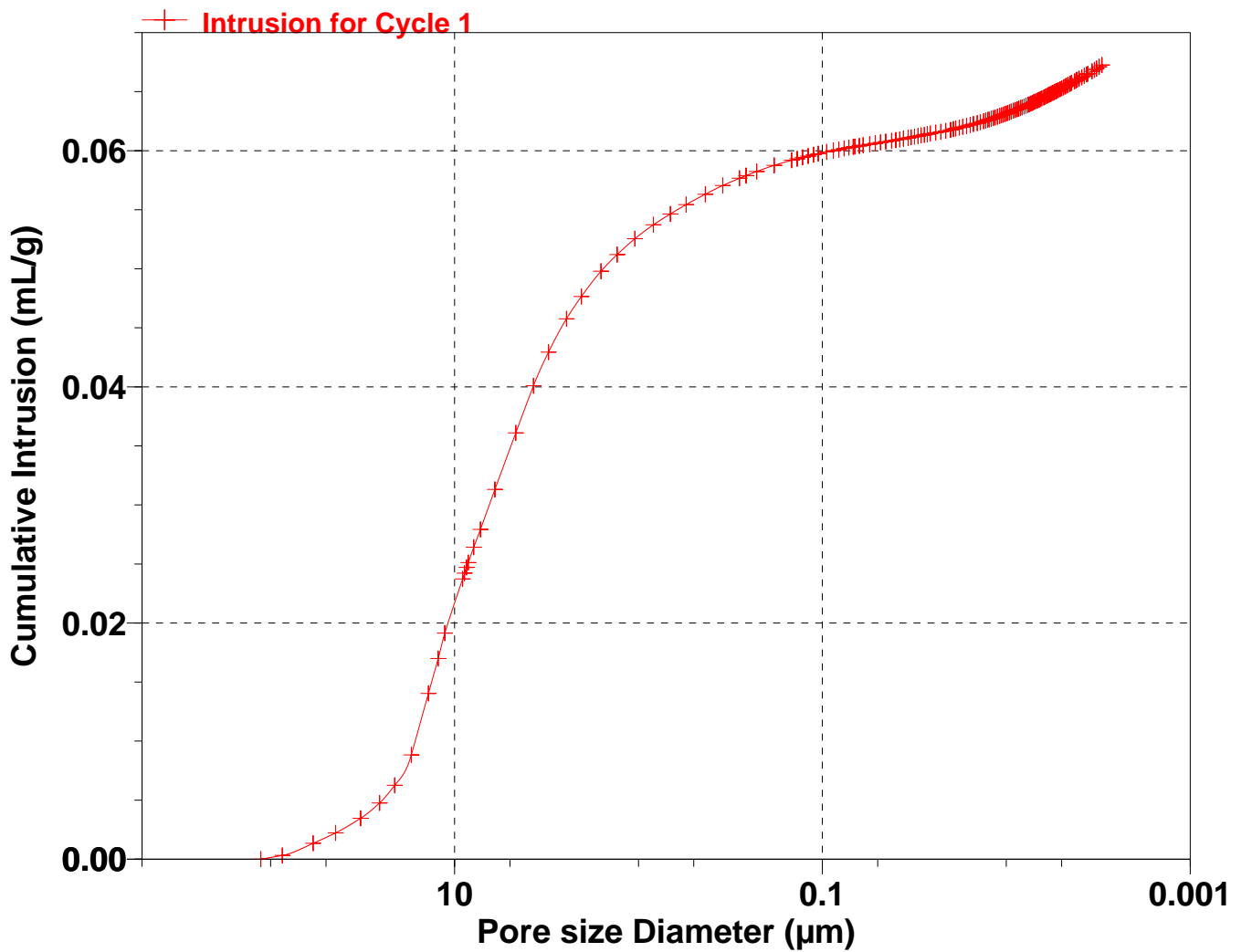
| Pressure (psia) | Pore Diameter (μm) | Incremental Pore Volume (mL/g) | Cumulative Pore Volume (mL/g) | Cumulative Pore Area (m ² /g) | Incremental Pore Area (m ² /g) |
|--------------------|------------------------------------|--------------------------------------|-------------------------------------|--|---|
| 45043.03 | 0.0040 | 0.0001 | 0.0661 | 2.720 | 0.086 |
| 46512.53 | 0.0039 | 0.0001 | 0.0662 | 2.841 | 0.120 |
| 48040.57 | 0.0038 | 0.0001 | 0.0663 | 2.972 | 0.131 |
| 49480.28 | 0.0037 | 0.0001 | 0.0665 | 3.098 | 0.126 |
| 50246.25 | 0.0036 | 0.0001 | 0.0665 | 3.170 | 0.072 |
| 52952.88 | 0.0034 | 0.0002 | 0.0667 | 3.401 | 0.231 |
| 54445.09 | 0.0033 | 0.0001 | 0.0668 | 3.539 | 0.138 |
| 55971.00 | 0.0032 | 0.0001 | 0.0670 | 3.682 | 0.143 |
| 57907.75 | 0.0031 | 0.0001 | 0.0671 | 3.863 | 0.182 |
| 59938.52 | 0.0030 | 0.0001 | 0.0673 | 4.055 | 0.192 |

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Cumulative Intrusion vs Pore size

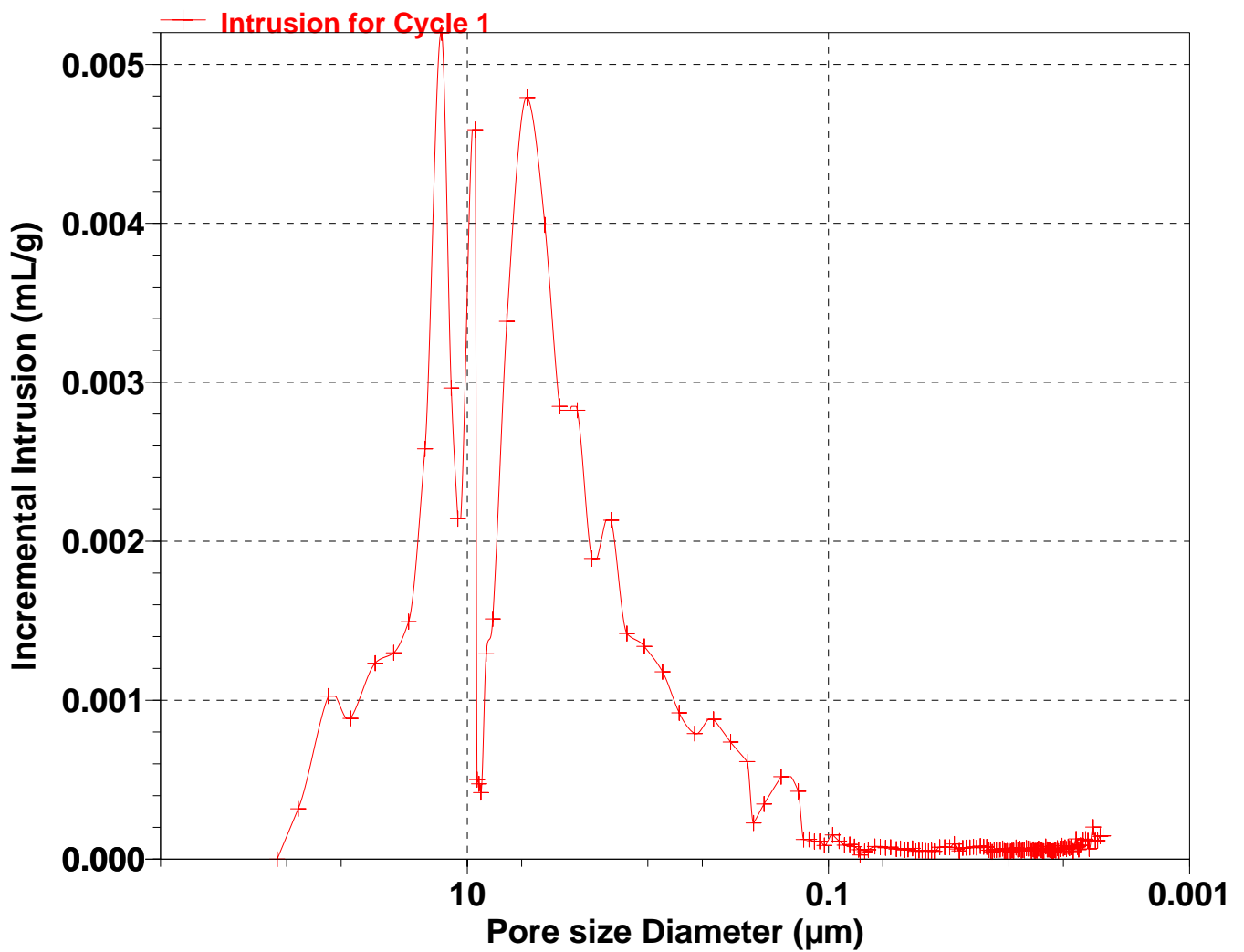


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Incremental Intrusion vs Pore size

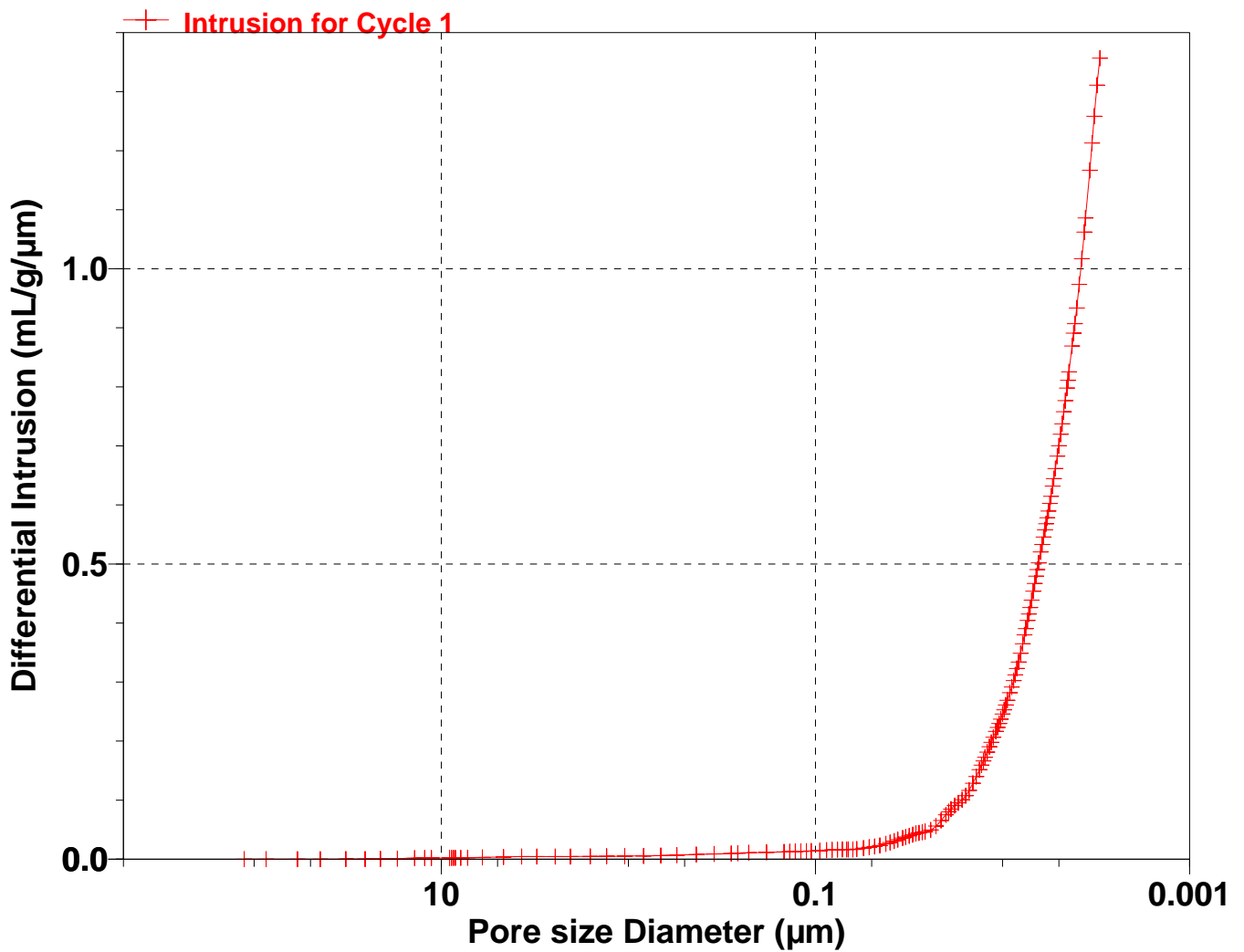


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Differential Intrusion vs Pore size

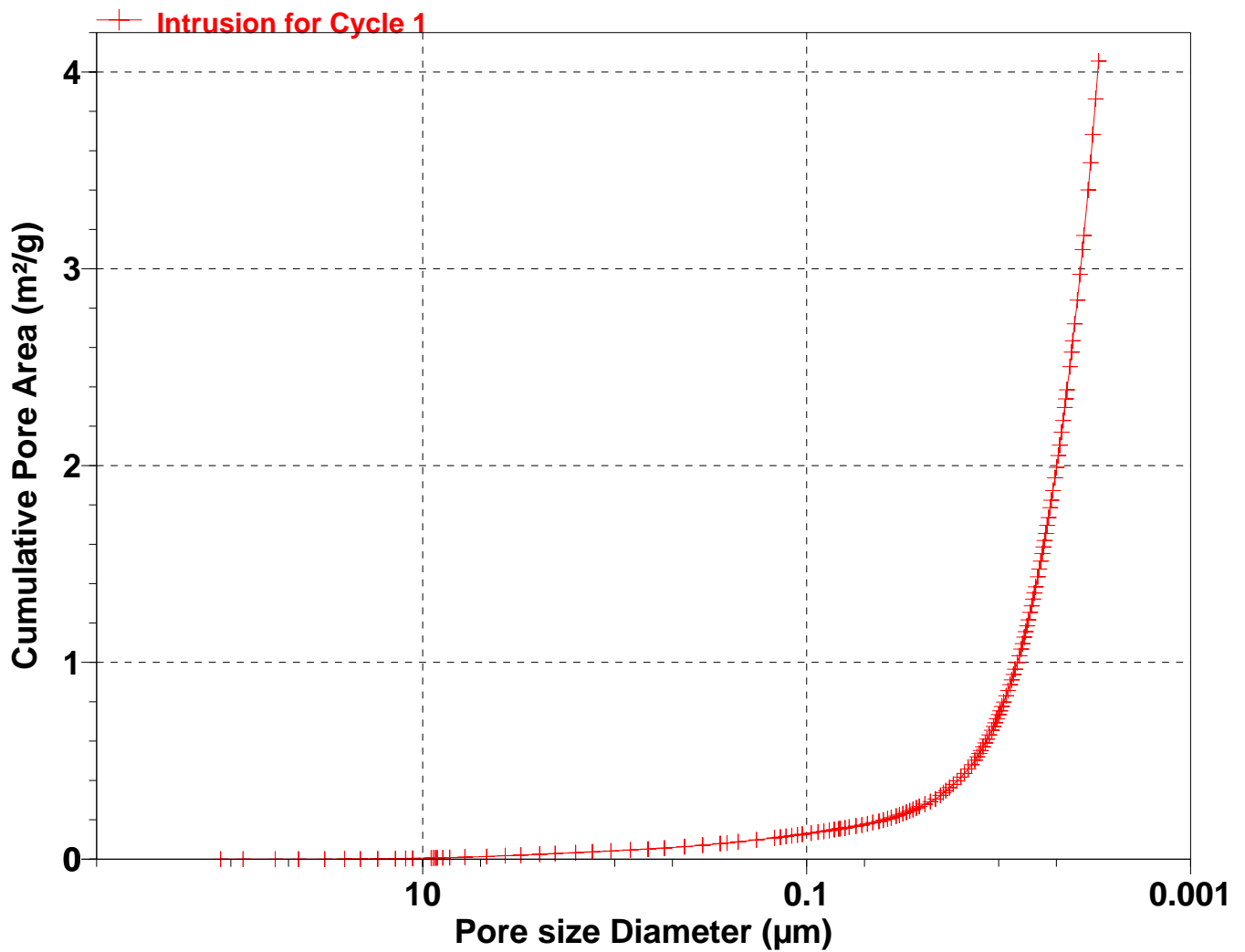


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Cumulative Pore Area vs Pore size



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Log Differential Intrusion vs Pore size

