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|----------------------------------|---------------|-------------------------------|--------|-------------------|---|--------------------|----|--------------------------|----|--------------|-----|---------------------------|-------|------|
| MACTEC PROJECT NO.: 6468-06-1472 |               |                               |        | COUNTY Louisa, VA |   |                    |    | GEOLOGIST J. Wallen      |    |              |     |                           |       |      |
| SITE DESCRIPTION NORTH ANNA COL  |               |                               |        |                   |   |                    |    | GROUND WATER (ft)        |    |              |     |                           |       |      |
| BORING NO. B-910                 |               | DRILL METHOD: Mud Rotary/Core |        |                   | SAMPLE METHODS: SPT/CORE                    |                    |    | 0 HR. ND                 |    |              |     |                           |       |      |
| COLLAR ELEV. 316.5 ft (NAVD88)   |               | NORTHING 3,909,668            |        | US ft (NAD83)     |   | EASTING 11,685,883 |    | US ft (NAD83)            |    | 24 HR. 21.4  |     |                           |       |      |
| TOTAL DEPTH 148.4 ft             |               | DRILL MACHINE CME 550 ATV     |        |                   | DRILLER: G. Akins                           |                    |    | HAMMER TYPE 140 lbs Auto |    |              |     |                           |       |      |
| DATE STARTED 8/31/06             |               | COMPLETED 9/7/06              |        |                   | CORE BARREL TYPE: HQ 3 triple tube-wireline |                    |    |                          |    |              |     |                           |       |      |
| ELEV.<br>(ft)                    | DEPTH<br>(ft) | BLOW COUNT                    |        |                   | BLOWS PER FOOT                              |                    |    |                          |    | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |       |      |
|                                  |               | 0.5ft                         | 0.5ft  | 0.5ft             | 0   | 20                 | 40 | 60                       | 80 | 100          | MOI |                           | G     |      |
| 316.5                            |               |                               |        |                   | Ground Surface                              |                    |    |                          |    |              |     |                           | 316.5 | 0.0  |
| 315.0                            | 1.5           |                               |        |                   |   |                    |    |                          |    | 910-1        |     |                           | 313.5 | 3.0  |
| 313.0                            | 3.5           | 22                            | 25     | 14                |   |                    |    |                          |    | 910-2        |     |                           |       |      |
| 310.5                            | 6.0           | 5                             | 8      | 14                |   |                    |    |                          |    | 910-3        |     |                           | 309.5 | 7.0  |
| 308.0                            | 8.5           | 12                            | 13     | 16                |   |                    |    |                          |    | 910-4        |     |                           | 306.5 | 10.0 |
| 305.5                            | 11.0          | 9                             | 12     | 12                |   |                    |    |                          |    | 910-5        |     |                           |       |      |
| 303.0                            | 13.5          | 6                             | 6      | 9                 |   |                    |    |                          |    | 910-6        |     |                           |       |      |
| 298.0                            | 18.5          | 5                             | 7      | 12                |   |                    |    |                          |    | 910-7        |     |                           |       |      |
| 293.0                            | 23.5          | 2                             | 5      | 8                 |   |                    |    |                          |    | 910-8        |     |                           | 294.5 | 22.0 |
| 290.6                            | 25.9          | 14                            | 25     | 50/0.4            |   |                    |    |                          |    | 910-9        |     |                           |       |      |
| 288.0                            | 28.5          | 34                            | 40     | 45                |   |                    |    |                          |    | 910-10       |     |                           |       |      |
| 285.2                            | 31.3          | 45                            | 50/0.4 |                   |   |                    |    |                          |    | 910-11       |     |                           |       |      |
| 281.2                            | 35.3          | 50/0.1                        |        |                   |   |                    |    |                          |    | 910-12       |     |                           |       |      |
| 276.1                            | 40.4          | 50/0.2                        |        |                   |   |                    |    |                          |    | 910-13       |     |                           | 274.5 | 42.0 |
|                                  |               | 50/0.2                        |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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|                                  |               |                               |        |                   |   |                    |    |                          |    |              |     |                           |       |      |
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NORTH ANNA COL ...RE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



|                                  |               |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|----------------------------------|---------------|-------------------------------|--|--------------------------|--------------|--------------------------|--------------|---|--|--------------------------|-------------|---|---------------------|--|--|
| MACTEC PROJECT NO.: 6468-06-1472 |               |                               |  |                          |              |                          |              |   |  | COUNTY Louisa, VA        |             |   | GEOLOGIST J. Wallen |  |  |
| SITE DESCRIPTION NORTH ANNA COL  |               |                               |  |                          |              |                          |              |   |  | GROUND WATER (ft)        |             |   |                     |  |  |
| BORING NO. B-910                 |               | DRILL METHOD: Mud Rotary/Core |  |                          |              | SAMPLE METHODS: SPT/CORE |              |   |  |                          |             |   |                     |  |  |
| COLLAR ELEV. 316.5 ft (NAVD88)   |               | NORTHING 3,909,668            |  | US ft (NAD83)            |              | EASTING 11,685,883       |              | US ft (NAD83)                               |  | 0 HR. ND                 |             |   |                     |  |  |
| TOTAL DEPTH 148.4 ft             |               | DRILL MACHINE CME 550 ATV     |  |                          |              | DRILLER: G. Akins        |              |   |  | HAMMER TYPE 140 lbs Auto |             |   |                     |  |  |
| DATE STARTED 8/31/06             |               |                               |  | COMPLETED 9/7/06         |              |                          |              | CORE BARREL TYPE: HQ 3 triple tube-wireline |  |                          |             |   |                     |  |  |
| CORE SIZE HQ3                    |               |                               |  | TOTAL RUN 116.6 ft       |              |                          |              |   |  |                          |             |   |                     |  |  |
| ELEV.<br>(ft)                    | DEPTH<br>(ft) | RUN<br>(ft)                   | DRILL<br>RATE<br>(Min/ft)                | RUN<br>REC.<br>(ft)<br>% |              | RQD<br>(ft)<br>%         | SAMP.<br>NO. | STRATA<br>REC.<br>(ft)<br>%                 |  | RQD<br>(ft)<br>%         | L<br>O<br>G | DESCRIPTION AND REMARKS   |                     |  |  |
|                                  |               |                               |  |                          |              |                          |              |   |  |                          |             | Begin Coring @ 31.4 ft  |                     |  |  |
| 285.1                            | 31.4          | 3.9                           | 1:32<br>2:43<br>1:35                     | (0.0)<br>0%              | (0.0)<br>0%  | 1                        |              |   |  |                          |             | Weathered Rock: Yellowish brown (10YR 5/6) and brownish yellow (10YR 6/8), moist, very dense, BIOTITE QUARTZ GNEISS (continued)<br>-No Recovery           |                     |  |  |
| 281.2                            | 35.3          |                               | 1:38/0.9                                 |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
| 281.0                            | 35.5          | 4.9                           | N=50/0.2<br>1:55<br>2:10<br>1:59<br>1:33 | (0.5)<br>10%             | (0.0)<br>0%  | 910-12<br>2              |              |   |  |                          |             | -Very poor recovery   |                     |  |  |
| 276.1                            | 40.4          |                               | 2:19/0.9                                 |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
| 275.9                            | 40.6          | 4.8                           | N=50/0.2<br>1:03<br>2:04<br>2:02<br>1:50 | (2.5)<br>52%             | (0.6)<br>13% | 910-13<br>3              |              |   |  |                          |             | 274.5 Hard Rock: Gray and brown, moderately severe to moderately weathered, very close to moderately close fracturing, soft, BIOTITE QUARTZ GNEISS        |                     |  |  |
| 271.1                            | 45.4          |                               | 2:07/0.8                                 |                          |              |                          |              |   |  |                          |             | (0.4 ft thick quartz vein)  |                     |  |  |
|                                  |               | 5.0                           | 2:10<br>2:16<br>2:17<br>2:22<br>2:25     | (3.8)<br>76%             | (2.5)<br>50% | 4                        |              |   |  |                          |             |   |                     |  |  |
| 266.1                            | 50.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 1:45<br>1:43<br>2:02<br>2:58<br>2:22     | (3.6)<br>72%             | (3.0)<br>60% | UC-53.1'                 |              |   |  |                          |             | (6 joints at 45°)   |                     |  |  |
| 261.1                            | 55.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 3:19<br>2:20<br>2:28<br>2:56<br>2:20     | (4.6)<br>92%             | (4.3)<br>86% | 6                        |              |   |  |                          |             | (5 joints at 45°)   |                     |  |  |
| 256.1                            | 60.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 4.5                           | 1:42<br>1:53<br>1:46<br>2:39             | (3.1)<br>69%             | (2.3)<br>51% | 7                        |              |   |  |                          |             | (2 joints at 70°, 4 joints at 20°)  |                     |  |  |
| 251.6                            | 64.9          |                               | 2:34/0.5                                 |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.4                           | 3:25<br>2:53<br>5:49<br>3:00<br>3:03/1.4 | (2.9)<br>54%             | (1.4)<br>26% | 8                        |              |   |  |                          |             |   |                     |  |  |
| 246.2                            | 70.3          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 3:49<br>4:46<br>4:26<br>1:54<br>1:49     | (2.5)<br>50%             | (0.4)<br>8%  | 9                        |              |   |  |                          |             | (7 joints at 70°)   |                     |  |  |
| 241.2                            | 75.3          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.1                           | 3:08<br>2:46<br>2:45<br>2:03<br>2:30/1.1 | (2.0)<br>39%             | (0.0)<br>0%  | 10                       |              |   |  |                          |             | 241.2 Weathered Rock: Brown and gray, severely to moderately weathered, close fracturing, soft, BIOTITE QUARTZ GNEISS<br>-Poor Recovery                   |                     |  |  |
| 236.1                            | 80.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 1:43<br>1:44<br>1:16<br>1:17<br>1:15     | (1.0)<br>20%             | (0.3)<br>6%  | 11                       |              |   |  |                          |             | (2 joints at 15°)   |                     |  |  |
| 231.1                            | 85.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 1:20<br>1:19<br>1:04<br>1:32<br>1:00     | (0.0)<br>0%              | (0.0)<br>0%  | 12                       |              |   |  |                          |             | -No Recovery  |                     |  |  |
| 226.1                            | 90.4          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 1.9                           | 3:46<br>1:55/0.9                         | (1.8)<br>95%             | (1.7)<br>89% | UCS-91.1'                |              |   |  |                          |             | 226.1 Hard Rock: Light to dark gray, moderately weathered to fresh, close to moderately close fracturing, medium hard to very hard, BIOTITE QUARTZ GNEISS |                     |  |  |
| 224.2                            | 92.3          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 3.0                           | 5:10<br>2:23<br>2:20                     | (2.8)<br>93%             | (1.4)<br>47% | 14                       |              |   |  |                          |             | (4 joints at 30°)<br>(5 joints at 45°, 4 joints at 10°)<br>(5 joints at 10°, 5 joints at 30°, 1 joint at 70° with clay)                                   |                     |  |  |
| 221.2                            | 95.3          |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 1:42<br>1:45<br>1:38<br>1:48<br>1:43     | (5.0)<br>100%            | (3.5)<br>70% | 15                       |              |   |  |                          |             | (1 joint at 70°, 7 joints at 30°)   |                     |  |  |
| 216.2                            | 100.3         |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               | 5.0                           | 1:57<br>1:46<br>2:02<br>1:36<br>1:48     | (5.0)<br>100%            | (3.9)<br>78% | 16                       |              |   |  |                          |             |   |                     |  |  |
| 211.2                            | 105.3         |                               |  |                          |              |                          |              |   |  |                          |             |   |                     |  |  |
|                                  |               |                               | 1:41                                     |                          |              | 17                       |              |   |  |                          |             |   |                     |  |  |

NORTH ANNA COL - CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



| MACTEC PROJECT NO.: 6468-06-1472 |               |             |                                      |                               |               |              |   |  |               | COUNTY Louisa, VA       |   | GEOLOGIST J. Wallen  |  |
|----------------------------------|---------------|-------------|--------------------------------------|-------------------------------|---------------|--------------|---|--|---------------|-------------------------|---|--|--|
| SITE DESCRIPTION NORTH ANNA COL  |               |             |                                      |                               |               |              |   |  |               | GROUND WATER (ft)       |   |  |  |
| BORING NO. B-910                 |               |             | DRILL METHOD: Mud Rotary/Core        |                               |               |              | SAMPLE METHODS: SPT/CORE                    |  |               |                         | 0 HR. ND  |  |  |
| COLLAR ELEV. 316.5 ft (NAVD88)   |               |             | NORTHING 3,909,668                   |                               | US ft (NAD83) |              | EASTING 11,685,883                          |  | US ft (NAD83) |                         | 24 HR. 21.4   |  |  |
| TOTAL DEPTH 148.4 ft             |               |             | DRILL MACHINE CME 550 ATV            |                               |               |              | DRILLER: G. Akins                           |  |               |                         | HAMMER TYPE 140 lbs Auto  |  |  |
| DATE STARTED 8/31/06             |               |             | COMPLETED 9/7/06                     |                               |               |              | CORE BARREL TYPE: HQ 3 triple tube-wireline |  |               |                         |   |  |  |
| CORE SIZE HQ3                    |               |             | TOTAL RUN 116.6 ft                   |                               |               |              |   |  |               |                         |   |  |  |
| ELEV.<br>(ft)                    | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft)            | RUN<br>REC. (ft) % RQD (ft) % |               | SAMP.<br>NO. | STRATA<br>REC. (ft) % RQD (ft) %            |  | L<br>O<br>G   | DESCRIPTION AND REMARKS |   |  |  |
| Continued from previous page     |               |             |                                      |                               |               |              |   |  |               |                         |   |  |  |
| 206.2                            | 110.3         | 5.0         | 1:39<br>1:48<br>1:35<br>1:48         | (4.9)<br>98%                  | (3.9)<br>78%  |              |   |  |               |                         | (5 joints at 30°, 4 joints at 60°)<br>Hard Rock: Light to dark gray, moderately weathered to fresh, close to moderately close fracturing, medium hard to very hard, BIOTITE QUARTZ GNEISS (continued) |  |  |
| 201.2                            | 115.3         | 5.0         | 1:15<br>2:03<br>1:16<br>1:19<br>1:38 | (5.0)<br>100%                 | (3.5)<br>70%  | 18           |   |  |               |                         | (2 joints at 75°, 5 joints at 40°, 4 joints at 10°)   |  |  |
| 196.2                            | 120.3         | 5.0         | 1:32<br>1:20<br>1:27<br>1:28<br>1:27 | (3.5)<br>70%                  | (2.4)<br>48%  | 19           |   |  |               |                         | (5 joints at 10°, 6 joints at 30°)  |  |  |
| 191.2                            | 125.3         | 5.0         | 1:45<br>1:47<br>1:42<br>2:42<br>3:05 | (4.6)<br>92%                  | (3.5)<br>70%  | UC-120.9'    |   |  |               |                         | (7 joints at 40°, 1 joint at 10°)   |  |  |
| 186.2                            | 130.3         | 5.0         | 3:21<br>2:53<br>1:43<br>1:37<br>2:24 | (4.8)<br>96%                  | (4.0)<br>80%  | 21           |   |  |               |                         | (5 joints at 70°, 4 joints at 10°)  |  |  |
| 181.2                            | 135.3         | 5.0         | 2:57<br>2:25<br>1:55<br>1:45<br>1:45 | (4.9)<br>98%                  | (3.4)<br>68%  | 22           |   |  |               |                         | (8 joints at 45°, 5 joints at 70°)  |  |  |
| 176.2                            | 140.3         | 5.0         | 2:03<br>2:44<br>4:14<br>5:25<br>4:40 | (4.8)<br>96%                  | (3.9)<br>78%  | 23           |   |  |               |                         | (5 joints at 30°, 1 joint at 70°, 4 joints at 10°)  |  |  |
| 171.2                            | 145.3         | 5.0         | 4:24<br>5:31<br>3:16<br>5:20<br>5:32 | (5.0)<br>100%                 | (4.2)<br>84%  | UC-142.1'    |   |  |               |                         | (4 joints at 45°, 1 joint at 15°; quartz vein from 142.9-143.6 ft)  |  |  |
| 168.1                            | 148.4         | 3.1         | 4:03<br>2:43<br>5:24/1.1             | (3.0)<br>97%                  | (2.1)<br>68%  | 25           |   |  |               |                         | (5 joints at 45°, 1 joint at 30°)   |  |  |
|                                  |               |             |                                      |                               |               |              |   |  |               | 168.1                   | 148.4   | Coring terminated at 148.4 ft in Hard Rock: Hard to very hard, BIOTITE-QUARTZ GNEISS |  |





B-910 - Box 1

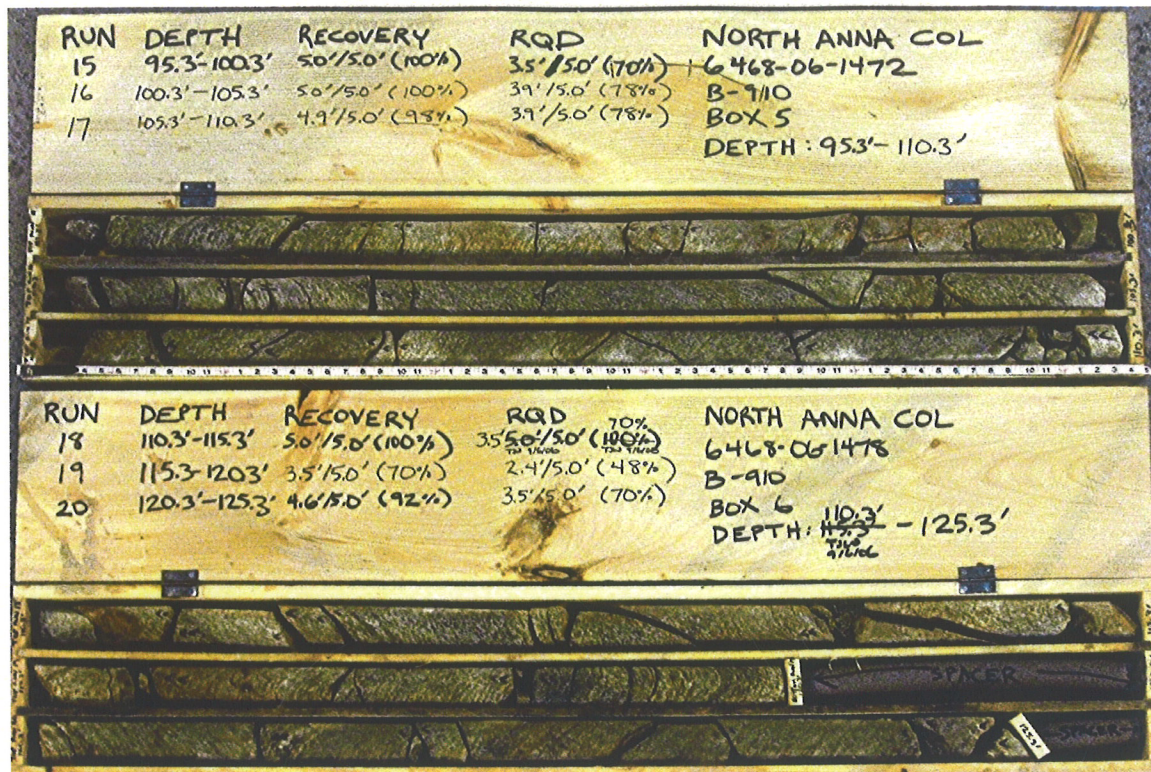
B-910 - Box 2



B-910 - Box 3

B-910 - Box 4





B-910 - Box 5

B-910 - Box 6



B-910 - Box 7

B-910 - Box 8