

FINAL REPORT

ATTACHMENT C

Observation Well Logs
and Development Records

Slug Test Data

Packer Test Data

Volume 1 of 1

FINAL REPORT

ATTACHMENT C

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- Appendix C-1 Observation Well Logs
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List of OW Logs included in this Attachment C,

| | | |
|---------|---------|---------|
| OW-205a | OW-333 | OW-621a |
| OW-205b | OW-401a | OW-621b |
| OW-212 | OW-401b | OW-622 |
| OW-213 | OW-405 | OW-623 |
| OW-227 | OW-501 | OW-624 |
| OW-233 | OW-612 | OW-625 |
| OW-305a | OW-614 | OW-626 |
| OW-305b | OW-617 | OW-627a |
| OW-312 | OW-618 | OW-627b |
| OW-313 | OW-619 | |
| OW-327 | OW-620 | |

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FINAL REPORT

ATTACHMENT C

This Attachment is one of a number of attachments that are part of the following report which was prepared by MACTEC Engineering & Consulting Inc.:

Data Report
SCE&G COL Project
V.C. Summer Nuclear Plant
Subsurface Investigation and Laboratory Testing
Bechtel Subcontract No. 25242-102-HC4-CY00-00001
MACTEC Job No. 6234-06-3534

For background and a description of scope of work contained in the report, please refer to the above referenced report. The report was addressed as follows:

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The following list shows other Attachments to the above report and their included information:

Boring and OW Locations See Attachment A
Geotechnical Logs (Including Exploratory Borings at OW Locations).... See Attachment B
CPT Logs..... See Attachment D
Geophysical Test Data..... See Attachment E
Laboratory Test Data (Geotechnical)..... See Attachment F
Groundwater Test Data See Attachment G

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Kd Laboratory Test Data See Attachment H

Resonant Column-Torsional Shear Laboratory Test DataSee Attachment I

1.0 OBSERVATION WELLS

1.1 Exploratory Borings to Plan Well Installation

Exploratory borings were made near each OW location to obtain the information necessary for Bechtel to determine the depth(s) for the OW installation. The logs for these exploratory borings, which have the same numbers as the corresponding Observation Wells (OWs), are found in Attachment B of the report.

Exploratory borings for the OW locations may be classified as two types. The first type is those where the exploratory boring was not for geotechnical engineering information, but served only to obtain the information necessary for Bechtel to determine the depth for the OW screen. The soil portion of this type of exploratory boring may have been drilled with hollow-stem augers (HSA) and soil samples were obtained at approximately 5 ft depth intervals using the SPT sampler. These soil samples were suitable for laboratory testing but the SPT blow counts will not be used for geotechnical engineering purposes. The HSA drilling extended to the depth specified or to refusal to HSA drilling, and a one inch diameter PVC pipe (slotted) was placed in the boring as necessary to allow measurement of the water table depth over time for one to several days after the augers are removed. The depth to the water in the temporary PVC pipe was measured until the approximate stabilized water table depth was evaluated, after which the HSA boring was tremie grouted (using the one-inch PVC pipe as the tremie) and abandoned.

The second type of exploratory boring is one that is to be used for geotechnical information. In these, the drilling method was mud rotary (except within the upper 15 ft in some borings, where hollow stem augers were used) and the SPT samples were taken according to the Specification for the geotechnical borings. A temporary PVC pipe or other casing was used to keep these boreholes open, as necessary, to allow the water level within the borehole to equalize with the surrounding water table to provide the information necessary to determine the depth for the well screen(s) in the OW.

Following Bechtel's review of the exploratory borings including the depth to the water table as described above, the exploratory borings were filled with grout and abandoned. The observation wells were then installed using HSA, mud rotary, or air rotary drilling methods in accordance with the Specification and following Bechtel's directions for depth and other details. Diagrams of the wells are provided. The wells consist of PVC screen and riser pipe, sand filter pack, bentonite chips or pellets and cement bentonite grout. Protective steel well covers and concrete pads were placed at the surface as noted in the Specification.

1.2 Well Installation

Thirty One observation wells were installed on the site as part of this project – screened in the soil/weathered rock zone and in the rock. The wells were installed per Section 5.3 of the Specification.

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Boreholes for installation of all observation wells were advanced using either hollow stem auger, mud rotary or air rotary drilling to make a nominal 6 inch hole diameter. The holes were advanced to depths specified by Bechtel's field representative.

As discussed in Section 1.1, the observation wells were installed in separate borings made nearby the geotechnical borings as instructed by Bechtel, with the exception of OW-227, OW-617, OW-622, and OW-625. The geotechnical borings B-227, B-617, OW-622, and B-625 were reamed out and/or deepened for installation of these associated monitoring wells. The lithology shown on the Observation Well Logs for OW-227, OW-617, OW-622, and OW-625 is from the borehole in which the well was installed. The lithology shown on the remainder of the Observation Well Logs is from the nearby companion geotechnical borehole. The geotechnical borings were generally made between about 5 and 20 feet from the observation well (See survey coordinates for actual offset distance).

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Upon reaching the designated depth for a well, slotted PVC casing connected to solid sections was set. A sand pack and bentonite seal were then placed. A grout plug was placed from the top of the bentonite seal to the ground surface to each borehole. The grout mix specified in Section 4.13 of the Specification was used.

The depth of the screened interval, length of the screen and general well configuration were designated in the field for each well by Bechtel's field representative. Since the ground surface elevations at the wells sites were not determined until after the well pads were placed, the top of the PVC casing elevation, less the casing stickup above ground surface as measured at the time of installation, was used to back-calculate the ground surface elevation shown on the observation well logs. All water depth measurements are referenced to the top of the PVC casing. The elevation of the top of the casing was also used along with measurements of the well sections to calculate elevations for the well monitoring interval.

Construction details for all 31 wells are included in Appendix C-1 herein.

All wells were capped with a lockable steel well cover extending approximately two feet above grade. A concrete pad, two feet square and six inches thick, was also placed around each well cover per the Specification.

1.3 Well Development

After well installation was completed, wells were developed by pumping and bailing. The development procedure agreed to with Bechtel was first to bail until the water shows minimal sediment, then pump to remove at least 3 standing well volumes of water, cycling the pump on and off to create a surging effect. A well was considered developed when the pumped water was reasonably clear of suspended sediment and relatively clear to sight.

All wells were developed satisfactorily using the planned procedure. Well development records are included in Appendix C-2 herein.

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2.0 Field Permeability Tests

2.1 Slug Tests

Field permeability testing was conducted in each observation well (except OW 501) using procedures described in Section 8 of ASTM D 4044. This procedure is commonly termed the slug test method. Slug testing involves establishing a static water level, lowering a solid cylinder into the well to cause an increase of water level in the well and monitoring the time rate for the well water level to return to the pre-test static level. This method is commonly called the “slug-in” method. After that stabilization, the slug is rapidly removed to create a lowering of the water level in the well, and the time rate for water to recover to the pre-test static level is recorded. This method is commonly called the “Slug-out” method. Electronic transducers and data loggers are used for measuring the water levels and times during the test.

Table C-2 is a Slug Test Data Summary Sheet. Charts (graphs) of the water surface versus time during the slug tests are in Appendix C-3. The test data, the data logger output sheets, are contained on the CD included herein.

2.2 Packer tests

Field permeability testing by the packer method was conducted in selected exploratory borings using test procedures described in ASTM D 4630, modified to use a manually read flow meter rather than a digitally recorded one. The packer testing method involved establishing and maintaining a constant pressure in the packer test interval or test length, measured by an electronic transducer, and determining the rate of inflow associated with maintaining the pressure. The test method is thus known as the constant head injection test”. Five pressure values were generally used in each test interval. The boring locations for packer testing were identified in Bechtel’s letter No. 25242-102-T14-CY00-00022 dated June 9, 2006. That letter changes the test location and depths shown in the Specification to a scope of two test lengths (packer intervals) in each of four borings (B205, B212, B305, and B330). Boring B212 displayed difficulty in inserting the packers leading to concern about retrieving the packer assembly from the bore hole. Accordingly, Bechtel changed the requested test location from B212 to B201. Bechtel also requested a test length (packer interval) of 10 feet in all the tested borings instead of 5 feet as stated in the Specifications.

The purpose of the packer testing was to establish the coefficient of permeability (also called hydraulic conductivity) of the rock in the packer test length. Tables C-3 through C-6 show the calculated coefficient of permeability from the packer tests. Figures C-1 through C-4 show the flow rate versus pressure. The CD with the test data is included herein.

3.0 Water Level Measurements

On June 23, 2006 and again on July 25, 2006, MACTEC representatives checked water levels in 30 of the 31 monitoring wells. OW-501, located inside the existing VC Summer plant, was not monitored as part of this effort, due to the fact that this well was not installed until August 2, 2006. Measurements were made using an electric water level meter and referenced to the notched top of the casing. Water levels recorded are in Table C-7.

**TABLE C-1
OBSERVATION WELL CONSTRUCTION DETAILS SUMMARY
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S**

| WELL ID | Well Diameter (inches) | Drilling Method | Boring Diameter (inches) | Ground Surface Elevation (feet, msl) | Top of Casing Elevation (feet, msl) | Top of Bentonite Seal (feet, bgs) | Top of Sand (feet, bgs) | Screened Interval (feet, bgs) | Screen Length (feet) | Sump Length ¹ (feet) | Total Well Depth (feet, bgs) |
|---------|------------------------|-----------------|--------------------------|--------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------------|----------------------|---------------------------------|------------------------------|
| OW-205A | 2 | AR | 6 | 423.3 | 425.9 | 76 | 80 | 98.5-108.5 | 10 | 0.5 | 110 |
| OW-205B | 2 | HSA | 6.25 | 422.9 | 425 | 45.9 | 49.9 | 54.9-59.9 | 5 | 0.5 | 60 |
| OW-212 | 2 | HSA | 6.25 | 396.2 | 399.3 | 50 | 53 | 56-66 | 10 | 0.5 | 68 |
| OW-213 | 2 | HSA | 6.25 | 402.1 | 404.5 | 38.5 | 41.5 | 44.75-54.75 | 10 | 0.5 | 55.25 |
| OW-227 | 2 | AR | 6 | 422.7 | 425.1 | 64 | 67 | 71.25-81.25 | 10 | 2.5 | 84.25 |
| OW-233 | 2 | AR | 6 | 426.2 | 428.3 | 70 | 74 | 99-119 | 20 | 0.5 | 120 |
| OW-305A | 2 | AR | 6 | 424.9 | 427.8 | 90 | 95 | 119.5-139.5 | 20 | 0.5 | 141 |
| OW-305B | 2 | AR | 6 | 423.7 | 426.3 | 47 | 51 | 54.5-64.6 | 10 | 0.5 | 66.5 |
| OW-312 | 2 | HSA | 6.25 | 425.1 | 427.1 | 23.3 | 26.4 | 30.5-35.5 | 5 | 0.5 | 36.5 |
| OW-313 | 2 | HSA | 6.25 | 420.9 | 423.8 | 41.1 | 44.1 | 48-58 | 10 | 0.5 | 59 |
| OW-327 | 2 | AR | 6 | 410.7 | 413.4 | 48 | 51.5 | 55-65 | 10 | 0.5 | 66 |
| OW-333 | 2 | AR | 6 | 394.5 | 397.1 | 49 | 52 | 60-70 | 10 | 0.5 | 71 |
| OW-401A | 2 | AR | 6 | 404.1 | 406.3 | 60 | 76 | 80-90 | 10 | 2.5 | 92.5 |
| OW-401B | 2 | MR | 6 | 404.1 | 406.8 | 52 | 57 | 60-65 | 5 | 0.5 | 66 |
| OW-405 | 2 | MR/AR | 6 | 392.6 | 395.4 | 38 | 41 | 44-54 | 10 | 2.5 | 58.5 |
| OW-501 | 2 | MR | 6 | 429.5 | 431.9 | 13 | 17.5 | 20-30 | 10 | 2.5 | 32 |
| OW-612 | 2 | MR | 6 | 406.8 | 409.4 | 41 | 44.5 | 47.5-57.5 | 10 | 2.5 | 62 |
| OW-614 | 2 | MR | 6 | 376.1 | 379.1 | 15.5 | 18.5 | 21.5-31.5 | 10 | 2.5 | 33 |
| OW-617 | 2 | HSA | 6.25 | 447.2 | 450.1 | 89.6 | 93 | 98-108 | 10 | 0.5 | 108 |
| OW-618 | 2 | HSA | 6.25 | 307.4 | 310.5 | 10 | 13.8 | 18.5-28.5 | 10 | 2.5 | 32.5 |
| OW-619 | 2 | AR | 6 | 405.7 | 407.7 | 73.5 | 79.5 | 83-103 | 20 | 0.5 | 104 |
| OW-620 | 2 | MR | 6 | 382.8 | 385 | 71 | 74 | 76.6-86.5 | 10 | 2.5 | 91 |
| OW-621A | 2 | AR | 6 | 420.9 | 423.5 | 74 | 80 | 87.3-97.3 | 10 | 0.5 | 97.3 |
| OW-621B | 2 | HAS/AR | 6.25/6 | 421.2 | 423.6 | 52 | 55 | 60-70 | 10 | 0.5 | 71 |
| OW-622 | 2 | AR | 6 | 438.1 | 440.7 | 40.9 | 44.5 | 48.5-58.5 | 10 | 0.5 | 62 |
| OW-623 | 2 | AR | 6 | 439.6 | 441.8 | 67.5 | 72 | 76.5-86.5 | 10 | 2.5 | 90 |
| OW-624 | 2 | AR | 6 | 359.3 | 361.6 | 41.5 | 45 | 48.5-58.5 | 10 | 2.5 | 62 |
| OW-625 | 2 | HSA | 6.25 | 403.2 | 405.9 | 74 | 80.5 | 84.5-104.5 | 20 | 0.5 | 108 |
| OW-626 | 2 | MR | 6 | 416.4 | 418.8 | 55 | 63 | 71-81 | 10 | 2.5 | 85 |
| OW-627A | 2 | AR | 6 | 327.6 | 330.3 | 42 | 64 | 66-86 | 20 | 0.5 | 86 |
| OW-627B | 2 | HSA | 6.25 | 326.9 | 329.5 | 32 | 37 | 43-53 | 10 | 2.5 | 56 |

NOTES:

- ¹ Sumps with a length of 0.5 inches are generally included as part of the over all screen length.
- HSA Hollow stem augers.
- AR Air rotary/air hammer drilling method
- MR Mud rotary drilling method

- TOC Top of the well casing
- bgs Below ground surface
- msl Mean sea level
- NA Not Applicable

Prepared By/Date

mfc 1/26/07

Checked By/Date

cs 1/26/07

**TABLE C-2
SLUG TEST DATA SUMMARY SHEET
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S**

| WELL ID | Monitoring Well Dimension Data | | | | | | | | | | Aquifer Data | | | Slug Test Type | | | |
|---------|--------------------------------|-----------------|--------------------------|--------------------------------------|-------------------------------------|-------------------------|-------------------------------|----------------------|---------------------------------|------------------------------|---|---|---|-----------------|-----------|--|---|
| | Well Diameter (inches) | Drilling Method | Boring Diameter (inches) | Ground Surface Elevation (feet, msl) | Top of Casing Elevation (feet, msl) | Top of Sand (feet, bgs) | Screened Interval (feet, bgs) | Screen Length (feet) | Sump Length ¹ (feet) | Total Well Depth (feet, bgs) | Static Water Level ² (feet, TOC) | Depth of Well Penetration (feet) ⁴ | Saturated Thickness (feet) ⁴ | Slug Dimensions | Test Type | Rising Head Maximum Displacement ³ (feet) | Falling Head Maximum Displacement ³ (feet) |
| OW-205A | 2 | AR | 6 | 423.3 | 425.9 | 80 | 98.5-108.5 | 10 | 0.5 | 110 | 68.27 | 44.23 | 44.23 | 1 | B, R, F | 9.13 | 5.125 |
| OW-205B | 2 | HSA | 6.25 | 422.9 | 425 | 49.9 | 54.9-59.9 | 5 | 0.5 | 60 | 59.81 | 2.69 | 2.69 | 2 | B, R | 0.347 | |
| OW-212 | 2 | HSA | 6.25 | 396.2 | 399.3 | 53 | 56-66 | 10 | 0.5 | 68 | 47.95 | 22.55 | 22.55 | 1 | B, R, F | 1.629 | 3.267 |
| OW-213 | 2 | HSA | 6.25 | 402.1 | 404.5 | 41.5 | 44.75-54.75 | 10 | 0.5 | 55.25 | 45.29 | 12.46 | 12.46 | 1 | B, R | 3.265 | |
| OW-227 | 2 | AR | 6 | 422.7 | 425.1 | 67 | 71.25-81.25 | 10 | 2.5 | 84.25 | 63.70 | 23.05 | 23.05 | 2 | B, R, F | 5.406 | 4.434 |
| OW-233 | 2 | AR | 6 | 426.2 | 428.3 | 74 | 99-119 | 20 | 0.5 | 120 | 102.95 | 19.55 | 19.55 | 3 | B, R | 0.792 | |
| OW-305A | 2 | AR | 6 | 424.9 | 427.8 | 95 | 119.5-139.5 | 20 | 0.5 | 141 | 59.64 | 83.86 | 83.86 | 2 | B, R, F | 6.119 | 5.341 |
| OW-305B | 2 | AR | 6 | 423.7 | 426.3 | 51 | 54.5-64.6 | 10 | 0.5 | 66.5 | 58.92 | 10.08 | 10.08 | 1 | B, R | 6.56 | |
| OW-312 | 2 | HSA | 6.25 | 425.1 | 427.1 | 26.4 | 30.5-35.5 | 5 | 0.5 | 36.5 | DRY | NA | NA | NA | NA | NA | NA |
| OW-313 | 2 | HSA | 6.25 | 420.9 | 423.8 | 44.1 | 48-58 | 10 | 0.5 | 59 | 51.05 | 10.45 | 10.45 | 2 | B, R | 2.817 | |
| OW-327 | 2 | AR | 6 | 410.7 | 413.4 | 51.5 | 55-65 | 10 | 0.5 | 66 | 54.25 | 14.25 | 14.25 | 1 | B, R | 3.322 | |
| OW-333 | 2 | AR | 6 | 394.5 | 397.1 | 52 | 60-70 | 10 | 0.5 | 71 | 62.85 | 10.65 | 10.65 | 2 | B, R | 4.369 | |
| OW-401A | 2 | AR | 6 | 404.1 | 406.3 | 76 | 80-90 | 10 | 2.5 | 92.5 | 55.19 | 39.81 | 39.81 | 2 | B, R, F | 6.543 | 3.418 |
| OW-401B | 2 | MR | 6 | 404.1 | 406.8 | 57 | 60-65 | 5 | 0.5 | 66 | 55.80 | 12.70 | 12.70 | 2 | B, R, F | 7.944 | 5.482 |
| OW-405 | 2 | MR/AR | 6 | 392.6 | 395.4 | 41 | 44-54 | 10 | 2.5 | 58.5 | 41.65 | 19.35 | 19.35 | 2 | B, R, F | 3.128 | 5.631 |
| OW-612 | 2 | MR | 6 | 406.8 | 409.4 | 44.5 | 47.5-57.5 | 10 | 2.5 | 62 | 52.05 | 12.45 | 12.45 | 2 | B, R | 2.211 | |
| OW-614 | 2 | MR | 6 | 376.1 | 379.1 | 18.5 | 21.5-31.5 | 10 | 2.5 | 33 | 28.91 | 6.59 | 6.59 | 2 | B, R | 3.45 | |
| OW-617 | 2 | HSA | 6.25 | 447.2 | 450.1 | 93 | 98-108 | 10 | 0.5 | 108 | 100.70 | 9.80 | 9.80 | 2 | B, R | 3.65 | |
| OW-618 | 2 | HSA | 6.25 | 307.4 | 310.5 | 13.8 | 18.5-28.5 | 10 | 2.5 | 32.5 | 7.05 | 27.95 | 27.95 | 2 | B, R, F | 3.548 | 5.243 |
| OW-619 | 2 | AR | 6 | 405.7 | 407.7 | 79.5 | 83-103 | 20 | 0.5 | 104 | 104.00 | 2.50 | 2.50 | 4 | B, R | 1.081 | |
| OW-620 | 2 | MR | 6 | 382.8 | 385 | 74 | 76.6-86.5 | 10 | 2.5 | 91 | 36.98 | 56.52 | 56.52 | 2 | B, R, F | 5.695 | 5.893 |
| OW-621A | 2 | AR | 6 | 420.9 | 423.5 | 80 | 87.3-97.3 | 10 | 0.5 | 97.3 | 97.30 | 2.50 | 2.50 | 1 | B, R | 2.252 | |
| OW-621B | 2 | HAS/AR | 6.25/6 | 421.2 | 423.6 | 55 | 60-70 | 10 | 0.5 | 71 | 54.95 | 18.55 | 18.55 | 2 | B, R, F | 6.438 | 5.44 |
| OW-622 | 2 | AR | 6 | 438.1 | 440.7 | 44.5 | 48.5-58.5 | 10 | 0.5 | 62 | 46.67 | 17.83 | 17.83 | 1 | B, R, F | 5.402 | 4.161 |
| OW-623 | 2 | AR | 6 | 439.6 | 441.8 | 72 | 76.5-86.5 | 10 | 2.5 | 90 | 72.10 | 20.40 | 20.40 | 2 | B, R, F | 4.569 | 5.66 |
| OW-624 | 2 | AR | 6 | 359.3 | 361.6 | 45 | 48.5-58.5 | 10 | 2.5 | 62 | 56.67 | 7.83 | 7.83 | 2 | B, R | 5.872 | |
| OW-625 | 2 | HSA | 6.25 | 403.2 | 405.9 | 80.5 | 84.5-104.5 | 20 | 0.5 | 108 | 89.00 | 21.50 | 21.50 | 2 | B, R | 3.272 | |
| OW-626 | 2 | MR | 6 | 416.4 | 418.8 | 63 | 71-81 | 10 | 2.5 | 85 | 49.90 | 37.60 | 37.60 | 2 | B, R, F | 3.959 | 5.872* |
| OW-627A | 2 | AR | 6 | 327.6 | 330.3 | 64 | 66-86 | 20 | 0.5 | 86 | 65.03 | 23.47 | 23.47 | 1 | B, R, F | 4.38 | 4.166** |
| OW-627B | 2 | HSA | 6.25 | 326.9 | 329.5 | 37 | 43-53 | 10 | 2.5 | 56 | 12.39 | 46.11 | 46.11 | 2 | B, R, F | 9.85 | 5.616 |

NOTES:

- 1 Sumps with a length of 0.5 inches are generally included as part of the over all screen length.
 - 2 Static water levels recorded prior to running the slug test.
 - 3 Water levels has been corrected to reflect total displacement (from time 0).
 - 4 Survey data not available at the time of this draft report. The correction from bgs to toc assumes a stickup of 2.5 feet for all wells.
- HSA Hollow stem augers.
 AR Air rotary/air hammer drilling method
 MR Mud rotary drilling method
 TOC Top of the well casing
 bgs Below ground surface
 msl Mean sea level
- 1 Slug weight = 8.40 pounds, diameter = 1.6 inches, length = 5.5 feet
 - 2 Slug weight = 9.09 pounds, diameter = 1.625 inches, length = 5.5 feet
 - 3 Slug weight = 3.94 pounds, diameter = 1.1 inches, length = 4.46 feet
 - 4 Approximately 1/4 gallon (bail well dry).
- B Background Test
 R Rising Head Test
 F Falling Head Test
 * Water level corrected using recovery data (last point).
 ** Water level corrected using field measurements (see field notes)

Prepared By/Date

mfc 1/26/07

Checked By/Date

CS 1/26/07

DCN 362Rev2

TABLE C-3
B201 Packer Test Results
SCE&G COL PROJECT

MACTEC ENGINEERING AND CONSULTING, INC.
 PROJECT # 6234-06-3534S

Given Parameters

Test Section Length ℓ , ft: 10
 Radius of Borehole r_o , ft: 0.1667
 GW Elevation, ft: 65

Interval: 65-75

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 0 | 4.8 | 3.33 | 22.51 | 8.58 | 0.0000 | 51.95 | - |
| 2 | 0 | 20.5 | 3.05 | 44.71 | 7.46 | 0.0000 | 103.18 | - |
| 3 | 0.4 | 42.4 | 2.83 | 68.31 | 6.83 | 0.0009 | 157.64 | 12 ⁽¹⁾ |
| 4 | 0 | 9.4 | 2.62 | 33.67 | 6.45 | 0.0000 | 77.70 | - |
| 5 | 0.467 | 40.4 | 2.44 | 67.99 | 6.45 | 0.0010 | 156.90 | 14 ⁽¹⁾ |

K_e, ft/year **0**

Interval: 86-96

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 0 | 0 | 13.97 | 28.94 | 0.703 | 0.0000 | 66.78 | - |
| 2 | 0.3 | 13.9 | 18.37 | 53.49 | 20.37 | 0.0007 | 123.44 | 11 ⁽¹⁾ |
| 3 | 6.4 | 42.1 | 14.69 | 79.99 | 19.46 | 0.0143 | 184.59 | 159 ⁽¹⁾ |
| 4 | 1 | 0.9 | 12.33 | 40.14 | 17.01 | 0.0022 | 92.63 | 49 |
| 5 | 6 | 42.2 | 10.94 | 79.65 | 18.37 | 0.0134 | 183.81 | 150 ⁽¹⁾ |

K_e, ft/year **49**

Notes:

Q = flow rate, gallons per minute (GPM)

Test Number, flow rate (GPM) and gauge pressure taken from field measurements. Pressures above, at and below the test section collected via pressure transducers.

P_g is equal to gauge pressure, P_T is pressure above the top packer (psi), P_M is pressure at the test section (psi), P_B is pressure below bottom packer (psi)

H_M is P_M converted to feet of head ($P_g \cdot 144 \text{ in}^2/\text{ft}^2 / \gamma_w$)

$K_e = ((Q/H_M) \cdot (1/\ell)) \cdot 1/2\pi \cdot \ln(R/r_o) \cdot (525,600 \text{ min/year}) \cdot (1.337 \text{ ft}^3/\text{gal})$

R is equal to total length between packers, ℓ

Radius of borehole (r_o) taken from outside diameter of boring, 4 inches

Pressure taken from final data point for transducers prior to shut-in test

⁽¹⁾ indicates data beyond the linear range of Q v H_M

SSy: MJD 8/25/06

CR: CES 8/25/06

TABLE C-4
B205 Packer Test Results
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S

Given Parameters

Test Section Length ℓ , ft: 10
 Radius of Borehole r_o , ft: 0.1667
 GW Elevation, ft: 58.2

Interval: 59-69

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy | |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|--------------------------|------------|
| 1 | 5.2 | 5.3 | -0.153 | 21.19 | 4.87 | 0.0116 | 48.90 | 487 | |
| 2 | 8.8 | 17.9 | -0.155 | 42.05 | 5.8 | 0.0196 | 97.04 | 415 | |
| 3 | 12.8 | 41 | -0.155 | 62.21 | 7.21 | 0.0285 | 143.56 | 408 | |
| 4 | 6.2 | 5.7 | -0.156 | 31.43 | 4.52 | 0.0138 | 72.53 | 392 | |
| 5 | 12.2 | 41.4 | -0.158 | 63.29 | 6.67 | 0.0272 | 146.05 | 383 | |
| | | | | | | | | K _e , ft/year | 417 |

Interval: 96-106

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy | |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|--------------------------|----------|
| 1 | NR | NR | - | - | - | - | - | - | |
| 2 | 0 | NR | 0.8 | 24.06 | 22.09 | 0.0000 | 55.52 | - | |
| 3 | 0 | 9.3 | 0.702 | 35.91 | 21.65 | 0.0000 | 82.87 | - | |
| 4B | 0 | 43.5 | 0.649 | 82.17 | 23.11 | 0.0000 | 189.62 | - | |
| | | | | | | | | K _e , ft/year | 0 |

Notes:

Q = flow rate, gallons per minute (GPM)

Test Number, flow rate (GPM) and gauge pressure taken from field measurements. Pressures above, at and below the test section collected via pressure transducers.

P_g is equal to gauge pressure, P_T is pressure above the top packer (psi), P_M is pressure at the test section (psi), P_B is pressure below bottom packer (psi)

H_M is PT converted to feet of head ($P_g * 144 \text{ in}^2 / \text{ft}^2 / \gamma_w$)

$K_e = ((Q/H_M) * (1/\ell)) * 1/2\pi * \ln(R/r_o) * (525,600 \text{ min/year}) * (.1337 \text{ ft}^3/\text{gal})$

R is equal to total length between packers, ℓ

Radius of borehole (r_o) taken from outside diameter of boring, 4 inches

Pressure taken from final data point for transducers prior to shut-in test

NR = Test 1 not run, Test 2 surface gauge pressure not recorded

By: *MJD* 8/25/06

CR: *CES* 8/25/06

TABLE C-5
B305 Packer Test Results
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S

Given Parameters

Test Section Length ℓ , ft: 10
 Radius of Borehole r_o , ft: 0.1667
 GW Elevation, ft: 57.2

Interval: 62-72

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 1 | 9.7 | 1.27 | 21.06 | 9.55 | 0.0022 | 48.60 | 94 |
| 2 | 1.8 | 14.3 | 1.19 | 41.63 | 9.39 | 0.0040 | 96.07 | 86 |
| 3 | 2.6 | 33.7 | 1.15 | 63.01 | 9.38 | 0.0058 | 145.41 | 82 |
| 4 | 1.4 | 9.3 | 1.07 | 31.59 | 9.32 | 0.0031 | 72.90 | 88 |
| 5 | 2.6 | 34.1 | 1.1 | 62.97 | 9.33 | 0.0058 | 145.32 | 82 |

K_e, ft/year **86**

Interval: 72-82

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 0 | 0 | 13.57 | 26.68 | 26.98 | 0.0000 | 61.57 | - |
| 2 | 0 | 20.5 | 8.17 | 46.93 | 24.47 | 0.0000 | 108.30 | - |
| 3 | 0.1 | 42 | 7.14 | 70.88 | 72.93 | 0.0002 | 163.57 | 3 ⁽¹⁾ |
| 4 | 0 | 8.8 | 6.16 | 35.14 | 40.91 | 0.0000 | 81.09 | - |
| 5 | 0 | 39.2 | 5.39 | 69.99 | 74.86 | 0.0000 | 161.52 | - |

K_e, ft/year **0**

Notes:

Q = flow rate, gallons per minute (GPM)

Test Number, flow rate (GPM) and gauge pressure taken from field measurements. Pressures above, at and below the test section collected via pressure transducers.

P_g is equal to gauge pressure, P_T is pressure above the top packer (psi), P_M is pressure at the test section (psi), P_B is pressure below bottom packer (psi)

H_M is PT converted to feet of head ($P_g \cdot 144 \text{ in}^2/\text{ft}^2 / \gamma_w$)

$K_e = ((Q/H_M) \cdot (1/\ell)) \cdot 1/2\pi \cdot \ln(R/r_o) \cdot (525,600 \text{ min/year}) \cdot (.1337 \text{ ft}^3/\text{gal})$

R is equal to total length between packers, ℓ

Radius of borehole (r_o) taken from outside diameter of boring, 4 inches

Pressure taken from final data point for transducers prior to shut-in test

⁽¹⁾ indicates data beyond the linear range of Q v H_M

By: mJD 8/25/06

CK: CES 8/25/06

TABLE C-6
B330 Packer Test Results
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S

Given Parameters

Test Section Length ℓ , ft: 10
 Radius of Borehole r_o , ft: 0.1667
 GW Elevation, ft: 51.5

Interval: 57-67

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------------------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 0 | 3.7 | 5.67 | 18.36 | 14.27 | 0.0000 | 42.37 | - |
| 2 | 0.1 | 16.1 | 3.85 | 38.1 | 9.89 | 0.0002 | 87.92 | 5 |
| 3 | 0.1 | 37.2 | 3.32 | 59.79 | 12.01 | 0.0002 | 137.98 | 3 |
| 4 | 0.2 | 8.3 | 4.81 | 28.74 | 9.24 | 0.0004 | 66.32 | 14 |
| 5 | 0.1 | 33.4 | 2.86 | 58.47 | 8.91 | 0.0002 | 134.93 | 3 |
| K_e, ft/year | | | | | | | | 5 |

Interval: 67-77

| Test Number | Q, GPM | P _g , psi | P _T , psi | P _M , psi | P _B , psi | Q, cfs | H _M , ft | K _e , fpy |
|-------------------------------|--------|----------------------|----------------------|----------------------|----------------------|--------|---------------------|----------------------|
| 1 | 0 | 7.5 | 0.48 | 21.31 | 16.96 | 0.0000 | 49.18 | - |
| 2 | 2.2 | 13.6 | 0.284 | 43.89 | 12.5 | 0.0049 | 101.28 | 99 |
| 3 | 4.6 | 35.5 | 0.361 | 65.01 | 11.57 | 0.0103 | 150.02 | 140 ⁽¹⁾ |
| 4 | 1.4 | 2.2 | 0.233 | 32.53 | 14.01 | 0.0031 | 75.07 | 85 |
| 5 | 4.2 | 34.6 | 0.195 | 64.21 | 13.16 | 0.0094 | 148.18 | 130 ⁽¹⁾ |
| K_e, ft/year | | | | | | | | 92 |

Notes:

Q = flow rate, gallons per minute (GPM)

Test Number, flow rate (GPM) and gauge pressure taken from field measurements. Pressures above, at and below the test section collected via pressure transducers.

P_g is equal to gauge pressure, P_T is pressure above the top packer (psi), P_M is pressure at the test section (psi), P_B is pressure below bottom packer (psi)

H_M is PT converted to feet of head ($P_g \cdot 144 \text{ in}^2 / \text{ft}^2 / \gamma_w$)

$K_e = ((Q/H_M) \cdot (1/\ell)) \cdot 1/2 \pi \cdot \ln(R/r_o) \cdot (525,600 \text{ min/year}) \cdot (.1337 \text{ ft}^3/\text{gal})$

R is equal to total length between packers, ℓ

Radius of borehole (r_o) taken from outside diameter of boring, 4 inches

Pressure taken from final data point for transducers prior to shut-in test

⁽¹⁾ indicates data beyond the linear range of Q v H_M

By: MSD 8/25/06

CK: CES 8/25/06

TABLE C-7
WATER LEVEL DATA SUMMARY SHEET
SCE&G COL PROJECT
MACTEC ENGINEERING AND CONSULTING, INC.
PROJECT # 6234-06-3534S

| WELL ID | Ground Surface Elevation (feet, msl) | Top of Casing Elevation (feet, msl) | DTW 6/23/2006 (feet, btoc) | DTW 7/25/2006 (feet, btoc) | Water Level Meter Make and Model | Water Level Meter Serial No. |
|---------|--------------------------------------|-------------------------------------|----------------------------|----------------------------|----------------------------------|------------------------------|
| OW-205A | 423.3 | 425.9 | 68.61 | 68.61 | Solinst Model 101 | 41882 |
| OW-205B | 422.9 | 425 | 60.05 | 59.99 | Solinst Model 101 | 41882 |
| OW-212 | 396.2 | 399.3 | 47.90 | 48.25 | Solinst Model 101 | 41882 |
| OW-213 | 402.1 | 404.5 | 45.33 | 45.42 | Solinst Model 101 | 41882 |
| OW-227 | 422.7 | 425.1 | 63.64 | 63.76 | Solinst Model 101 | 41882 |
| OW-233 | 426.2 | 428.3 | 105.85 | 88.45 | Solinst Model 101 | 41882 |
| OW-305A | 424.9 | 427.8 | 59.60 | 59.51 | Solinst Model 101 | 41882 |
| OW-305B | 423.7 | 426.3 | 58.90 | 58.82 | Solinst Model 101 | 41882 |
| OW-312 | 425.1 | 427.1 | DRY | DRY | Solinst Model 101 | 41882 |
| OW-313 | 420.9 | 423.8 | 51.00 | 51.11 | Solinst Model 101 | 41882 |
| OW-327 | 410.7 | 413.4 | 54.17 | 54.25 | Solinst Model 101 | 41882 |
| OW-333 | 394.5 | 397.1 | 63.22 | 62.37 | Solinst Model 101 | 41882 |
| OW-401A | 404.1 | 406.3 | 55.11 | 55.31 | Solinst Model 101 | 41882 |
| OW-401B | 404.1 | 406.8 | 55.76 | 55.94 | Solinst Model 101 | 41882 |
| OW-405 | 392.6 | 395.4 | 41.60 | 41.72 | Solinst Model 101 | 41882 |
| OW-501 | 429.5 | 431.9 | installed 8/2/2006 | installed 8/2/2006 | Solinst Model 101 | 41882 |
| OW-612 | 406.8 | 409.4 | 52.05 | 52.15 | Solinst Model 101 | 41882 |
| OW-614 | 376.1 | 379.1 | 29.18 | 29.95 | Solinst Model 101 | 41882 |
| OW-617 | 447.2 | 450.1 | 100.84 | 100.95 | Solinst Model 101 | 41882 |
| OW-618 | 307.4 | 310.5 | 7.00 | 7.16 | Solinst Model 101 | 41882 |
| OW-619 | 405.7 | 407.7 | 104.66 | 103.81 | Solinst Model 101 | 41882 |
| OW-620 | 382.8 | 385 | 36.91 | 37.20 | Solinst Model 101 | 41882 |
| OW-621A | 420.9 | 423.5 | 97.60 | 95.98 | Solinst Model 101 | 41882 |
| OW-621B | 421.2 | 423.6 | 54.95 | 55.05 | Solinst Model 101 | 41882 |
| OW-622 | 438.1 | 440.7 | 46.70 | 46.76 | Solinst Model 101 | 41882 |
| OW-623 | 439.6 | 441.8 | 72.10 | 72.16 | Solinst Model 101 | 41882 |
| OW-624 | 359.3 | 361.6 | 59.13 | 54.05 | Solinst Model 101 | 41882 |
| OW-625 | 403.2 | 405.9 | 88.95 | 88.79 | Solinst Model 101 | 41882 |
| OW-626 | 416.4 | 418.8 | 49.87 | 49.99 | Solinst Model 101 | 41882 |
| OW-627A | 327.6 | 330.3 | 71.75 | 62.80 | Solinst Model 101 | 41882 |
| OW-627B | 326.9 | 329.5 | 12.18 | 12.31 | Solinst Model 101 | 41882 |

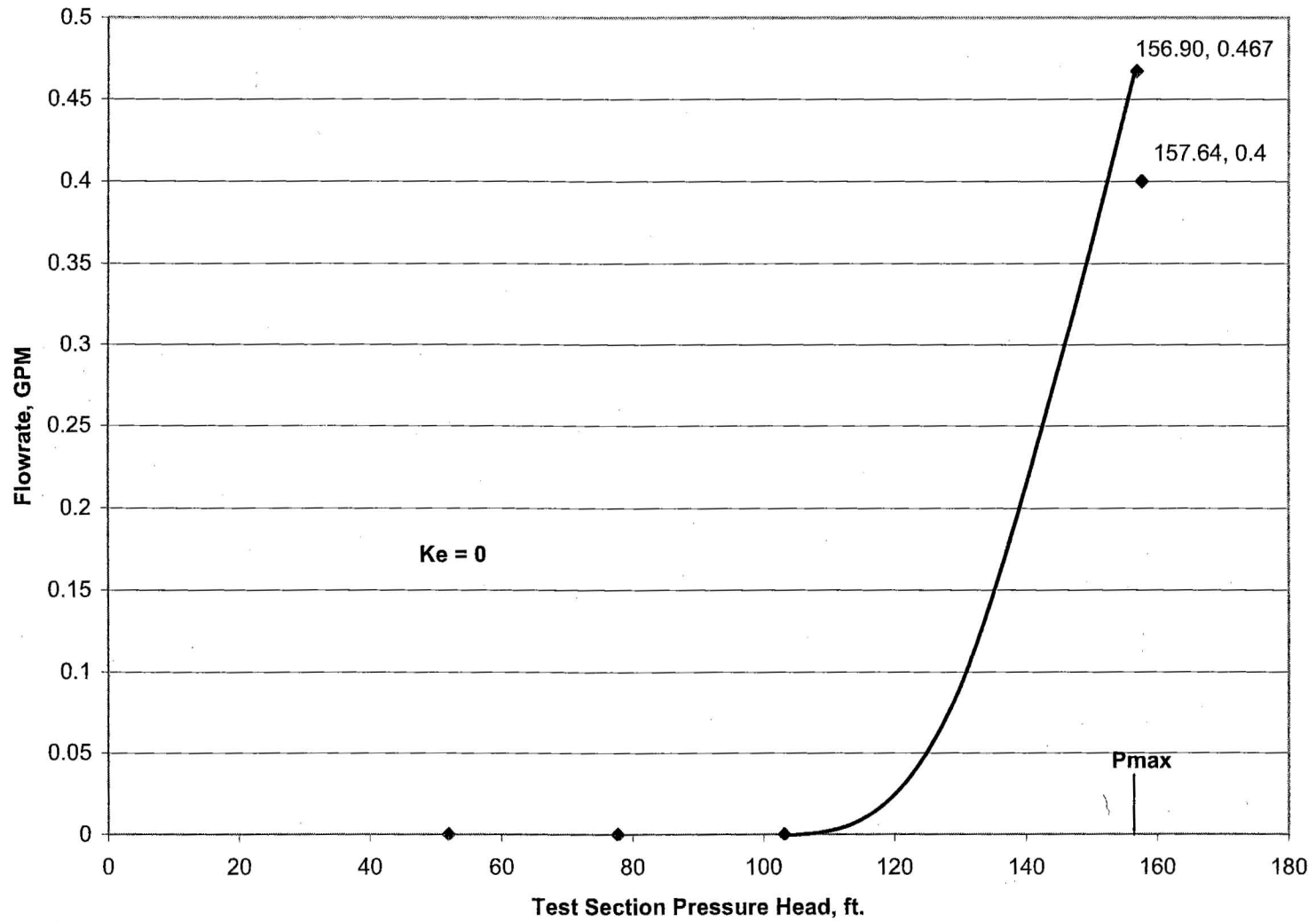
NOTES:

- TOC Top of the well casing
- bgs Below ground surface
- DTW Depth to Water
- btoc Below Top of Casing
- msl Mean sea level
- NA Not Applicable

Prepared By/Date
MFC 10/5/06
Checked By/Date
CES 11/7/06

FINAL REPORT
ATTACHMENT C
Figures C-1 through C-4

Pressure Head vs. Flowrate, B-201 Interval 65-75 ft. bls

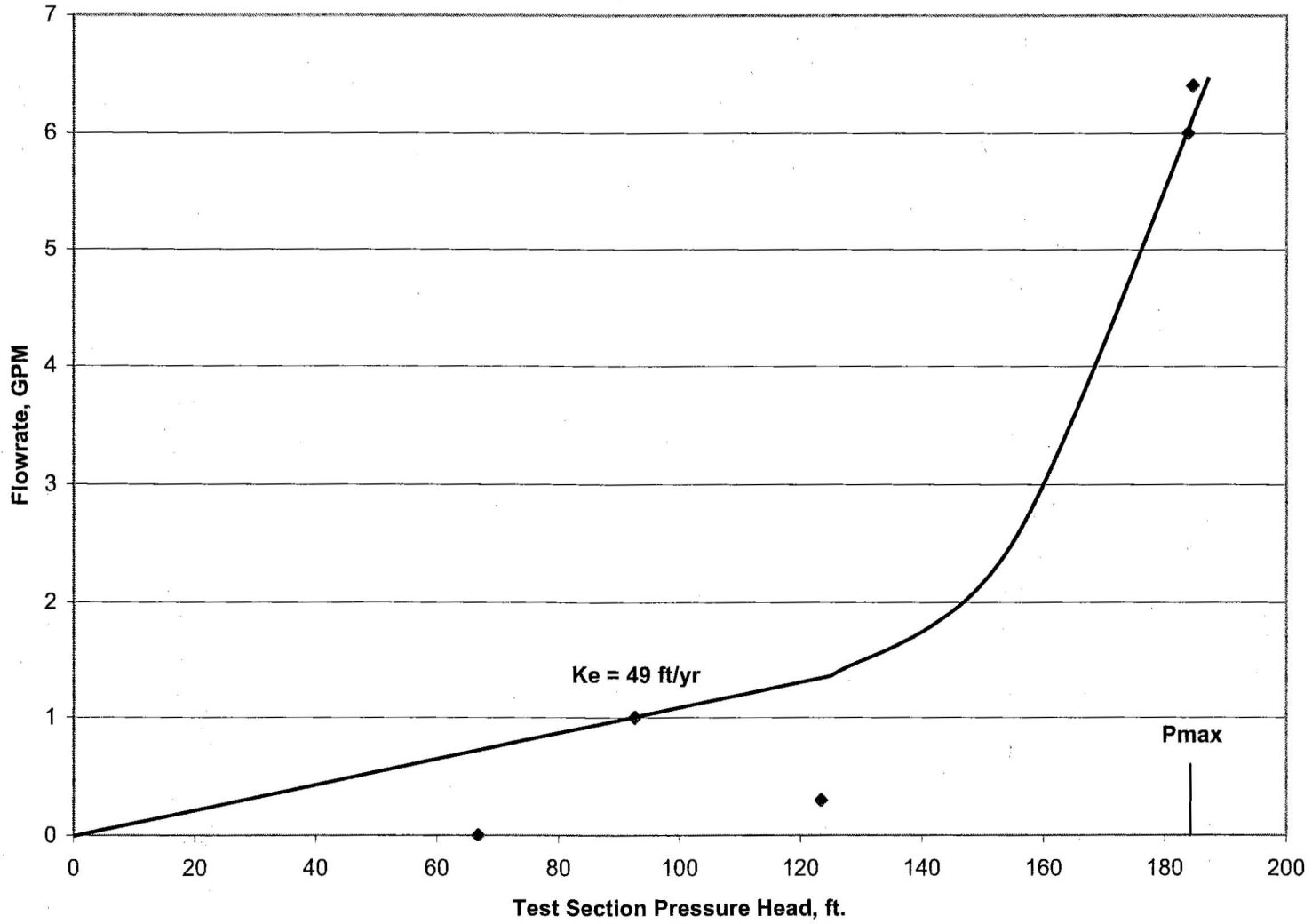


◆ Pressure Head
 By: mtd 8/25/06
 CK: CES 11/7/06

$D_w = 65 \text{ ft}$
 $P_{\text{max}} = 65 + (70-65)(0.57)$
 $P_{\text{max}} = 67.85 \text{ psi} = 157 \text{ ft}$

Figure C-1 (1 of 2) B201 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-201 Interval 86-96 ft. bls



◆ Pressure Head

By: MOD 8/25/06
 ck: CBS 11/7/06

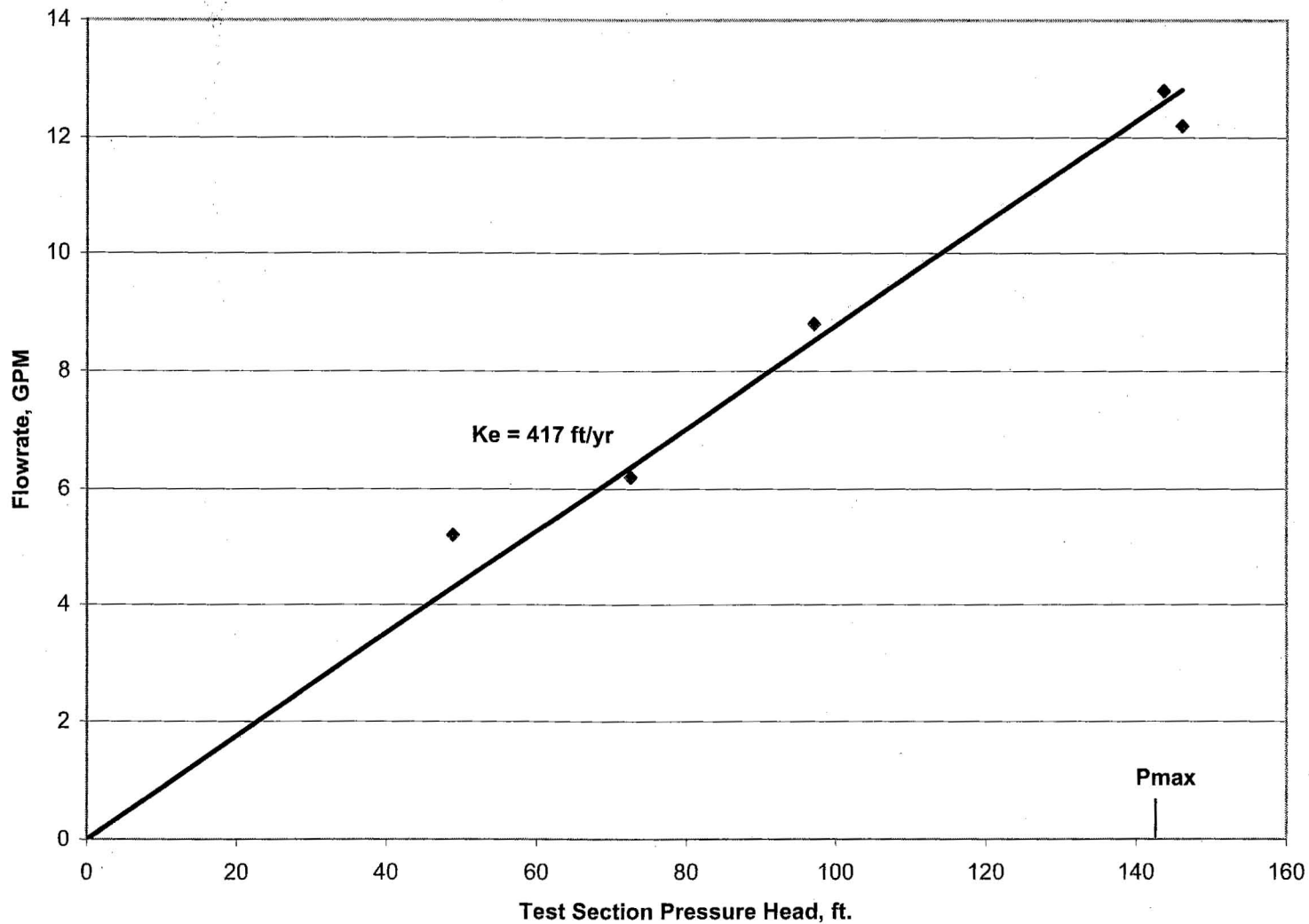
$$D_w = 65 \text{ ft}$$

$$P_{\text{max}} = 65 + (91-65)(0.57)$$

$$P_{\text{max}} = 79.82 \text{ psi} = 184 \text{ ft}$$

Figure C-1 (2 of 2) B201 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-205 Interval 59-69 ft. bls



◆ Pressure Head
 By: mjd 8/25/06
 CK: CES 11/7/06

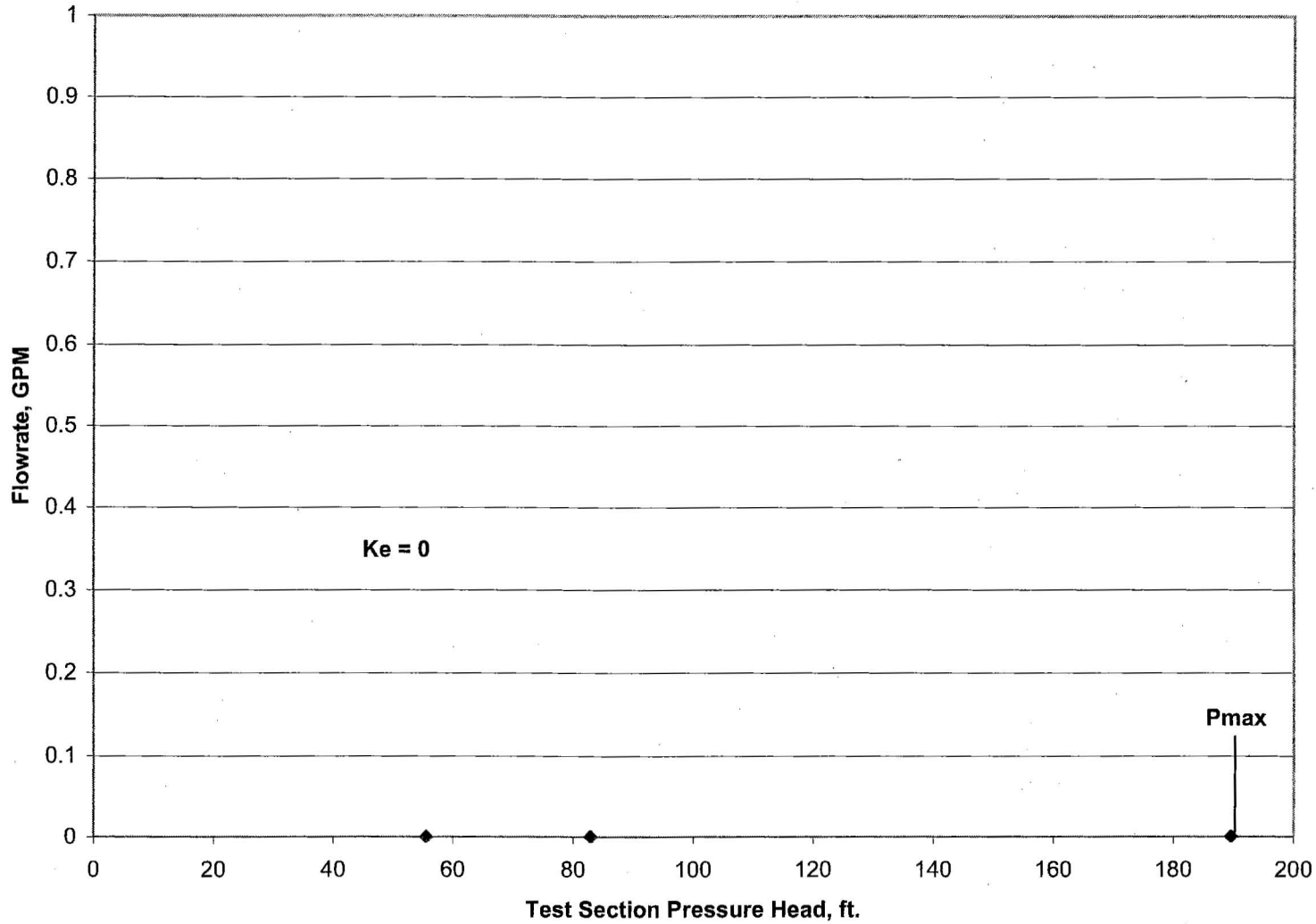
$$D_w = 58.2 \text{ ft}$$

$$P_{\max} = 58.2 + (64 - 58.2)(0.57)$$

$$P_{\max} = 61.4 \text{ psi} = 142 \text{ ft}$$

Figure C-2 (1 of 2) B 205 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-205 Interval 96-106 ft. bls



By: mjd 8/25/06
 CK: CCS 11/7/06

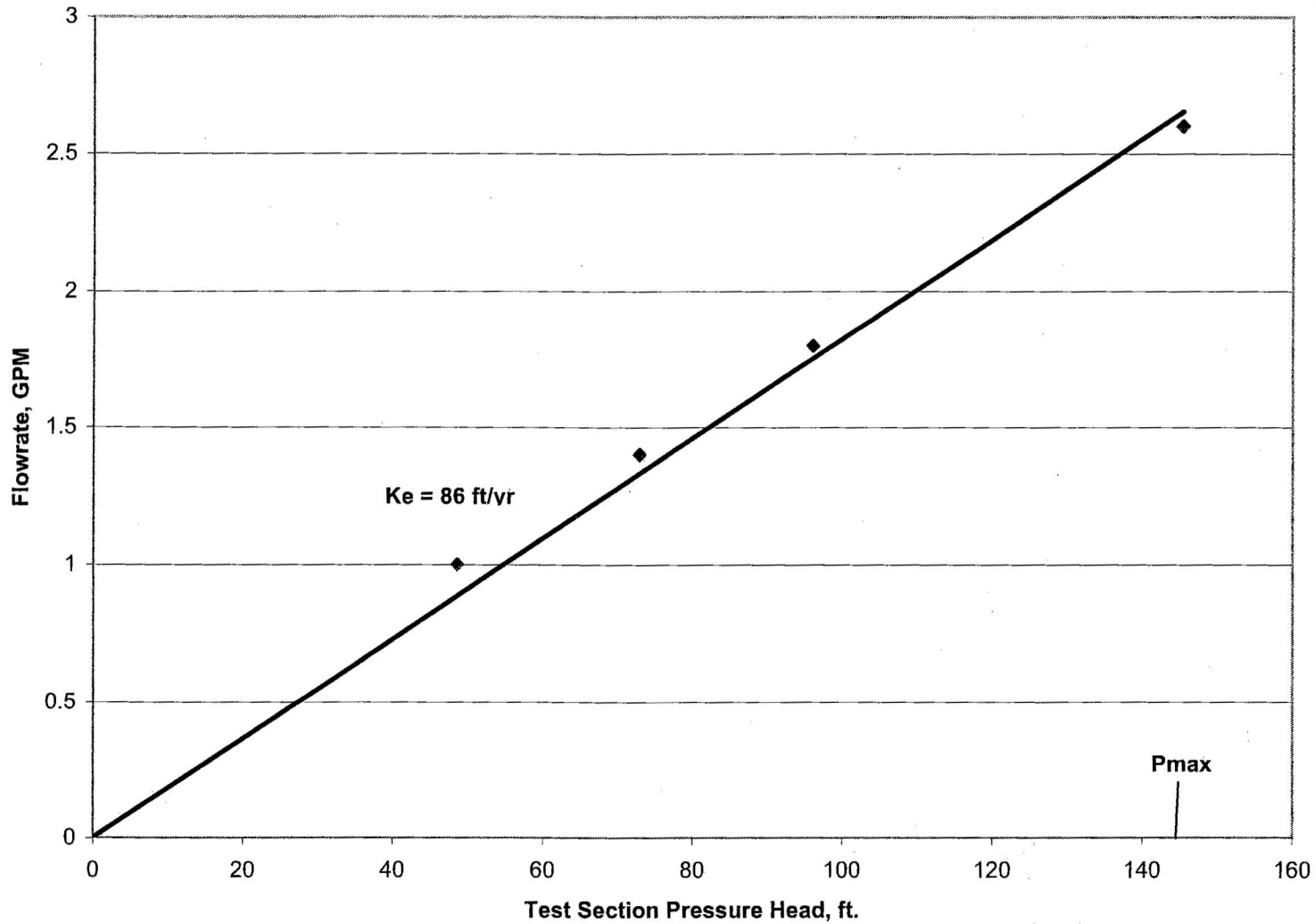
$$D_w = 58.2 \text{ ft}$$

$$P_{\max} = 58.2 + (101 - 58.2)(0.57)$$

$$P_{\max} = 82.5 \text{ psi} = 190 \text{ ft}$$

Figure C-2 (2 of 2) B-205 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-305 Interval 62-72 ft. bls



◆ Pressure Head
 By: MJD 8/25/06
 CK: CES 11/7/06

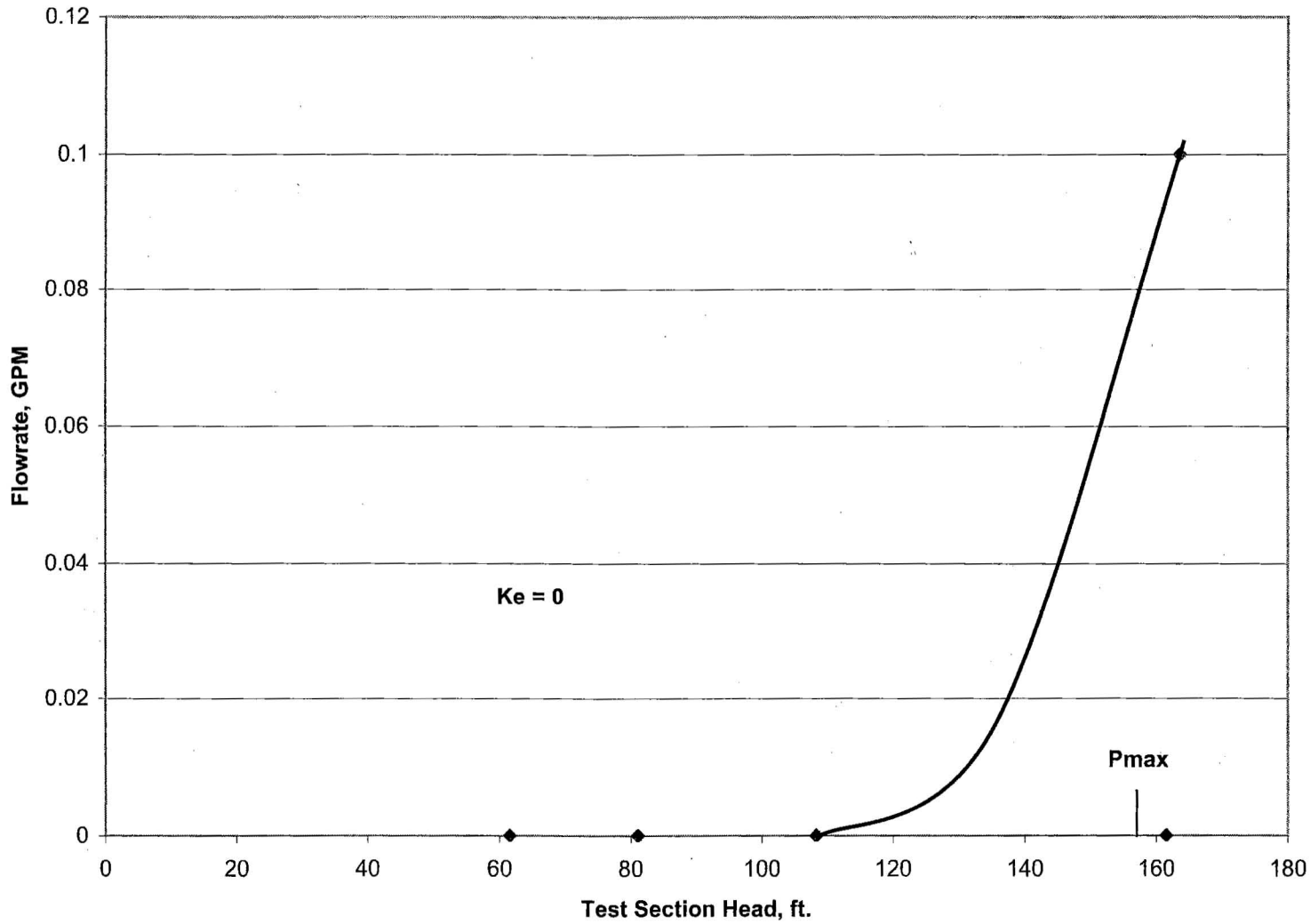
$$D_w = 57.2 \text{ ft}$$

$$P_{\text{max}} = 57.2 + (67-57.2)(0.57)$$

$$P_{\text{max}} = 62.7 \text{ psi} = 145 \text{ ft}$$

Figure C-3(1 of 2) B-305 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-305 Interval 72-82 ft. bls



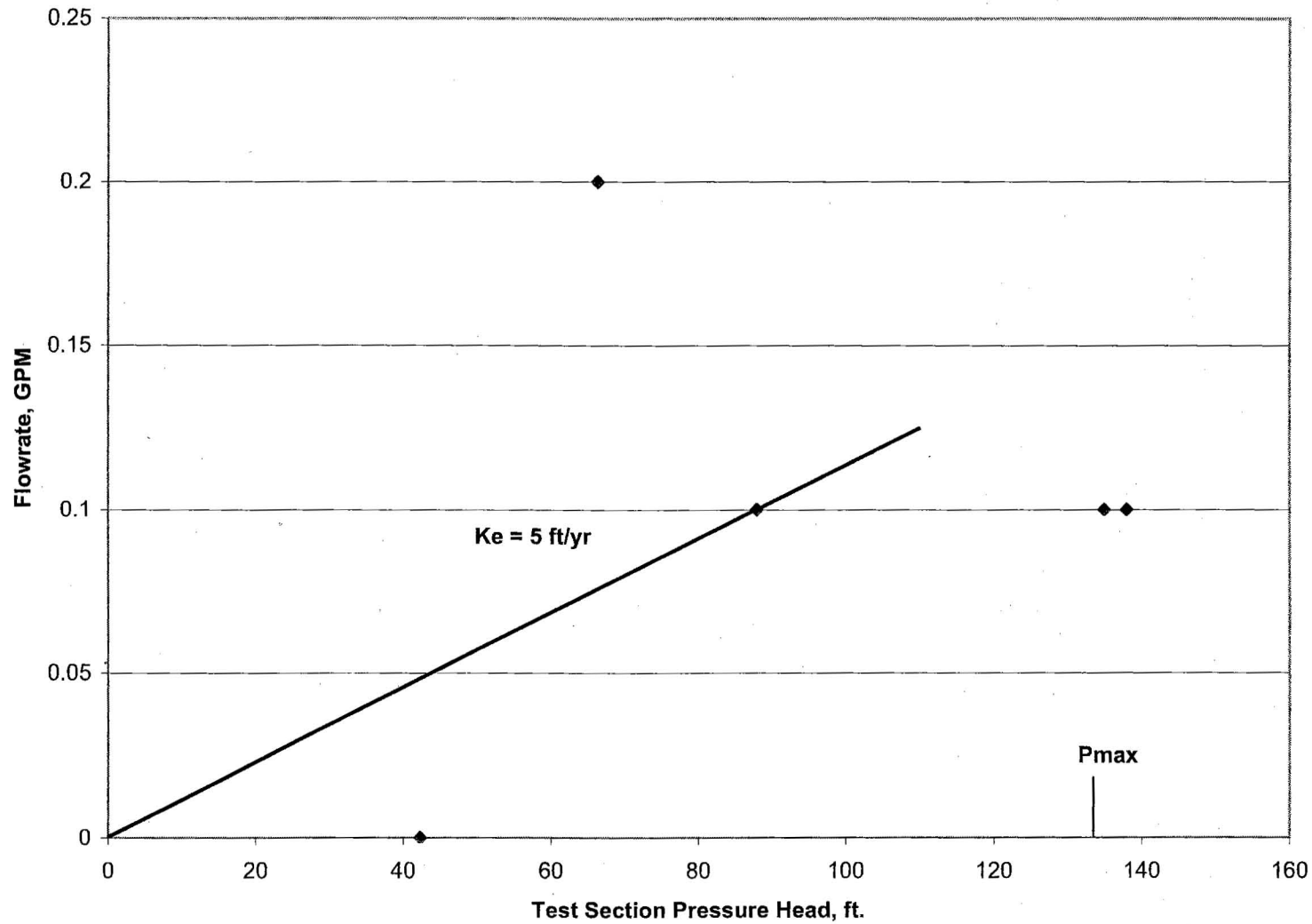
$$D_w = 57.2 \text{ ft}$$

$$P_{\text{max}} = 57.2 + (77-57.2)(0.57)$$

$$P_{\text{max}} = 68.4 \text{ psi} = 158 \text{ ft}$$

Figure C-3 (2 of 2) B-305 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-330 Interval 57-67 ft. bls



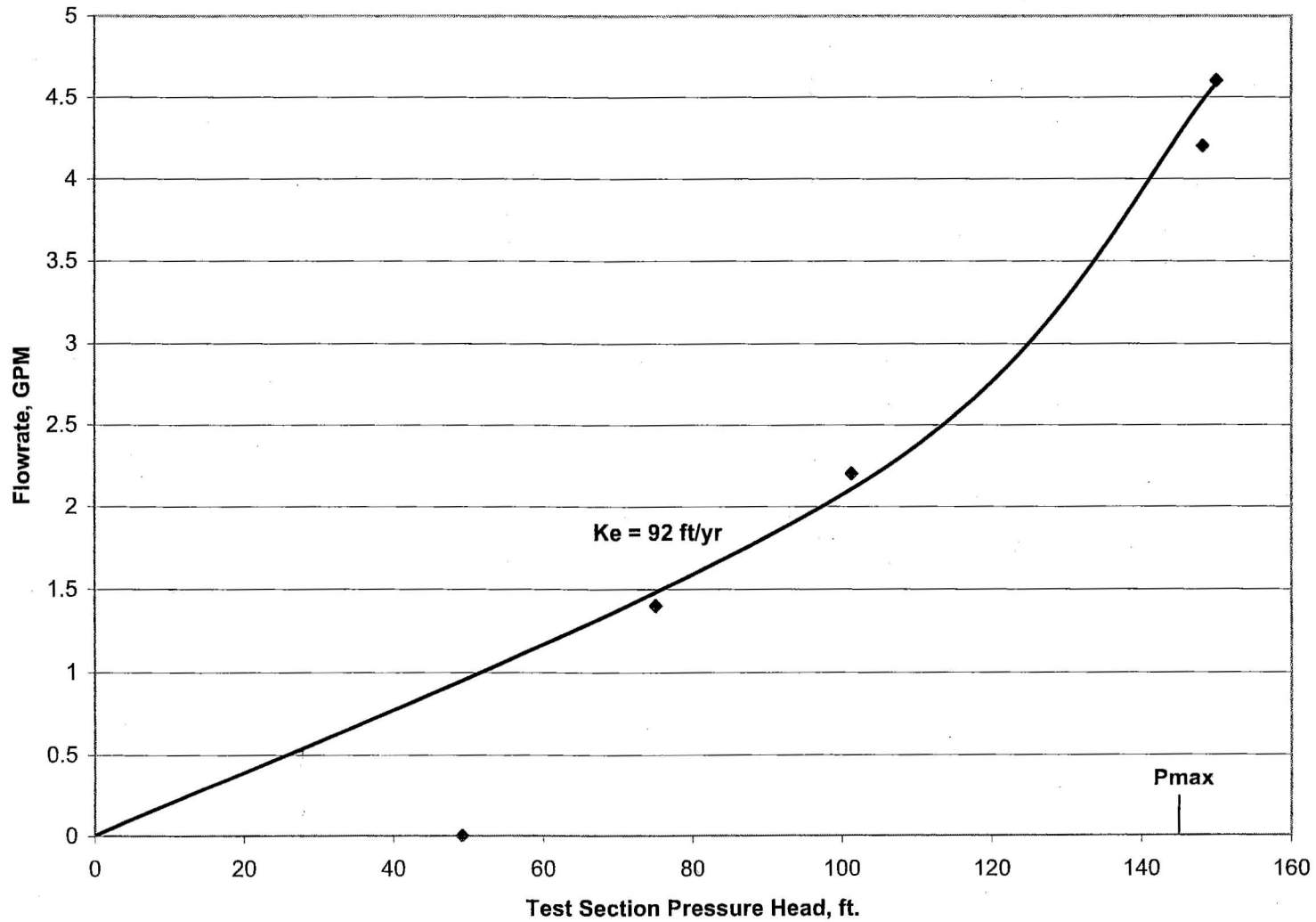
$$D_w = 51.5 \text{ ft}$$

$$P_{\text{max}} = 51.5 + (62.5 - 51.5)(0.57)$$

$$P_{\text{max}} = 57.5 \text{ psi} = 133 \text{ ft}$$

Figure C-4 (1 of 2) B-330 Packer Flow Rate vs Pressure

Pressure Head vs. Flowrate, B-330 Interval 67-77 ft. bls



◆ Pressure Head
 By: MSD 8/25/06
 CK: CES 11/7/06

$$D_w = 51.5 \text{ ft}$$

$$P_{\text{max}} = 51.5 + (72.5 - 51.5)(0.57)$$

$$P_{\text{max}} = 63.2 \text{ psi} = 146 \text{ ft}$$

Figure C-4 (2 of 2) B-330 Packer Flow Rate vs Pressure

Final Report

Appendix C-1

Observation Well Logs

**NOTE ABOUT GROUNDWATER DEPTHS FOR OBSERVATION
WELL LOGS IN ATTACHMENT C, APPENDIX C-1**

The water depths on these logs are from observations during drilling of the exploratory borings, whose logs are in Attachment B. Because water was introduced during rotary and core drilling, the water depths on the observation well logs may not represent the stabilized water depths. For stabilized water depths at the observation wells, the information in Attachment C, Table C-7 should be consulted.

| | | | |
|--|--|---|---|
| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-205A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location Nuclear Island | Total Depth 175 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | | Elevation at Boring 423.1 feet | Ground Water Depth Depth to Bedrock 54 feet |
| Sampling Method (Boring) Split Spoon | | Elevation at Well 423.3 feet | No. of Samples 15 Date Started (Well) 5/30/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed (Well) 5/30/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|---|--|---------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 2 | 4 | 14 | | | | CL-ML | CLAY silty (CL-ML); red (2.5 YR 4/8); damp, medium stiff; fine sand 5%; small roots, small rock fragments. RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Started drilling 5/1/06 Residuuum Rock clogged SPT sampler opening | | |
| 2 | SPT 2 | 4 | 8 | 14 | | | | ML | SILT sandy (ML); red (2.5 YR 4/8); damp, stiff; 22% sand; RESIDUUM | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 4 | 4 | | | | | SAA, large rock fragment, wet | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | SILT sandy (ML); dark red (2.5 YR 3/2); moist, stiff, 29% sand; RESIDUUM | | | |
| 7 | SPT 4 | 3 | 4 | 16 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 2 | 4 | 14 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | SPT 6 | 2 | 3 | 14 | | | | | SILT sandy (ML); red (2.5 YR 4/8); moist; stiff; 35% sand; RESIDUUM | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 2 | 3 | 13 | | | | | SILT (ML); SAA except red and yellow (2.5 YR 4/8 and 2.5 YR 7/8); medium stiff | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 2 | 4 | 15 | | | | | SILT sandy (ML); strong brown (7.5 YR 5/8); moist; stiff; 38% sand; micaceous. RESIDUUM | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | SM | SAND silty (SM); yellowish red (5 YR 4/6); moist; medium dense; 40% fines; low plasticity; micaceous. RESIDUUM | | | |
| 24 | SPT 9 | 6 | 8 | 17 | | | | | | | | |
| 25 | | 10 | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | SM | SAND silty with gravel (SM); yellowish red (5 YR 4/6); moist; medium dense; 34% fines, 15% gravels, low plasticity; 1 to 3 cm sized rock fragments, weathered schist, micaceous. RESIDUUM | | | |
| 29 | SPT 10 | 13 | 18 | 14 | | | | | | | | |
| 30 | | 10 | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 21 | 13 | 8 | | | | GW-GM | GRAVEL sandy with silt (GW-GM); red (silt) (2.5 YR 5/6), black (gravel) (Glau 1 2.5 /N), wet, micaceous, 30% sand, 7% fines, 1 to 4 cm sized weathered schist. | | | |
| 35 | | 10 | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 26 | 21 | 0 | | | | | NO RECOVERY | | | |
| 40 | | 16 | | | | | | | | | | |

Rig jumping

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-205A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | NO RECOVERY | | |
| 41 | | | | | | | | | | (Continued from previous page) | | |
| 42 | | | | | | | | | | | Saprolite | |
| 43 | | | | | | | | | | | End of day 5/1/06, water level at 5 ft. | |
| 44 | SPT 13 | | 6 6 10 | 13 18 | | | | | SM | SAND silty (SM); strong brown (7.5 YR 5/8); moist, medium dense, 38% fines, 4% gravels, micaceous, low plasticity, weathered schist. SAPROLITE | Begin of day 5/2/06, cave in at 35 ft | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 8 12 14 | 15 18 | | | | | | SAND silty (SM); micaceous; 44% fines, 11% gravels | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 15 | | 50/6 | 0 6 | | | | | | NO RECOVERY. PARTIALLY WEATHERED ROCK | | |
| 55 | | | | | | | | | | BORING TERMINATED AT 54.0 ft. see rock log | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|--|--|---|--|
| Project Name : Job Number | | WELL LOG ROCK - WELL No. OW-205A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Nuclear Island | Total Depth 175 feet |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | | Elevation at Boring 423.1 feet | Ground Water Depth Depth to Bedrock 54 feet |
| Casing Size and Depth (Boring) 4 / 54 feet | | Elevation at Well 423.3 feet | No. of Core Boxes 9 Date Started 5/30/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed 5/30/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|---|-----------------------------------|------|
| | | | | | | | | | | |
| 54 | 1 | 0.0 | 0 | CW | R0 | | | NO RECOVERY | Partially weathered rock | |
| 55 | | 1.0 | | | | | | | Spoon refusal. Switch to HQ | |
| 56 | | | | HW | R2 to R3 | | | QUARTZ DIORITE; white and very dark gray (Glau 1 8/8, 3/3); granitic texture; some staining | rock coring | |
| 57 | 2 | 1.5 | 12 | | | | | | NOTE: Samples and Lithology | |
| 58 | | 5.0 | | | | | | | Information are from adjacent | |
| 59 | | | | CW | R0 | | | | boring. | |
| 60 | | | | | | | | QUARTZ DIORITE; SAA; igneous texture | Begin of day 5/8/06, water level | |
| 61 | | | | | | | | | at 45 ft. | |
| 62 | 3 | 3.8 | 52 | HW | R2 | | | Granodiorite zone | | |
| 63 | | 5.0 | | | | | | | | |
| 64 | | | | F | R4 | | | | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | 4 | 4.9 | 98 | F | R4 to R5 | | | | | |
| 68 | | 5.0 | | | | | | | | |
| 69 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 71 | | | | | | | | | End of day 5/8/06, water level at | |
| 72 | 5 | 5.0 | 100 | F | R4 to R5 | | | Quartz dike | 23 ft. | |
| 73 | | 5.0 | | | | | | | Begin of 5/9/06, water level at | |
| 74 | | | | | | | | | 56 ft. | |
| 75 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 77 | 6 | 5.0 | 100 | F | R4 to R5 | | | | | |
| 78 | | 5.0 | | | | | | | | |
| 79 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 81 | | | | F | R5 | | | | | |
| 82 | 7 | 2.5 | 42 | MW | | | | No recovery from 82.5 to 85 ft | Drilling rate increased, highly | |
| 83 | | 5.0 | | | | | | | weathered rock was not | |
| 84 | | | | HW | R1 | | | | recovered from 82.5 to 85 ft. | |
| 85 | | | | | | | | | | |
| 86 | | | | | | | | Large quartz dike | Top of sound rock? | |
| 87 | 8 | 5.0 | 90 | F | R4 to R5 | | | | | |
| 88 | | 5.0 | | | | | | | | |
| 89 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | SAA, foliation at 94° | | |
| 92 | 9 | 5.0 | 90 | F | R4 to R5 | | | | | |
| 93 | | 5.0 | | | | | | | | |
| 94 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|---|---------|------|
| 94 | | | | | | | | | | |
| 95 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 97 | 10 | 5.0 / 5.0 | 96 | F | R4 to R5 | | | | | |
| 98 | | | | | | | | | | |
| 99 | | | | | | | | | | |
| 100 | | | | | | | Quartz dike | | | |
| 101 | | | | | | | Quartz dike | | | |
| 102 | 11 | 5.0 / 5.0 | 80 | F | R4 to R5 | | HORNBLLENDE GNEISS; greenish gray, light gray, very dark gray (Gley 1 7/N, 3/N, 5/5GY); foliation at 35°, hornblende, schist | | | |
| 103 | | | | | | | | | | |
| 104 | | | | | | | | | | |
| 105 | | | | | | | Foliation at 35° | | | |
| 106 | | | | | | | | | | |
| 107 | 12 | 5.0 / 5.0 | 92 | F | R4 to R5 | | | | | |
| 108 | | | | | | | | | | |
| 109 | | | | | | | | | | |
| 110 | | | | | | | SAA, hornblende, schist, quartz, feldspar | | | |
| 111 | | | | | | | | | | |
| 112 | 13 | 5.0 / 5.0 | 100 | F | R4 to R5 | | Quartz dike | | | |
| 113 | | | | | | | | | | |
| 114 | | | | | | | | | | |
| 115 | | | | | | | | | | |
| 116 | | | | | | | | | | |
| 117 | 14 | 5.0 / 5.0 | 100 | F | R4 to R5 | | Quartz dike | | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 121 | 15 | 5.0 / 5.0 | 100 | F | R4 | | QUARTZ DIORITE with zones of HORNBLLENDE GNEISS and Granodiorite; greenish gray, light gray, very dark gray. (Gley 1 7/N, 3/N, 5/5GY), flow and texture, breccia, texture from 121 to 122.5 ft. fine to medium grained, quartz, hornblende, schist, feldspar, bi Breccia texture 121 to 122.5 ft Quartz dike | | | |
| 122 | | | | | | | | | | |
| 123 | | | | | | | | | | |
| 124 | | | | | | | | | | |
| 125 | | | | | | | | | | |
| 126 | 16 | 5.0 / 5.0 | 100 | F | R5 | | HORNBLLENDE GNEISS with zone of QUARTZ DIORITE (125 to 125.5 ft); greenish gray, light gray, and very dark gray (Gley 7/N, 3/N, 5/5GY); fine grained foliation at 30°. Hornblende, biotite, schist, quartz. | End of day 5/9/06, water level at 15 ft. Begin of day 5/10/06, water level at 58 ft. | | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
| 129 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 131 | | | | | | | Quartz dike | | | |
| 132 | 17 | 5.0 / 5.0 | 100 | F | R5 | | | | | |
| 133 | | | | | | | | | | |
| 134 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------------|-----------------|-----------|---|---|------|
| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | 18 | 5.0 5.0 | 100 | F | R5 | | | Granodiorite dike fine to medium grained | | |
| 138 | | | | | | | | Granodiorite dike | | |
| 139 | | | | | | | | MIGMATITE; mixture of Granodiorite schist and Gneiss; light gray, very dark gray and black (Gley 1 7/N, 3/N, 2.5/N); fine to medium grained; some foliation at 15° (142 ft), flowing texture from 140 to 143 ft, then igneous texture from 143 to 145 ft; quart | | |
| 140 | 19 | 5.0 5.0 | 96 | F | R4 to R5 | | | | | |
| 141 | | | | | | | | | | |
| 142 | | | | | | | | | | |
| 143 | | | | | | | | | | |
| 144 | | | | | | | | | | |
| 145 | 20 | 5.0 5.0 | 100 | F | R5 | | | MIGMATITE; mixture of granodiorite, hornblende gneiss; black, light gray and white (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing texture; quartz, biotite, schist, K-spar, hornblende. | | |
| 146 | | | | | | | | | | |
| 147 | | | | | | | | | | |
| 148 | | | | | | | | | | |
| 149 | | | | | | | | | | |
| 150 | 21 | 5.0 5.0 | 100 | F | R5 | | | QUARTZ DIORITE; light gray, very dark gray (Gley 1 7/N, 3/N); fine to medium grained; igneous texture; quartz, biotite, schist, K-spar, hornblende. Quartz dike | | |
| 151 | | | | | | | | | | |
| 152 | | | | | | | | | | |
| 153 | | | | | | | | | | |
| 154 | | | | | | | | | | |
| 155 | 22 | 5.0 5.0 | 100 | F | R5 | | | QUARTZ DIORITE with zones of Hornblende Gneiss; greenish gray, light, very dark gray (Gley 1 7/N, 3/N, 5/5GY); fine to medium grained; some foliation 15°, hornblende, quartz, biotite, schist | | |
| 156 | | | | | | | | | | |
| 157 | | | | | | | | | | |
| 158 | | | | | | | | | | |
| 159 | | | | | | | | | | |
| 160 | 23 | 5.0 5.0 | 100 | F | R4 to R5 | | | HORNBLLENDE GNEISS; greenish gray, light gray, and very dark gray (Gley 1 7/N, 3/N, 5/5GY); fine to medium grained, foliation at 30°, hornblende, quartz, feldspar, biotite, schist. Pegmatite dikes Pegmatite dikes | End of day 5/10/06, water level at 5 ft. Begin of day 5/11/06, water level at 58 ft. | |
| 161 | | | | | | | | | | |
| 162 | | | | | | | | | | |
| 163 | | | | | | | | | | |
| 164 | | | | | | | | | | |
| 165 | | | | | | | | | | |
| 166 | | | | | | | | | | |
| 167 | 24 | 5.0 5.0 | 100 | F | R5 | | | Pegmatite dikes | | |
| 168 | | | | | | | | | | |
| 169 | | | | | | | | | | |
| 170 | | | | | | | | | | |
| 171 | | | | | | | | | | |
| 172 | 25 | 5.0 5.0 | 100 | F | R5 | | | HORNBLLENDE GNEISS; fine grained, banded texture, foliation at 30° CORING TERMINATED AT 175.0 ft. | | |
| 173 | | | | | | | | | | |
| 174 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|-----------|---|------|
| 174 | | | | | | | | | | |
| 175 | | | | | | | | | Boring terminated at 175 ft. on 5/11/06, water level at 10 ft | |
| 176 | | | | | | | | | | |
| 177 | | | | | | | | | | |
| 178 | | | | | | | | | | |
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| 210 | | | | | | | | | | |
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| 212 | | | | | | | | | | |
| 213 | | | | | | | | | | |
| 214 | | | | | | | | | | |

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| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-205B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location Nuclear Island | Total Depth 175 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 423.1 feet | Ground Water Depth Depth to Bedrock 54 feet |
| Sampling Method (Boring) Split Spoon | | Elevation at Well 422.9 feet | No. of Samples 15 Date Started (Well) 5/15/06 |
| | | Borehole Inclination 0 | Logged by M. Cooke Date Completed (Well) 5/15/06 |

Reviewed by / Date M. Cooke 5/15/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|---|---|---------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 2 | 3 | 14 | | | | CL-ML | CLAY silty (CL-ML); red (2.5 YR 4/8); damp, medium stiff; fine sand 5%; small roots, small rock fragments. RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Started drilling 5/1/06 Residuuum Rock clogged SPT sampler opening | | |
| 2 | SPT 2 | 4 | 4 | 14 | | | | ML | SILT sandy (ML); red (2.5 YR 4/8); damp, stiff; 22% sand; RESIDUUM | | | |
| 3 | | | 8 | 18 | | | | | SAA, large rock fragment, wet | | | |
| 4 | SPT 3 | 3 | 4 | 4 | | | | | SILT sandy (ML); dark red (2.5 YR 3/2); moist, stiff, 29% sand; RESIDUUM | | | |
| 5 | | | 6 | 18 | | | | | | | | |
| 6 | SPT 4 | 3 | 4 | 16 | | | | | | | | |
| 7 | | | 5 | 18 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 2 | 4 | 14 | | | | | | | | |
| 10 | | | 5 | 18 | | | | | | | | |
| 11 | SPT 6 | 2 | 3 | 14 | | | | | | | | |
| 12 | | | 7 | 18 | | | | | SILT sandy (ML); red (2.5 YR 4/8); moist; stiff; 35% sand; RESIDUUM | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 2 | 3 | 13 | | | | | SILT (ML); SAA except red and yellow (2.5 YR 4/8 and 2.5 YR 7/8); medium stiff | | | |
| 15 | | | 5 | 18 | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 2 | 4 | 15 | | | | | SILT sandy (ML); strong brown (7.5 YR 5/8); moist; stiff; 38% sand; micaceous. RESIDUUM | | | |
| 20 | | | 5 | 18 | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | SM | SAND silty (SM); yellowish red (5 YR 4/6); moist; medium dense; 40% fines; low plasticity; micaceous. RESIDUUM | | | |
| 24 | SPT 9 | 6 | 8 | 17 | | | | | | | | |
| 25 | | | 10 | 18 | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | SM | SAND silty with gravel (SM); yellowish red (5 YR 4/6); moist; medium dense; 34% fines, 15% gravels, low plasticity; 1 to 3 cm sized rock fragments, weathered schist, micaceous. RESIDUUM | | | |
| 29 | SPT 10 | 13 | 18 | 14 | | | | | | | | |
| 30 | | | 10 | 18 | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 21 | 13 | 8 | | | | GW | GRAVEL sandy with silt (GW); red (silt) (2.5 YR 5/6), black (gravel) (Glau 1 2.5 /N), wet, micaceous, 30% sand, 7% fines, 1 to 4 cm sized weathered schist. | | | |
| 35 | | | 10 | 18 | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 26 | 21 | 0 | | | | | NO RECOVERY | | | |
| 40 | | | 16 | 18 | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-205B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | NO RECOVERY | | |
| 41 | | | | | | | | | | (Continued from previous page) | | |
| 42 | | | | | | | | | | | Saprolite | |
| 43 | | | | | | | | | | | End of day 5/1/06, water level at 5 ft. | |
| 44 | SPT 13 | | 6 6 10 | 13 18 | | | | | SM | SAND silty (SM); strong brown (7.5 YR 5/8); moist, medium dense, 38% fines, 4% gravels, micaceous, low plasticity, weathered schist. SAPROLITE | Begin of day 5/2/06, cave in at 35 ft | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 8 12 14 | 15 18 | | | | | | SAND silty (SM); micaceous; 44% fines, 11% gravels | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 15 | | 50/6 | 0 6 | | | | | | NO RECOVERY. PARTIALLY WEATHERED ROCK | | |
| 55 | | | | | | | | | | BORING TERMINATED AT 54.0 ft. see rock log | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | |
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|--|-----------------------------------|---|-----------------------------|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-205B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Hollow Stem Auger / 6.25 inch | Boring Location Nuclear Island | | Total Depth 175 feet |
| Drilling Contractor and Rig Poole/Gregg / Rhino | Elevation at Boring 423.1 feet | Ground Water Depth | Depth to Bedrock 54 feet |
| Casing Size and Depth (Boring) 4 / 54 feet | Elevation at Well 422.9 feet | No. of Core Boxes 9 | Date Started 5/15/06 |
| | Borehole Inclination 0 | Logged by M. Cooke | Date Completed 5/15/06 |

Reviewed by / Date M. Cooke 5/15/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|---|-----------------------------------|------|
| | | | | | | | | | | |
| 54 | 1 | 0.0 | 0 | CW | R0 | | | NO RECOVERY | Partially weathered rock | |
| 55 | | 1.0 | | | | | | | Spoon refusal. Switch to HQ | |
| 56 | | | | HW | R2 to R3 | | | QUARTZ DIORITE; white and very dark gray (Glau 1 8/8, 3/3); granitic texture; some staining | rock coring | |
| 57 | 2 | 1.5 | 12 | | | | | | NOTE: Samples and Lithology | |
| 58 | | 5.0 | | | | | | | Information are from adjacent | |
| 59 | | | | CW | R0 | | | | begin of day 5/8/06, water level | |
| 60 | | | | | | | | QUARTZ DIORITE; SAA; igneous texture | at 45 ft. | |
| 61 | | | | | | | | | | |
| 62 | 3 | 3.8 | 52 | HW | R2 | | | Granodiorite zone | | |
| 63 | | 5.0 | | | | | | | | |
| 64 | | | | F | R4 | | | | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | 4 | 4.9 | 98 | F | R4 to R5 | | | | | |
| 68 | | 5.0 | | | | | | | | |
| 69 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 71 | | | | | | | | | End of day 5/8/06, water level at | |
| 72 | 5 | 5.0 | 100 | F | R4 to R5 | | | Quartz dike | 23 ft. | |
| 73 | | 5.0 | | | | | | | Begin of 5/9/06, water level at | |
| 74 | | | | | | | | | 56 ft. | |
| 75 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 77 | 6 | 5.0 | 100 | F | R4 to R5 | | | | | |
| 78 | | 5.0 | | | | | | | | |
| 79 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 81 | | | | F | R5 | | | | | |
| 82 | 7 | 2.5 | 42 | MW | | | | No recovery from 82.5 to 85 ft | Drilling rate increased, highly | |
| 83 | | 5.0 | | | | | | | weathered rock was not | |
| 84 | | | | HW | R1 | | | | recovered from 82.5 to 85 ft. | |
| 85 | | | | | | | | | | |
| 86 | | | | | | | | Large quartz dike | Top of sound rock? | |
| 87 | 8 | 5.0 | 90 | F | R4 to R5 | | | | | |
| 88 | | 5.0 | | | | | | | | |
| 89 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | SAA, foliation at 94° | | |
| 92 | 9 | 5.0 | 90 | F | R4 to R5 | | | | | |
| 93 | | 5.0 | | | | | | | | |
| 94 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------------|-----------------|-----------|--|---|------|
| 94 | | | | | | | | | | |
| 95 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 97 | 10 | <u>5.0</u> 5.0 | 96 | F | R4 to R5 | | | | | |
| 98 | | | | | | | | | | |
| 99 | | | | | | | | | | |
| 100 | | | | | | | | Quartz dike | | |
| 101 | | | | | | | | Quartz dike | | |
| 102 | 11 | <u>5.0</u> 5.0 | 80 | F | R4 to R5 | | | HORNBLLENDE GNEISS; greenish gray, light gray, very dark gray (Gley 1 7/N, 3/N, 5/5GY); foliation at 35°, hornblende, schist | | |
| 103 | | | | | | | | | | |
| 104 | | | | | | | | | | |
| 105 | | | | | | | | Foliation at 35° | | |
| 106 | | | | | | | | | | |
| 107 | 12 | <u>5.0</u> 5.0 | 92 | F | R4 to R5 | | | | | |
| 108 | | | | | | | | | | |
| 109 | | | | | | | | | | |
| 110 | | | | | | | | SAA, hornblende, schist, quartz, feldspar | | |
| 111 | | | | | | | | | | |
| 112 | 13 | <u>5.0</u> 5.0 | 100 | F | R4 to R5 | | | Quartz dike | | |
| 113 | | | | | | | | | | |
| 114 | | | | | | | | | | |
| 115 | | | | | | | | | | |
| 116 | | | | | | | | | | |
| 117 | 14 | <u>5.0</u> 5.0 | 100 | F | R4 to R5 | | | Quartz dike | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 121 | 15 | <u>5.0</u> 5.0 | 100 | F | R4 | | | QUARTZ DIORITE with zones of HORNBLLENDE GNEISS and Granodiorite; greenish gray, light gray, very dark gray. (Gley 1 7/N, 3/N, 5/5GY), flow and texture, breccia, texture from 121 to 122.5 ft. fine to medium grained, quartz, hornblende, schist, feldspar, bi Breccia texture 121 to 122.5 ft Quartz dike | | |
| 122 | | | | | | | | | | |
| 123 | | | | | | | | | | |
| 124 | | | | | | | | | | |
| 125 | | | | | | | | | | |
| 126 | 16 | <u>5.0</u> 5.0 | 100 | F | R5 | | | HORNBLLENDE GNEISS with zone of QUARTZ DIORITE (125 to 125.5 ft); greenish gray, light gray, and very dark gray (Gley 7/N, 3/N, 5/5GY); fine grained foliation at 30°. Hornblende, biotite, schist, quartz. | End of day 5/9/06, water level at 15 ft. Begin of day 5/10/06, water level at 58 ft. | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
| 129 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 131 | | | | | | | | Quartz dike | | |
| 132 | 17 | <u>5.0</u> 5.0 | 100 | F | R5 | | | | | |
| 133 | | | | | | | | | | |
| 134 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------------|-----------------|-----------|---|---|------|
| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | 18 | 5.0 5.0 | 100 | F | R5 | | | Granodiorite dike fine to medium grained | | |
| 138 | | | | | | | | Granodiorite dike | | |
| 139 | | | | | | | | MIGMATITE; mixture of Granodiorite schist and Gneiss; light gray, very dark gray and black (Gley 1 7/N, 3/N, 2.5/N); fine to medium grained; some foliation at 15° (142 ft), flowing texture from 140 to 143 ft, then igneous texture from 143 to 145 ft; quart | | |
| 140 | 19 | 5.0 5.0 | 96 | F | R4 to R5 | | | | | |
| 141 | | | | | | | | | | |
| 142 | | | | | | | | | | |
| 143 | | | | | | | | | | |
| 144 | | | | | | | | | | |
| 145 | 20 | 5.0 5.0 | 100 | F | R5 | | | MIGMATITE; mixture of granodiorite, hornblende gneiss; black, light gray and white (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing texture; quartz, biotite, schist, K-spar, hornblende. | | |
| 146 | | | | | | | | | | |
| 147 | | | | | | | | | | |
| 148 | | | | | | | | | | |
| 149 | | | | | | | | | | |
| 150 | 21 | 5.0 5.0 | 100 | F | R5 | | | QUARTZ DIORITE; light gray, very dark gray (Gley 1 7/N, 3/N); fine to medium grained; igneous texture; quartz, biotite, schist, K-spar, hornblende. Quartz dike | | |
| 151 | | | | | | | | | | |
| 152 | | | | | | | | | | |
| 153 | | | | | | | | | | |
| 154 | | | | | | | | | | |
| 155 | 22 | 5.0 5.0 | 100 | F | R5 | | | QUARTZ DIORITE with zones of Hornblende Gneiss; greenish gray, light, very dark gray (Gley 1 7/N, 3/N, 5/5GY); fine to medium grained; some foliation 15°, hornblende, quartz, biotite, schist | | |
| 156 | | | | | | | | | | |
| 157 | | | | | | | | | | |
| 158 | | | | | | | | | | |
| 159 | | | | | | | | | | |
| 160 | 23 | 5.0 5.0 | 100 | F | R4 to R5 | | | HORNBLLENDE GNEISS; greenish gray, light gray, and very dark gray (Gley 1 7/N, 3/N, 5/5GY); fine to medium grained, foliation at 30°, hornblende, quartz, feldspar, biotite, schist. Pegmatite dikes Pegmatite dikes | End of day 5/10/06, water level at 5 ft. Begin of day 5/11/06, water level at 58 ft. | |
| 161 | | | | | | | | | | |
| 162 | | | | | | | | | | |
| 163 | | | | | | | | | | |
| 164 | | | | | | | | | | |
| 165 | | | | | | | | | | |
| 166 | | | | | | | | | | |
| 167 | 24 | 5.0 5.0 | 100 | F | R5 | | | Pegmatite dikes | | |
| 168 | | | | | | | | | | |
| 169 | | | | | | | | | | |
| 170 | | | | | | | | | | |
| 171 | | | | | | | | | | |
| 172 | 25 | 5.0 5.0 | 100 | F | R5 | | | HORNBLLENDE GNEISS; fine grained, banded texture, foliation at 30° CORING TERMINATED AT 175.0 ft. | | |
| 173 | | | | | | | | | | |
| 174 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-205B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|-----------|---|------|
| 174 | | | | | | | | | | |
| 175 | | | | | | | | | Boring terminated at 175 ft. on 5/11/06, water level at 10 ft | |
| 176 | | | | | | | | | | |
| 177 | | | | | | | | | | |
| 178 | | | | | | | | | | |
| 179 | | | | | | | | | | |
| 180 | | | | | | | | | | |
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| 197 | | | | | | | | | | |
| 198 | | | | | | | | | | |
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| 200 | | | | | | | | | | |
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| 203 | | | | | | | | | | |
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| 208 | | | | | | | | | | |
| 209 | | | | | | | | | | |
| 210 | | | | | | | | | | |
| 211 | | | | | | | | | | |
| 212 | | | | | | | | | | |
| 213 | | | | | | | | | | |
| 214 | | | | | | | | | | |

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|--|--|---|-----------------------|--|----------------------------------|
| Project Name : Job Number | | MACTEC | | WELL LOG SOIL - Well No. OW-212 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | | | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location Adjacent to Power Block | | Total Depth 68.5 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Rhino | | Elevation at Boring 397.2 feet | Ground Water Depth | | Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 396.2 feet | No. of Samples 20 | | Date Started (Well) 5/25/06 |
| | | Borehole Inclination 0 | Logged by C. Bruce | | Date Completed (Well) 5/25/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|--|--|--|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 25 | 16 | | | | | SM | SAND silty (SM), dark brown, (7.5 YR 3/3); moist, very loose; 70% fine grained sand, 30% fine organic rich roots. | NOTE: Samples and Lithology Information are from adjacent boring. Residuum | |
| 2 | | SPT 2 | 28 | 16 | | | | CL-ML | CLAY silty (CL-ML); red (10 R 3/6); moist; 50% clay, 45% silt, 5% fine sand. RESIDUUM | | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 58 | 14 | | | | | CL-ML | SAA, grading down to sandy clay, red (10 R 4/8) | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | SC | SAND clayey (SC); red (10 R 4/8); moist, loose to medium dense; 60 to 70 % fine sand; 30 to 40% fines. RESIDUUM | | |
| 7 | | SPT 4 | 58 | 17 | | | | | ML | SILT sandy (ML); dark red (2.5 YR 3/6); moist; medium stiff; 65 to 70% silt, 30 to 35 % fine sand, trace clay, micaceous. RESIDUUM | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 48 | 18 | | | | | ML | SILT sandy (ML); dark red (2.5 YR 3/6); moist; medium stiff; 65 to 70% silt, 30 to 35 % fine sand, trace clay, micaceous. RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | SM | SAND silty (SM); dark reddish brown (2.5 Y 3/4); moist, loose; 60 to 70 % fine sand; 30 to 40 % silt, micaceous; some black manganese staining. | | |
| 12 | | SPT 6 | 43 | 18 | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 34 | 18 | | | | | | SAA, dark brown (7.5 YR 3/4) | | |
| 15 | | | | | | | | | | | On 5/8/06 switched from hollow stem auger to mud rotary 3 7/8 inch tricone bit | |
| 16 | | | | | | | | | ML | SILT sandy (ML); strong brown (7.5 YR 5/8) and (7.5 YR 4/6), and black (7.5 YR 2.5/1); moist, medium stiff to stiff, 15 to 25 % fine grained sand, micaceous, with faint thin subhorizontal foliation; abundant black manganese staining; SAPROLITE | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 34 | 14 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 45 | 14 | | | | | | SAA, reddish brown (5 Y R 4/3); soft to medium stiff; increase in sand content possible sandy silt (25 to 35% fine grained sand) | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | SM | SAND silty (SM); strong brown (7.5 YR 4/6); medium dense; moist; 60 to 70 % fine sand; 30 to 40 % silt, micaceous; faint relict subhorizontal foliations with black 7.5 YR 2.5/1, manganese staining, SAPROLITE | | |
| 29 | | SPT 10 | 35 | 16 | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | SPT 11 | 46 | 18 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | SPT 12 | 56 | 18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-212

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|---|--|
| 40 | | | | | | | | | | <p>SAND silty (SM); strong brown (7.5 YR 4/6); medium dense; moist; 60 to 70 % fine sand; 30 to 40 % silt, micaceous; faint relict subhorizontal foliations with black 7.5 YR 2.5/1, manganese staining, SAPROLITE (Continued from previous page)</p> <p>SAND silty (SM); greenish black (10 GY 2.5/1); grayish green (5 G 4/2); dark yellowish brown (10 YR 4/6); light greenish gray (10 Y 8/1)</p> <p>SAND silty (SM); strong brown (7.5 YR 5/6) with very dark greenish gray (5 BG 3/1) and greenish black (5 BG 2.5/1) and white (5 Y 8/1)</p> <p>Very dense sand to PARTIALLY WEATHERED ROCK; amphibolite schist; bluish black (5 PB 2.5/1) with some completely weathered white (10 YR 8/1); feldspar.</p> <p>SAA, strong brown (7.5 YR 4/6) silty sand matrix with zones of completely weathered white feldspar and zones of bluish black amphibolite schist</p> <p>SAND silty (SM); strong brown (7.5 YR 4/6); white (N 8/1); bluish black (5 PB 2.5/1) and trace black (10 YR 2/1); moist, medium dense; 60 to 70% fine grained sand ; 30 to 40 % fines;PARTIALLY WEATHERED ROCK; structure dipping 10 to 40°; zones of completely weathered granodiorite, zones of completely weathered gneiss and zones of completely weathered amphibolite; SAPROLITE</p> <p>Very dense sand to PARTIALLY WEATHERED ROCK; amphibolite schist with saprolitic zones of completely weathered feldspar and biotite, strong brown (7.5 YR 4/6); bluish black (5 PB 2.5/1), and white (10 YR 8/1); moist, medium dense.</p> <p>SAND silty (SM); strong brown (7.5 YR 4/6); white (2.5 Y 8/1); bluish black (5 PB 2.5/1); moist; medium dense; 60 to 70 % fine grained sand; 30 to 40% fines; distinct relict irregular flow bonding/foliation; dipping 10 to 25°, white relict feldspar zones with bluish black amphibolite. PARTIALLY WEATHERED ROCK; separated by zones of strong black, micaceous-rich zones; migmatite SAPROLITE.</p> <p>PARTIALLY WEATHERED ROCK BORING TERMINATED AT 68.5 ft.</p> | | | |
| 41 | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | |
| 44 | SPT | 13 | 4 | 18 | | | | | | | | | |
| 45 | | | 5 | 18 | | | | | | | | | |
| 46 | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | |
| 49 | SPT | 14 | 5 | 18 | | | | | | | | | |
| 50 | | | 5 | 18 | | | | | | | | | |
| 51 | SPT | 15 | 20 | 3 | | | | SM | | | | 3 7/8 tricone refusal at 51 ft. | |
| 52 | | | 15 | 18 | | | | | | | | | |
| 53 | SPT | 16 | 25 | 7 | | | | | | | | 2 7/8 tricone refusal at 52.5 ft. | |
| 54 | | | 34 | 18 | | | | | | | | | |
| 55 | SPT | 17 | 13 | 18 | | | | SM | | | | In both cases above after SPT, bit advanced after previous refusal Able to advance tricone after SPT sampler | |
| 56 | | | 12 | 18 | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | | | | | | | SM | | | | | |
| 59 | SPT | 18 | 26 | 15 | | | | | | | | | |
| 60 | | | 24 | 18 | | | | | | | | | |
| 61 | | | 28 | | | | | | | | | | |
| 62 | | | | | | | | | | | | | |
| 63 | | | | | | | | SM | | | 7 7/8 tricone refusal at 61 ft | | |
| 64 | SPT | 19 | 12 | 18 | | | | | | | | | |
| 65 | | | 13 | 18 | | | | | | | | | |
| 66 | | | 12 | | | | | | | | | | |
| 67 | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | |
| 69 | SPT | 20 | 50/0 | 0 | | | | | | | 5 7/8 tricone refusal on 5/9/06 2 7/8 tricone refusal at 68.5 ft. 5/10/06 lost core barrel; borehole abandoned; see boring B-212A 5 ft ENE of B-212 | | |
| 70 | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | |
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| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | |

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|--|--|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-213 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | Boring Location Adjacent to Power Block | Total Depth 150 feet | |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | Elevation at Boring 401.5 feet | Ground Water Depth | Depth to Bedrock 59.2 feet |
| Sampling Method (Boring) Standard | Elevation at Well 402.1 feet | No. of Samples 15 | Date Started (Well) 5/30/06 |
| | Borehole Inclination 0 | Logged by C. Gandy | Date Completed (Well) 5/30/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 1/3 | 2 | 1.5/18 | | | | | CL-ML | CLAY silty (CL-ML); dark reddish brown (5 YR 3/4); moist; medium stiff; fine to medium grained; medium to high plasticity. RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | SPT 2 | 2/4 | 4 | 16/18 | | | | SM | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 3/5 | 3 | 15/18 | | | | | SC | SAND silty (SM); dark reddish brown (5 YR 3/4); moist; loose; fine to medium grained; low plasticity; RESIDUUM | | |
| 5 | | | | | | | | | | | | |
| 6 | SPT 4 | 3/5 | 3 | 16/18 | | | | | SM | SAND clayey (SC); dark red (10 R 3/6); moist; loose; fine to medium grained; low to medium plasticity; slightly micaceous; RESIDUUM | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 4/7 | 4 | 17/18 | | | | | SM | SAND silty (SM); dark red (10 R 3/6); moist; medium dense; fine to medium grained; no plasticity; slightly micaceous; RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | 2/4 | 2 | 13/18 | | | | | SM | SAA; yellowish red (5 YR 4/6); moist; loose; fine to coarse grained | | |
| 13 | | | | | | | | | SM | SAND silty (SM); strong brown (7.5 YR 4/6); moist; loose; fine to coarse grained; no plasticity; slightly micaceous. SAPROLITE | First saprolitic sample | |
| 14 | SPT 7 | 2/3 | 2 | 12/18 | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | SM | SAA; moist with gravel | | |
| 19 | SPT 8 | 2/4 | 2 | 15/18 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | SM | SAND silty (SM); strong brown (7.5 YR 5/6); moist; loose; fine to medium grained; mottled with black and red; slightly micaceous; no plasticity. SAPROLITE | | |
| 24 | SPT 9 | 2/3 | 2 | 16/18 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | SM | SAA; medium dense | | |
| 29 | SPT 10 | 3/5 | 3 | 17/18 | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | SM | SAND; silty (SM); strong brown (7.5 YR 5/6); moist; medium dense; fine to medium grained; mottled with black and red; no plasticity. SAPROLITE | | |
| 34 | SPT 11 | 5/6 | 5 | 15/18 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 6/10 | 6 | 17/18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-213

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 40 | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | ML | SILT sandy (ML); black (10 YR 2/1); moist; very stiff; fine to medium grained; trace mica; no plasticity; SAPROLITE | End day 5/22/06 5/23/06 8:30 am, water level at 32 ft. | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 13 | | 4 6 10 | 18 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 6 9 14 | 18 18 | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | SM | SAND silty (SM); olive brown (2.5 Y 4/3); moist; dense; fine to coarse grained; mottled with black and white; no plasticity; slightly micaceous; SAPROLITE | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 15 | | 10 18 20 | 18 18 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | SPT 16 | | 50/1.5 | 0 1.5 | | | | | | No recovery PARTIALLY WEATHERED ROCK BORING TERMINATED AT 59.2 ft. | Partially weathered rock Drill bit refusal at 58.8 ft. Casing advanced to 59.2 ft. | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

| | | | |
|--|--|---|--|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-227 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location Adjacent to Power Block | Total Depth 84.25 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | | Elevation at Boring 425.1 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 422.7 feet | No. of Samples 15 |
| | | Borehole Inclination 0 | Logged by M. Cooke |
| | | | Date Started (Well) 5/25/06 |
| | | | Date Completed (Well) 5/25/06 |

Reviewed by / Date M. Cooke 5/27/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 9 | 11 | 11 | 18 | | | | SM | SAND silty (SM); olive gray (5 Y 3/2); moist; medium dense; fine sand, ~20% silt, some rock fragment; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. | |
| 2 | SPT 2 | 7 | 7 | 16 | 18 | | | | ML | SILT sandy (ML); moderate reddish brown (10 R 4/6); moist; very stiff; fine sand ~15%; low plasticity; RESIDUUM | Residuum | |
| 3 | | | | | | | | | | | First saprolitic sample | |
| 4 | SPT 3 | 9 | 9 | 12 | 18 | | | | SM | SAND silty (SM); pale reddish brown (10 R 5/4); moist; medium dense; fine sand; ~20% silt. SAPROLITE | | |
| 5 | | | | | | | | | | | | |
| 6 | SPT 4 | 4 | 5 | 0.1 | 18 | | | | ML | SILT sandy (ML); pale reddish brown (10 R 5/4); moist; stiff; low plasticity; fine sand; ~20% sand; small roots; large rock; SAPROLITE | Rock block sampler | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 5 | 7 | 12 | 18 | | | | SM | SAND silty (SM); moderate yellowish brown (10 YR 5/4); moist; medium dense; fine sand ~30% fines; SAPROLITE | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | 5 | 8 | 12 | 18 | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 3 | 2 | 8 | 18 | | | | ML | SILT sandy (ML); pale reddish brown (10 R 5/4); moist; medium stiff; ~10% fine sand; low plasticity; RESIDUUM | Lack saprolitic structure | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | SM | SAND silty (SM); dark yellowish orange (10 YR 6/6); moist; medium dense; ~45% silt; SAPROLITE | Saprolitic structure reappears | |
| 19 | SPT 8 | 5 | 6 | 12 | 18 | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | ML | SILT sandy (ML); moderate yellowish brown (10 YR 5/4); moist; very stiff; fine sand 30%; low plasticity; micaceous; SAPROLITE | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 8 | 9 | 8 | 18 | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 7 | 9 | 12 | 18 | | | | | SAA; ~40% sand | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | SM | SAND silty (SM); dark yellowish brown (10 YR 6/6); moist; medium dense; 30% silt; micaceous; SAPROLITE | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 11 | 13 | 12 | 18 | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | ML | SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; low; ~55% fine sand; low plasticity; micaceous; SAPROLITE | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 9 | 11 | 14 | 18 | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-227

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 40 | | | | | | | | | | <p>SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; low; ~55% fine sand; low plasticity; micaceous; SAPROLITE (Continued from previous page)</p> <p>SILT sandy (ML); moderate yellowish brown (10 YR 5/4)</p> <p>SAA; moderate brown (5 YR 4/4), 60% fine sand; very micaceous; SAPROLITE</p> <p>ML SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; fine sand 70% silt; low plasticity; very micaceous; PARTIALLY WEATHERED ROCK</p> <p>BORING TERMINATED AT 54.5 ft.</p> | <p>Partially weathered rock</p> <p>End of drilling 4/13/06, 4/14/06 No groundwater encountered</p> | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 13 | | 11 13 17 | 16 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 11 12 20 | 14 18 | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 15 | | 17 50/5 | 12 11 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
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| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-227

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|-----------|---------|------|
| 80 | | | | | | | | | | | | |
| 81 | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | |
| 89 | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | |
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| 95 | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | |
| 97 | | | | | | | | | | | | |
| 98 | | | | | | | | | | | | |
| 99 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

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|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-233 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location Adjacent to Power Block | Total Depth 120 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | | Elevation at Boring 426.1 feet | Ground Water Depth Depth to Bedrock 37.4 feet |
| Sampling Method (Boring) Standard | | Elevation at Well 426.2 feet | No. of Samples 11 Date Started (Well) 5/25/06 |
| | | Borehole Inclination 0 | Logged by M. Cooke Date Completed (Well) 5/25/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|-------------------------|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | 1 | 0 | 13 | | | | | SM | SAND (SM) ; red (2.5 YR 5/8); dry; very loose; silty; fine | NOTE: Samples and Lithology Information are from adjacent boring. | | |
| 2 | SPT 2 | 2 | 3 | 9 | | | | | | SAA; orange (5 YR 5/8) and red; loose | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 4 | 15 | | | | | ML | SILT (ML) ; red and orange (10 R 4/6 and 5 YR 6/8); damp; medium stiff; trace mica | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | SPT 4 | 4 | 4 | 14 | | | | | SM | SAND (SM) ; dusky red, brown and white (10 R 3/6, 7.5 YR 5/8); moist to damp; medium dense; in 2 to 3 inch bands; silty; trace mica; | | | |
| 8 | | | | | | | | | | | | | |
| 9 | SPT 5 | 5 | 8 | 16 | | | | | GM | GRAVEL (GM) ; red (10 R 3/6), brown (1.7 YR 5/8), and gray; damp; dense; weathered granite or granodiorite; split spoon like a rock core; gneiss; SAPROLITE | | | First saprolitic sample |
| 10 | | | | | | | | | | | | | |
| 11 | SPT 6 | 6 | 5 | 17 | | | | | SM | SAND silty (SM) ; red and brown (10 R 4/6 and 5 YR 6/8); damp; medium dense; fine; foliated; SAPROLITE | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 7 | 7 | 5 | 13 | | | | | | SAA; red (10 R 5/4); damp; medium dense; silty; micaceous; fine to coarse | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 8 | 8 | 2 | 10 | | | | | | SAA; brown and red (7.5 YR 5/8 and 10 R 5/6) | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 9 | 9 | 2 | 9 | | | | | | SAA; brown, red and beige, as above with manganese staining | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 29 | SPT 10 | 10 | 3 | 10 | | | | | | SAA; red (10 R 5/6) | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | SPT 11 | 11 | 3 | 14 | | | | | | SAA; beige; damp; medium dense; silty; micaceous | | | |
| 35 | | | | | | | | | | SILT sandy (ML) ; orange (7.5 6/8); damp; stiff; sandy; manganese stained | | | |
| 36 | | | | | | | | | | Refusal at 37.4 ft, drilled casing to 37.5 ft, see rock log | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | |

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|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-233 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Adjacent to Power Block | Total Depth 120 feet |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | | Elevation at Boring 426.1 feet | Ground Water Depth Depth to Bedrock 37.4 feet |
| Casing Size and Depth (Boring) 3.5 / 37.5 feet | | Elevation at Well 426.2 feet | No. of Core Boxes Date Started 5/25/06 |
| | | Borehole Inclination 0 | Logged by M. Cooke Date Completed 5/25/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|--|--|------|
| | | | | | | | | | | |
| 38 | 1 | $\frac{7.9}{8.0}$ | 58 | MW | | | | GRANODIORITE; fine grained 3 to 1 mm quartz, orthoclase, biotite | Tricone refusal 4/13/06; casing drilled to 37.5 ft NOTE: Samples and Lithology Information are from adjacent boring. Lost water return Very low drilling resistance No water return from 41.2 to 41.4 ft Very low drilling resistance 41.8 to 42.2 ft | |
| 39 | | | | | | | | Amphibolite schist | | |
| 40 | | | | | | | | 40.7 to 43 Felsic gneiss | | |
| 41 | | | | | | | | | | |
| 42 | | | | | | | | | | |
| 43 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 45 | 2 | $\frac{5.0}{5.0}$ | 100 | SW | R3 | | | AMPHIBOLITE SCHIST; foliation angle 45° | | |
| 46 | | | | | | | | | | |
| 47 | | | | | | | | | | |
| 48 | 3 | $\frac{4.9}{4.9}$ | 100 | F | R4 | | | GRANODIORITE biotite, orthoclase and quartz | | |
| 49 | | | | | | | | | | |
| 50 | 4 | $\frac{4.5}{4.6}$ | 100 | F | R4 | | | AMPHIBOLITE SCHIST, gneiss | | |
| 51 | | | | | | | | | | |
| 52 | 5 | $\frac{5.0}{5.0}$ | 100 | F | R5 | | | GNEISS; biotite; foliated at 43°; flow banded texture; chalcopryrite porphyroblasts. | | |
| 53 | | | | | | | | Schist amphibolite xenoliths; migmatite biotite gneiss | | |
| 54 | | | | | | | | Igneous texture | | |
| 55 | 6 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | GRANODIORITE mafics; chalcopryrite | | |
| 56 | | | | | | | | | | |
| 57 | 7 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | AMPHIBOLITE SCHIST; 60° foliation | | |
| 58 | | | | | | | | | | |
| 59 | 8 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | GRANODIORITE; with 2 inch amphibolite schist xenoliths | | |
| 60 | | | | | | | | | | |
| 61 | 9 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | GNEISS, chalcopryrite, some biotite | | |
| 62 | | | | | | | | | | |
| 63 | 10 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | AMPHIBOLITE SCHIST and GRANODIORITE | | |
| 64 | | | | | | | | | | |
| 65 | 11 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | CORING TERMINATED AT 75.0 ft. | | |
| 66 | | | | | | | | | | |
| 67 | 12 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 68 | | | | | | | | | | |
| 69 | 13 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 70 | | | | | | | | | | |
| 71 | 14 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 72 | | | | | | | | | | |
| 73 | 15 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 74 | | | | | | | | | | |
| 75 | 16 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 76 | | | | | | | | | | |
| 77 | 17 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | End of drilling 4/18/06 water at 37 ft | | |

Project Name : Job Number



WELL LOG ROCK - WELL No. OW-233

SCE&G COL : 6234-06-3534

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|-----------|---------|------|
| | | | | | | | | | | |
| 78 | | | | | | | | | | |
| 79 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 81 | | | | | | | | | | |
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| 84 | | | | | | | | | | |
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| 117 | | | | | | | | | | |

Project Name : Job Number



WELL LOG ROCK - WELL No. OW-233

SCE&G COL : 6234-06-3534

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|-----------|---------|------|
| | | | | | | | | | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | | |
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|--|-----------------------------------|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-305A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location Nuclear Island | | Total Depth 175 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | Elevation at Boring 423.9 feet | Ground Water Depth | Depth to Bedrock 57.5 feet |
| Sampling Method (Boring) Standard | Elevation at Well 424.9 feet | No. of Samples 14 | Date Started (Well) 5/29/06 |
| | Borehole Inclination 0 | Logged by B. Sharp | Date Completed (Well) 5/29/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | SM | | | |
| 1 | | SPT 1 | 3 | 15 | | | | | | SAND silty (SM); red (2.5 YR 4/6); loose; fine to medium grained; trace clay; low to medium plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | | SPT 2 | 5 | 15 | | | | | | SAA; medium dense; 32% fines | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 5 | 16 | | | | | | SAND silty (SM); red (2.5 YR 4/6); medium dense; trace clay; contains mica; no plasticity; 47% fines; RESIDUUM | | |
| 5 | | | | | | | | | | | | |
| 6 | | SPT 4 | 3 | 12 | | | | | | SAA | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 3 | 16 | | | | | | SAND silty (SM); red (2.5 YR 4/8); medium dense; fine to medium grained; trace clay; very micaceous; low plasticity; 29% fines; RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | SPT 6 | 4 | 12 | | | | | | SAA; brown (7.5 YR 4/4); red and white | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 3 | 15 | | | | | | SAA; 31% fines | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 3 | 14 | | | | | | SAND silty (SM); brown (10 YR 4/3); red and white; medium dense; fine to medium grained; micaceous; 34% fines RESIDUUM | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 3 | 16 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | SPT 10 | 4 | 14 | | | | | | SAA; 25% fines | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | Top of saprolite | | |
| 34 | | SPT 11 | 4 | 16 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | SPT 12 | 3 | 15 | | | | | | SAA; 27% fines | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-305A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---------|------|
| 40 | | | | | | | | | | SAND silty (SM); red (2.5 YR 4/6); loose; fine to medium grained; trace clay; low to medium plasticity; RESIDUUM (Continued from previous page) | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 4 | 15 | | | | | | SAA, black and white | | |
| 45 | | | 8 | 18 | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 3 | 16 | | | | | | SAA; 24% fines | | |
| 50 | | | 8 | 18 | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 50/5 | 0 | | | | | | No recovery PARTIALLY WEATHERED ROCK BORING TERMINATED AT 57.5 ft. see rock log | | |
| 55 | | | | 5 | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|--|--|---|-----------------------|---|-------------------------------|
| Project Name : Job Number | | MACTEC | | WELL LOG ROCK - WELL No. OW-305A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | | | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Nuclear Island | | Total Depth 175 feet | |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | | Elevation at Boring 423.9 feet | Ground Water Depth | | Depth to Bedrock 57.5 feet |
| Casing Size and Depth (Boring) 4 / 57.5 feet | | Elevation at Well 424.9 feet | No. of Core Boxes | | Date Started 5/29/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp | | Date Completed 5/29/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL | |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|-----------|--|------|--|
| | | | | | | | | | | | |
| 58 | 1 | 4.7 5.0 | 58 | MW | R1 | | GRANODIORITE; black and white; weathered zone from 57.5 to 60.6 ft; 35 to 45° dipping joints; some pyrite mineralization along joint surfaces Fracture zone 57.5 to 60.6 ft | | Tricone bit refusal at 57.5 ft on 4/28/06 | | |
| 59 | | | | | | | | | | | |
| 60 | | | | | | | | | | | |
| 61 | | | | SW | R3 | | | | NOTE: Samples and Lithology Information are from adjacent boring. Top of sound rock | | |
| 62 | | | | | | | | | | | |
| 63 | 2 | 4.0 5.0 | 74 | F | R3 to R4 | | GRANODIORITE; black and white with xenoliths of black amphibolite schist. Fracture zone 64 to 64.5 ft | | | | |
| 64 | | | | | | | | | | | |
| 65 | | | | | | | | | | | |
| 66 | 3 | 5.0 5.0 | 100 | F | R3 to R4 | | | | | | |
| 67 | | | | | | | | | | | |
| 68 | | | | | | | | | | | |
| 69 | 4 | 5.0 5.0 | 100 | F | R4 | | GRANODIORITE MIGMATITE; black and white with some scattered xenoliths of black amphibolite schist fine to coarse grained | | | | |
| 70 | | | | | | | | | | | |
| 71 | | | | | | | | | | | |
| 72 | 5 | 5.0 5.0 | 100 | F | R4 | | AMPHIBOLITE SCHIST; black; fine grained | | 5/1/06 5:30 pm at water at 52.5 ft 5/2/06 7:30 am at water at 45.5 ft. | | |
| 73 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 75 | 6 | 5.0 5.0 | 96 | F | R4 | | HORNBLLENDE GNEISS; black; fine grained; some quartz dikes | | End drilling on 5/2/06 Begin drilling 5/13/06 at 1:45 pm water at 53.5 ft | | |
| 76 | | | | | | | | | | | |
| 77 | | | | | | | | | | | |
| 78 | 7 | 5.0 5.0 | 100 | F | R4 | | Some quartz dikes and zones of granodiorite with pyrite visible at 89.0 to 89.8 ft and 90.7 to 91.3 ft | | | | |
| 79 | | | | | | | | | | | |
| 80 | | | | | | | | | | | |
| 81 | 8 | 5.0 5.0 | 100 | F | R4 | | Granodiorite intrusion from 93.0 to 93.3 ft.; moderately fractured | | | | |
| 82 | | | | | | | | | | | |
| 83 | | | | | | | | | | | |
| 84 | | | | | | | | | | | |
| 85 | | | | | | | | | | | |
| 86 | | | | | | | | | | | |
| 87 | | | | | | | | | | | |
| 88 | | | | | | | | | | | |
| 89 | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
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| 92 | | | | | | | | | | | |
| 93 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |
| 95 | | | | | | | | | | | |
| 96 | | | | | | | | | | | |
| 97 | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-305A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|---|---|------|
| | | | | | | | | | | |
| 98 | | | | | | | | | End drilling 5/13/06 at 5:15 pm water at 28.0 ft. | |
| 99 | 9 | 4.0 4.0 | 100 | F | R4 | | | | Begin day 5/14/06 at 7:30 am water at 50.0 ft. | |
| 100 | | | | | | | | | | |
| 101 | | | | | | | | | | |
| 102 | | | | | | | | Some granodiorite intrusions | End day 5/14/06 | |
| 103 | | | | | | | | | Begin day 5/15/06 at 7:45 am water at 53.0 ft. | |
| 104 | 10 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 105 | | | | | | | | Granodiorite intrusion 0.2 ft with pyrite visible | | |
| 106 | | | | | | | | | | |
| 107 | | | | | | | | BIOTITE GNEISS MIGMATITE; black and white; fine to medium grained; some quartz dikes and small granodiorite intrusions; some small xenoliths of amphibolite schist at 30 to 60° foliation | | |
| 108 | | | | | | | | | | |
| 109 | 11 | 5.0 5.0 | 100 | | | | | | | |
| 110 | | | | | | | | | | |
| 111 | | | | F | R4 | | | | | |
| 112 | | | | | | | | | | |
| 113 | | | | | | | | | | |
| 114 | 12 | 5.0 5.0 | 100 | | | | | | | |
| 115 | | | | | | | | | | |
| 116 | | | | F | R4 | | | | | |
| 117 | | | | | | | | | | |
| 118 | | | | | | | | | | |
| 119 | 13 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 120 | | | | | | | | | | |
| 121 | | | | | | | | | | |
| 122 | | | | | | | | AMPHIBOLITE SCHIST; black with zones of granodiorite; black and white; quartz dikes; fine to medium grained | | |
| 123 | | | | | | | | | | |
| 124 | 14 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 125 | | | | | | | | | | |
| 126 | | | | | | | | | | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
| 129 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 130 | | | | | | | | | | |
| 131 | | | | | | | | | | |
| 132 | | | | | | | | | | |
| 133 | | | | | | | | | | |
| 134 | 16 | 5.0 5.0 | 100 | F | R4 | | | Granodiorite zone from 134.2 to 134.6 ft | | |
| 135 | | | | | | | | HORNBLLENDE GNEISS; black; fine grained; some small xenoliths of black amphibolite schist | | |
| 136 | | | | | | | | | | |
| 137 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-305A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL | |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|-----------|--|------|--|
| | | | | | | | | | | | |
| 138 | 17 | 5.0 5.0 | 88 | F | R4 | | | | End day 5/15/06 Begin day 5/16/06 at 8:15 am water at 94 ft. | | |
| 139 | | | | | | | | | | | |
| 140 | | | | | | | | | | | |
| 141 | | | | | | | | | | | |
| 142 | | | | | | | | | | | |
| 143 | 18 | 5.0 5.0 | 96 | F | R4 | | | | | | |
| 144 | | | | | | | | | | | |
| 145 | | | | | | | | | | | |
| 146 | | | | | | | | | | | |
| 147 | | | | | | | | | | | |
| 148 | 19 | 5.0 5.0 | 58 | F | R4 | | | | | | |
| 149 | | | | | | | | | | | |
| 150 | | | | | | | | | | | |
| 151 | | | | | | | | | | | |
| 152 | | | | | | | | | | | |
| 153 | | | | | | | | | | | |
| 154 | 20 | 5.0 5.0 | 86 | F | R4 | | | | | | |
| 155 | | | | | | | | | | | |
| 156 | | | | | | | | | | | |
| 157 | | | | | | | | | | | |
| 158 | | | | | | | | | | | |
| 159 | 21 | 5.0 5.0 | 100 | F | R4 | | | | | | |
| 160 | | | | | | | | | | | |
| 161 | | | | | | | | | | | |
| 162 | | | | | | | | | | | |
| 163 | | | | | | | | | | | |
| 164 | 22 | 5.0 5.0 | 90 | F | R4 | | | | | | |
| 165 | | | | | | | | | | | |
| 166 | | | | | | | | | | | |
| 167 | | | | | | | | | | | |
| 168 | | | | | | | | | | | |
| 169 | 23 | 5.0 5.0 | 78 | F | R4 | | | | | | |
| 170 | | | | | | | | | | | |
| 171 | | | | | | | | | | | |
| 172 | | | | | | | | | | | |
| 173 | 24 | 3.5 3.5 | 91 | F | R4 | | | | | | |
| 174 | | | | | | | | | | | |
| 175 | | | | | | | | | | | |
| 176 | | | | | | | | | Boring terminated on 5/16/06 | | |
| 177 | | | | | | | | | | | |

| | | | |
|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-305B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location Nuclear Island | Total Depth 175 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | | Elevation at Boring 423.9 feet | Ground Water Depth Depth to Bedrock 57.5 feet |
| Sampling Method (Boring) Split Spoon | | Elevation at Well 423.7 feet | No. of Samples 14 Date Started (Well) 5/26/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed (Well) 5/26/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 3 | 15 | | | | | SM | SAND silty (SM); red (2.5 YR 4/6); loose; fine to medium grained; trace clay; low to medium plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | | SPT 2 | 5 | 15 | | | | | | SAA; medium dense; 32% fines | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 5 | 16 | | | | | | SAND silty (SM); red (2.5 YR 4/6); medium dense; trace clay; contains mica; no plasticity; 47% fines; RESIDUUM | | |
| 5 | | | | | | | | | | | | |
| 6 | | SPT 4 | 3 | 12 | | | | | | SAA | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 3 | 16 | | | | | | SAND silty (SM); red (2.5 YR 4/8); medium dense; fine to medium grained; trace clay; very micaceous; low plasticity; 29% fines; RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | SPT 6 | 4 | 12 | | | | | | SAA; brown (7.5 YR 4/4); red and white | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 3 | 15 | | | | | | SAA; 31% fines | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 3 | 14 | | | | | | SAND silty (SM); brown (10 YR 4/3); red and white; medium dense; fine to medium grained; micaceous; 34% fines RESIDUUM | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 3 | 16 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | SPT 10 | 4 | 14 | | | | | | SAA; 25% fines | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | Top of saprolite | | |
| 34 | | SPT 11 | 4 | 16 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | SPT 12 | 3 | 15 | | | | | | SAA; 27% fines | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-305B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---------|------|
| 40 | | | | | | | | | | SAND silty (SM); red (2.5 YR 4/6); loose; fine to medium grained; trace clay; low to medium plasticity; RESIDUUM (Continued from previous page) | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 4 | 15 | | | | | | SAA, black and white | | |
| 45 | | | 8 | 18 | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 3 | 16 | | | | | | SAA; 24% fines | | |
| 50 | | | 8 | 18 | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 50/5 | 0 | | | | | | No recovery PARTIALLY WEATHERED ROCK BORING TERMINATED AT 57.5 ft. see rock log | | |
| 55 | | | | 5 | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-305B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Nuclear Island | |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | | Elevation at Boring 423.9 feet | Ground Water Depth Depth to Bedrock 57.5 feet |
| Casing Size and Depth (Boring) 4 / 57.5 feet | | Elevation at Well 423.7 feet | No. of Core Boxes Date Started 5/26/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed 5/26/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|--|--|------|
| | | | | | | | | | | |
| 58 | 1 | 4.7 5.0 | 58 | MW | R1 | | GRANODIORITE; black and white; weathered zone from 57.5 to 60.6 ft; 35 to 45° dipping joints; some pyrite mineralization along joint surfaces Fracture zone 57.5 to 60.6 ft | Tricone bit refusal at 57.5 ft on 4/28/06 | NOTE: Samples and Lithology Information are from adjacent boring. Top of sound rock | [] |
| 60 | | | | SW | R3 | | | | | |
| 61 | 2 | 4.0 5.0 | 74 | F | R3 to R4 | | GRANODIORITE; black and white with xenoliths of black amphibolite schist. Fracture zone 64 to 64.5 ft | | | [] |
| 62 | | | | | | | | | | |
| 63 | 3 | 5.0 5.0 | 100 | F | R3 to R4 | | GRANODIORITE MIGMATITE; black and white with some scattered xenoliths of black amphibolite schist fine to coarse grained | | | [] |
| 64 | | | | | | | | | | |
| 65 | 4 | 5.0 5.0 | 100 | F | R4 | | AMPHIBOLITE SCHIST; black; fine grained | | | [] |
| 66 | | | | | | | | | | |
| 67 | 5 | 5.0 5.0 | 100 | F | R4 | | HORNBLLENDE GNEISS; black; fine grained; some quartz dikes | 5/1/06 5:30 pm at water at 52.5 ft 5/2/06 7:30 am at water at 45.5 ft. | | [] |
| 68 | | | | | | | | | | |
| 69 | 6 | 5.0 5.0 | 96 | F | R4 | | Some quartz dikes and zones of granodiorite with pyrite visible at 89.0 to 89.8 ft and 90.7 to 91.3 ft | End drilling on 5/2/06 Begin drilling 5/13/06 at 1:45 pm water at 53.5 ft | | [] |
| 70 | | | | | | | | | | |
| 71 | 7 | 5.0 5.0 | 100 | F | R4 | | Granodiorite intrusion from 93.0 to 93.3 ft.; moderately fractured | | | [] |
| 72 | | | | | | | | | | |
| 73 | 8 | 5.0 5.0 | 100 | F | R4 | | | | | [] |
| 74 | | | | | | | | | | |
| 75 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 77 | | | | | | | | | | |
| 78 | | | | | | | | | | |
| 79 | | | | | | | | | | |
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| 81 | | | | | | | | | | |
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| 83 | | | | | | | | | | |
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| 88 | | | | | | | | | | |
| 89 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | | | |
| 92 | | | | | | | | | | |
| 93 | | | | | | | | | | |
| 94 | | | | | | | | | | |
| 95 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 97 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-305B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|---|---|------|
| | | | | | | | | | | |
| 98 | 9 | 4.0 4.0 | 100 | F | R4 | | | | End drilling 5/13/06 at 5:15 pm water at 28.0 ft. Begin day 5/14/06 at 7:30 am water at 50.0 ft. | |
| 99 | | | | | | | | | | |
| 100 | 10 | 5.0 5.0 | 100 | F | R4 | | | Some granodiorite intrusions | End day 5/14/06 Begin day 5/15/06 at 7:45 am water at 53.0 ft. | |
| 101 | | | | | | | | | | |
| 102 | 11 | 5.0 5.0 | 100 | F | R4 | | | Granodiorite intrusion 0.2 ft with pyrite visible | | |
| 103 | | | | | | | | | | |
| 104 | 12 | 5.0 5.0 | 100 | F | R4 | | | BIOTITE GNEISS MIGMATITE; black and white; fine to medium grained; some quartz dikes and small granodiorite intrusions; some small xenoliths of amphibolite schist at 30 to 60° foliation | | |
| 105 | | | | | | | | | | |
| 106 | 13 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 107 | | | | | | | | | | |
| 108 | 14 | 5.0 5.0 | 100 | F | R4 | | | AMPHIBOLITE SCHIST; black with zones of granodiorite; black and white; quartz dikes; fine to medium grained | | |
| 109 | | | | | | | | | | |
| 110 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 111 | | | | | | | | | | |
| 112 | 16 | 5.0 5.0 | 100 | F | R4 | | | Granodiorite zone from 134.2 to 134.6 ft | | |
| 113 | | | | | | | | | | |
| 114 | 15 | 5.0 5.0 | 96 | F | R4 | | | HORNBLLENDE GNEISS; black; fine grained; some small xenoliths of black amphibolite schist | | |
| 115 | | | | | | | | | | |
| 116 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 117 | | | | | | | | | | |
| 118 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 119 | | | | | | | | | | |
| 120 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 121 | | | | | | | | | | |
| 122 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 123 | | | | | | | | | | |
| 124 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 125 | | | | | | | | | | |
| 126 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 127 | | | | | | | | | | |
| 128 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 129 | | | | | | | | | | |
| 130 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 131 | | | | | | | | | | |
| 132 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 133 | | | | | | | | | | |
| 134 | 15 | 5.0 5.0 | 96 | F | R4 | | | | | |
| 135 | | | | | | | | | | |
| 136 | 16 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 137 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-305B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|-----------|---------|------|
| | | | | | | | | | | |
| 138 | | | | | | | | | | |
| 139 | 17 | $\frac{5.0}{5.0}$ | 88 | F | R4 | | | | | |
| 140 | | | | | | | | | | |
| 141 | | | | | | | | | | |
| 142 | | | | | | | | | | |
| 143 | | | | | | | | | | |
| 144 | 18 | $\frac{5.0}{5.0}$ | 96 | F | R4 | | | | | |
| 145 | | | | | | | | | | |
| 146 | | | | | | | | | | |
| 147 | | | | | | | | | | |
| 148 | | | | | | | | | | |
| 149 | 19 | $\frac{5.0}{5.0}$ | 58 | F | R4 | | | | | |
| 150 | | | | | | | | | | |
| 151 | | | | | | | | | | |
| 152 | | | | | | | | | | |
| 153 | | | | | | | | | | |
| 154 | 20 | $\frac{5.0}{5.0}$ | 86 | F | R4 | | | | | |
| 155 | | | | | | | | | | |
| 156 | | | | | | | | | | |
| 157 | | | | | | | | | | |
| 158 | | | | | | | | | | |
| 159 | 21 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 160 | | | | | | | | | | |
| 161 | | | | | | | | | | |
| 162 | | | | | | | | | | |
| 163 | | | | | | | | | | |
| 164 | 22 | $\frac{5.0}{5.0}$ | 90 | F | R4 | | | | | |
| 165 | | | | | | | | | | |
| 166 | | | | | | | | | | |
| 167 | | | | | | | | | | |
| 168 | | | | | | | | | | |
| 169 | 23 | $\frac{5.0}{5.0}$ | 78 | F | R4 | | | | | |
| 170 | | | | | | | | | | |
| 171 | | | | | | | | | | |
| 172 | | | | | | | | | | |
| 173 | 24 | $\frac{3.5}{3.5}$ | 91 | F | R4 | | | | | |
| 174 | | | | | | | | | | |
| 175 | | | | | | | | | | |
| 176 | | | | | | | | | | |
| 177 | | | | | | | | | | |

Boring terminated on 5/16/06

| | | | |
|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-312 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location Adjacent to Power Block | Total Depth 115 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 425.2 feet | Ground Water Depth Depth to Bedrock 35 feet |
| Sampling Method (Boring) Split Spoon | | Elevation at Well 425.1 feet | No. of Samples 11 Date Started (Well) 5/12/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed (Well) 5/12/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 13 4 | 13 18 | | | | | ML | SILT sandy (ML); red (2.5 YR 4/6); damp; medium stiff; fine sand ~40%; low plasticity; micaceous; RESIDUUM SAA, except stiff | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | | SPT 2 | 11 4 | 11 18 | | | | | | | | |
| 3 | | SPT 3 | 16 5 | 16 18 | | | | | | | | |
| 4 | | SPT 4 | 14 5 | 14 18 | | | | | ML | SILT sandy (ML); red (2.5 YR 4/8); moist; stiff; fine sand ~15% low plasticity; micaceous; RESIDUUM | | |
| 5 | | SPT 5 | 16 5 | 16 18 | | | | | ML | | | |
| 6 | | SPT 6 | 16 7 | 16 18 | | | | | | SILT sandy (ML); red (2.5 YR 4/6); moist; stiff; fine sand ~35% low plasticity; micaceous; RESIDUUM | | |
| 7 | | SPT 7 | 14 6 | 14 18 | | | | | ML | | | |
| 8 | | SPT 8 | 14 8 | 14 18 | | | | | | SILT sandy (ML); reddish brown (2.5 YR 4/4); moist; stiff; fine sand ~30%; low plasticity; micaceous; RESIDUUM | | |
| 9 | | SPT 9 | 16 9 | 16 18 | | | | | ML | | | |
| 10 | | SPT 10 | 14 8 | 14 18 | | | | | | SILT sandy (ML); brown (7.5 YR 4/4); moist; stiff; fine sand ~15%; low plasticity; micaceous; SAPROLITE | Top of saprolite | |
| 11 | | SPT 11 | 16 9 | 16 18 | | | | | ML | | | |
| 12 | | SPT 12 | 14 8 | 14 18 | | | | | | SILT sandy (ML); brown and red (7.5 YR 4/4 and 2.5 YR 4/6); moist; very stiff; fine sand ~5% low plasticity; micaceous; SAPROLITE | | |
| 13 | | SPT 13 | 16 9 | 16 18 | | | | | ML | | | |
| 14 | | SPT 14 | 14 8 | 14 18 | | | | | | SILT sandy (ML); strong brown (7.5 YR 4/6); moist; hard; fine sand ~20%; low plasticity; micaceous; small rock fragments; PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 15 | | SPT 15 | 6 6 | 6 18 | | | | | ML | | | |
| 16 | | SPT 16 | 6 6 | 6 18 | | | | | | REFUSAL, see rock log | | |
| 17 | | SPT 17 | 6 6 | 6 18 | | | | | ML | | | |
| 18 | | SPT 18 | | | | | | | | | | |
| 19 | | SPT 19 | | | | | | | | | | |
| 20 | | SPT 20 | | | | | | | | | | |
| 21 | | SPT 21 | | | | | | | | | | |
| 22 | | SPT 22 | | | | | | | | | | |
| 23 | | SPT 23 | | | | | | | | | | |
| 24 | | SPT 24 | | | | | | | | | | |
| 25 | | SPT 25 | | | | | | | | | | |
| 26 | | SPT 26 | | | | | | | | | | |
| 27 | | SPT 27 | | | | | | | | | | |
| 28 | | SPT 28 | | | | | | | | | | |
| 29 | | SPT 29 | | | | | | | | | | |
| 30 | | SPT 30 | | | | | | | | | | |
| 31 | | SPT 31 | | | | | | | | | | |
| 32 | | SPT 32 | | | | | | | | | | |
| 33 | | SPT 33 | | | | | | | | | | |
| 34 | | SPT 34 | | | | | | | | | | |
| 35 | | SPT 35 | | | | | | | | | | |
| 36 | | SPT 36 | | | | | | | | | | |
| 37 | | SPT 37 | | | | | | | | | | |
| 38 | | SPT 38 | | | | | | | | | | |
| 39 | | SPT 39 | | | | | | | | | | |
| 40 | | SPT 40 | | | | | | | | | | |

| | | | |
|--|--|---|--|
| Project Name : Job Number | | WELL LOG ROCK - WELL No. OW-312 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Hollow Stem Auger / 6.25 inch | | Boring Location Adjacent to Power Block | Total Depth 115 feet |
| Drilling Contractor and Rig Poole/Gregg / Rhino | | Elevation at Boring 425.2 feet | Ground Water Depth Depth to Bedrock 35 feet |
| Casing Size and Depth (Boring) 3.25 / 35 feet | | Elevation at Well 425.1 feet | No. of Core Boxes 6 Date Started 5/12/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed 5/12/06 |

Reviewed by / Date M. Cooke 6/11/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|----------------|----------------|-----------------|-----------|--|---|------|
| | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 36 | | | | | | | | | | |
| 37 | 1 | 0.1 5.0 | 2 | CW to HW | R0 | | | Weathered zone; little recovery Dike at 35.0 ft of granite pegmatite | Refusal at 35.0 ft, switch to HQ coring water level at 7 ft. End of 4/25/06 Beginning of 4/26/06 NOTE: Samples and Lithology Information are from adjacent boring. | |
| 38 | | | | | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41 | | | | | | | | | | |
| 42 | 2 | 4.3 5.0 | 54 | SW | R3 | | | MIGMATITE gneiss with schist, granodiorite and quartz diorite; gray to very dark gray (Gley 1 6/6, Gley 1 3/6); flow band texture 40 to 41.7 ft slightly weathered granodiorite schist dike at 4 ft. | Cave in depth at 26 ft. Top of moderately weathered rock at 40 ft. Top of sound rock at 41.7 ft. | |
| 43 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 45 | | | | | | | | | | |
| 46 | | | | | | | | | | |
| 47 | 3 | 5.0 5.0 | 100 | F | R4 | | | | | |
| 48 | | | | | | | | | | |
| 49 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 51 | 4 | 4.0 4.0 | 100 | F | R4 | | | MIGMATITE with zones of schist, granodiorite, and biotite gneiss; gray to very dark gray and greenish gray (Gley 1 6/6 and Gley 1 3/6, Gley 1 5/10 GY); flow band texture from 50 to 52.5 ft. | End of drilling 4/26/06 water level at 10 ft Begin day 4/27/06, water level at 44 ft. | |
| 52 | | | | | | | | | | |
| 53 | | | | | | | | | | |
| 54 | 5 | 1.0 1.0 | 100 | F | R4 | | | BIOTITE GNEISS ZONE; light gray to very dark gray (Gley 1 6/6 and Gley 1 3/6); foliation 20° gneiss texture MIGMATITE; light gray to dark gray (Gley 1 7/4 and 4/N) | | |
| 55 | | | | | | | | | | |
| 56 | | | | | | | | | | |
| 57 | 6 | 5.0 5.0 | 98 | F | R4 | | | | | |
| 58 | | | | | | | | | | |
| 59 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 61 | 7 | 4.8 4.8 | 96 | F | R4 to R5 | | | BIOTITE GNEISS with bands of schist; light gray to dark gray (Gley 1 7/4 and Gley 1 4/N); foliation at 30° | | |
| 62 | | | | | | | | | | |
| 63 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 65 | | | | | | | | | | |
| 66 | 8 | 5.0 5.0 | 92 | F | R4 to R5 | | | BIOTITE GNEISS and schists xenoliths; gray and very dark gray (Gley 1 6/N, 3/N); gneiss texture; some foliation at 64.8 to 65.4 ft 25° | | |
| 67 | | | | | | | | | | |
| 68 | | | | | | | | | | |
| 69 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 71 | 9 | 5.0 5.0 | 100 | F | R4 to R5 | | | AMPHIBOLITE SCHIST (69.8 to 72.6 ft) and BIOTITE GNEISS (72.6 to 74.8 ft); gray to very dark gray (Gley 1 6/N, 3/N). Foliation at 30°; bands or quartz from 69.8 to 71.8 ft. breccia texture at 72.5 ft, quartz biotite | | |
| 72 | | | | | | | | | | |
| 73 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 75 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-312

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|--|---|------|
| | | | | | | | | | | |
| 75 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 77 | 10 | $\frac{5.0}{5.0}$ | 100 | F | R4 to R5 | | | BIOTITE GNEISS; with bands of schist; gray to dark gray (Gley 1 3/N, 6/N); pegmatite texture (79.3 to 79.8 ft); gneiss texture with foliation of 45°; biotite; quartz; chalcopyrite; feldspar. | End of 4/27/06, water level at 12 ft Begin day 4/29/06, water level at 37.5 ft. | |
| 78 | | | | | | | | | | |
| 79 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 81 | | | | | | | | | | |
| 82 | 11 | $\frac{5.0}{5.0}$ | 86 | F | R4 | | | MIGMATITE; mixture of AMPHIBOLITE SCHIST; black and white (Gley 1 8/N and 2.5/N); white zones of coarse granodiorite black and white; coarse grain; quartz, biotite | End of 4/29/06, water level at 37.5 ft. Begin day 4/30/06, water level at 52 ft. | |
| 83 | | | | | | | | | | |
| 84 | | | | | | | | | | |
| 85 | | | | | | | | | | |
| 86 | | | | | | | | SAA; fine to medium; zones of breccia texture | | |
| 87 | 12 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 88 | | | | | | | | | | |
| 89 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | | | |
| 92 | 13 | $\frac{5.0}{5.0}$ | 96 | F | R4 to R5 | | | MIGMATITE; mixture of GRANODIORITE and BIOTITE GNEISS and SCHIST; black, white, light gray (Gley 1 8/N and 2.5/N, 7/N)); irregular flow banding; quartz, biotite | | |
| 93 | | | | | | | | | | |
| 94 | | | | | | | | | | |
| 95 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 97 | 14 | $\frac{5.0}{5.0}$ | 100 | F | R4 to R5 | | | | | |
| 98 | | | | | | | | | | |
| 99 | | | | | | | | | | |
| 100 | | | | | | | | | | |
| 101 | | | | | | | | | | |
| 102 | 15 | $\frac{5.0}{5.0}$ | 100 | F | R4 to R5 | | | MIGMATITE; mixture of GRANODIORITE and SCHIST; black, white, light gray (Gley 1 8/N and 2.5/N, 7/N)); igneous texture | | |
| 103 | | | | | | | | | | |
| 104 | | | | | | | | | | |
| 105 | | | | | | | | | End of day 4/30/06 Begin of day 5/1/06, water level at 54 ft. | |
| 106 | | | | | | | | | | |
| 107 | 16 | $\frac{5.0}{5.0}$ | 100 | F | R4 to R5 | | | | | |
| 108 | | | | | | | | | | |
| 109 | | | | | | | | | | |
| 110 | | | | | | | | | | |
| 111 | | | | | | | | | | |
| 112 | 17 | $\frac{5.2}{5.2}$ | 100 | F | R4 to R5 | | | Quartz dike | | |
| 113 | | | | | | | | | | |
| 114 | | | | | | | | | | |
| 115 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-312

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|--------------------------------|--|------|
| 115 | | | | | | | | CORING TERMINATED AT 115.0 ft. | Coring terminated on 5/1/06 at 115.0 ft. | |
| 116 | | | | | | | | | | |
| 117 | | | | | | | | | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 121 | | | | | | | | | | |
| 122 | | | | | | | | | | |
| 123 | | | | | | | | | | |
| 124 | | | | | | | | | | |
| 125 | | | | | | | | | | |
| 126 | | | | | | | | | | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
| 129 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 131 | | | | | | | | | | |
| 132 | | | | | | | | | | |
| 133 | | | | | | | | | | |
| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | | | | | | | | | | |
| 138 | | | | | | | | | | |
| 139 | | | | | | | | | | |
| 140 | | | | | | | | | | |
| 141 | | | | | | | | | | |
| 142 | | | | | | | | | | |
| 143 | | | | | | | | | | |
| 144 | | | | | | | | | | |
| 145 | | | | | | | | | | |
| 146 | | | | | | | | | | |
| 147 | | | | | | | | | | |
| 148 | | | | | | | | | | |
| 149 | | | | | | | | | | |
| 150 | | | | | | | | | | |
| 151 | | | | | | | | | | |
| 152 | | | | | | | | | | |
| 153 | | | | | | | | | | |
| 154 | | | | | | | | | | |
| 155 | | | | | | | | | | |

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|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-313 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location Adjacent to Power Block | Total Depth 150 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 420.5 feet | Ground Water Depth Depth to Bedrock 61 feet |
| Sampling Method (Boring) Standard | | Elevation at Well 420.9 feet | No. of Samples 16 Date Started (Well) 5/13/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed (Well) 5/13/06 |

Reviewed by / Date M. Cooke 5/22/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 3 | 3 | 10 | | | | | ML | SILT sandy (ML); yellowish red (5 YR 4/6); damp; medium stiff; 60% silt, 40% clay; no plasticity; very micaceous; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | SPT 2 | 3 | 3 | 12 | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 3 | 16 | | | | | SM | SAND silty (SM); strong brown (7.5 YR 5/6); loose, 60% sand, 40% silt, non plastic to low plasticity, micaceous; RESIDUUM | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | SPT 4 | 4 | 4 | 13 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 4 | 4 | 14 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | 4 | 4 | 14 | | | | | | SAA dark yellowish brown (10 YR 4/4); mottled with black and white | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 3 | 3 | 14 | | | | | | | | |
| 15 | | | | | | | | | | SAND silty (SM); strong brown (7.5 YR 5/6) | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 3 | 3 | 15 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 3 | 3 | 15 | | | | | SM | SAND silty (SM); brown (10 YR 4/3); mottled with white and red; medium dense; non-plastic; micaceous; RESIDUUM to SAPROLITE | First saprolitic sample | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 4 | 4 | 17 | | | | | | SAA, mottled with black, white and yellowish red. | | |
| 30 | | | | | | | | | | SAA; mottled with black, white, and reddish brown | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 4 | 4 | 16 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 4 | 4 | 16 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number




SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-313

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--------------------------|------|
| 40 | | | | | | | | | | SAND silty (SM); brown (10 YR 4/3); mottled with white and red; medium dense; non-plastic; micaceous; RESIDUUM to SAPROLITE <i>(Continued from previous page)</i> | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 5 7 9 | 15 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | SM | SAND silty (SM); very dark grayish brown (3/2); very dense; contains rock fragments and mica; PARTIALLY WEATHERED ROCK | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 50/2 | 3 2 | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | SM | SAND silty (SM); brown (10 YR 4/3); mottled with black, white, and yellowish brown; dense; fine to coarse with angular gravel, non-plastic; micaceous; SAPROLITE | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 11 13 18 | 16 18 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | SPT 16 | 6 13 50/3.5 | 15 15.5 | | | | | | | | |
| 60 | | | | | | | | | | | Partially weathered rock | |
| 61 | | SPT 17 | 50/.25 | 0 0.25 | | | | | | SAND silty (SM); brown (10 YR 4/3); mottled with black, white, and yellowish brown; dense; fine to coarse with angular gravel, non-plastic; micaceous; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 61.0 ft. | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-327 | |
|  | | Lithologic and Sampling Information from adjacent companion boring. | |
| SCE&G COL : 6234-06-3534 | | | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location Adjacent to Power Block | Total Depth 66 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 410.8 feet | Ground Water Depth | Depth to Bedrock 49.3 feet |
| Sampling Method (Boring) Standard | Elevation at Well 410.7 feet | No. of Samples 14 | Date Started (Well) 5/29/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/29/06 |

Reviewed by / Date M. Cooke 6/12/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | CL | <p>CLAY sandy (CL); red (10 R 4/6); with tan/gray mottling; damp; medium stiff; 50 to 60% clay, 40 to 50% fine grained sand and silt; low plasticity; gradational contact below; RESIDUUM</p> <p>SAND silty, clayey (SM); red (10 R 4/6); mottled; moist; medium dense; 50 to 60% fine grained sand; 40 to 50% silt; some clay; RESIDUUM</p> <p>SAND silty (SM); red (2.5 YR 4/8); loose; 70 to 80% fine grained sand; 20 to 30% silt; trace clay; micaceous RESIDUUM</p> <p>SAA; but less silt 10 to 20%</p> <p>SAA; yellowish red (5 YR 5/8); medium dense; grading downward to red (2.5 YR 4/8) below 9.5 ft. localized clay-rich (white kaolinite) zone from 8.5 to 8.6 ft</p> <p>SAND silty (SM); loose; faint structure sub horizontal yellowish brown and black thin (1/16 to 1/8 inch thick) banding; SAPROLITE</p> <p>SAA; red (10 R 4/6); medium dense; no structure; localized micaceous zones</p> <p>SAND silty (SM); red (10 R 4/6) with localized zones of strong brown (7.5 YR 5/8); moist; loose; 80 to 90% fine grained sand, 10 to 20% silt; SAPROLITE</p> <p>SAND slightly silty (SP-SM); strong brown (7.5 YR 5/8); to yellowish brown (10 YR 5/8); below 24.7 ft; moist; medium dense; 90% fine grained sand, 10% silt, trace silt below 24.7 ft.; SAPROLITE</p> <p>SAND silty (SM); yellowish brown (10 YR 5/8); and (2.5 YR 4/8); medium dense; some black manganese staining, 80% fine grained sand, 20% silt; SAPROLITE</p> <p>SAA; dark red (2.5 YR 3/6); with alternating zones of yellowish brown (10 YR 5/8); moist; medium dense; some black manganese staining; 80% fine grained sand, 20% silt; SAPROLITE</p> <p>SAND silty (SM) olive brown (2.5 Y 4/4); and light olive brown (2.5 Y 5/6); moist; medium</p> | <p>NOTE: Samples and Lithology Information are from adjacent boring.</p> <p>Residuum</p> <p>Slow drilling</p> <p>Losing water</p> <p>End of day 4/14/06 water level at 7.6 ft.</p> <p>Begin day 4/17/06 water level dry</p> <p>Drilling becomes very hard</p> <p>Easier drilling from 37.5 to 38.5 ft</p> | |
| 1 | SPT 1 | | 4 | 18 | | | | | | | | |
| 2 | SPT 2 | | 4 | 10 | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | | 3 | 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | SPT 4 | | 4 | 15 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | | 4 | 17 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | | 3 | 17 | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | | 4 | 18 | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | | 3 | 18 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | | 5 | 18 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | | 10 | 17 | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | | 5 | 18 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | | 8 | 18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-327

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | dense; with thin stringers (up to 1/8 inch thick) of black manganese staining; micaceous; SAPROLITE SAND silty (SM); yellowish brown (10 YR 5/8); and (2.5 YR 4/8); medium dense; some black manganese staining, 80% fine grained sand, 20% silt; SAPROLITE <i>(Continued from previous page)</i> SAA; yellowish brown (10 YR 5/8); to dark reddish brown below 44.8 ft; some light gray/white (5 YR 7/1), 80% fine grained sand, 20 % silt; micaceous | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 9 10 12 | 18 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 46 50/3 | 9 9 | | | | | | AMPHIBOLITE; black (10 YR 2/1); highly weathered; rock fragments up to 5 cm in diameter; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 49.3 ft., see rock log | Tricone casing advancement tool plugging up from 47.5 to 48.5 ft. NOTE: Samples and Lithology Information are from adjacent boring. End of day 4/17/06 water level at 41.7 ft. Begin day 4/18/06 | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
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| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-327 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Adjacent to Power Block | Total Depth 66 feet |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 410.8 feet | Ground Water Depth Depth to Bedrock 49.3 feet |
| Casing Size and Depth (Boring) 3.5 / 49.3 feet | | Elevation at Well 410.7 feet | No. of Core Boxes Date Started 5/29/06 |
| | | Borehole Inclination 0 | Logged by C. Bruce Date Completed 5/29/06 |

Reviewed by / Date M. Cooke 6/12/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|-----------|---|------|
| | | | | | | | | | | |
| 50 | 1 | 0.0 5.0 | 0 | HW | R3 | | AMPHIBOLITE SCHIST; dark gray/black (5 Y 2.5/1); fine to medium grained; foliation not obvious; highly weathered; washed away in drill cuttings; SAPROLITE/PARTIALLY WEATHERED ROCK | | | |
| 51 | | | | | | | | | | |
| 52 | | | | | | | | | | |
| 53 | | | | CW | R0 | | | | | |
| 54 | | | | | | | | | | |
| 55 | 2 | 1.9 5.0 | 24 | HW | R3 | | QUARTZ, BIOTITE, HORNBLende, and PLAGIOCLASE GNEISS; dark gray/black and white 54.3 to 54.8 ft with heavy brown oxidation staining; foliation dipping 60 to 70° CORING TERMINATED AT 59.3 ft. | | Borehole terminated on 4/18/06 at 59.3 ft. water at 45.3 ft | |
| 56 | | | | | | | | | | |
| 57 | | | | MW | | | | | | |
| 58 | | | | SW | R4 | | | | | |
| 59 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 61 | | | | | | | | | | |
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| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-333 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location Adjacent to Power Block | | Total Depth 85 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 394.4 feet | Ground Water Depth | Depth to Bedrock 26.1 feet |
| Sampling Method (Boring) Standard | Elevation at Well 394.5 feet | No. of Samples 19 | Date Started (Well) 5/28/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/28/06 |

Reviewed by / Date M. Cooke 6/12/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 23 | 9 | | | | | SM | SAND silty (SM); brown (2.5 YR 3/3); dry; loose | NOTE: Samples and Lithology Information are from adjacent boring. Residuum | |
| 2 | | SPT 2 | 9 | 14 | | | | | | SAND silty (SM); red (10 R 3/4); dry; medium dense | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 5 | 14 | | | | | | SAND silty (SM); dark red (2.5 YR 3/6); dry; medium dense; trace mica | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | SPT 4 | 7 | 15 | | | | | | SAND silty (SM); dark red (2.5 YR 4/6); dry; medium dense; micaceous | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 5 | 18 | | | | | | SAA | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | SPT 6 | 5 | 18 | | | | | SM | SAND silty (SM); orange (5 YR 5/8); damp; medium dense; micaceous; fine to medium grained; SAPROLITE | Saprolite | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 3 | 18 | | | | | | SAA; pink orange (7.5 YR 7/6); damp; loose; 15% mica; SAPROLITE | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 2 | 18 | | | | | SM | SAA; white to brown; (7.5 YR 8/1 and 7.5 YR 5/4); damp; loose; 30% mica; SAPROLITE | Difficult drilling | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | SAND silty; (SM); brown (5 YR 5/4); damp; very dense; fine gravel; micaceous; rock fragments; PARTIALLY WEATHERED ROCK | Difficult drilling | |
| 24 | | SPT 9 | 16 | 6 | | | | | | Tricone refusal 25.9 ft, advanced casing to 26.1 ft, see rock log | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

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|---|--|---|-------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-333 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | Boring Location Adjacent to Power Block | Total Depth 85 feet | |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 394.4 feet | Ground Water Depth | Depth to Bedrock 26.1 feet |
| Casing Size and Depth (Boring) 3.5 / 26.1 feet | Elevation at Well 394.5 feet | No. of Core Boxes 3 | Date Started 5/28/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed 5/28/06 |

Reviewed by / Date M. Cooke 6/12/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|---|---|------|
| 27 | | | | | | | GRANODIORITE; biotite; quartz and orthoclase | NOTE: Samples and Lithology Information are from adjacent boring. | |
| 28 | 1 | 3.8 / 3.9 | 100 | | R3 | | | | |
| 29 | | | | F | | | | | |
| 30 | | | | | R3 | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | R2 | | | | |
| 35 | 2 | 5.8 / 10.0 | 47.5 | MW | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | No recovery; PARTIALLY WEATHERED ROCK | | |
| 38 | | | | CW | R0 | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | Highly weathered igneous texture, coarse grain size 4 mm and more, >10% mafics ~20% diorite | | |
| 41 | | | | | | | | | |
| 42 | 3 | 3.5 / 5.0 | 0 | HW | R0 | | | | |
| 43 | | | | | | | | | |
| 44 | | | | | | | | | |
| 45 | | | | | | | | | |
| 46 | | | | CW | | | | | |
| 47 | 4 | 4.4 / 5.0 | 40 | HW | R1 | | | | |
| 48 | | | | | | | | | |
| 49 | | | | SW | R3 | | GRANODIORITE; biotite; coarse grained quartz and orthoclase | Bottom of highly weathered | |
| 50 | | | | | | | | | |
| 51 | | | | SW | R2 to R3 | | | End of day 4/18/06 Begin day 4/19/06 | |
| 52 | 5 | 4.5 / 5.0 | 70 | CW to HW | R0 to R1 | | | | |
| 53 | | | | HW to MW | R1 to R2 | | | | |
| 54 | | | | MW to SW | R2 to R3 | | | | |
| 55 | | | | SW | R3 | | | | |
| 56 | | | | | | | | | |
| 57 | 6 | 5.0 / 5.0 | 100 | SW to F | R3 | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |
| 60 | | | | HW | R1 | | | | |
| 61 | | | | | | | | | |
| 62 | 7 | 4.4 / 5.0 | 17 | SW to F | R3 | | | | |
| 63 | | | | | | | | | |
| 64 | | | | CW to HW | R0 to R1 | | | | |
| 65 | | | | | | | | | |
| 66 | | | | | | | | | |

Project Name : Job Number



WELL LOG ROCK - WELL No. OW-333

SCE&G COL : 6234-06-3534

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL | |
|--------------|---------|----------------|-------|------------|----------|-----------------|------------------------------|------------------------|------------------------------------|------|--|
| 67 | 8 | 4.8 5.0 | 72.5 | HW to MW | R2 | | | | | | |
| 68 | | | | CW | R0 | | | | | | |
| 69 | | | | SW | R2 to R3 | | | | | | |
| 70 | | | | HW | R3 | | | | | | |
| 71 | | | | | R1 | | | | | | |
| 72 | 9 | 3.7 5.0 | 65 | SW to F | R3 | | | | | | |
| 73 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 75 | | | | | | | | | | | |
| 76 | | | | | | | | | | | |
| 77 | | | | | | | | | | | |
| 78 | | | | | | | | | | | |
| 79 | 10 | 10.0 10.0 | 99 | SW to F | R3 | | 1 inch dike 40° aplite | | Discolored discontinuity | | |
| 80 | | | | | | | | 1 inch dike 40° aplite | | | |
| 81 | | | | | | | | | 1 inch dike 40° aplite | | |
| 82 | | | | | | | | | | | |
| 83 | | | | | | | | | | | |
| 84 | | | | | | | | | | | |
| 85 | | | | | | | | | | | |
| 86 | | | | | | | CORING TERMINATED AT 86.0 ft | | Bottom of core at 85 ft on 4/19/06 | | |
| 87 | | | | | | | | | | | |
| 88 | | | | | | | | | | | |
| 89 | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
| 91 | | | | | | | | | | | |
| 92 | | | | | | | | | | | |
| 93 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |
| 95 | | | | | | | | | | | |
| 96 | | | | | | | | | | | |
| 97 | | | | | | | | | | | |
| 98 | | | | | | | | | | | |
| 99 | | | | | | | | | | | |
| 100 | | | | | | | | | | | |
| 101 | | | | | | | | | | | |
| 102 | | | | | | | | | | | |
| 103 | | | | | | | | | | | |
| 104 | | | | | | | | | | | |
| 105 | | | | | | | | | | | |
| 106 | | | | | | | | | | | |

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|---|--|---|---|
| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-401A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location Cooling Tower | Total Depth 120 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 404 feet | Ground Water Depth Depth to Bedrock 64 feet |
| Sampling Method (Boring) Standard | | Elevation at Well 404.1 feet | No. of Samples 17 |
| | | Borehole Inclination 0 | Date Started (Well) 5/15/06 |
| | | Logged by C. Bruce | Date Completed (Well) 5/17/06 |

Reviewed by / Date M. Cooke 5/22/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|-----------|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | 457 | 18 | 18 | | | | | ML | SILT sandy (ML); moderate reddish brown (10 R 4/6); damp; stiff; fine sand ~30%; low plasticity; FILL | NOTE: Samples and Lithology Information are from adjacent boring. Fill Residuuum | | |
| 2 | SPT 2 | 811 | 13 | 18 | | | | | ML | SILT sandy (ML); moderate reddish brown (10 YR 4/6); moist; very stiff; fine sand ~ 40%; low plasticity; RESIDUUM | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | 218 | 18 | 18 | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | SPT 4 | 456 | 13 | 18 | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | SPT 5 | 746 | 14 | 18 | | | | | ML | SILT sandy (ML); light brown (5 YR 5/6); moist; stiff; fine sand ~40%; low plasticity; slightly micaceous; SAPROLITE | | | Saprolite |
| 10 | | | | | | | | | | | | | |
| 11 | SPT 6 | 666 | 18 | 18 | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 7 | 263 | 14 | 18 | | | | | | SAA | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 8 | 448 | 15 | 18 | | | | | | SAA | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 9 | 459 | 18 | 18 | | | | | | SAA; ~10% fine sand | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | SPT 9A | 468 | 16 | 18 | | | | | | SILT (ML); moderate reddish brown (10 R 4/6); moist; stiff; fine sand ~5%; low plasticity; micaceous; SAPROLITE | Hard drilling, check for rock at 26.5 ft | | |
| 28 | | | | | | | | | | | | | |
| 29 | SPT 10 | 456 | 18 | 18 | | | | | | SILT sandy (ML); pale reddish brown (10 R 5/4); moist; stiff; fine sand ~10%; low plasticity; micaceous; SAPROLITE | End of day 4/17/06 Begin day 4/18/06. No water to 28 ft | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | SPT 11 | 6813 | 18 | 18 | | | | | | SILT sandy (ML); dark yellowish orange (10 YR 6/6); moist; very stiff; fine sand ~30%; low plasticity; micaceous; SAPROLITE | | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | SPT 12 | 6613 | 15 | 18 | | | | | | SAA | | | |
| 40 | | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-401A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--------------------------|------|
| 40 | | | | | | | | | | SILT sandy (ML); light brown (5 YR 5/6); moist; stiff; fine sand ~40%; low plasticity; slightly micaceous; SAPROLITE (Continued from previous page) | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 8 10 12 | 18 | | | | | | SAA | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 6 11 15 | 14 18 | | | | | | SAA | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | SM | SAND silty (SM); medium light gray (N 6 6/0); moist; medium dense; fine sand ~60%; SAPROLITE | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 12 14 14 | 14 18 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | ML | SILT sandy (ML); greenish black (N 2); moist; hard; fine sand ~30%; low plasticity; small quartz fragments; micaceous; SAPROLITE | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | SPT 16 | 17 27 50 | 18 18 | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | ML | SILT sandy (ML); dark yellowish orange (10 YR 6/8); moist; hard; fine sand ~40%; low plasticity; small quartz fragments; PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 63 | | | | | | | | | | | | |
| 64 | | SPT 17 | 50/6 | 6 6 | | | | | | BORING TERMINATED AT 64.0 ft. see rock log | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|---|--|---|---------------------------|
| Project Name : Job Number | | WELL LOG ROCK - WELL No. OW-401A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | | Boring Location Cooling Tower | |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 404 feet | Ground Water Depth |
| Casing Size and Depth (Boring) 3.5 / 64 feet | | Elevation at Well 404.1 feet | No. of Core Boxes 4 |
| | | Borehole Inclination 0 | Logged by C. Bruce |
| | | | Date Started 5/15/06 |
| | | | Date Completed 5/17/06 |

Reviewed by / Date M. Cooke 5/22/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL | |
|--------------|---------|----------------|-------|------------|----------|-----------------|---|-----------|---|------|--|
| | | | | | | | | | | | |
| 64 | 1 | 1.1 5.0 | 16 | RS | R0 | | AMPHIBOLITE SCHIST with GRANODIORITE; very dark gray and white (10 YR 2/1); and (Gley 1 8 /1); intrusion 30% foliated | | Switched to coring. NQ sampler used (Triple tube samples) NOTE: Samples and Lithology Information are from adjacent boring. | | |
| 65 | | | | | | | | | | | |
| 66 | | | | | | | | | | | |
| 67 | 2 | 4.5 5.0 | 76 | SW | | | GRANODIORITE; with amphibolite dikes and intrusions | | End of day 4/18/06, water at 4 ft Begin day 4/19/06, no water to 74 ft | | |
| 68 | | | | F | | | | | | | |
| 69 | | | | SW | | | | | | | |
| 70 | | | | | | | | | | | |
| 71 | | | | R4 | | | | | | | |
| 72 | 3 | 5.0 5.0 | 100 | F | R4 | | MIGMATITE GNEISS zones of SCHIST and GRANODIORITE; very dark gray and white (10 YR 2/1); and (Gley 8/1); fine to medium grained | | | | |
| 73 | | | | | | | | | | | |
| 74 | | | | HW | R2 | | | | | | |
| 75 | 4 | 5.0 5.0 | 100 | F | R4 | | Foliation from 76 to 77 ft. | | | | |
| 76 | | | | | | | | | | | |
| 77 | | | | | | | | | | | |
| 78 | | | | | | | | | | | |
| 79 | 5 | 5.0 5.0 | 86 | | | | AMPHIBOLITE SCHIST with GRANODIORITE intrusions | | | | |
| 80 | | | | | | | | | | | |
| 81 | | | | F | R4 | | | | | | |
| 82 | | | | | | | | | | | |
| 83 | | | | SW | | | | | | | |
| 84 | 6 | 5.0 5.0 | 88 | F | R4 | | AMPHIBOLITE SCHIST; dark gray (10 YR 2/1); fine grained; foliation ~30° | | | | |
| 85 | | | | | | | | | | | |
| 86 | | | | | | | | | | | |
| 87 | 7 | 5.0 5.0 | 88 | SW | | | GRANODIORITE with SCHIST intrusions; fine to medium grained | | | | |
| 88 | | | | F | | | | | | | |
| 89 | 8 | 5.0 5.0 | 86 | | | | MIGMATITE GNEISS | | | | |
| 90 | | | | | | | | | | | |
| 91 | | | | F | R4 | | | | | | |
| 92 | 7 | 5.0 5.0 | 88 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | | |
| 93 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |
| 95 | | | | | | | | | | | |
| 96 | 8 | 5.0 5.0 | 86 | | | | With flowing bands of SCHIST and GRANODIORITE | | | | |
| 97 | | | | | | | | | | | |
| 98 | | | | | | | | | | | |
| 99 | 8 | 5.0 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | | |
| 100 | | | | | | | | | | | |
| 101 | | | | | | | | | | | |
| 102 | | | | | | | | | | | |
| 103 | | | | | | | | | | | |
| 104 | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-401A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|-----------|--|------|
| 104 | 9 | 5.0 | 20 | F | R4 | | | | | |
| 105 | | 5.0 | | | | | | | | |
| 106 | 10 | 5.0 | 88 | F | R4 | | Flowing texture with GRANODIORITE and SCHIST | | | |
| 107 | | 5.0 | | | | | | | | |
| 108 | | | | | | | | | | |
| 109 | | | | | | | | | | |
| 110 | 11 | 1.0 | 100 | F | R4 | | MIGMATITE GNEISS | | | |
| 111 | | 1.0 | | | | | | | | |
| 112 | 12 | 5.0 | 100 | F | R4 | | CORING TERMINATED AT 120.0 ft. | | | |
| 113 | | 5.0 | | | | | | | | |
| 114 | | | | | | | | | | |
| 115 | | | | | | | | | | |
| 116 | | | | | | | | | | |
| 117 | | | | | | | | | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | Boring terminated at 120 ft, water at 4 ft. on 4/19/06 | |
| 121 | | | | | | | | | | |
| 122 | | | | | | | | | | |
| 123 | | | | | | | | | | |
| 124 | | | | | | | | | | |
| 125 | | | | | | | | | | |
| 126 | | | | | | | | | | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
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| 131 | | | | | | | | | | |
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| 138 | | | | | | | | | | |
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| 140 | | | | | | | | | | |
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| 143 | | | | | | | | | | |
| 144 | | | | | | | | | | |

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|---|----------------------------------|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-401B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | Boring Location Cooling Tower | | Total Depth 120 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 404 feet | Ground Water Depth | Depth to Bedrock 64 feet |
| Sampling Method (Boring) Split Spoon | Elevation at Well 404.1 feet | No. of Samples 17 | Date Started (Well) 5/11/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/11/06 |

Reviewed by / Date M. Cooke 5/23/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|--|--|--|------|
| 0 | | | | | | | | | | | | |
| 1 | | | | | | | | | ML | SILT sandy (ML); moderate reddish brown (10 R 4/6); damp; stiff; fine sand ~30%; low plasticity; FILL | NOTE: Samples and Lithology Information are from adjacent boring. Fill Residuuum | |
| 2 | | | | | | | | ML | SILT sandy (ML); moderate reddish brown (10 YR 4/6); moist; very stiff; fine sand ~ 40%; low plasticity; RESIDUUM | | | |
| 3 | | | | | | | | ML | SILT sandy (ML); moderate red (5 R 4/6); moist; very stiff; fine sand ~10%; low plasticity; slightly micaceous; RESIDUUM | | | |
| 4 | | | | | | | | | ML | SILT sandy (ML); moderate reddish brown (10 R 4/6); moist; stiff; fine sand ~ 40%; low plasticity; slightly micaceous; RESIDUUM | Saprolite | |
| 5 | | | | | | | | ML | SILT sandy (ML); moderate reddish brown (10 R 4/6); moist; stiff; fine sand ~40%; low plasticity; slightly micaceous; SAPROLITE | | | |
| 6 | | | | | | | | | ML | SILT (ML); light brown (5 YR 5/6); moist; stiff; fine sand ~5%; low plasticity; micaceous; banded; SAPROLITE | Hard drilling, check for rock at 26.5 ft End of day 4/17/06 Begin day 4/18/06. No water to 28 ft | |
| 7 | | | | | | | | | SAA | | | |
| 8 | | | | | | | | | SAA | | | |
| 9 | | | | | | | | | SAA | | | |
| 10 | | | | | | | | | SAA; ~10% fine sand | | | |
| 11 | | | | | | | | | SILT (ML); moderate reddish brown (10 R 4/6); moist; stiff; fine sand ~5%; low plasticity; micaceous; SAPROLITE | | | |
| 12 | | | | | | | | | SILT sandy (ML); pale reddish brown (10 R 5/4); moist; stiff; fine sand ~10%; low plasticity; micaceous; SAPROLITE | | | |
| 13 | | | | | | | | | SILT sandy (ML); dark yellowish orange (10 YR 6/6); moist; very stiff; fine sand ~30%; low plasticity; micaceous; SAPROLITE | | | |
| 14 | | | | | | | | | SAA | | | |
| 15 | | | | | | | | | SAA | | | |
| 16 | | | | | | | | | SAA | | | |
| 17 | | | | | | | | | SAA | | | |
| 18 | | | | | | | | | SAA | | | |
| 19 | | | | | | | | | SAA | | | |
| 20 | | | | | | | | | SAA | | | |
| 21 | | | | | | | | | SAA | | | |
| 22 | | | | | | | | | SAA | | | |
| 23 | | | | | | | | | SAA | | | |
| 24 | | | | | | | | | SAA | | | |
| 25 | | | | | | | | | SAA | | | |
| 26 | | | | | | | | | SAA | | | |
| 27 | | | | | | | | | SAA | | | |
| 28 | | | | | | | | | SAA | | | |
| 29 | | | | | | | | | SAA | | | |
| 30 | | | | | | | | | SAA | | | |
| 31 | | | | | | | | | SAA | | | |
| 32 | | | | | | | | | SAA | | | |
| 33 | | | | | | | | | SAA | | | |
| 34 | | | | | | | | | SAA | | | |
| 35 | | | | | | | | | SAA | | | |
| 36 | | | | | | | | | SAA | | | |
| 37 | | | | | | | | | SAA | | | |
| 38 | | | | | | | | | SAA | | | |
| 39 | | | | | | | | | SAA | | | |
| 40 | | | | | | | | | SAA | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-401B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|--------------------------|------|
| 40 | | | | | | | | | | SILT sandy (ML); light brown (5 YR 5/6); moist; stiff; fine sand ~40%; low plasticity; slightly micaceous; SAPROLITE (Continued from previous page) | | |
| 41 | | | | | | | | | SAA | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | | | | | | | | | SAA | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | SM | SAND silty (SM); medium light gray (N 6 6/0); moist; medium dense; fine sand ~60%; SAPROLITE | | |
| 53 | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | ML | SILT sandy (ML); greenish black (N 2); moist; hard; fine sand ~30%; low plasticity; small quartz fragments; micaceous; SAPROLITE | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | ML | SILT sandy (ML); dark yellowish orange (10 YR 6/8); moist; hard; fine sand ~40%; low plasticity; small quartz fragments; PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | BORING TERMINATED AT 64.0 ft. see rock log | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
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| 73 | | | | | | | | | | | | |
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| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|---|----------------------------------|---|-----------------------------|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-401B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Mud Rotary / 6 inch | Boring Location Cooling Tower | | Total Depth 120 feet |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 404 feet | Ground Water Depth | Depth to Bedrock 64 feet |
| Casing Size and Depth (Boring) 3.5 / 64 feet | Elevation at Well 404.1 feet | No. of Core Boxes 4 | Date Started 5/11/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed 5/11/06 |

Reviewed by / Date M. Cooke 5/23/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|---|-----------|---|------|
| 64 | 1 | 1.1 / 5.0 | 16 | RS | R0 | | AMPHIBOLITE SCHIST with GRANODIORITE; very dark gray and white (10 YR 2/1); and (Gley 1 8 /1); intrusion 30% foliated | | Switched to coring. NQ sampler used (Triple tube samples) NOTE: Samples and Lithology Information are from adjacent boring. | □ |
| 65 | | | | SW | | | | | | |
| 66 | 2 | 4.5 / 5.0 | 76 | F | | | GRANODIORITE; with amphibolite dikes and intrusions | | End of day 4/18/06, water at 4 ft Begin day 4/19/06, no water to 74 ft | □ |
| 67 | | | | SW | | | | | | |
| 68 | | | | R4 | | | | | | |
| 69 | 3 | 5.0 / 5.0 | 100 | HW | R2 | | MIGMATITE GNEISS zones of SCHIST and GRANODIORITE; very dark gray and white (10 YR 2/1); and (Gley 8/1); fine to medium grained | | | □ |
| 70 | | | | F | R4 | | | | | |
| 71 | 4 | 5.0 / 5.0 | 100 | F | R4 | | Foliation from 76 to 77 ft. | | | □ |
| 72 | | | | SW | | | | | | |
| 73 | | | | | | | | | | |
| 74 | 5 | 5.0 / 5.0 | 86 | F | R4 | | AMPHIBOLITE SCHIST with GRANODIORITE intrusions | | | □ |
| 75 | | | | SW | | | | | | |
| 76 | | | | | | | | | | |
| 77 | 6 | 5.0 / 5.0 | 88 | F | R4 | | AMPHIBOLITE SCHIST; dark gray (10 YR 2/1); fine grained; foliation ~30° | | | □ |
| 78 | | | | SW | | | | | | |
| 79 | 7 | 5.0 / 5.0 | 88 | F | R4 | | GRANODIORITE with SCHIST intrusions; fine to medium grained | | | □ |
| 80 | | | | SW | | | | | | |
| 81 | | | | | | | | | | |
| 82 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS | | | □ |
| 83 | | | | | | | | | | |
| 84 | 7 | 5.0 / 5.0 | 88 | F | R4 | | MIGMATITE GNEISS | | | □ |
| 85 | | | | | | | | | | |
| 86 | | | | | | | | | | |
| 87 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 88 | | | | | | | | | | |
| 89 | 8 | 5.0 / 5.0 | 86 | F | R4 | | With flowing bands of SCHIST and GRANODIORITE | | | □ |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | | | |
| 92 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 93 | | | | | | | | | | |
| 94 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 95 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 97 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 98 | | | | | | | | | | |
| 99 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 100 | | | | | | | | | | |
| 101 | | | | | | | | | | |
| 102 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 103 | | | | | | | | | | |
| 104 | 8 | 5.0 / 5.0 | 86 | F | R4 | | MIGMATITE GNEISS with intrusions of SCHIST at 100.5 ft to 101.2 ft; fine to medium grained | | | □ |
| 105 | | | | | | | | | | |
| 106 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-401B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|--|--|------|
| 104 | | | | | | | | | | |
| 105 | | | | | | | | | | |
| 106 | 9 | $\frac{5.0}{5.0}$ | 20 | F | R4 | | | | | |
| 107 | | | | | | | | | | |
| 108 | | | | | | | | | | |
| 109 | | | | | | | | | | |
| 110 | | | | | | | | Flowing texture with GRANODIORITE and SCHIST | | |
| 111 | 10 | $\frac{5.0}{5.0}$ | 88 | F | R4 | | | | | |
| 112 | | | | | | | | | | |
| 113 | | | | | | | | | | |
| 114 | 11 | $\frac{1.0}{1.0}$ | 100 | F | R4 | | | | | |
| 115 | | | | | | | | MIGMATITE GNEISS | | |
| 116 | | | | | | | | | | |
| 117 | 12 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | CORING TERMINATED AT 120.0 ft. | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | Boring terminated at 120 ft, water at 4 ft. on 4/19/06 | |
| 121 | | | | | | | | | | |
| 122 | | | | | | | | | | |
| 123 | | | | | | | | | | |
| 124 | | | | | | | | | | |
| 125 | | | | | | | | | | |
| 126 | | | | | | | | | | |
| 127 | | | | | | | | | | |
| 128 | | | | | | | | | | |
| 129 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 131 | | | | | | | | | | |
| 132 | | | | | | | | | | |
| 133 | | | | | | | | | | |
| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | | | | | | | | | | |
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| 139 | | | | | | | | | | |
| 140 | | | | | | | | | | |
| 141 | | | | | | | | | | |
| 142 | | | | | | | | | | |
| 143 | | | | | | | | | | |
| 144 | | | | | | | | | | |

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|---|----------------------------------|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-405 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary/Air Rotary / 6 inch | Boring Location Cooling Tower | Total Depth 58.5 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 392 feet | Ground Water Depth | Depth to Bedrock 47.2 feet |
| Sampling Method (Boring) Standard | Elevation at Well 392.6 feet | No. of Samples 13 | Date Started (Well) 5/11/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/15/06 |

Reviewed by / Date M. Cooke 5/15/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|--|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | 1 | 1 | 14 | 18 | | | | SM | SAND (SM); red (2.5 YR 5/6); dry; very loose; silty; trace mica | NOTE: Samples and Lithology Information are from adjacent boring. Residuum Saprolite | | |
| 2 | SPT 2 | 2 | 2 | 15 | 18 | | | | | SAND silty (SM); orange red and black (10 YR 5/6, 10 R 3/4 and 2.5/N); dry; loose; fine; micaceous | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 3 | 16 | 18 | | | | | SAA, color change to brown at 4.6 ft (10 YR 4/3); fine; heavily micaceous; SAPROLITE | | | |
| 5 | | | | | | | | | ML | SILT sandy (ML); orange and red (7.5 YR 5/8 to 10 R 3/6), 8 inch of pinkish white (7.5 YR 8/2); moist; stiff; SAPROLITE | | | |
| 6 | SPT 4 | 4 | 4 | 18 | 18 | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | SPT 5 | 5 | 5 | 16 | 18 | | | | SM | SAND silty (SM); brown (7.5 YR 5/7); damp; medium dense; black bands, white vein from toe to 8 inch; SAPROLITE | | | |
| 10 | | | | | | | | | | | | | |
| 11 | SPT 6 | 6 | 6 | 16 | 18 | | | | | SAA; olive yellow (2.5 Y 6/6); moist; medium dense; fine to coarse grained; foliated; black layered; some gravel grains | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 7 | 7 | 7 | 14 | 18 | | | | | SAA; black and brown, white from 14.5 ft; medium dense; fines (2.5 YR 5/6); heavily micaceous | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 8 | 8 | 8 | 13 | 18 | | | | | SAA; reddish yellow (7.5 YR 6/8); with sandier beige/white bands (10 YR 6/2); moist; medium dense; micaceous; manganese stains; SAPROLITE | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 9 | 9 | 9 | 18 | | | | | | SAND silty (SM); brown (10 YR 5/3); moist; medium dense; white, beige and orange; manganese staining; micaceous; SAPROLITE | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 29 | SPT 10 | 10 | 10 | 18 | | | | | | SAA; grayish brown (10 YR 5/2); moist; medium dense; fine grained; orange manganese staining; SAPROLITE | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | SPT 11 | 11 | 11 | 14 | 18 | | | | | SAND silty (SM); very dark brown (10 YR 3/3); moist; very dense; fine to medium grained; white to brown bands 1 to 4 inch; micaceous | | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | SPT 12 | 12 | 12 | 4 | 6.5 | | | | SM | | Partially weathered rock | | |
| 40 | | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-405

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---------|------|
| 40 | | | | | | | | | | <p>SAND silty (SM); black and white salt and pepper (1 Gley 4/1); moist; fine to medium grained; micaceous; PARTIALLY WEATHERED ROCK <i>(Continued from previous page)</i></p> <p>SAND gravely (SM); pink (2.5 YR 8/3); and brown (2.5 Y R 5/2); moist; very dense; micaceous; PARTIALLY WEATHERED ROCK Tricone refusal 46.9 ft.; drilled with casing to 47.2 ft, see rock log</p> | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 20 | 6 | | | | | | | | |
| 45 | | | 50/1 | 7 | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
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|---|----------------------------------|---|-------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-405 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Mud Rotary/Air Rotary / 6 inch | Boring Location Cooling Tower | | Total Depth 58.5 feet |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 392 feet | Ground Water Depth | Depth to Bedrock 47.2 feet |
| Casing Size and Depth (Boring) 3.5 / 47.3 feet | Elevation at Well 392.6 feet | No. of Core Boxes 1 | Date Started 5/11/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed 5/15/06 |

Reviewed by / Date M. Cooke 5/15/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|---------------|-----------------|---|---|--|----------------|
| | | | | Strength | Discontinuity | | | | | |
| 48 | 1 | 4.5 5.4 | 51 | HW | R1 | | PEGMATITE K-spar and quartz; large grained; highly weathered granodiorite, orthoclase, quartz; moderately weathered pegmatite, granite grains | NOTE: Samples and Lithology Information are from adjacent boring. Rapid bit advance 47.4 to 47.8 ft | End of drilling 4/13/06; water at 32 ft. | [Well Diagram] |
| 49 | | | | MW | | | | | | |
| 50 | | | | SW | R3 | | | | | |
| 51 | | | | MW | R2 | | | | | |
| 52 | | | | | | | GNEISS, quartz, mica, biotite, orthoclase, foliated 60°, medium size grains CORING TERMINATED AT 52.6 ft. | | | |
| 53 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 55 | | | | | | | | | | |
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| 63 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | | | | | | | | | | |
| 68 | | | | | | | | | | |
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| 70 | | | | | | | | | | |
| 71 | | | | | | | | | | |
| 72 | | | | | | | | | | |
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| 80 | | | | | | | | | | |
| 81 | | | | | | | | | | |
| 82 | | | | | | | | | | |
| 83 | | | | | | | | | | |
| 84 | | | | | | | | | | |
| 85 | | | | | | | | | | |
| 86 | | | | | | | | | | |
| 87 | | | | | | | | | | |

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|--|---|---|---------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-501 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | Boring Location Makeup Water Structure | Total Depth 80 feet | |
| Drilling Contractor and Rig(for Well) White/MACTEC / CME 55 | Elevation at Boring 430 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) Standard | Elevation at Well 429.5 feet | No. of Samples 25 | Date Started (Well) 8/2/06 |
| | Borehole Inclination 0 | Logged by C. Gandy | Date Completed (Well) 8/2/06 |

Reviewed by / Date M. Cooke 8/4/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|--|---|--|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | | 10 13 16 | 14 18 | | | | | ML | SILT (ML); red and brown (10 R 4/8 and 10 YR 6/4); dry; very stiff; with trace gravel and organics (small roots); FILL | NOTE: Samples and Lithology Information are from adjacent boring. Fill MACTEC Diedrich D50, Cain serial # 100 use to drill 0 to 11 ft; MACTEC Raleigh CME 55 LC, White serial # 331145 use to drill deeper than 11 ft | | |
| 2 | SPT 2 | | 6 9 12 | 15 18 | | | | | SM | SAND silty, clayey (SM); brown, gray (10 YR 5/3); dry to moist; medium dense SAA | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | | 7 9 11 | 10 18 | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | SPT 4 | | 3 3 3 | 0 18 | | | | | | No recovery | | | |
| 8 | | | | | | | | | | | | | |
| 9 | SPT 5 | | 5 15 14 | 7 18 | | | | | | SAA | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | SPT 6 | | 50/3 | 5 3 | | | | | SM | SAND silty (SM); reddish brown (2.5 YR 4/4); moist; very dense due to gravel; with 1 inch diameter gravel; non plastic; organics; FILL | | Refusal in rubble fill 7/22/06 at 11 ft Offset 10 ft; retry; refusal at offset on 7/22/06 Begin day 7/25/06; used casing advancing for CME 55 LC MACTEC Raleigh | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 7 | | 1 2 2 | 4 18 | | | | | | SAA; reddish brown (5 YR 4/4); very loose | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | SPT 8 | | 1 1 1 | 6.5 18 | | | | | | SAA; very loose | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 9 | | 0 1 1 | 4 18 | | | | | SP | SAND (SP); yellowish red (5 YR 5/8); wet; very loose; non plastic; organics; no silt; FILL | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | SPT 10 | | 1 2 1 | 10 18 | | | | | ML | SILT sandy (ML); strong brown (7.5 YR 5/6); very soft; moist to wet; low plasticity; 65% silt, 35% sand; organics; FILL | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 11 | | 3 2 4 | 18 18 | | | | | | SILT sandy, gravelly (ML); brown (7.5 YR 5/4); moist; medium stiff due to gravel; low plasticity; gravel ~1 inch in diameter; FILL | | | |
| 25 | | | | | | | | | | | | | |
| 26 | SPT 12 | | 2 3 3 | 18 18 | | | | | | | | | |
| 27 | | | | | | | | | CL-ML | CLAY silty (CL-ML); dark reddish brown; (2.5 YR 3/4); moist; medium stiff; medium plasticity; 70% clay, 25% silt; 5% sand; micaceous; RESIDUUM | Bottom of fill, top of residuum | | |
| 28 | | | | | | | | | | | | | |
| 29 | SPT 13 | | 3 4 5 | 18 18 | | | | | | SAA; dark red (2.5 YR 3/6); damp; stiff; medium plasticity; ~50/50% clay and silt; increasing mica content; RESIDUUM | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | SPT 14 | | 3 3 3 | 18 18 | | | | | | CLAY, silty, sandy (CL-ML); damp to moist; medium stiff; 45% clay, 45% silt, 10% sand; micaceous | End of day 7/25/06 Begin day 7/26/06 | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | SPT 15 | | 1 3 3 | 16 18 | | | | | | SAA; yellowish red (5 YR 4/6); damp; medium stiff; medium plasticity | | | |
| 40 | | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534


WELL LOG SOIL - Well No. OW-501

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|-----------|------|
| 40 | | | | | | | | | SM | SAND silty, gravelly (SM); red (2.5 YR 4/8); wet; medium stiff; 80% sand, 20% silt; non plastic; micaceous; gravel ~1 inch diameter | | |
| 41 | | | | | | | | | ML | (Continued from previous page) | Saprolite | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 16 | | 35 | 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 17 | | 58 | 18 | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 18 | | 520 | 18 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | SPT 19 | | 121727 | 1618 | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | SPT 20 | | 2450/6 | 1112 | | | | | | | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | SPT 21 | | 223747 | 15.518 | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | SPT 22 | | 3950/4 | 1110 | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | SPT 23 | | 222750/2 | 1214 | | | | | | | | |
| 80 | | | | | | | | | | | | |

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| Project Name : Job Number | WELL LOG SOIL - Well No. OW-501 Lithologic and Sampling Information from adjacent companion boring. |
| SCE&G COL : 6234-06-3534 | |

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|----------------------------|---|------|
| 80 | | | | | | | | | | | | |
| 81 | | | | | | | | | | BORING TERMINATED at 80 ft | 7/26/06; water level at 20.7 ft 7/27/06; water level at 20.4 ft Borehole terminated at 80 ft on 7/26/06 | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | |
| 89 | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | |
| 97 | | | | | | | | | | | | |
| 98 | | | | | | | | | | | | |
| 99 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

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|---|--|---|---------------------------------|
| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-612 | |
|  | | Lithologic and Sampling Information from adjacent companion boring. | |
| SCE&G COL : 6234-06-3534 | | | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | Boring Location Relocated Access Road | Total Depth 70 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 405 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) Standard | Elevation at Well 406.8 feet | No. of Samples 16 | Date Started (Well) 5/2/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/2/06 |

Reviewed by / Date M. Cooke 5/8/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 67 | 11 | 18 | | | | ML | SILT sandy (ML); red (10 R 4/6); damp; medium stiff; 70% silt, 30% fine grained sand, trace clay; with root fragments; some mica; low plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuom | |
| 2 | | SPT 2 | 69 | 11.5 | 18 | | | SM | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 67 | 12.5 | 18 | | | | ML | SAND silty (SM); dark red (10 R 3/6); damp; loose; 50 to 60 % fine grained sand; 40 to 50 % silt; trace clay; some mica; RESIDUUM | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | SPT 4 | 65 | 7 | 18 | | | | | SILT sandy (ML); red (10 R 4/8); moist; medium stiff; 70 to 80% silt; 20 to 30% fine grained sand; low plasticity; micaceous; RESIDUUM | | |
| 8 | | | | | | | | | | SAA | | |
| 9 | | SPT 5 | 33 | 9 | 18 | | | | SM | SAND silty (SM); yellowish red (5 YR 4/6); moist; loose; 50 to 60% fine grained sand; 40 to 50% silt; RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | SPT 6 | 33 | 11 | 18 | | | | | SAA | | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 34 | 9 | 18 | | | | SM | SAND silty (SM); yellowish red (5 YR 4/6); moist; loose; 50 to 60% fine grained sand; 40 to 50% silt; ; some faint remnant structure; micaceous from 14.8 to 15 ft; SAPROLITE | Saprolite | |
| 15 | | | | | | | | | | | End of day 4/12/06; water level 5.7 ft | |
| 16 | | | | | | | | | | | Begin day 4/13/06 | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 31 | 12 | 18 | | | | | SAND silty (SM); dark yellowish brown (10 YR 3/4); moist; very loose; 60 to 70% fine grained sand; 30 to 40% silt; micaceous; SAPROLITE | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 34 | 14 | 18 | | | | | SAND silty (SM); light olive brown (2.5 Y 5/3); moist; loose; 70 to 80% fine to medium grained; sand; trace coarse grained sand; 20 to 30% silt; micaceous; SAPROLITE | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | SPT 10 | 24 | 17 | 18 | | | | ML | SILT sandy (ML); dark yellowish brown (10 YR 3/6); loose; 70 to 80% silt; 20 to 30% fine grained sand; micaceous; SAPROLITE | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | SAA; color change becoming light olive brown 2.5 Y 5/6 | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | SPT 11 | 34 | 18 | 18 | | | | | SAA; brown (7.5 YR 4/3); moist; medium stiff; 80 to 90% silt; 10 to 20% fine grained sand; micaceous; faint relict sub horizontal foliation; abundant black manganese staining; SAPROLITE | | |
| 35 | | | | | | | | | | | Hard drilling from 34.7 to 35.0 ft | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | SM | SAND silty (SM); dark yellowish brown (10 YR 4/6); moist; loose; 50 to 60% fine grained sand; micaceous; thin stringers of manganese staining throughout; SAPROLITE | | |
| 38 | | | | | | | | | | | | |
| 39 | | SPT 12 | 35 | 15 | 18 | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-612

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | | Harder drilling from 39.7 to 40.0 ft | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | ML | SILT sandy (ML); dark yellowish brown (10 YR 4/4); moist; very stiff; SAPROLITE | Harder drilling from 42.5 to 43.5 ft | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 5 7 10 | 18 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | SM | SAND silty (SM); grayish brown (2.5 Y 5/2); moist; medium dense; 70% fine grained sand; some coarse grained weathered quartz; 30% silt; SAPROLITE | | |
| 49 | | SPT 14 | 12 14 10 | 18 18 | | | | | | SAA: olive brown (2.5 Y 4/3) | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 8 11 13 | 15.5 18 | | | | | | SILT sandy (SM) with gravel; highly weathered granitic fragments (mostly quartz); up to 1 cm in diameter | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | Very hard drilling from 57.0 to 57.5 ft | |
| 59 | | SPT 16 | 50/5 | 5 5 | | | | | SM | SAND silty (SM); very dark grayish brown (2.5 Y 3/2); moist; very dense; 70 to 80% medium grained to fine grained sand; 20 to 30% silt; same coarse grained quartz; PARTIALLY WEATHERED ROCK | Partially weathered rock Hard drilling below 59.0 ft Drilling very hard; cuttings of quartz | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | SPT 17 | 50/0 | 0 0 | | | | | | BORING TERMINATED AT 62.0 ft. | Refusal at 62 ft on 4/13/06; water level at 5.5 ft 4/14/06; water level at 17 ft | |
| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-614 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | | Boring Location Relocated Access Road | Total Depth 34.8 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 375 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 376.1 feet | No. of Samples 11 |
| | | Borehole Inclination 0 | Logged by C. Bruce |
| | | Reviewed by / Date M. Cooke 5/8/06 | Date Started (Well) 5/8/06 |
| | | Reviewed by / Date CES 1/26/07 | Date Completed (Well) 5/8/06 |

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|--------------------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 23 | 12 | | | | | SM | SAND silty (SM); reddish brown (2.5 YR 4/4); dry; loose; organic roots | NOTE: Samples and Lithology Information are from adjacent boring. Residuum | |
| 2 | | SPT 2 | 23 | 10 | | | | | | SAND very silty (SM); red (2.5 YR 4/6); dry; loose; | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 28 | 12 | | | | | ML | SILT sandy (ML); red (2.5 YR 3/6); damp; stiff | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | SPT 4 | 10/14 | 15 | | | | | | SILT sandy (ML); red (2.5 to 2.5/2); damp; very stiff; very dusky | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 6/10/13 | 18 | | | | | | SAA | | Losing circulation |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | SPT 6 | 5/11/13 | 18 | | | | | | SAA; red (2.5 YR 3/6); dry; very stiff; | | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 4/6/9 | 18 | | | | | | SAA; reddish brown (5 YR 5/4); damp; micaceous; lower sand content than above | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 23/4 | 12 | | | | | ML | SILT (ML); orange, beige, black (5 YR 5/8), (5 YR 7/2), (5 YR 2.5/1); moist; medium stiff; micaceous; SAPROLITE | Saprolite | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 22/4 | 14 | | | | | | SILT (ML); brown (7.5 YR 3/4); medium stiff; micaceous; SAPROLITE | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | SPT 10 | 33/7 | 18 | | | | | SM | SAND silty (SM); brown (7.5 YR 5/3); moist; loose to medium dense; manganese staining; micaceous; SAPROLITE | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | SPT 11 | 50/2 | 2 | | | | | SM | SAND silty (SM); dark gray pepper appearance (Grey 4/1); PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 35 | | | | | | | | | | | Refusal on 4/12/06 | |
| 36 | | | | | | | | | | | BORING TERMINATED AT 34.8 ft. | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

| | | | |
|--|--|---|--|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-617 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location Existing Access Road | Total Depth 108 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 450.1 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 447.2 feet | No. of Samples 25 |
| | | Borehole Inclination 0 | Logged by C Gandy |
| | | | Date Started (Well) 5/24/06 |
| | | | Date Completed (Well) 5/24/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 379 | 11 | 18 | | | | | ML | SILT (ML); dark red (10 R 3/4); dry; stiff; trace sand and mica; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | SPT 2 | 111520 | 12 | 18 | | | | | | SILT (ML); dark red (10 R 3/4); dry; hard; trace sand and mica | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 81315 | 18 | 18 | | | | | | SAA | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | SPT 4 | 81319 | 18 | 18 | | | | | | SAA | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 7810 | 18 | 18 | | | | | | SILT (ML); dark red (10 R 3/6); dry; very stiff; trace fine sand and mica | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | 91113 | 18 | 18 | | | | | | SILT (ML); red (2.5 YR 4/6); very stiff; sandy, gravel at 12.4 to 12.8 ft. | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 91216 | 18 | 18 | | | | | | SAA; no gravel; stiff | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 81223 | 18 | 18 | | | | | | SILT (ML) yellowish red (5 YR 5/8); dry; hard; trace fine sand | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | SM | SAND silty (SM); reddish yellow (7.5 YR 6/8); dry; medium dense | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 6912 | 18 | 18 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 5710 | 18 | 18 | | | | | | SAND silty (SM); red (10 R 4/8); medium dense; fine sand; with 5% coarse sand/fine gravel at 29 ft | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 3610 | 18 | 18 | | | | | ML | SILT sandy (ML); red (5 YR 5/8); slightly damp; very stiff; coarse sand and gravel; trace mica; SAPROLITE | Saprolite | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | SM | SAND silty (SM); mottled white, pale red (10 R 7/6); orange to white with black streaks; slightly damp; medium dense; little to no mica; SAPROLITE | | |
| 39 | SPT 12 | 358 | 18 | 18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-617

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---------|------|--|
| 40 | | | | | | | | | | <p>SAND silty (SM); mottled white, pale red (10 R 7/6); orange to white with black streaks; slightly damp; medium dense; little to no mica; SAPROLITE (Continued from previous page)</p> <p>SAA; more pale red</p> <p>SILT (ML); strong brown (7.5 YR 5/8); brownish orange with black vein, white veins; damp; stiff; little mica; SAPROLITE</p> <p>SAA 54 to 55.5 ft red (10 R 4/8); and some white silt, trace mica; SAPROLITE</p> <p>SILT sandy (ML); strong brown (7.5 YR 4/6); stiff; trace mica; SAPROLITE</p> <p>SILT sandy (ML); brown/orange (5 YR 5/8); yellowish red; very stiff; fine sand; SAPROLITE</p> <p>SILT (ML); brown (7.5 YR 5/8); very stiff; micaceous; SAPROLITE</p> <p>SILT (ML); brown to white; very stiff; micaceous; SAPROLITE</p> <p>SILT sandy (ML); brown (7.5 YR 5/8); dry; very stiff; black veins; SAPROLITE</p> | | | |
| 41 | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | |
| 44 | | SPT 13 | 3 | 16 | | | | | | | | | |
| 45 | | | 6 | 18 | | | | | | | | | |
| 46 | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | |
| 49 | | SPT 14 | 4 | 18 | | | | | | | | | |
| 50 | | | 6 | 18 | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | |
| 54 | | SPT 15 | 5 | 16 | | | | | | | | | |
| 55 | | | 7 | 18 | | | | | | | | | |
| 56 | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | |
| 59 | | SPT 16 | 3 | 17 | | | | | | | | | |
| 60 | | | 6 | 18 | | | | | | | | | |
| 61 | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | |
| 64 | | SPT 17 | 4 | 16 | | | | | | | | | |
| 65 | | | 8 | 18 | | | | | | | | | |
| 66 | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | |
| 69 | | SPT 18 | 4 | 18 | | | | | | | | | |
| 70 | | | 7 | 18 | | | | | | | | | |
| 71 | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | |
| 74 | | SPT 19 | 7 | 18 | | | | | | | | | |
| 75 | | | 10 | 18 | | | | | | | | | |
| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | | SPT 20 | 7 | 18 | | | | | | | | | |
| 80 | | | 10 | 18 | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-617

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 80 | | | | | | | | | | SILT (ML); strong brown (7.5 YR 5/8); brownish orange with black vein, white veins; damp; stiff; little mica; SAPROLITE <i>(Continued from previous page)</i> | | |
| 81 | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | SPT 21 | | 8 12 | 18 18 | | | | | | SAA; with layer 84 to 84.4 ft white; silt with gravel | | |
| 85 | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | |
| 89 | SPT 22 | | 6 11 | 18 18 | | | | | | SILT sandy (ML); brown (7.5 YR 5/8); dry; very stiff; black veins; mica; SAPROLITE | End of day 4/5/06 Begin day 4/6/06; no water to 88.5 ft | |
| 90 | | | | | | | | | | | | |
| 91 | | | | | | | | | SM | SAND silty (SM); white with some orange and black (10 YR 8/4); dense; very pale brown; mica; quartz gravel in tip of spoon | | |
| 92 | | | | | | | | | | | | |
| 93 | SPT 23 | | 11 12 | 18 18 | | | | | | | | |
| 94 | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | |
| 97 | | | | | | | | | SM | SAND silty (SM); white with brown and black specks; very dense; fine to coarse sand size; SAPROLITE | More difficult drilling | |
| 98 | | | | | | | | | | | | |
| 99 | SPT 24 | | 23 38 | 12 17 | | | | | | SAND (SM); brown (7.5 YR 7/8); very dense; fine; no coarse sand; black veins; mica; PARTIALLY WEATHERED ROCK | | |
| 100 | | | 50/5 | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | SPT 25 | | 50/2 | 2 2 | | | | | SM | SAND silty (SM); black with white pepper appearance; wet; very dense; PARTIALLY WEATHERED ROCK | | |
| 105 | | | | | | | | | | BORING TERMINATED AT 105.0 ft. | Refusal at 105.0 ft. on 4/6/06; water level at 104 ft | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | NOTE: Unslotted sump section occupies last 0.5 ft of screen length as shown | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

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|--|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-618 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location South of Switchyard | Total Depth 32.6 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 308.2 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 307.4 feet | No. of Samples 10 Date Started (Well) 5/12/06 |
| | | Borehole Inclination 0 | Logged by B. Sharp Date Completed (Well) 5/12/06 |

Reviewed by / Date M. Cooke 5/22/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|--|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | 246 | 10 | 18 | | | | | SM | SAND silty (SM); dark reddish brown (5 YR 3/4); dry; loose; trace clay; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | | |
| 2 | SPT 2 | 1521 | 18 | 18 | | | | | | SAND silty (SM); reddish gray (5 YR 5/2); dry; dense | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | 913 | 18 | 18 | | | | | | SAND silty (SM); pale yellow (5 Y 7/3); dry; dense | | | |
| 5 | | | | | | | | | | | | | |
| 6 | SPT 4 | 1013 | 18 | 18 | | | | | | SAND (SM); pale olive (5 Y 6/4); dry; medium dense; fine to gravel | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | SPT 5 | 79 | 18 | 18 | | | | | | SAND silty (SM); olive (5 Y 4/3) and orange; medium dense; micaceous | | | |
| 10 | | | | | | | | | | | | | |
| 11 | SPT 6 | 1011 | 18 | 18 | | | | | | SAA | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 7 | 916 | 16 | 18 | | | | | | SAND silty (SM); dark olive gray (5 Y 3/2); dry; dense; fine to medium grained; micaceous | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 8 | 1014 | 14 | 18 | | | | | SM | SAND silty (SM); olive gray (5 Y 5/4); moist; medium dense to dense; micaceous; SAPROLITE | Saprolite | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 9 | 2031 | 15 | 18 | | | | | | SAND silty (SM); olive gray (5 Y 5/4); wet; very dense; poorly sorted; fine to fine gravel; trace mica; SAPROLITE | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 29 | SPT 10 | 25 | 12 | 18 | | | | | | SAND silty (SM); dark gray olive tint (5 Y 4/1); wet; medium dense; fine to very coarse to gravel; micaceous; gravel 15%; SAPROLITE | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | Auger refusal at 32.6 ft on 4/10/06. Water level at 13 ft | | |
| 34 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | |

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|---|--|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-619 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location West of Southern Nuclear Island | Total Depth 104 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 405.1 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) Standard | Elevation at Well 405.7 feet | No. of Samples 18 | Date Started (Well) 5/27/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/28/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|--|--|----------------------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 244 | 12 | 18 | | | | CL-ML | CLAY silty (CL-ML); dark reddish brown (2.5 Y 3/4); damp; medium stiff; 10% fine grained sand; some roots; low plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | | |
| 2 | SPT 2 | 347 | 17 | 18 | | | | ML | SILT sandy (ML); dark red (10 R 3/6); dry to damp; medium stiff; 15 to 25% fine grained sand; low plasticity; RESIDUUM | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 6912 | 18 | 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | SPT 4 | 5710 | 17 | 18 | | | | ML | SAA; some weathered quartz fragments from 7.4 to 7.5 ft; some manganese staining | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 557 | 10 | 18 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | SPT 6 | 557 | 17 | 18 | | | | SM | SAND silty (SM); dark reddish brown (5 YR 3/4); grading down to dark olive brown (2.5 Y 3/3); damp; medium dense; micaceous; RESIDUUM | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 588 | 13 | 18 | | | | | SAA | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 6610 | 15 | 18 | | | | | SAA; light olive brown (2.5 Y 5/4); damp; loose; 30 to 40% silt; micaceous; some manganese staining; RESIDUUM | End day 4/10/06, no water encountered Begin day 4/11/06, no water encountered | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 7710 | 18 | 18 | | | | | SAA; grading down to yellowish brown (10 YR 5/8) | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 678 | 13 | 18 | | | | | SAA | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 9910 | 18 | 18 | | | | | SAA; brown (7.5 YR 4/4); damp; medium dense; 30 to 40% silt; micaceous; RESIDUUM | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 81114 | 18 | 18 | | | | | SM | SAND silty (SM); pale olive (5 Y 6/4); damp; medium dense; 30 to 40% silt; SAPROLITE | Saprolite at 38.5 ft | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-619

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|------------------------------------|------|
| 40 | | | | | | | | | | SAND silty (SM); pale olive (5 Y 6/4); damp; medium dense; 30 to 40% silt; SAPROLITE <i>(Continued from previous page)</i> | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT | 13 | 8 10 14 | 18 18 | | | | | | SAA | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT | 14 | 7 9 11 | 18 18 | | | | | ML | SILT clayey (ML); yellowish brown (10 YR 5/6); moist; very stiff; fine grained sand 10% mottled; SAPROLITE | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT | 15 | 8 12 14 | 17 18 | | | | | SP-SM | SAND silty (SP-SM); dark yellowish brown (10 YR 3/6); moist; medium dense; fine grained sand; 10% silt; micaceous; abundant mafic mineral; faint sub horizontal foliation; SAPROLITE | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | SPT | 16 | 8 14 16 | 18 18 | | | | | | SAA | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | SPT | 17 | 9 50/1 | 7 6 | | | | | SP-SM | SAND (SP-SM); dark olive brown (2.5 Y 3/3); moist; very dense; fine grained sand; some silt; micaceous; relict mafic minerals; faint sub horizontal structure; PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 65 | | | | | | | | | | | | |
| 66 | SPT | 18 | 50/0 | 0 0 | | | | | | WEATHERED ROCK BORING TERMINATED AT 66.0 ft | Auger refusal on 4/11/06; no water | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-619

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|-----------|---------|------|
| 80 | | | | | | | | | | | | |
| 81 | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | |
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| 90 | | | | | | | | | | | | |
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| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | |
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| 98 | | | | | | | | | | | | |
| 99 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

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|---|---|---|---------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-620 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | Boring Location North of Northern Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 381.7 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) | Elevation at Well 382.8 feet | No. of Samples | Date Started (Well) 4/30/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/1/06 |

Reviewed by / Date M. Cooke 5/8/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 1 | 13 | 14 | 18 | | | | CL-ML | <p>CLAY silty sandy (CL-ML); dark brown (10 YR 3/3); moist; medium stiff; 50% clay, 20% silt, 30% sand; low to medium plasticity; RESIDUUM</p> <p>SILT sandy (ML); brown (10 YR 4/3); moist; stiff; 70% silt, 30% sand; low plasticity; contains small roots; SAPROLITE</p> <p>SAND silty (SM); dark yellowish brown (10 YR 4/6); damp; very dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE</p> <p>SAA; pale brown (10 YR 6/3); damp; dense; 75% sand, 25% silt; contains quartz angular rock fragments; SAPROLITE</p> <p>SAA; light brownish gray (10 YR 6/2); damp; medium dense; 60% sand; 40% silt; grades to 50% silt, 50% sand from 8.5 to 9.0 ft and (10 YR 4/3); slightly micaceous; SAPROLITE</p> <p>SAA; gray (10 YR 6/1); damp; medium dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE</p> <p>SAA; light brownish gray (10 YR 6/2); damp; medium dense; 70% sand, 30% silt; slightly micaceous; SAPROLITE</p> <p>SAA; light brownish gray (10 YR 6/2); damp; medium dense; 65% sand, 35% silt; slightly micaceous; SAPROLITE</p> | | |
| 2 | SPT 2 | 2 | 16 | 18 | | | | ML | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 21 | 18 | | | | SM | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | SPT 4 | 4 | 20 | 18 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 5 | 9 | 18 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 6 | 6 | 13 | 18 | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 7 | 8 | 14 | 18 | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 8 | 5 | 18 | 18 | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | ML | | | |
| 24 | SPT 9 | 9 | 4 | 18 | 18 | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | SM | | | |
| 29 | SPT 10 | 10 | 6 | 18 | 18 | | | | | | | |
| 30 | | | | | | | | | ML | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | SM | | | |
| 34 | SPT 11 | 11 | 13 | 18 | 18 | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 12 | 6 | 18 | 18 | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-620

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 40 | | | | | | | | | | | End of day 4/7/06 water at 39 ft. | |
| 41 | | | | | | | | | | | Begin day 4/8/06 at 8:00 am water at 34.6 ft. | |
| 42 | | | | | | | | | ML | SILT sandy (ML); brown (10 YR 5/3); moist; very stiff; 65% silt, 35% sand; no to low plasticity; micaceous; SAPROLITE | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 13 | | 6 8 13 | 16 18 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | SM | SAND silty (SM); brown (10 YR 5/3); moist; dense; 60% sand, 40% silt; micaceous; SAPROLITE | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 7 11 24 | 12 18 | | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | SPT 15 | | 6 11 22 | 13 18 | | | | | | SAA; dark grayish brown (10 YR 4/2); moist; dense; 60% sand, 40% silt; micaceous; SAPROLITE | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | ML | SILT sandy (ML); brown (10 Y R 4/3); moist; hard; 55% silt, 45% sand; no to low plasticity; micaceous; SAPROLITE | | |
| 58 | | | | | | | | | | | | |
| 59 | SPT 16 | | 9 17 35 | 14 18 | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | SPT 17 | | 10 18 27 | 13 18 | | | | | | SAA; dark grayish brown (10 YR 4/2); moist; hard; 55% silt, 45% sand; no to low plasticity; slightly micaceous; SAPROLITE | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | ML | SILT sandy (ML); grayish brown (10 YR 5/2); moist; hard; 55% silt, 45% sand; no to low plasticity; micaceous; PARTIALLY WEATHERED ROCK | | |
| 68 | | | | | | | | | | | | |
| 69 | SPT 18 | | 22 50/4 | 10 10 | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | ML | SILT sandy (ML); grayish brown (10 YR 5/2); moist; hard; 55% silt, 45% sand; no to low plasticity; micaceous; SAPROLITE | | |
| 73 | | | | | | | | | | | | |
| 74 | SPT 19 | | 12 25 45 | 13 18 | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | SM | SAND silty (SM); grayish brown (10 YR 5/2); moist; very dense; 65% sand, 35% silt; micaceous; PARTIALLY WEATHERED ROCK | Partially weathered rock | |
| 78 | | | | | | | | | | | | |
| 79 | SPT 20 | | 50/6 | 6 6 | | | | | | | | |
| 80 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-620

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 80 | | | | | | | | | | SAND silty (SM); grayish brown (10 YR 5/2); moist; very dense; 65% sand, 35% silt; micaceous; PARTIALLY WEATHERED ROCK (Continued from previous page) | | |
| 84 | SPT 21 | 50/4 | 4 | 4 | | | | | | SAA; except yellowish brown (10 YR 5/4) | | |
| 89 | SPT 22 | 50/5.5 | 5.5 | 5.5 | | | | | | SAA except dark grayish brown (10 YR 4/2) | | |
| 94 | SPT 23 | 50/2.5 | 2.5 | 2.5 | | | | | | SAA; light brownish gray (10 YR 6/2); damp to moist; very dense; 70% sand, 30% silt; micaceous; PARTIALLY WEATHERED ROCK | | |
| 99 | SPT 24 | 50/1 | 1 | 1 | | | | | | SAND silty (SM); grayish brown (10 YR 5/2); damp; very dense; 80% sand, 20% silt; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 100.0 ft. | Boring terminated on 4/10/06 Begin day 4/11/06 at 8:30 am water at 31.6 ft | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

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|--|---|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-621A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location North of Northern Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | Elevation at Boring 421.5 feet | Ground Water Depth | Depth to Bedrock 58.5 feet |
| Sampling Method (Boring) Standard | Elevation at Well 420.9 feet | No. of Samples 15 | Date Started (Well) 5/26/06 |
| | Borehole Inclination 0 | Logged by B. Sharp | Date Completed (Well) 5/26/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|---|---|---------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 344 | 15 | 18 | | | | CL-ML | CLAY silty, sandy (CL-ML); yellowish red (5 YR 4/6); damp; medium stiff; 50% clay, 30% silt, 20% sand; low to medium plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | | |
| 2 | SPT 2 | 666 | 16 | 18 | | | | ML | SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 677 | 15 | 18 | | | | | SILT sandy (ML); red (2.5 YR 4/6); stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 5 | | | | | | | | | SILT (ML); yellowish brown (10 YR 5/4); medium stiff; 90% silt, 10% sand; no plasticity; RESIDUUM | | | |
| 6 | SPT 4 | 333 | 14 | 18 | | | | | SILT sandy (ML); dark red (2.5 YR 3/6); stiff; 80% silt, 20% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 7 | | | | | | | | | SILT sandy (ML); yellowish red (5 YR 4/6); medium stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 8 | SPT 5 | 578 | 15 | 18 | | | | | SILT sandy (ML); dark red (2.5 YR 3/6); medium stiff; 75% silt, 25% sand; no plasticity; micaceous; RESIDUUM | | | |
| 9 | | | | | | | | | SILT sandy (ML); yellowish red (5 YR 5/8); stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 10 | SPT 6 | 234 | 16 | 18 | | | | | SILT sandy (ML); dark red (2.5 YR 3/6); medium stiff; 75% silt, 25% sand; no plasticity; micaceous; RESIDUUM | | | |
| 11 | | | | | | | | | SILT sandy (ML); yellowish red (5 YR 4/6); medium stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 12 | SPT 7 | 244 | 16.5 | 18 | | | | | SILT sandy, clayey (ML); yellowish brown (10 YR 5/8); stiff; 70% silt, 30% sand; low to medium plasticity; slightly micaceous; RESIDUUM | | | |
| 13 | | | | | | | | | SILT sandy, (ML); dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 25% sand, 5% clay; low to medium plasticity; trace of clay; slightly micaceous; RESIDUUM | | | |
| 14 | SPT 8 | 256 | 18 | 18 | | | | | SILT sandy, (ML) dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 9 | 123 | 16 | 18 | | | | | SILT sandy, (ML) dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 10 | 358 | 20 | 18 | | | | | SILT sandy, (ML); dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 25% sand, 5% clay; low to medium plasticity; trace of clay; slightly micaceous; RESIDUUM | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | SPT 11 | 5913 | 19 | 18 | | | | | SILT sandy, (ML) dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 12 | 10118 | 13 | 18 | | | | | SILT sandy, (ML) dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-621A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | plasticity; trace clay; slightly micaceous; RESIDUUM | | |
| 41 | | | | | | | | | | SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 13 | | 10 28 | 19 16 | 50/4 | | | | | (Continued from previous page) | | |
| 45 | | | | | | | | | | SILT sandy (ML); black (10 YR 2/1); hard; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 24 36 | 16 18 | 19 | | | | | SILT sandy (ML); black (7.5 YR 2.5/1); hard; 70% silt, 30% sand; no plasticity; contains rock fragments; slightly micaceous; RESIDUUM | End of day 4/11/06 Begin day 4/12/06 at 8:00 am water at 24.0 ft | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | GP | GRAVEL (GP); Amphibolite schist fragments; black; PARTIALLY WEATHERED ROCK | | |
| 54 | SPT 15 | | 50/4 | 1/4 | | | | | | BORING TERMINATED AT 58.8 ft | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
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| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
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| 63 | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
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| 74 | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-621A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | Boring Location North of Northern Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | Elevation at Boring 421.5 feet | Ground Water Depth | Depth to Bedrock 58.5 feet |
| Casing Size and Depth (Boring) 3 / 58.5 feet | Elevation at Well 420.9 feet | No. of Core Boxes 3 | Date Started 5/26/06 |
| | Borehole Inclination 0 | Logged by B. Sharp | Date Completed 5/26/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|--|---|------|
| | | | | | | | | | | |
| 59 | 1 | $\frac{1.0}{2.5}$ | 0 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 1 ft of AMPHIBOLITE SCHIST recovered in core | NOTE: Samples and Lithology Information are from adjacent boring. | |
| 60 | | | | | | | | | | |
| 61 | 2 | $\frac{0.5}{5.0}$ | 0 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing thin zone of BIOTITE GNEISS recovered in core | | |
| 62 | | | | | | | | | | |
| 63 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 65 | 3 | $\frac{2.8}{5.0}$ | 1 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 2.8 ft of AMPHIBOLITE SCHIST recovered in core | | |
| 66 | | | | | | | | | | |
| 67 | | | | | | | | | | |
| 68 | | | | | | | | | | |
| 69 | 4 | $\frac{3.4}{5.0}$ | 46 | HW | R0 to R3 | | | GRANODIORITE and highly weathered to completely weathered PARTIALLY WEATHERED ROCK or SAPROLITE | | |
| 70 | | | | | | | | | | |
| 71 | | | | F | R4 | | | BIOTITE GNEISS; white and gray; fine to medium grained; foliation at 30° | | |
| 72 | | | | | | | | | | |
| 73 | 5 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | 30% loss of coring water return | |
| 74 | | | | | | | | | | |
| 75 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 77 | 6 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | End of day 4/13/06 Begin day 4/14/06 | |
| 78 | | | | | | | | | | |
| 79 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 81 | 7 | $\frac{4.8}{5.0}$ | 96 | F | R4 | | | | End drilling 4/14/06 Begin drilling 4/17/06 at 12:50 pm water at 63 ft | |
| 82 | | | | | | | | | | |
| 83 | | | | | | | | | | |
| 84 | | | | | | | | | | |
| 85 | 8 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | End drilling 4/17/06 Begin drilling 4/18/06 | |
| 86 | | | | | | | | | | |
| 87 | | | | | | | | | | |
| 88 | | | | | | | | | | |
| 89 | | $\frac{5.0}{5.0}$ | | | | | | | | |
| 90 | | | | | | | | | | |
| 91 | | | | | | | | | | |
| 92 | | | | | | | | | | |
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| 97 | | | | | | | | | | |
| 98 | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-621A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|--------------------------------|---|------|
| | | | | | | | | | | |
| 99 | 9 | 5.0 | 100 | F | R4 | | | BIOTITE GNEISS | Run #6 recovery taken as 5 ft because 0.5 ft of core left in hole | |
| 100 | | | | | | | | CORING TERMINATED AT 101.0 ft. | | |
| 101 | | | | | | | | | Boring terminated at 101.0 ft. on 4/18/06 | |
| 102 | | | | | | | | | | |
| 103 | | | | | | | | | | |
| 104 | | | | | | | | | | |
| 105 | | | | | | | | | | |
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| 124 | | | | | | | | | | |
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| 126 | | | | | | | | | | |
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| 134 | | | | | | | | | | |
| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | | | | | | | | | | |
| 138 | | | | | | | | | | |

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|--|---|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-621B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location North of Northern Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | Elevation at Boring 421.5 feet | Ground Water Depth | Depth to Bedrock 58.5 feet |
| Sampling Method (Boring) Split Spoon | Elevation at Well 421.2 feet | No. of Samples 15 | Date Started (Well) 5/25/06 |
| | Borehole Inclination 0 | Logged by B. Sharp | Date Completed (Well) 5/25/06 |

Reviewed by / Date M. Cooke 5/27/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|---|---|---------|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 344 | 15 | 18 | | | | CL-ML | CLAY silty, sandy (CL-ML); yellowish red (5 YR 4/6); damp; medium stiff; 50% clay, 30% silt, 20% sand; low to medium plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | | |
| 2 | SPT 2 | 666 | 16 | 18 | | | | ML | SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 677 | 15 | 18 | | | | | SILT sandy (ML); red (2.5 YR 4/6); stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 5 | | | | | | | | | SILT (ML); yellowish brown (10 YR 5/4); medium stiff; 90% silt, 10% sand; no plasticity; RESIDUUM | | | |
| 6 | SPT 4 | 333 | 14 | 18 | | | | | SILT sandy (ML); dark red (2.5 YR 3/6); stiff; 80% silt, 20% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 7 | | | | | | | | | | | | |
| 8 | SPT 5 | 578 | 15 | 18 | | | | | SILT sandy (ML); yellowish red (5 YR 4/6); medium stiff; 85% silt, 15% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 9 | | | | | | | | | | | | |
| 10 | SPT 6 | 234 | 16 | 18 | | | | | SILT sandy (ML); dark red (2.5 YR 3/6); medium stiff; 75% silt, 25% sand; no plasticity; micaceous; RESIDUUM | | | |
| 11 | | | | | | | | | | | | |
| 12 | SPT 7 | 244 | 16.5 | 18 | | | | | SILT sandy (ML); yellowish red (5 YR 5/8); stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 8 | 226 | 18 | 18 | | | | | SILT sandy (ML); yellowish red (5 YR 4/6); medium stiff; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 9 | 123 | 16 | 18 | | | | | SILT sandy (ML); yellowish brown (10 YR 5/8); stiff; 70% silt, 30% sand; low to medium plasticity; slightly micaceous; RESIDUUM | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 10 | 358 | 20 | 18 | | | | | SILT sandy, (ML); dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 25% sand, 5% clay; low to medium plasticity; trace of clay; slightly micaceous; RESIDUUM | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 11 | 5913 | 19 | 18 | | | | | SILT sandy, (ML); dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 25% sand, 5% clay; low to medium plasticity; trace of clay; slightly micaceous; RESIDUUM | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 12 | 10118 | 13 | 18 | | | | | SILT sandy, (ML) dark yellowish brown (10 YR 4/6); very stiff; 70% silt, 30% sand; low | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-621B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | plasticity; trace clay; slightly micaceous; RESIDUUM | | |
| 41 | | | | | | | | | | SILT sandy (ML); red (2.5 YR 5/8); damp; very stiff; 70% silt, 30% sand; no plasticity; RESIDUUM | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | SPT 13 | | 10 28 | 19 16 | 50/4 | | | | | (Continued from previous page) | | |
| 45 | | | | | | | | | | SILT sandy (ML); black (10 YR 2/1); hard; 70% silt, 30% sand; no plasticity; slightly micaceous; RESIDUUM | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | SPT 14 | | 24 36 | 16 18 | 19 | | | | | SILT sandy (ML); black (7.5 YR 2.5/1); hard; 70% silt, 30% sand; no plasticity; contains rock fragments; slightly micaceous; RESIDUUM | End of day 4/11/06 Begin day 4/12/06 at 8:00 am water at 24.0 ft | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | GP | GRAVEL (GP); Amphibolite schist fragments; black; PARTIALLY WEATHERED ROCK | | |
| 54 | SPT 15 | | 50/4 | 1/4 | | | | | | BORING TERMINATED AT 58.8 ft | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
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| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-621B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | Boring Location North of Northern Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig Nichols/McCall / IR T3W | Elevation at Boring 421.5 feet | Ground Water Depth | Depth to Bedrock 58.5 feet |
| Casing Size and Depth (Boring) 3 / 60.4 feet | Elevation at Well 421.2 feet | No. of Core Boxes 3 | Date Started 5/25/06 |
| | Borehole Inclination 0 | Logged by B. Sharp | Date Completed 5/25/06 |

Reviewed by / Date M. Cooke 5/27/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|-------------------|-------|------------|----------|-----------------|-----------|--|---|------|
| | | | | | | | | | | |
| 59 | 1 | $\frac{1.0}{2.5}$ | 0 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 1 ft of AMPHIBOLITE SCHIST recovered in core | NOTE: Samples and Lithology Information are from adjacent boring. | |
| 60 | | | | | | | | | | |
| 61 | 2 | $\frac{0.5}{5.0}$ | 0 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing thin zone of BIOTITE GNEISS recovered in core | | |
| 62 | | | | | | | | | | |
| 63 | | | | | | | | | | |
| 64 | 3 | $\frac{2.8}{5.0}$ | 1 | CW to MW | R0 to R3 | | | Completely weathered zone of PARTIALLY WAETHERED ROCK or SAPROLITE containing 2.8 ft of AMPHIBOLITE SCHIST recovered in core | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | 4 | $\frac{3.4}{5.0}$ | 46 | HW | R0 to R3 | | | GRANODIORITE and highly weathered to completely weathered PARTIALLY WEATHERED ROCK or SAPROLITE | | |
| 68 | | | | | | | | | | |
| 69 | | | | F | R4 | | | BIOTITE GNEISS; white and gray; fine to medium grained; foliation at 30° | | |
| 70 | | | | | | | | | | |
| 71 | 5 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | 30% loss of coring water return | | |
| 72 | | | | | | | | | | |
| 73 | | | | | | | | | | |
| 74 | 6 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | End of day 4/13/06 Begin day 4/14/06 | | |
| 75 | | | | | | | | | | |
| 76 | 7 | $\frac{4.8}{5.0}$ | 96 | F | R4 | | | End drilling 4/14/06 Begin drilling 4/17/06 at 12:50 pm water at 63 ft | | |
| 77 | | | | | | | | | | |
| 78 | | | | | | | | | | |
| 79 | 8 | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | End drilling 4/17/06 Begin drilling 4/18/06 | | |
| 80 | | | | | | | | | | |
| 81 | | $\frac{5.0}{5.0}$ | 100 | F | R4 | | | | | |
| 82 | | | | | | | | | | |
| 83 | | 5.0 | | | | | | | | |
| 84 | | | | | | | | | | |
| 85 | | | | | | | | | | |
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Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-621B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|-----------|--------------------------------|---|------|
| | | | | | | | | | | |
| 99 | 9 | 5.0 | 100 | F | R4 | | | BIOTITE GNEISS | Run #6 recovery taken as 5 ft because 0.5 ft of core left in hole | |
| 100 | | | | | | | | CORING TERMINATED AT 101.0 ft. | | |
| 101 | | | | | | | | | Boring terminated at 101.0 ft. on 4/18/06 | |
| 102 | | | | | | | | | | |
| 103 | | | | | | | | | | |
| 104 | | | | | | | | | | |
| 105 | | | | | | | | | | |
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| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-622 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location North of Northern Nuclear Island | Total Depth 70 feet |
| Drilling Contractor and Rig(for Well) Nichols/McCall / IR T3W | | Elevation at Boring 437.7 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 438.1 feet | No. of Samples 14 |
| | | Borehole Inclination 0 | Logged by M. Cooke |
| | | | Date Started (Well) 5/25/06 |
| | | | Date Completed (Well) 5/25/06 |

Reviewed by / Date M. Cooke 5/25/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | | 4 | 14 | | | | | ML | SILT sandy (ML); (2.5 YR 5/8); moist; very stiff; 70% silt, 30% sand; low plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | SPT 2 | | 6 | 16 | | | | | | SAA; stiff | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | | 5 | 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | SM | SAND silty (SM); (7.5 YR 6/8); damp to moist; medium dense; 60% sand, 40% silt; poorly graded RESIDUUM | | |
| 7 | SPT 4 | | 5 | 18 | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | | 2 | 18 | | | | | ML | SILT sandy (ML); (2.5 YR 5/8); damp to moist; medium stiff; 65% silt; 35% sand; low plasticity; RESIDUUM | | |
| 10 | | | | | | | | | | | | |
| 11 | SPT 6 | | 2 | 18 | | | | | SM | SAND silty (SM); (7.5 YR 6/8); damp to moist; medium dense; 60% sand, 40% silt; RESIDUUM | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | | 3 | 18 | | | | | | SAND silty (SM); (10 YR 5/6); damp to moist; medium dense; 55% sand, 45% silt; very micaceous; RESIDUUM | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | | 3 | 18 | | | | | | SAND silty (SM); (10 YR 6/4); damp to moist; loose; 75% sand; 25% silt; RESIDUUM | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | | 5 | 18 | | | | | | SAA; except medium dense; RESIDUUM | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | Medium stiff to hard | | |
| 29 | SPT 10 | | 3 | 18 | | | | | SM | SAND silty (SM); (10 YR 7/4 to 10 YR 5/4); moist; loose; 70% sand, 30% silt; micaceous; SAPROLITE | | |
| 30 | | | | | | | | | | Saprolite | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | ML | SILT sandy (ML); 7.5 YR 4/6; moist; medium stiff to hard; 60% silt, 40% sand; low plasticity; SAPROLITE | | |
| 34 | SPT 11 | | 4 | 18 | | | | | | | | |
| 35 | | | 50/5 | 17 | | | | | ML | SILT sandy (ML); PARTIALLY WEATHERED ROCK | | |
| 36 | | | | | | | | | | Hard ledges and lenses from 35 to 38.5 ft | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | | 13 | 18 | | | | | SM | | | |
| 40 | | | 32 | 18 | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-622

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|--|------|
| 40 | | | | | | | | | | | | |
| 41 | | | | | | | | | | <p>SAND silty (SM); 10 YR 3/1; moist; very dense; 80% sand, 20% silt; contains <1/2 diameter gravel size rock fragments that could not be broken down by SPT; SAPROLITE <i>(Continued from previous page)</i> SAND silty (SM); 10 YR 8/1; moist; 85% sand; 15% silt; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 45.0 ft.</p> | <p>Hard drilling from 42 to 45 ft</p> <p>Auger refusal at 45 ft. on 4/6/06 water at 44.4 ft 4/7/06 water level at 44 ft</p> | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 50/1.5 | 1.5 | | | | | | | | |
| 45 | | SPT 14 | 50/0 | 0 | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
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| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

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|---|--|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-623 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location Northeast of Nuclear Island | Total Depth 90 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 439.6 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) Standard | Elevation at Well 439.6 feet | No. of Samples 19 | Date Started (Well) 5/25/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/26/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | ML | SILT sandy (ML); dark reddish brown (5 YR 3/4); dry; medium stiff; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 1 | SPT 1 | | 5 | 8 | 18 | | | | | | | |
| 2 | SPT 2 | | 7 | 12 | 18 | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | | 5 | 15 | 18 | | | | | | | |
| 5 | | | 8 | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | SPT 4 | | 9 | 18 | 18 | | | | | | | |
| 8 | | | 13 | | | | | | | | | |
| 9 | SPT 5 | | 11 | 18 | 18 | | | | | | | |
| 10 | | | 17 | | | | | | | | | |
| 11 | | | 26 | | | | | | | | | |
| 12 | SPT 6 | | 11 | 18 | 18 | | | | | | | |
| 13 | | | 13 | | | | | | | | | |
| 14 | SPT 7 | | 11 | 18 | 18 | | | | | | | |
| 15 | | | 16 | | | | | | | | | |
| 16 | | | 18 | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | | 4 | 18 | 18 | | | | | | | |
| 20 | | | 7 | | | | | | | | | |
| 21 | | | 12 | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | | 4 | 18 | 18 | | | | | | | |
| 25 | | | 7 | | | | | | | | | |
| 26 | | | 9 | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | | 7 | 18 | 18 | | | | ML | SILT (ML); yellowish red (5 YR 4/6); very stiff; SAPROLITE contains sand lenses 28.5 to 28.7 ft and 29.5 to 30 ft; SAPROLITE | Saprolite | |
| 30 | | | 9 | | | | | | | | | |
| 31 | | | 7 | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | | 3 | 18 | 18 | | | | | | | |
| 35 | | | 6 | | | | | | | | | |
| 36 | | | 3 | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | | 5 | 18 | 18 | | | | | | | |
| 40 | | | 6 | | | | | | | | | |
| | | | 7 | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-623

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 40 | | | | | | | | | | SILT (ML); yellowish red (5 YR 4/6); very stiff; SAPROLITE contains sand lenses 28.5 to 28.7 ft and 29.5 to 30 ft; SAPROLITE (Continued from previous page) | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 7 7 | 17 18 | | | | | | | | |
| 45 | | | | | | | | | | SILT sandy (ML) with lense of SAND (SM); (10 YR 6/4) 44.5 to 45 ft | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 17 16 | 18 18 | | | | | | | | |
| 50 | | | | | | | | | | SILT (ML); yellowish brown (10 YR 5/8); dry; hard | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | |
| 54 | | SPT 15 | 7 9 | 18 18 | | | | | | | | |
| 55 | | | | | | | | | | SILT sandy (ML); brown (7.5 YR 5/8); dry; very stiff; vein of very pale olive; micaceous; black veins | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | SPT 16 | 7 11 | 18 18 | | | | | | SAA | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | | SPT 17 | 8 7 | 18 18 | | | | | | | | |
| 65 | | | | | | | | | SM | SILT sandy (ML); brown (7.5 YR 5/8); micaceous SAND silty (SM); white; micaceous | | |
| 66 | | | | | | | | | | | Difficult slow drilling progress | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | SPT 18 | 10 50 | 6 5.5 | 11.5 | | | | SM | SAND silty (SM); (1.4/N); rock chips encountered; PARTIALLY WEATHERED ROCK Auger refusal at 73.9 ft boring terminated | | |
| 70 | | | | | | | | | | | End drilling 4/6/06 no water Resume 4/7/06 at 8:30 am no water Difficult drilling scraping Water encountered at 71.6 ft | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | SPT 19 | 50 | 1 | 1 | | | | | | Auger refusal at 73.9 ft. on 4/7/06; waeter at 71.6 ft | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-623

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|-----------|---------|------|
| 80 | | | | | | | | | | | | |
| 81 | | | | | | | | | | | | |
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| 120 | | | | | | | | | | | | |

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|---|---|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-624 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | Boring Location East of Nuclear Island | Total Depth 70 feet | |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 359 feet | Ground Water Depth | Depth to Bedrock |
| Sampling Method (Boring) Standard | Elevation at Well 359.3 feet | No. of Samples 10 | Date Started (Well) 5/24/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/24/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|--|
| 0 | | | | | | | | | | | | | |
| 1 | SPT 1 | 1 | 5 | 12 | | | | | SM | SAND silty (SM); dark yellowish brown (10 YR 4/6); dry; loose; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | | |
| 2 | SPT 2 | 2 | 9 | 13 | | | | | SM | SAND (SM); black and brown (7.5 YR 4/6 and 5 YR 2.5/1); dry; medium dense; trace silt | | | |
| 3 | | | | | | | | | | | | | |
| 4 | SPT 3 | 3 | 21 | 18 | | | | | SM | SAND (SM); yellowish brown (10 YR 4/4); dry; medium dense; well graded with traces of gravel and trace fines | | | |
| 5 | | | | | | | | | | | | | |
| 6 | SPT 4 | 4 | 20 | 8 | | | | | SM | SAND (SM); very dark gray (2.5 Y 3/1); dry; fine sand; trace silt; some gravel; PARTIALLY WEATHERED ROCK | | | Difficult drilling Difficult drilling Partially weathered rock 5.5 to 8.0 ft |
| 7 | | | | | | | | | | | | | |
| 8 | SPT 5 | 5 | 30 | 13 | | | | | SM | SAND (SM); very dark gray (10 YR 3/1); dry; dense; fine sand; gravel | | | Saprolite 8.0 to 10.5 ft. |
| 9 | | | | | | | | | | | | | |
| 10 | SPT 6 | 6 | 50/5.5 | 5.5 | | | | | SM | SAND (SM); greenish black (10 GY) fine with gravel, coarse sand, rock pieces; PARTIALLY WEATHERED ROCK | | | Difficult drilling Partially weathered rock at 10.5 ft |
| 11 | | | | | | | | | | | | | |
| 12 | SPT 7 | 7 | 27 | 10 | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | SPT 8 | 8 | 50/2.4 | 2.4 | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | SPT 9 | 9 | 50/4 | 2 | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | SPT 10 | 10 | 50/6 | 5 | | | | | | | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
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| 40 | | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-624

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|-----------|---------|------|
| 40 | | | | | | | | | | | | |
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| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-625 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | | Boring Location East of Cooling Tower Area | Total Depth 108 feet |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | | Elevation at Boring 404.2 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 403.2 feet | No. of Samples 26 |
| | | Borehole Inclination 0 | Date Started (Well) 5/8/06 |
| | | | Date Completed (Well) 5/23/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 1 | 5 | 10 | 18 | | | | ML | SILT (ML); dusky red (2.5 YR 3/6); dry; medium stiff; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | SPT 2 | 2 | 6 | 2 | 18 | | | | | SAA; very stiff | | |
| 3 | | | 10 | | | | | | | | | |
| 4 | SPT 3 | 3 | 7 | 16 | 18 | | | | | SAA | | |
| 5 | | | 9 | | | | | | | | | |
| 6 | SPT 4 | 4 | 14 | 18 | 18 | | | | ML | SILT (ML); dusky red (2.5 YR 3/6); and strong brown (7.5 YR 5/8); dry; hard; mottled | | |
| 7 | | | 24 | | | | | | | | | |
| 8 | SPT 5 | 5 | 11 | 18 | 18 | | | | | SILT (ML); red (2.5 YR 4/8); dry; very stiff | | |
| 9 | | | 15 | | | | | | | | | |
| 10 | | | 19 | | | | | | | | | |
| 11 | SPT 6 | 6 | 9 | 18 | 18 | | | | | SAA; very stiff | | |
| 12 | | | 11 | | | | | | | | | |
| 13 | SPT 7 | 7 | 5 | 18 | 18 | | | | | SAA; very stiff | | |
| 14 | | | 8 | | | | | | | | | |
| 15 | | | 9 | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | SPT 8 | 8 | 4 | 18 | 18 | | | | | SILT (ML); orange at top of the interval white fine sand at base (10 YR 6/8); brownish yellow from 19.5 to 20 ft; white sand at 20 ft; stiff | Sand interval 19.5 to 20 ft | |
| 20 | | | 5 | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 9 | 3 | 18 | 18 | | | | | SILT (ML); brown (7.5 YR 5/8); dry; stiff; micaceous; trace fine sand | | |
| 25 | | | 4 | | | | | | | | | |
| 26 | | | 5 | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 10 | 4 | 18 | 18 | | | | | SILT (ML); brown (7.5 YR 5/8); medium stiff; micaceous; trace fine sand | | |
| 30 | | | 6 | | | | | | | | | |
| 31 | | | 7 | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | SPT 11 | 11 | 4 | 18 | 18 | | | | ML | SILT (ML); tan and brown; damp; stiff; mottled with black banding; ferns or manganese; SAPROLITE | Saprolite | |
| 35 | | | 6 | | | | | | | | | |
| 36 | | | 8 | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | SPT 12 | 12 | 3 | 18 | 18 | | | | | SAA | | |
| 40 | | | 4 | | | | | | | | | |
| | | | 6 | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-625

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 40 | | | | | | | | | | SILT (ML); tan and brown; damp; stiff; mottled with black banding; ferns or manganese; SAPROLITE (Continued from previous page) | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | SPT 13 | 4 7 8 | 18 18 | | | | | | SILT sandy (ML); pale yellow (2.5 Y 8/2); with black specks damp; medium stiff; with trace gravel; SAPROLITE | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | Harder drilling 47 ft | |
| 49 | | SPT 14 | 16 11 12 | 18 18 | | | | | SP-SM | SAND (SM-SP); white (2.5 Y 8/1); dry; medium dense; fine sand; gravelly | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | SM | SAND (SM); pale yellow (2.5 Y 8/3); dry; medium dense; micaceous; trace silt | | |
| 54 | | SPT 15 | 4 7 8 | 18 18 | | | | | | | | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | ML | SILT sandy (ML); olive (5 Y 5/4); dry; medium dense; micaceous; very stiff | | |
| 59 | | SPT 16 | 6 8 10 | 18 18 | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | |
| 64 | | SPT 17 | 5 7 10 | 18 18 | | | | | | SILT (ML); strong brown (7.5 YR 5/8); black vein; dry; stiff; micaceous; SAPROLITE | Sample not as sandy and no gravel 63.5, 68.5 and 73.5 ft | |
| 65 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | |
| 69 | | SPT 18 | 5 8 11 | 18 18 | | | | | | SAA: grading down to pale brown (10 YR 8/3); damp; very stiff | | |
| 70 | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | |
| 74 | | SPT 19 | 6 9 10 | 18 18 | | | | | | SILT (ML); strong brown (7.5 YR 5/8); black vein; very stiff; micaceous; trace fine sand; SAPROLITE | | |
| 75 | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | |
| 79 | | SPT 20 | 8 11 15 | 18 | | | | | | SILT sandy (ML); reddish yellow (7.5 YR 7/8); damp to dry; very stiff; micaceous; | | |
| 80 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-625

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 80 | | | | | | | | | | SAPROLITE | | |
| 81 | | | | | | | | | | SILT sandy (ML); olive (5 Y 5/4); dry; medium dense; micaceous; very stiff (Continued from previous page) | | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | SPT 21 | | 4 8 10 | 18 | | | | | ML | SILT (ML); reddish yellow (7.5 YR 6/8); damp; very stiff; micaceous; black veins; SAPROLITE | | |
| 85 | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | SM | SAND silty (SM); 7.5 YR 8/1.5); damp; medium dense; very fine; very micaceous; black vein | | |
| 89 | SPT 22 | | 8 10 16 | 18 | | | | | | | | |
| 90 | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | |
| 94 | SPT 23 | | 7 10 14 | 18 18 | | | | | | SAND silty (SM); white (7.5 YR 8/1); damp; medium dense; very fine; micaceous | | |
| 95 | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | |
| 97 | | | | | | | | | | | | |
| 98 | | | | | | | | | ML | SILT (ML); yellowish brown (10 YR 8/6); hard; micaceous; black veins; color change to very pale brown (10 YR 8/2) at 99.6 ft; SAPROLITE | | |
| 99 | SPT 24 | | 11 19 24 | 15 18 | | | | | | | End of day 4/4/06 water level at 88.4 Begin day 4/5/06; water at 86.8 ft | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | |
| 104 | SPT 25 | | 8 14 19 | 16 18 | | | | | ML | SILT sandy (ML); very pale brown (10 YR 8/6); and brown of various shades; medium dense; black vein; micaceous; SAPROLITE | | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | SPT 26 | | 47 50/1 | 7 7 | | | | | SM | SAND silty (SM); black and white with brown orange staining; damp to dry; dense; fine to medium sand; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 110.0 ft | Auger refusal at 110 ft on 4/5/06; water level at 98.4 ft | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

| | | | |
|---|--|---|---|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-626 | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Mud Rotary / 6 inch | | Boring Location Existing Access Road | Total Depth 85 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 417.2 feet | Ground Water Depth Depth to Bedrock |
| Sampling Method (Boring) Standard | | Elevation at Well 416.4 feet | No. of Samples 25 Date Started (Well) 4/28/06 |
| | | Borehole Inclination 0 | Logged by C. Bruce Date Completed (Well) 4/29/06 |

Reviewed by / Date M. Cooke 5/8/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 0 | | | | | | | | | | | | |
| 1 | | SPT 1 | 3 4 6 | 14 18 | | | | | CL-ML | CLAY silty (CL-ML); (10 R 4/8); moist; stiff to very stiff; 45% clay; 45% silt; 10% sand; low to medium plasticity; RESIDUUM | NOTE: Samples and Lithology Information are from adjacent boring. Residuuum | |
| 2 | | SPT 2 | 3 7 8 | 18 18 | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | SPT 3 | 4 7 10 | 16 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | SPT 4 | 3 6 9 | 18 18 | | | | | ML | SILT sandy (ML); (10 R 4/8 to 10 R 5/8); moist; stiff; 75% silt, 25% sand; low plasticity; RESIDUUM | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | SPT 5 | 3 4 7 | 18 18 | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | SPT 6 | 3 4 6 | 16 18 | | | | | ML | SILT sandy (ML); (5 YR 5/8 to 10 YR 6/6); damp to moist; stiff; 55% silt, 45% sand; slightly micaceous; SAPROLITE | Saprolite | |
| 13 | | | | | | | | | | | | |
| 14 | | SPT 7 | 3 4 5 | 18 18 | | | | | ML | SAA | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | SPT 8 | 3 4 6 | 18 18 | | | | | | SAA | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | SPT 9 | 3 4 6 | 18 18 | | | | | SM | SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | SPT 10 | 4 7 7 | 18 18 | | | | | | SAA; medium dense | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | SPT 11 | 3 5 7 | 18 18 | | | | | | SAA; medium dense | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | |
| 39 | | SPT 12 | 2 3 6 | 18 18 | | | | | | SAA; medium dense | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-626

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL | |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---------|------|--|
| 40 | | | | | | | | | | SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE <i>(Continued from previous page)</i> SAA; medium dense SAA; medium dense SAA; medium dense; wet SAA; medium dense SAA except 10 YR 6/4 SAA 10 YR 6/4 End day 4/4/06; water at 61 ft Begin day 4/5/06; water at 50.4 ft SAND silty (SM); (10 YR 6/8); moist to wet; medium dense; 65% sand; 35% silt; micaceous; SAPROLITE SAND silty (SM); (10 YR 4/1 to 10 YR 7/1); moist; very dense; 65% sand; 35% silt; slightly | | | |
| 41 | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | |
| 44 | SPT 13 | | 3 6 7 | 18 18 | | | | | | | | | |
| 45 | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | |
| 49 | SPT 14 | | 3 5 7 | 18 18 | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | |
| 54 | SPT 15 | | 4 6 9 | 18 18 | | | | | | | | | |
| 55 | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | |
| 59 | SPT 16 | | 4 7 10 | 18 18 | | | | | | | | | |
| 60 | | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | |
| 64 | SPT 17 | | 5 9 14 | 18 18 | | | | | | | | | |
| 65 | | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | |
| 69 | SPT 18 | | 5 10 14 | 18 18 | | | | | | | | | |
| 70 | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | |
| 74 | SPT 19 | | 2 11 18 | 18 18 | | | | | | | | | |
| 75 | | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 79 | SPT 20 | | 15 23 31 | 18 18 | | | | | | | | | |
| 80 | | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-626

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 80 | | | | | | | | | | micaceous; SAPROLITE | | |
| 81 | | | | | | | | | | SAND silty (SM); (10 YR 7/8 to 10 YR 5/8 to 10 YR 4/6); moist to wet; loose; 55% sand, 45% silt; slightly to very micaceous; SAPROLITE | | |
| 82 | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | |
| 84 | | SPT 21 | 6 18 24 | 18 18 | | | | | | (Continued from previous page) | | |
| 85 | | | | | | | | | | SAND silty (SM); (10 YR 6/6); moist; dense; 75% sand, 25% silt; slightly micaceous; SAPROLITE | | |
| 86 | | | | | | | | | | | | |
| 87 | | | | | | | | | | | | |
| 88 | | | | | | | | | SM | SAND silty (SM); (5 YR 5/8); moist; 80% sand, 20% silt; PARTIALLY WEATHERED ROCK | | |
| 89 | | SPT 22 | 26 50/4.5 | 10 10.5 | | | | | | | | |
| 90 | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | |
| 93 | | | | | | | | | SM | SAND silty (SM); (2.5 Y 8/1); moist; very dense; 80% sand; 20% silt; SAPROLITE | | |
| 94 | | SPT 23 | 11 28 38 | 9 18 | | | | | | | | |
| 95 | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | |
| 97 | | | | | | | | | | | | |
| 98 | | | | | | | | | ML | SILT (ML) sandy (5 Y 4/1); moist; 55% silt, 45% sand; non plasticity; very micaceous; PARTIALLY WEATHERED ROCK | | |
| 99 | | SPT 24 | 33 50/6 | 10 12 | | | | | | | | |
| 100 | | | | | | | | | | | | |
| 101 | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | |
| 103 | | | | | | | | | SM | SAND silty (SM); (10 YR 4/1); 75% sand, 25% silt; PARTIALLY WEATHERED ROCK | | |
| 104 | | SPT 25 | 50/1.5 | 1.5 1.5 | | | | | | BORING TERMINATED AT 103.6 ft. | Refusal ta 103.6 ft. on 4/5/06; water at 55.5 ft 4/6/06; water at 54.3 ft | |
| 105 | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | |
| 107 | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | |
| 109 | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | |
| 113 | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | |

| | | | |
|---|--|---|--|
| Project Name : Job Number | | WELL LOG SOIL - Well No. OW-627A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Air Rotary / 6 inch | | Boring Location South of Nuclear Island | Total Depth 100 feet |
| Drilling Contractor and Rig(for Well) Smith/Gregg / Fraste Multidrill XL | | Elevation at Boring 326.3 feet | Ground Water Depth Depth to Bedrock 57.5 feet |
| Sampling Method (Boring) Standard | | Elevation at Well 327.6 feet | No. of Samples 15 Date Started (Well) 6/6/06 |
| | | Borehole Inclination 0 | Logged by C. Bruce Date Completed (Well) 6/7/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|--|---|------|
| 0 | | | | | | | | | CL | CLAY sandy (CL); red (2.5 YR 4/6); moist; stiff; 70% clay; 30% sand; low to medium plasticity; contains small sized roots; FILL | NOTE: Samples and Lithology Information are from adjacent boring. | |
| 1 | SPT 1 | 478 | 12 | 18 | | | | | SC | SAND clayey (SC); pinkish gray (7.5 YR 7/2); moist; very loose; 60% sand; 40% clay; ALLUVIUM | Fill Top of alluvium | |
| 2 | SPT 2 | 111 | 12 | 18 | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 136 | 12 | 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | SPT 4 | 137 | 4 | 18 | | | | | | SAA; loose | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 141312 | 18 | 18 | | | | | | SAA; except medium dense; ALLUVIUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | End of day 4/11/06; water at 0 ft | |
| 12 | SPT 6 | 377 | 18 | 18 | | | | | | SAND clayey (SC); gray to brownish yellow (10 YR 5/1 to 10 YR 6/6); moist; medium dense; 70% sand, 30% clay; ALLUVIUM | Begin day 4/12/06; water at 0 ft | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 443 | 12 | 18 | | | | | | SAA; except light gray (10 YR 7/2); and loose; ALLUVIUM | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | SM | SAND silty (SM); dark yellowish brown (10 YR 3/6); moist; very dense; 70% sand; 30% silt; SAPROLITE | Bottom of alluvium, top of saprolite | |
| 19 | SPT 8 | 132838 | 14 | 18 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | ML | SILT sandy (ML); dark yellowish brown (10 YR 3/6); moist; very stiff; 60% silt, 40% sand; no to low plasticity; SAPROLITE | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 4810 | 12 | 18 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 5511 | 18 | 18 | | | | | | SAA; except micaceous; SAPROLITE | 100% water loss | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | SM | SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt; micaceous; SAPROLITE | | |
| 34 | SPT 11 | 2050/4 | 10 | 10 | | | | | | | | |
| 35 | | | | | | | | | | | Continued to loose 100% circulation from 35 to 38.5 ft | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | ML | SILT sandy (ML); strong brown (7.5 YR 4/6); moist; hard; 55% silt, 45% sand; low plasticity; SAPROLITE | | |
| 39 | SPT 12 | 121738 | 18 | 18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-627A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|---|------|
| 40 | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | SM | SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 60% sand, 40% silt; slightly micaceous; SAPROLITE | | |
| 44 | | SPT 13 | 33 27 50/5 | 13 17 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | Top of Partially weathered rock; very hard drilling from 46 to 47 ft | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 50/4 | 4 4 | | | | | | SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt; slightly micaceous; PARTIALLY WEATHERED ROCK | End day 4/12/06 water at 0 ft. Begin day 4/13/06 water at 12 ft | |
| 50 | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | End of day on 4/13/06; water at 5 ft Begin day on 4/17/06 water at 27.5 ft | |
| 54 | | SPT 15 | 50/4 | 4 4 | | | | | | SAND silty (SM); yellowish brown (10 YR 5/4); moist; very dense; 75% sand, 25% silt; micaceous; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 57.5 ft | End day 4/17/06 water at 27 ft Begin day 4/18/06 water at 27 ft | |
| 55 | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | |
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| 80 | | | | | | | | | | | | |

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|---|--|---|-------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG ROCK - WELL No. OW-627A | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring Air Rotary / 6 inch | Boring Location South of Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig Smith/Gregg / Fraste Multidrill XL | Elevation at Boring 326.3 feet | Ground Water Depth | Depth to Bedrock 57.5 feet |
| Casing Size and Depth (Boring) 4 / 57.5 feet | Elevation at Well 327.6 feet | No. of Core Boxes 3 | Date Started 6/6/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed 6/7/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------|-----------------|--|---|------|
| 58 | 1 | 1.0 1.0 | 0 | RS to | R0 to | | GRANODIORITE; white to black (10 YR 8/1 to 2/1); coarse grained; quartz, feldspar, hornblende, biotite GRANODIORITE | Tricone refusal at 57.5 ft on 4/18/06 see rock log NOTE: Samples and Lithology Information are from adjacent boring. Top of sound rock End day 4/18/06 water at 0 ft Begin day 4/19/06 water at 12 ft | |
| 59 | 2 | 2.7 2.7 | 100 | CW SW | R2 R3 | | | | |
| 60 | | | | | | | GRANODIORITE | | |
| 61 | | | | | | | | | |
| 62 | | | | | | | | | |
| 63 | 3 | 5.0 5.0 | 100 | F | R3 to R4 | | | | |
| 64 | | | | | | | | | |
| 65 | | | | | | | | | |
| 66 | | | | | | | | | |
| 67 | | | | | | | SAA; except fine grained from 70.3 to 71.9 ft. | | |
| 68 | 4 | 5.0 5.0 | 100 | F | R3 to R4 | | | | |
| 69 | | | | | | | | | |
| 70 | | | | | | | | | |
| 71 | | | | | | | | | |
| 72 | | | | | | | GRANODIORITE | | |
| 73 | | | | | | | | | |
| 74 | 5 | 5.0 5.0 | 100 | F | R3 to R4 | | | | |
| 75 | | | | | | | | | |
| 76 | | | | | | | | | |
| 77 | 6 | 2.1 2.1 | 100 | F | R3 to R4 | | | | |
| 78 | | | | | | | | | |
| 79 | 7 | 1.6 1.6 | 100 | F | R3 to R4 | | | | |
| 80 | | | | | | | | | |
| 81 | 8 | 1.3 1.3 | 100 | F | R3 to R4 | | | | |
| 82 | | | | | | | | | |
| 83 | | | | | | | | | |
| 84 | 9 | 5.0 5.0 | 100 | F | R3 to R4 | | | | |
| 85 | | | | | | | QUARTZ MONZONITE; light gray (10 YR 7/1); fine grained; quartz, feldspar, hornblende, biotite | | |
| 86 | | | | | | | | | |
| 87 | | | | | | | GRANODIORITE; light gray (10 R 7/1); fine grained; quartz, feldspar, biotite | | |
| 88 | | | | | | | QUARTZ MONZONITE; light gray (10 YR 7/1); fine grained; quartz, feldspar, hornblende, biotite | | |
| 89 | 10 | 5.0 5.0 | 87 | F | R2 to R3 | | | | |
| 90 | | | | | | | | | |
| 91 | | | | | | | GRANODIORITE; white to black (10 YR 8/1 to 2/1); coarse grained; quartz; feldspar; hornblende; biotite CORING TERMINATED AT 101.5 ft. | | |
| 92 | | | | | | | | | |
| 93 | | | | | | | | | |
| 94 | 11 | 5.0 5.0 | 95 | F | R3 to R4 | | | | |
| 95 | | | | | | | | | |
| 96 | | | | | | | | | |
| 97 | 12 | 2.0 | 100 | F | R3 to | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG ROCK - WELL No. OW-627A

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Run No. | Recovery / Cut | % RQD | Weathering | Strength | In-Situ Testing | Lithology | Lithology | Remarks | WELL |
|--------------|---------|----------------|-------|------------|----------------|-----------------|-----------|-----------|--|------|
| 98 | | 2.0 | | | R4 | | | | | |
| 99 | 13 | 3.0 3.0 | 100 | F | R3 to R4 | | | | End day 4/24/06 water at 0 ft Begin day 4/25/06 water at 31.4 ft 6 inches cored left in hole counted in run #13 recovery Boring terminated at 101.5 ft water at 0 ft on 4/25/06 | |
| 100 | | | | | | | | | | |
| 101 | | | | | | | | | | |
| 102 | | | | | | | | | | |
| 103 | | | | | | | | | | |
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| 120 | | | | | | | | | | |
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| 135 | | | | | | | | | | |
| 136 | | | | | | | | | | |
| 137 | | | | | | | | | | |

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|--|--|---|----------------------------------|
| Project Name : Job Number MACTEC | | WELL LOG SOIL - Well No. OW-627B | |
| SCE&G COL : 6234-06-3534 | | Lithologic and Sampling Information from adjacent companion boring. | |
| Type and Diameter of Boring(for Well) Hollow Stem Auger / 6.25 inch | Boring Location South of Nuclear Island | Total Depth 100 feet | |
| Drilling Contractor and Rig(for Well) Poole/Gregg / Rhino | Elevation at Boring 326.3 feet | Ground Water Depth | Depth to Bedrock 57.5 feet |
| Sampling Method (Boring) Split Spoon | Elevation at Well 326.9 feet | No. of Samples 15 | Date Started (Well) 5/22/06 |
| | Borehole Inclination 0 | Logged by C. Bruce | Date Completed (Well) 5/22/06 |

Reviewed by / Date M. Cooke 6/14/06
 Reviewed by / Date CES 1/26/07

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|--|--|--|------|
| 0 | | | | | | | | | | | | |
| 1 | SPT 1 | 478 | 12 | 18 | | | | CL | CLAY sandy (CL); red (2.5 YR 4/6); moist; stiff; 70% clay; 30% sand; low to medium plasticity; contains small sized roots; FILL | NOTE: Samples and Lithology Information are from adjacent boring. | | |
| 2 | SPT 2 | 111 | 12 | 18 | | | | SC | SAND clayey (SC); pinkish gray (7.5 YR 7/2); moist; very loose; 60% sand; 40% clay; ALLUVIUM | Fill Top of alluvium | | |
| 3 | | | | | | | | | | | | |
| 4 | SPT 3 | 136 | 12 | 18 | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | SPT 4 | 137 | 4 | 18 | | | | | | SAA; loose | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | SPT 5 | 141312 | 18 | 18 | | | | | | SAA; except medium dense; ALLUVIUM | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | End of day 4/11/06; water at 0 ft | |
| 12 | SPT 6 | 377 | 18 | 18 | | | | | | SAND clayey (SC); gray to brownish yellow (10 YR 5/1 to 10 YR 6/6); moist; medium dense; 70% sand, 30% clay; ALLUVIUM | Begin day 4/12/06; water at 0 ft | |
| 13 | | | | | | | | | | | | |
| 14 | SPT 7 | 443 | 12 | 18 | | | | | | SAA; except light gray (10 YR 7/2); and loose; ALLUVIUM | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | SM | SAND silty (SM); dark yellowish brown (10 YR 3/6); moist; very dense; 70% sand; 30% silt; SAPROLITE | Bottom of alluvium, top of saprolite | |
| 19 | SPT 8 | 132838 | 14 | 18 | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | ML | SILT sandy (ML); dark yellowish brown (10 YR 3/6); moist; very stiff; 60% silt, 40% sand; no to low plasticity; SAPROLITE | | |
| 23 | | | | | | | | | | | | |
| 24 | SPT 9 | 4810 | 12 | 18 | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | SPT 10 | 5511 | 18 | 18 | | | | | | SAA; except micaceous; SAPROLITE | 100% water loss | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | SM | SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt; micaceous; SAPROLITE | | |
| 34 | SPT 11 | 2050/4 | 10 | 10 | | | | | | | | |
| 35 | | | | | | | | | | | Continued to loose 100% circulation from 35 to 38.5 ft | |
| 36 | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | |
| 38 | | | | | | | | | ML | SILT sandy (ML); strong brown (7.5 YR 4/6); moist; hard; 55% silt, 45% sand; low plasticity; SAPROLITE | | |
| 39 | SPT 12 | 121738 | 18 | 18 | | | | | | | | |
| 40 | | | | | | | | | | | | |

Project Name : Job Number



SCE&G COL : 6234-06-3534

WELL LOG SOIL - Well No. OW-627B

Lithologic and Sampling Information from adjacent companion boring.

| Depth (feet) | Sample | Sample Type & No. | Uncorrected Blows/6 inches | Recovery (inches) | Water Content (%) | % Fines | Atterberg Limits (LL/PI) | Lithology | Soil Type (USCS) | Lithology | Remarks | WELL |
|--------------|--------|-------------------|----------------------------|-------------------|-------------------|---------|--------------------------|-----------|------------------|---|--|------|
| 40 | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | SM | <p>SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 60% sand, 40% silt; slightly micaceous; SAPROLITE</p> | | |
| 44 | | SPT 13 | 33 27 50/5 | 13 17 | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | | | | | | | | | | | Top of Partially weathered rock; very hard drilling from 46 to 47 ft | |
| 47 | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | |
| 49 | | SPT 14 | 50/4 | 4 4 | | | | | | <p>SAND silty (SM); yellowish brown (10 YR 5/6); moist; very dense; 65% sand, 35% silt; slightly micaceous; PARTIALLY WEATHERED ROCK</p> | End day 4/12/06 water at 0 ft. | |
| 50 | | | | | | | | | | | Begin day 4/13/06 water at 12 ft | |
| 51 | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | End of day on 4/13/06; water at 5 ft | |
| 54 | | SPT 15 | 50/4 | 4 4 | | | | | | <p>SAND silty (SM); yellowish brown (10 YR 5/4); moist; very dense; 75% sand, 25% silt; micaceous; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 57.5 ft</p> | Begin day on 4/17/06 water at 27.5 ft | |
| 55 | | | | | | | | | | | End day 4/17/06 water at 27 ft | |
| 56 | | | | | | | | | | | Begin day 4/18/06 water at 27 ft | |
| 57 | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | |
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Final Report

Appendix C-2

Well Development Records

Work Instruction Well Development

SCE&G COL Project
MACTEC Engineering and Consulting, Inc.

Issued To: Chris Bruce/Kyle Miller/ Bill Sharp / Jeremy Haman / Mandel Harvey / Chris Gandy
Location: SCE&G COL Project Field Office Date: May 14, 2006
Issued By: Matthew F. Cooke, Site Coordinator MACTEC Project No.: 6234-06-3534
Valid Thru: 5/14/06 To 5/14/07 Rev. No. 0

Task Description: Performance and logging of observation well development of **31 Observation Wells** as listing in the Specification. Provide assistance in other drilling-related or geologic tasks as assigned.

Applicable Technical Procedures or Plans, or other reference: SCE&G COL Geotechnical Work Plan, Specification Section 5.3.6.

Specific Instructions (note attachments where necessary): See attached instructions for **Well Development Procedure** prepared by Bechtel Hydrogeologist.

Special Instructions: If unexpected conditions are encountered refer to page 2-6 of the Work Plan.

Report Format: Completed Forms As Follows: Daily Field Report, Well Development Record.

Specific Quality Assurance Procedures Applicable: None

Hold Points or Witness Points: Direction to develop well received from Site Coordinator.
Instructions or specifications received from Bechtel Representative.

Records: All records generated shall be considered QA Records.

Reviewed and Approved By: (Note: Only one signature is required to issue)

Project Manager (MACTEC): _____ Date: _____

Project Principal (MACTEC): _____ Date: _____

Site Coordinator [Signature] Date: 5/14/06

No. of Pages: 2

DCN: SC83

**OBSERVATION WELL DEVELOPMENT PROCEDURE
SCE&G V C SUMMER SITE**

1. Measure water levels and determine the standing well volume using the installation record for each well. The standing well volume is calculated based on the size of the well and the depth of water within the well pipe (using the formula 0.167 gallons per foot for 2" diameter well).
2. Bail the well until it is moderately clean with minimal sediment.
3. Using a submersible pump (without a check valve), remove ~~2-4~~ at least 3 standing well volumes. Pump the wells resulting in appreciable drawdown. Periodically vary the pumping rate and the depth of the pump intake. Randomly turn the pump off and on, using the head of the water in the pump discharge column to flush back into the well, surging the well screen and filterpack.
4. A well is considered developed when the pumped water is reasonably free of suspended sediment and relatively clear to sight.
5. In the event, the formation is of such low permeability that the well recharge is very slow; it may not be possible to remove the planned number of well volumes. If the well becomes dry, pumping will cease and recovery of the water level will be monitored to judge the feasibility of continued pumping. In this case, well development will be considered complete after three pump-downs and recoveries are done. If recovery is extremely slow, such that the water level does not recover within 8 hours, contact the Project Principal for further direction.
6. Water removed during development process should be directed away from the well location by either discharging the pump output at least 30 feet away from the well or by storing it in containers for disposal in wooded or grass areas removed from the well. In either case, care should be taken to ensure that the discharged water does not create an erosion problem. Water disposal should be coordinated with MACTEC's site supervisor.

Well Development Record

Well No.:

OW-205A

Project No.: 6234-06-3534

Logged By: C. GAWDY

Client Name: BECHTEL

Project Name: SCB/G COL PROJECT

Checked By: MFC

Well Installation Date: 5/30/06

Start Date: 6/5/06

Finish Date: 6/8/06

Well Development Date: 6/5/06

Start Time: 1125

Finish Time: 1048

Initial Water Level (ft.): SEE LOG (66.4' 6/5/06)

Water Level during Initial Pumping/Purging (ft.): 66.4'

Water Level at Termination of Pumping/Purging (ft.): Dry

Weather: Good

Height of Water Column: 44 0.16 gal./ft. (2 in.)
44 (ft.) x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = 7 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|---|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 7:30 | N/A | N/A | N/A | N/A | SLIGHTLY CLEAR |
| 2 | - | N/A | N/A | N/A | N/A | TURBID |
| 2.8 | - | N/A | N/A | N/A | N/A | TURBID |
| DRY - WELL STILL TURBID, WILL LET RECHARGE AND CHECK TOMORROW | | | | | | |
| 4 | | | | | | |
| 5 | 1900 | N/A | N/A | N/A | N/A | Cloudy |
| 7 | 1048 | | | | | Slight to Cloudy |
| | | | | | | |
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6/7/06
 6/7/06
 DRY →
 DRY →

Notes: Resume 5:00 pm 06-07-06
 6/7/06 - Developed with pump. Surged pump up and down and turned pump on and off to generate surge into filter pack

Well Developers Signature: 

FIGURE 9

DCN 5083

Well Development Record

Well No.:

OW 205B

Project No.: 6234-06-3534

Logged By: KYLE MILLER

Client Name: BECHTEL

Project Name: VC SUMMER

Checked By: mfc 6/5/06

Well Installation Date: 5/15/06

Start Date: 5/16/06

Finish Date: 5/22/06 5/18/06

Well Development Date: 5/16/06

Start Time: 3:10 PM

Finish Time: 1:30 11:21

Initial Water Level (ft.): ~~N/A~~ 59.5' (61' (59.5 TD))

(TOC)

Water Level during Initial Pumping/Purging (ft.): 59.5'

(TOC)

Water Level at Termination of Pumping/Purging (ft.): (DRY) 61'

(TOC)

Weather: P. CLOUDY 280's °F

Height of Water Column: $\frac{\checkmark}{1.5}$ (ft.)

$\frac{\checkmark}{0.16}$ gal./ft. (2 in.)

$\times \frac{\checkmark}{0.65}$ gal./ft. (4 in.)

$\frac{\checkmark}{1.5}$ gal./ft. (6 in.)

$\frac{\checkmark}{0.16}$ gal./ft. (2 in.) = 0.24 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|----------|--------------|-----|---------------|---------------------------------------|---------------------------|
| 5 | | N/A | N/A | N/A | N/A | VERY DRY |
| 7 | 9:55 AM | | | | N/A | MODERATE DRY |
| 12 | 11:21 am | | | | N/A | slight-mod DRY |
| 14 | 1638 | | | | N/A | slight to mod DRY |
| 15 | 1050 | N/A | NA | NA | NA | moderate to DRY to cloudy |
| | | | | | | |
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Notes: WELL DEVELOPED WITH DAILEY

DCN 5083

Well Developers Signature: K.M. Miller

FIGURE 9

Well Development Record

Well No.: GW-212

Project No.: 6234-06-3534 Logged By: Bill Sharp
 Client Name: Bechtel Project Name: SCE+0 COL Checked By: _____
 Well Installation Date: 5/25/06 Start Date: 5-28-06 Finish Date: _____
 Well Development Date: 5-28-06 Start Time: 1235 Finish Time: _____
 Initial Water Level (ft.): 49.05' b to c (3' stick up)
 Water Level during Initial Pumping/Purging (ft.): 49.05' b to c c/s/06
 Water Level at Termination of Pumping/Purging (ft.): 3:45, 6/9/06, 48.82' BTC
 Weather: _____

Height of Water Column: 19.25' 0.16 gal./ft. (2 in.)
 19.25 (ft.) x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
0.16 gal./ft. (_____ in.) = 3.08 Well Volume (gal.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-----------------------|---|-----------|---------------|---------------------------------------|--------------------------------------|
| <u>1</u> | <u>1250</u> | | | | <u>bail</u> | <u>Brown / turbid</u> |
| <u>4</u> | <u>(3:45 to 4:15)</u> | <u>Removed logs Did not go dry.</u> | | | <u>Bail</u> | <u>Brown</u> |
| <u>6</u> | <u>1141</u> | | | | | <u>Bail</u> |
| <u>8</u> | <u>1500</u> | | | | <u>Bail</u> | <u>Cloud-Clear</u> |
| <u>10</u> | <u>1020</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>Bail</u> | <u>1st 1/2 gallon to moderators.</u> |
| | | | | | | <u>Same as 6/10</u> |

Notes: t.d 68.30' b to c (3' stick up); bailed 1st well volume using bailer on 5-28-06

5/10/06 GW @ 49.1 BTOC
5/11/06 GW @ 49.2 BTOC

Well Developers Signature: Bill Sharp

FIGURE 9

Well Development Record

Well No.:

OW-213

| | |
|--|---------------------------------|
| Project No.: 6234-06-3534 | Logged By: C. GANDY |
| Client Name: BECHTEL | Project Name: SCE&G COL PROJECT |
| Well Installation Date: 5/30/06 | Start Date: 6/5/06 |
| Well Development Date: 6/5/06 | Start Time: 1525 |
| Initial Water Level (ft.): 42.95' | Finish Date: 6/5/06 |
| Water Level during Initial Pumping/Purging (ft.): 42.95' | Finish Time: 1618 |
| Weather: | |

Height of Water Column: 12 0.16 gal./ft. (2 in.)
12 (ft.) x 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
 gal./ft. (in.) = 1.92 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1525 | N/A | N/A | N/A | BAZLED | VERY |
| 2 | 1540 | N/A | N/A | N/A | 3 m2w | VERY TO MODERATE |
| 3 | 1545 | N/A | N/A | N/A | " " | " " |
| 4 | 1549 | N/A | N/A | N/A | " " | " " |
| 5 | 1552 | N/A | N/A | N/A | " " | SLIGHTLY CLEAR |
| 6 | 1555 | N/A | N/A | N/A | " " | " " |
| 7 | 1558 | N/A | N/A | N/A | " " | CLEAR |
| 8 | 1601 | N/A | N/A | N/A | " " | CLEAR |
| 9 | 1604 | N/A | N/A | N/A | " " | " " |
| 10 | 1607 | ↓ | ↓ | ↓ | " " | " " |
| 11 | 1600 | ↓ | ↓ | ↓ | " " | " " |
| 12 | 1613 | ↓ | ↓ | ↓ | 4 m2w | " " |
| 13 | 1616 | N/A | N/A | N/A | " " | " " |
| 13.5 | 1618 | N/A | N/A | N/A | 4 m2w | " " |

Notes:

WELL WILL NOT GO DRY

Well Developers Signature: _____

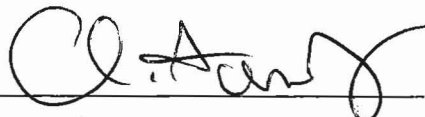


FIGURE 9

Well Development Record

Well No.:

OW-227

Project No.: 6234-0.6-3534 Logged By: Bill Sharp
 Client Name: Bechtel Project Name: SLE+G COZ Checked By: mtc 6/5/06
 Well Installation Date: 5-25-06 Start Date: 5-27-06 Finish Date: 5/27/06
 Well Development Date: 5-27-06 Start Time: 1205 Finish Time: 1555
 Initial Water Level (ft.): 63.68' btoe (2.5' stickup)
 Water Level during Initial Pumping/Purging (ft.): 63.68' btoe
 Water Level at Termination of Pumping/Purging (ft.):
 Weather: Sunny 90s

Height of Water Column: 22.65 (ft.)
 \times 0.16 gal./ft. (2 in.)
 \times 0.65 gal./ft. (4 in.)
 \times 1.5 gal./ft. (6 in.)
0.16 gal./ft. (in.) = 3.6 Well Volume (gal.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------------------------|--------------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1220 | | | | bail | cloudy |
| 2 | 1256 | | | | 0.67 | turbid |
| 3 | 1302 | | | | 0.67 | turbid |
| 4 | 1308 | | | | 0.67 | moderate |
| 5 | 1314 | | | | 0.67 | moderate |
| 6 | 1320 | | | | 0.67 | moderate |
| 7 | 1440 | ← Let well recover | | | 0.85 | cloudy |
| 8 | 1445 | | | | 0.85 | clear |
| 9 | 1450 | | | | 0.85 | cloudy |
| 10 | 1455 | | | | 0.85 | cloudy |
| Let | well recover until 1550 | | | | w.l. 66.78' btoe | |
| 11 | 1555 | | | | 0.85 | clear |

Notes: used bailer to purge 1st well volume; Pumped well dry after purging 6.5 well volumes; Let well recover for 1.2 hours then tagged w.l. at 65.54' btoe; pumped and surged well again until well went dry again (after pumping another 3.5 well volumes - total of 10 well volumes)

Well Developers Signature: Bill Sharp

FIGURE 9

* used pump as surge block, raising and lowering pump several times after each 5-gallons of pumping
 PCIV 5083

Well Development Record

Well No.:

OW-233

Project No.: 5096 COL PROJECT Logged By: C. Gandy/M. Cooke

Client Name: BECHTEL Project Name: 6234-06-3534 Checked By: mfC

Well Installation Date: 5/25/06 Start Date: 6/5/06 Finish Date: 6/7/06

Well Development Date: 6/5/06 Start Time: 2:1445 Finish Time: 1620

Initial Water Level (ft.): 111' (6/5/06) 114.9 (6/7/06 1615) 112.1 5/11/06 1445

Water Level during Initial Pumping/Purging (ft.): 111' (6/5/06)

Water Level at Termination of Pumping/Purging (ft.):

Weather: Good

Height of Water Column: 9 0.16 gal./ft. (2 in.)
9 (ft.) x 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
 gal./ft. (in.) = 1.44 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|----------------------------------|-------------|--------------|------------|---------------|---------------------------------------|-----------------------|
| <u>1</u> | <u>1445</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>SLIGHTLY CLEAR</u> |
| <u>2</u> | <u>1505</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>" "</u> |
| <u>DRY</u> <u>6/7/06 1620</u> | <u>1620</u> | <u>N/A</u> | <u>N/A</u> | <u>N/A</u> | <u>(BAZLED)</u> <u>N/A</u> | <u>SLIGHTLY CLEAR</u> |
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Notes: 5/11/06: MACTEC + Bechtel concur that water level should be obtained on 6/12/06 without further development due to low recharge rate.

Well Developers Signature: [Signature]

FIGURE 9

DCN 5083

Well Development Record

Well No.:

OW-305A

Project No.: 6234-06-3534 Logged By: C-GANNY/M. COOKER

Client Name: BECHTEL Project Name: SUEB COL PROJECT Checked By: MFC

Well Installation Date: 5-29/06 Start Date: 6/6/06 Finish Date: 6/6/06

Well Development Date: 6/6/06 Start Time: 1030 Finish Time: 1600

Initial Water Level (ft.): 60.5 BTOC

Water Level during Initial Pumping/Purging (ft.): 60.5 BTOC (58.5)

Water Level at Termination of Pumping/Purging (ft.):

Weather: SUNNY, NICE

Height of Water Column: $\frac{82.5}{58.5}$ (ft.)

\times 0.16 gal./ft. (2 in.)

_____ \times 0.65 gal./ft. (4 in.)

_____ \times 1.5 gal./ft. (6 in.)

_____ gal./ft. (_____ in.) = 13.2 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1030 | N/A | N/A | N/A | ~:45 | CLEAR |
| 2 | 1145 | | | | ~ 3:00 | CLEAR |
| 3 | 1345 | | | | ~ 2:30 | CLEAR |
| 4 | 1425 | | | | ~ 3:00 | CLEAR |
| 5 | 1530 | | | | BAZL | CLEAR |
| 6 | 1600 | NA | NA | NA | Boil | CLEAR |
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Notes: Pumped 4 Well Volumes
Boiled 2 Well Volumes

Well Developers Signature: 

FIGURE 9

Dave

Well Development Record

Well No.: OW-305 B

Project No.: 6234-06-3534 Logged By: Bill Sharp

Client Name: Bechtel Project Name: SCE+G CO2 Checked By: MF

Well Installation Date: 5-26-07 Start Date: 5-27-06 Finish Date: 6/6/06

Well Development Date: 5-27-06 Start Time: 1400 Finish Time: 1020

Initial Water Level (ft.): 58.87' btoc (2.5' stick up)

Water Level during Initial Pumping/Purging (ft.): 58.87' btoc

Water Level at Termination of Pumping/Purging (ft.):

Weather: Sunny, 90s

Height of Water Column: 9.13 0.16 gal./ft. (2 in.)
9.13 (ft.) x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = 1.46 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | | | | | bail | gray/turbid |
| 2 | | | | | bail | gray/turbid |
| 3 | | | | | bail | gray/turbid |
| 4 | | | | | bail | cloudy |
| 5 | | | | | bail | cloudy/milky |
| 6 | | | | | bail | milky |
| 7 | 0930 | N/A | N/A | N/A | :45 | MODERATE |
| 8 | 0933 | N/A | | | | " " |
| 9 | 0937 | | | | | MOD. - SLIGHT |
| 10 | 0941 | | | | | MOD. - SLIGHT |
| 11 | 0945 | | | | | " " |
| 12 | 1015 | | | | | SLIGHT - CLEAR |
| 13 | 1018 | | | | | " " |
| 14 | 1021 | | | | 1:30 | " " |

Logged By: CEG
CL1606

DRY →

DRY →

Notes: t.d. 68.0' btoc (2.5' stick up)
bailed dry?? after 3 well volumes; let well recover for 0.8 hrs.; tagged w.l. @ 58.90' btoc.
Immediately after purging 6th well volume tagged w.l. at 59.50 btoc on 5-27-06

Well Developers Signature: Bill Sharp / [Signature]

FIGURE 9

Well Development Record

Well No.:
OW 312

| | | | |
|--|--|-------------------------|--|
| Project No.: 0234-06-3534 | | Logged By: KYLE MILLER | |
| Client Name: BECHTEL | | Project Name: VC SUMMER | |
| Well Installation Date: 5/12/06 | | Start Date: 5/16/06 | |
| Well Development Date: 5/16/06 | | Finish Date: 5/16/06 | |
| Initial Water Level (ft.): 40 N/A | | Start Time: 3:00 PM | |
| Water Level during Initial Pumping/Purging (ft.): | | Finish Time: | |
| Water Level at Termination of Pumping/Purging (ft.): | | (TD 40) (TOL) | |
| Weather: P. CLOUDY ~80°F | | | |

Height of Water Column: _____ 0.16 gal./ft. (2 in.)
 _____ (ft.) x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = _____ Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-------|---------------|---------------------------------------|--------------------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
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| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |

Notes: WELL IS DRY - 3:00 PM (5/16/06)
 Dry 5/10/06 MFC 5/10/06

DCIV 5083

Well Developers Signature: Kyle Miller

FIGURE 9

Well Development Record

Well No.:

Project No.: 6234-06-353A

Logged By: KYLE MILLER/CHRIS GANDY

OW-313

Client Name: Bechtel

Project Name: V.C. Summers

Checked By: mfc 6/5/06

Well Installation Date: 5/13/06

Start Date: 5/22/06

Finish Date: 5/23/06

Well Development Date: 5/22/06

Start Time: 0900

Finish Time: 10:30 AM

Initial Water Level (ft.): 50' (TCC)

Water Level during Initial Pumping/Purging (ft.): 50' (TCC)

Water Level at Termination of Pumping/Purging (ft.): 49.8'

Weather: CLOUDY 80's °F

Height of Water Column: 11.0(ft.) 0.16 gal./ft. (2 in.)
~~x~~ ~~0.65 gal./ft. (4 in.)~~
~~1.5 gal./ft. (6 in.)~~
0.16 gal./ft. (2 in.) = 1.76 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|------------|--------------|-----|---------------|---------------------------------------|--------------------|
| BAILER 2 | ~ 9:00 AM | N/A | N/A | N/A | N/A | VERY |
| PUMP 13 | ~ 9:50 AM | ↓ | ↓ | ↓ | 0.63 gpm | MODERATE |
| PUMP 20 | ~ 10:30 AM | ↓ | ↓ | ↓ | 0.16 gpm | SLIGHT-CLEAR |
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Notes: well developed with bailer, then pump was used to attempt to purge dry. well did not purge dry.

DCN 5083

Well Developers Signature: Kyle Miller

FIGURE 9

Well Development Record

Well No.:

OW-327

| | | |
|--|---------------------------------------|---------------------|
| Project No.: 6234-06-35345 | Logged By: MFC | |
| Client Name: Bechtel | Project Name: SCE+G COL Site | Checked By: MFC |
| Well Installation Date: 3/29/06 | Start Date: 3/29/06 6/8/06 | Finish Date: 6/9/06 |
| Well Development Date: 6/8/06 - 6/9/06 | Start Time: 1500 | Finish Time: 1120 |
| Initial Water Level (ft.): 54.50 | | |
| Water Level during Initial Pumping/Purging (ft.): 54.50 BTOC (69.5=TWD BTOC) | | |
| Water Level at Termination of Pumping/Purging (ft.): DRY | | |
| Weather: | | |

Height of Water Column: $\frac{15}{15}$ (ft.)

$\frac{15}{15} \times 0.16 \text{ gal./ft. (2 in.)}$
 $\times 0.65 \text{ gal./ft. (4 in.)}$
 $\times 1.5 \text{ gal./ft. (6 in.)}$
 $= 2.4 \text{ gal./ft. (2 in.)} = 2.4 \text{ Well Volume (gal./ft.)}$

dry
dry
dry

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1500 | | | | Bail | Mod Turbid |
| 3.5 | 1520 | 14A | 14A | 14A | 1.0 | Mod Turbid |
| 6.0 | 1630 | NA | NA | NA | 1.0 | cloudy |
| 12.0 Total | 1030 6/9/06 | NA | NA | NA | 0.1 | slightly cloudy |
| 15 | 1120 6/9/06 | NA | NA | NA | 0.1 | Clear |
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Notes: Bailed 15th Well Volume.

Well Developers Signature: 

FIGURE 9

DC14 5083

Well Development Record

Well No.:

OW-383

Project No.: 6239-06-3534

Logged By: M. Hawey

Client Name: RECHTEL

Project Name: SEETG SOL Project

Checked By: MFC

Well Installation Date: 5/28/06

Start Date: 06-07-06

Finish Date: 06-07-06

Well Development Date: 0-0

Start Time: 10:15

Finish Time: 3:30

Initial Water Level (ft.): 60.65' BGS - 69.65' deep MTH 6-7-6

Water Level during Initial Pumping/Purging (ft.):

Water Level at Termination of Pumping/Purging (ft.):

Weather:

Height of Water Column: 9 (ft.)
 0.16 gal./ft. (2 in.)
 x 9 (ft.) = 0.65 gal./ft. (4 in.)
 _____ gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = 1.44 Well Volume (gal./ft.) MTH 6-7-6

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|--------------------------|-------------------|-------------------------------|--------------------------|------------------------|---------------------------------------|---------------------------|
| MTH 6-7-6 <u>1022</u> | <u>1030</u> | <u>bailed from</u> | <u>1015 to</u> | <u>1030</u> | | <u>very turbid, muddy</u> |
| <u>23</u> | <u>1035</u> | <u>went dry after</u> | <u>1 volume -</u> | <u>recharge 5 min.</u> | | <u>very turbid</u> |
| <u>4</u> | <u>1045</u> | <u>reduced flow rate</u> | | | | |
| <u>6</u> | <u>1107</u> | <u>pump dry</u> | <u>allow to recharge</u> | <u>surge pump</u> | | <u>muddy</u> |
| <u>8</u> | <u>1137</u> | <u>restart at</u> | <u>1027 pump</u> | <u>and dry</u> | | <u>turbid</u> |
| <u>11</u> | <u>1228</u> | <u>let pump</u> | <u>low flow</u> | <u>restart at</u> | <u>1137</u> | <u>clear</u> |
| <u>14</u> | <u>Surge make</u> | <u>muddy re.</u> | <u>ume pumping</u> | <u>1242</u> | | <u>muddy</u> |
| <u>17</u> | <u>pump dry</u> | | | | | <u>clear</u> |
| <u>18</u> | <u>1:58</u> | <u>pump dry, let recharge</u> | | | | <u>cloudy</u> |
| <u>21</u> | <u>2:30</u> | <u>resume</u> | <u>213 let pump dry</u> | <u>low flow</u> | | <u>cloudy/clear</u> |
| <u>25</u> | <u>3:24</u> | <u>resume</u> | <u>300, clearer,</u> | | | <u>clear</u> |
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Notes:
 69.65 Total depth BGS Bailed first two volumes, - highly turbid.
 1049-6-7-6 pump dry turn off pump allow recharge.

Well Developers Signature: Mandi Hawey

FIGURE 9

Well Development Record

Well No.:

401a

Project No.: 6234-06-3534

Logged By: KYLE MILLER/CHRIS GANDY

Client Name: BECHTEL

Project Name: VC summers

Checked By: mfc

Well Installation Date: 5/15/06

Start Date: 5/23/06

Finish Date: 5/23/06

Well Development Date: 5/23/06

Start Time: 8:50 AM

Finish Time: 1300

Initial Water Level (ft.): 56.8' TEL (stick-up = 3.7') BOTTOM OF WELL = 96.2' TEL

Water Level during Initial Pumping/Purging (ft.): 50.8' (TEL)

Water Level at Termination of Pumping/Purging (ft.): DRY

Weather: P. CLOUDY ~80°F

Height of Water Column:
~~35.1~~ (ft.)
 39.4'
 0.16 gal./ft. (2 in.)
 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
 0.16 gal./ft. (2 in.) = 6.3 Well Volume (gal./ft.)

Bailer Pump Purge

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|----------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1/2 | 8:50 AM | N/A | N/A | N/A BAIL | 0.5 g/min N/A | VERY |
| 2 | 9:30 AM | N/A | N/A | N/A | 0.5 g/min | slight-med, (DRY) |
| 3 | 10:25 AM | N/A | N/A | N/A | 0.5 g/min | slight (DRY) |
| 4 | 1:00 PM | N/A | N/A | N/A | 0.5 g/min | slight (DRY) |
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Notes: - Pad and casing not yet completed (5/23/06) - 3.7' stick-up of 2" well casing
 - Well developed with bailer, then pump was used to purge well dry

DCN 5083

Well Developers Signature: [Signature]

FIGURE 9

Well Development Record

Well No.:

OW 401 B

Project No.: 6234-06-354

Logged By: KYLE MILLER

Client Name: BECI+TEL

Project Name: VC SUMMER

Checked By: MTC

Well Installation Date: 5/11/06

Start Date: 5/16/06

Finish Date: 5/17/06

Well Development Date: 5/16/06

Start Time: 11:55

Finish Time: 9:00 AM

Initial Water Level (ft.): 52.3 65.5

Water Level during Initial Pumping/Purging (ft.): 52.3

Water Level at Termination of Pumping/Purging (ft.): 54.5

Weather: P. CLOUDY ~80's (°F)

Height of Water Column: \checkmark 0.16 gal./ft. (2 in.)
~~13.2 (ft.)~~ \times ~~0.65 gal./ft. (4 in.)~~
~~1.5 gal./ft. (6 in.)~~
~~0.16 gal./ft. (2 in.)~~ = 2.11 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|---------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 11:55 | N/A | N/A | N/A | N/A | VERY |
| $\frac{1}{2}$ 1.9 | 12:45 | N/A | N/A | N/A | N/A | VERY DRY |
| 2.5 | 8:45 | N/A | N/A | N/A | N/A | slight/y DRY |
| 3.25 | 9:00 AM | N/A | N/A | N/A | N/A | slight/y DRY |
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11x DRY
 9/16 DRY
 DRY (5/17)

DRY
 DRY
 DRY

Notes: Well developed with Bailor
 Dry at noted intervals

DCN 5083

Well Developers Signature: K M

FIGURE 9

Well Development Record

Well No.:

OW-501

Project No.: 6234-06-3534

Logged By: MHCook

Client Name: Bachtel

Project Name: 62 SCE+G COL

Checked By: MHC

Well Installation Date: 8/2/06

Start Date: 8/4/06

Finish Date: 8/6/06

Well Development Date: 8/4/06 - 8/6/06

Start Time: 1000

Finish Time: 1032

Initial Water Level (ft.): 8.7

Water Level during Initial Pumping/Purging (ft.): 8.7

Water Level at Termination of Pumping/Purging (ft.):

Weather: Hot

Height of Water Column: $23.3 \times 0.16 \text{ gal./ft. (2 in.)}$
 $23.3 \text{ (ft.)} \times 0.65 \text{ gal./ft. (4 in.)}$
 $\quad \quad \quad 1.5 \text{ gal./ft. (6 in.)}$
 $\quad \quad \quad \text{gal./ft. (\quad in.)} = 0.5 \text{ Well Volume (gal./ft.)}$

| Gallons Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): V. Snt / |
|---------------------------------|-------|--------------|-----|---------------|---------------------------------------|-----------------------------|
| 5 | 1023 | NA | NA | NA | 0.5 | Very Turbid |
| 5 | 1035 | NA | NA | NA | | Turbid |
| 5 | 1045 | NA | NA | NA | | Turbid |
| 5 | 1100 | NA | NA | NA | | Mod Turbid |
| 5 | 0920 | NA | NA | NA | ↓ | Mod Turbid |
| 5 | 0934 | NA | NA | NA | ↓ | Cloudy |
| Dry after 10/18/06 | | | | | | |
| 5 | 1000 | NA | NA | NA | 0.25 | Slight |
| 5 | 1030 | NA | NA | NA | 0.25 | Clear |
| Dry After 10/26/06 | | | | | | |

MHC 8/4/06
 Dry 8/4/06
 1 flow 20 gallons
 Begin 8/6/06

Notes: Surged pump up and down during development.

DCN 5083

Well Developers Signature: 

FIGURE 9

Well Development Record

Well No.:

DW612

Project No.: 6234-06-3534

Logged By: KYLE MILLER

Client Name: BECHTEL

Project Name: VC SUMMER

Checked By: MFC

Well Installation Date: 5/3/06

Start Date: 5/16/06

Finish Date: 5/17/06

Well Development Date: 5/16/06

Start Time: 1:55 pm

Finish Time: 10:30 AM

Initial Water Level (ft.): 52.1'

(62.5' Total Depth)

TC casing

Water Level during Initial Pumping/Purging (ft.): 52.1

Water Level at Termination of Pumping/Purging (ft.): 51.7

Weather: P. CLOUDY 80's °F

Height of Water Column: 0.16 gal./ft. (2 in.)
 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
 0.16 gal./ft. (2 in.) = 1.66 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|----------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1:55 PM | N/A | N/A | N/A | N/A | VERY |
| 3.5 | 6:30 PM | | | | N/A | VERY (DRY) |
| 4.5 | 8:30 AM | | | | Pump 0.5/5min | VERY (DRY) |
| 5.5 | 9:40 AM | | | | 1.5/5min | MODERATE (DRY) |
| 6.5 | 10:30 AM | | | | 1.5/5min | SLIGHTLY (DRY) |
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5/16/06
5/17
5/17
5/17

(DRY)
(DRY)
(DRY)
(DRY)

Notes: DEVELOPED WITH BAILER FOR FIRST TWO PURGES, THEN USED PUMPI

DCM 5083

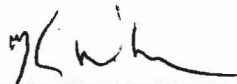
Well Developers Signature: 

FIGURE 9

Well Development Record

Well No.:

OW614

Project No.: 6234-06-3534

Logged By: KYLE MILLER

Client Name: BECHTEL

Project Name: VC SUMMER

Checked By: mt C

Well Installation Date: 5/8/06

Start Date: 5/16/06

Finish Date: 5/16/06

Well Development Date: 5/16/06

Start Time: 8:30

Finish Time: 5:50 PM

Initial Water Level (ft.): 30.2

TD = 33.1' (TOC)

Water Level during Initial Pumping/Purging (ft.): 30.2

TD = 33.1'

(TOC measurements)

Water Level at Termination of Pumping/Purging (ft.): 30.3

30.20

Weather: P. CLOUDY 80's (°F)

Height of Water Column: 0.16 gal./ft. (2 in.)
 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)

0.16 gal./ft. (2 in.) = 0.496 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|---------|--------------|--------|---------------|---------------------------------------|--------------------|
| 1 | 8:30 AM | N/A | N/A | N/A | 0.5/5min | VERY |
| 2 | 8:35 | N/A | N/A | N/A | 0.5/5min | VERY |
| 3 | 8:40 | N/A | N/A | N/A | 0.5/5min | VERY |
| 4 | 8:47 | | | | 0.5/7min | VERY |
| 5 | 9:48 | | | | 0.5/2min | VERY |
| 6 | 9:54 | | | | 0.5/2min | VERY |
| 8 | 10:45 | | | | N/A | Slight to med. |
| 10.5 | 5:50 PM | | | | N/A | Slight - med. |
| 12.5 | 15:00 | (19 gallons) | dry NA | NA | Barl | Turbid |
| 18.5 | 1545 | | | | NA Barl | |

well dry ←
 well dry ←
 well dry ←
 DRY ←
 6/9/06
 6/10/06 DRY

Notes:

- well developed with Brifer
 - well went dry after 4, 6, 8 well volumes. Allowed to recharge in between.

10.5 (km 5/17/06)
 6/10/06 - WL @ 30.3 BT06 1428 Notes: 1st Brifer cloudy, Rest Red/Br Turbid + minor sediments
 DCN 5083

Well Developers Signature: Kyle Miller

FIGURE 9

Well Development Record

Well No.:

619

Project No.: 6234-06-3534

Logged By: JR HARMON

Client Name: SCF+G

Project Name: SCF+G COL

Checked By: MFC

Well Installation Date: 5/28/06

Start Date: 6/6/06

Finish Date: 6/9/06

Well Development Date: 6/6/06

Start Time: 1430

Finish Time: 1430

Initial Water Level (ft.): N/A (see note 1)

Water Level during Initial Pumping/Purging (ft.): DRY Added Water See Below

Water Level at Termination of Pumping/Purging (ft.): See Below.

Weather:

Height of Water Column: _____ 0.16 gal./ft. (2 in.)
 _____ (ft.) x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = _____ Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|----------------------|---|-----|---------------|---------------------------------------|--------------------|
| 6/6/06 | 1430 | Added 5 gals, bailed 2 | | | bailed 2 | clear |
| | | to slight turbid | | | | |
| | 1445 | Added another 10 gals | | | | |
| | | Bailing, surging with bailer, bailing | | | | |
| | 1530 | Total 5 gals removed = muddy visible H ₂ O | | | | |
| | 1600 | Bailed 1 1/2 add 10 gal tons = very muddy with lots removing most of water from well (fines @) | | | | |
| | 1605 | Added 4 gal potable H ₂ O. Let sit overnight | | | | |
| 6/7/06 | 1430 (GP) | 1545 - 1600 Bailed 4 gals. Dry. | | | | |
| 6/9/06 | 1430 | Bailed 3/4 gallon first Bailer clear rest removed (Dry) let stand over weekend | | | | |

Notes:

① Cook + Day could not get a WL Reading at 1100. Wb. meter to ~ 97', well depth 106' stem stuck up. Tag Tap slight wet bottom ~ 5 ft of well depths.

* Water added to well per instructions from Bechtel Rep. Garrett Day. Put in 14 gallons. Removed ~ 11.5 gallons total went dry each day of Bailing

Well Developers Signature: 

FIGURE 9

Well Development Record

Well No.:

OW-620

Project No.: 6234-06-35345

Logged By: COOK/Brunco

Client Name: Bechtel

Project Name: SCF + G COL #5/14/06

Checked By: mt C

Well Installation Date: 5/1/06

Start Date: 5/14/06

Finish Date: 5/14/06

Well Development Date: 5/14/06

Start Time: 1045

Finish Time: 1430

Initial Water Level (ft.): 39.7 (TWD = 75.4)

Water Level during Initial Pumping/Purging (ft.): 39.7

Water Level at Termination of Pumping/Purging (ft.): 38.3

Weather: Partly Cloudy ~ 70S

~~Height of Water Column: 35.7 0.16 gal./ft. (2 in.)
 35.7 (ft.) x 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
 35.7 gal./ft. (in.) = _____ Well Volume (gal./ft.)~~ mt C 5/14/06

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): (Nish) |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|---------------------------|
| 1 | 1120 | NA | NA | NA | | Cloudy |
| 2 | 1125 | NA | NA | NA | 1.25 | Cloudy |
| 3 | 1128 | NA | NA | NA | 1.25 | Cloudy |
| 4 | 1132 | NA | NA | NA | 1.25 | Cloudy |
| 6 | 1139 | NA | NA | NA | 1.25 | Mod. Cloudy |
| 8 | 1147 | NA | NA | NA | 1.25 | Mod. Cloudy |
| 12 | 1204 | NA | NA | NA | 1.25 | Mod. Cloudy |
| 14 | 1217 | NA | NA | NA | 1.25 | Mod. Cloudy |
| 28 | 1430 | NA | NA | NA | 1.25 | Clear |
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Notes: 2" Well Vol Initial = $\frac{\pi(0.17)^2}{4} \times 35.7 = 0.78 \text{ ft}^2 = 5.82 \text{ gallons}$

Bailed ~ 3 gallons from Well, then began pumping with SS. Mansoon 12 Volt pump. Surge with pump periodically by lifting up and down.

Well Developers Signature: 

FIGURE 9

Well Development Record

Well No.:

OW-621A

Project No.: 6234-06-3534

Logged By: Bill Sharp/MFC

Client Name: SCE + G COL

Project Name: SCE + G COL

Checked By: MFC

Well Installation Date: 5-26-06

Start Date: 5-27-06

Finish Date: 6/9/06

Well Development Date: 5-27-06

Start Time: 1005

Finish Time: 1545

Initial Water Level (ft.): 69.88' b + OC (2.3' stick up) t.d. 99.30' b + OC

Water Level during Initial Pumping/Purging (ft.): 69.88 b + OC

Water Level at Termination of Pumping/Purging (ft.):

Weather: Sunny 905 wts 5-29-06

99.3' t.d. - 69.88 (w.l.) - 2' samp = 29.4' water column

Height of Water Column: 29.4 (ft.)
 x 0.16 gal./ft. (2 in.) = 4.7
 x 0.65 gal./ft. (4 in.) = 19.1
 x 1.5 gal./ft. (6 in.) = 44.1
 x 0.16 gal./ft. (in.) = 4.7 Well Volume (gal.)

291.75
6-2-6
915am
hard bottom
46.55
BGS

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-----------------------------|-----------------------------|----------------|---------------------|---------------|---------------------------------------|--------------------|
| 1 | 1030 | | | | Bail | Moderate |
| 1.5 | 1045 | | | | Bail | Moderate |
| 2.0* | 0950 | | | | Bail | brown/turbid |
| *bailed | dry after | bailing | ~ 2.5 gallons first | thing | 5-28-06 morning | |
| - measured | w.l. | on 5-28-06 at | 1210 | 97.93' b + OC | | |
| - measured | w.l. on | 5-29-06 at | 0820 | after almost | 23 hours of recovery | |
| @ 91.44 | (recovered | ~ 0.5' | in ~ 23 hours) | | | |
| bailed | ~ 1.3 gallons of water from | until dry | - tagged w.l. | | | |
| - immediately after bailing | dry | @ 98.3' | b + OC | | | on 5-29-06 |
| - measured | rate of recovery | 1- @ 0918 w.l. | 97.7' | (recovered | | |
| 0.6' in | 6 minutes, ~ 0.1' / min) | | | | | |
| 6/7/06 1400 | 19 gal/hr | 118 1400-1430 | NA | NA | NA | Moderate |
| 1545 | | | | | | |

Notes: Bailed well dry after 1.5 well volumes on 5-27-06; tagged w.l. after bailing 1.5 well volumes at 95.1' b + OC

5-7-6 - begin pumping at 0928 in the morning - not enough water to fill tubing - can't Pump
 6/7/06 1400 GWC 94.2 Below TOC; 01545 GWC 97.05

Well Developers Signature: Bill Sharp

DCN 5083

FIGURE 9

Well Development Record

Well No.:

ow-621B

Project No.: 6234-06-3534

Logged By: Bill Sharp

Client Name: SCE + G COL

Project Name: SCE + G COL

Checked By: MTC

Well Installation Date: 5-25-06

Start Date: 5-27-06

Finish Date: 5-27-06

Well Development Date: 5-27-06

Start Time: 0857

Finish Time: 0945

Initial Water Level (ft.): 50.5' bgs

Water Level during Initial Pumping/Purging (ft.): 50.5

Water Level at Termination of Pumping/Purging (ft.): 69.43

Weather: Sunny

Height of Water Column: 17.8 (ft.)

0.16 gal./ft. (2 in.)
 x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = 2.8 Well Volume (gal.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-------|---------------|---------------------------------------|--------------------|
| 1 | 0900 | _____ | _____ | _____ | bail | moderate |
| 2 | 0918 | _____ | _____ | _____ | 0.8 | moderate |
| 3 | 0922 | _____ | _____ | _____ | 0.8 | moderate |
| 4 | 0926 | _____ | _____ | _____ | 0.8 | moderate |
| 5 | 0930 | _____ | _____ | _____ | 0.8 | moderate |
| 6 | 0934 | _____ | _____ | _____ | 0.8 | sl. turbid |
| 7 | 0938 | _____ | _____ | _____ | 0.8 | clear |
| 8 | 0942 | _____ | _____ | _____ | 0.8 | clear |
| 9 | 0945 | _____ | _____ | _____ | 0.8 | clear |
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Notes:

Removed 1st well volume with bailer
 Pumped a total of ~ 27 gallons
 - clear and free of sediment
 - used pump as a surge block, periodically raising and lowering pump

Well Developers Signature:

Bill Sharp

FIGURE 9

Well Development Record

Well No.:

OW-622

Project No.: 6234-06-3534 Logged By: Bill Sharp

Client Name: Bechtel Project Name: SCE+G COL Checked By: mfc

Well Installation Date: 5-25-06 Start Date: 5-27-06 Finish Date: 6/7/06

Well Development Date: 5-27-06 Start Time: 1620 Finish Time: 0910

Initial Water Level (ft.): 44.90' btoC (1.2' stick up)

Water Level during Initial Pumping/Purging (ft.): 44.90' btoC 6/7/06 ∇ 45.1

Water Level at Termination of Pumping/Purging (ft.):

Weather: Sunny 90s

Height of Water Column: $\frac{14.85'}{14.85 \text{ (ft.)}}$ 0.16 gal./ft. (2 in.)
 x _____ 0.65 gal./ft. (4 in.)
 _____ 1.5 gal./ft. (6 in.)
 = $\frac{0.16}{1.5}$ gal./ft. (_____ in.) = 2.4 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|---|-----|---------------|---------------------------------------|--------------------|
| 1 | 1630 | | | | 0.6 | turbid/gray |
| 2 | 1635 | | | | 0.6 | turbid/gray |
| 3 | 1639 | | | | 0.6 | turbid/gray |
| 4 | 1643 | | | | 0.6 | turbid/gray |
| 5 | 1647 | | | | 0.6 | turbid/gray |
| 6 | 1651 | | | | 0.6 | turbid/gray |
| 7 | 1655 | | | | 0.6 | cloudy |
| 8 | 8:31 | | | | | Murky |
| 9 | 8:39 | | | | | Milky Cloudy |
| 10 | 8:46 | Surged well with Pump & turned Pump off | | | | Murky |
| 11 | 8:52 | | | | | Milky Cloudy |
| 12 | 8:57 | | | | | Milky Cloudy |
| 13 | 9:10 | turned pump off | | | | cloudy/clear |

6-7-06
(M. Harvey)

Notes: t.d. 59.75' btoC (1.2' stick up); bailed 1st well volume; tagged w.l. after purging 7 volumes @ 18.2' bgs (had \approx 4 minutes to recover before I actually got w.l. top down well)
 - surged well by raising and lowering pump repeatedly after each 5 gallons of water pumped.

Well Developers Signature: Bill Sharp

FIGURE 9

Well Development Record

Well No.:

OW-623

Project No.: 6234-06-3534 Logged By: Bill Sharp

Client Name: Bechtel Project Name: SCE + G COL Checked By: MFC 6/5/06

Well Installation Date: 5/26/06 Start Date: 5-28-06 Finish Date: 6/5/06

Well Development Date: 5-28-06 Start Time: 1035 Finish Time:

Initial Water Level (ft.): 72.00' btoe (2.2' stick up)

Water Level during Initial Pumping/Purging (ft.): 72.00'

Water Level at Termination of Pumping/Purging (ft.):

Weather: Sunny; 90's

Height of Water Column: 19.80 (ft.)

$19.80 \times 0.16 \text{ gal./ft. (2 in.)} + 0.65 \text{ gal./ft. (4 in.)} + 1.5 \text{ gal./ft. (6 in.)} = 0.16 \text{ gal./ft. (in.)} = 3.2 \text{ Well Volume (gal./ft.)}$

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|---|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1035 | | | | 0.1 | brown/turbid |
| 2 | 1056 | | | | 0.8 | moderate |
| 3 | 1116 | | | | 0.7 | moderate |
| 4 | 1122 | | | | 0.6 | slightly turbid |
| Surged well by raising and lowering pump several times | | | | | | |
| 5 | 1133 | | | | 0.6 | brown/turbid |
| 6 | 1145 | | | | 0.5 | brown/turbid |
| had to leave and pick up fully charged battery for pump - low voltage on this one | | | | | | |
| 7 | 1335 | | | | 0.7 | brown/turbid |
| 8 | 1340 | | | | 0.6 | milky |
| 9 | 1352 | | | | 0.5 | brown/turbid |
| 10 | 1409 | | | | 0.6 | moderate |
| well pumped dry after 10 well volumes | | | | | | |

Notes: t.d. 91.8' btoe (2.2' stick up) - on 5-28-06 measured recharge rate - w.l. recovered from 86.2' to 84.3' in ~12 minutes (~1' recovery every 6 minutes)

* PUMPED 4.5 MORE WELL VOLUMES, WELL PRODUCED SLIGHTLY TURBID WATER
CEG 6/5/06

Well Developers Signature: Bill Sharp

FIGURE 9

Well Development Record

Well No.:

OW-625

Project No.: 6234-06-3534

Logged By: Bill Sharp / M. Cooke

Client Name: Bechtel

Project Name: SCE + G COL

Checked By: MFC

Well Installation Date: 5/23/06

Start Date: 5-25-06

Finish Date: 6/8/06

Well Development Date: 5-28-06

Start Time: 1510

Finish Time: 1345

Initial Water Level (ft.): 89.24' btoc (3' stickup) 89.4 (6/8/06)

Water Level during Initial Pumping/Purging (ft.): 89.24' btoc

Water Level at Termination of Pumping/Purging (ft.): 90.8 6/8/06

Weather: Sunny 90s

Height of Water Column: 19.56' (ft.)
 x 0.16 gal./ft. (2 in.)
 x 0.65 gal./ft. (4 in.)
 x 1.5 gal./ft. (6 in.)
 0.16 gal./ft. (in.) = 3.1 Well Volume (gal.)

6/8/06
↓

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 1535 | NA | NA | NA | bail | brown/turbid |
| 3 | 1200 | NA | NA | NA | 0.75 | Moderate |
| 7 | 1220 | NA | NA | NA | 0.75 | Slight-Cloudy |
| 8 | 1230 | NA | NA | NA | 0.75 | Slight to Clear |
| 18 | 1345 | NA | NA | NA | 0.75 | Slightly Cloudy |
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Notes: f.d. 110.80' btoc (3' stickup); bailed 1st well volume with bailer

Pumped 17 Volumes with Pump. Raised and lowered pump during purge to surge filter pack. Turned pump on and off to allow water to fall into well and surge filter pack mfc 6/8/06

Well Developers Signature: Bill Sharp / M. Cooke

FIGURE 9

Well Development Record

Well No.:

OW-626

Project No.: 6234-06-3534

Logged By: C. Kozick / M. Cooke

Client Name: Bechtel

Project Name: SAGE 6 Col Project

Checked By: mf c

Well Installation Date: 5/15/06

Start Date: 5/15/06

Finish Date: 5/15/06

Well Development Date: 5/15/06

Start Time: 8:40

Finish Time: 1500

Initial Water Level (ft.): 49.61 TD 85.31

Water Level during Initial Pumping/Purging (ft.): NA mfc 5/22/06 49.61

Water Level at Termination of Pumping/Purging (ft.): ~~NA~~ 49.8

Weather: Clear breeze mfc 5/16/06

Height of Water Column: 35.7(ft.)

\times 0.16 gal./ft. (2 in.)
 \times 0.65 gal./ft. (4 in.)
 \times 1.5 gal./ft. (6 in.)
 \times 0.16 gal./ft. (2 in.) = 5.7 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|------|---------------|---------------------------------------|--------------------|
| 6 gal 1 | 8:50 | NA | NA | NA | 0.5 bpm | Cloudy |
| Blow | Fuses | on | pump | when | setting up | Very turbid |
| 10 gal 2 | 11:00 | NA | NA | NA | 1 gal | Turbid |
| Dry | | | | | | |
| 16 gal 3 | 14:00 | NA | NA | NA | 2 0.5 gpm | Clear |
| Dry | | | | | | |
| 19 gal 3.5 | 15:00 | NA | NA | NA | 2 0.25 | Clear |
| Dry | | | | | | |
| End @ | 15:00 | | | | | |

Notes:

* Dry @ 8 gallons turn pump down to 0.5 gpm
 Dry @ 10 gallons let stand (recover) for ~ 3 hours
 Pumped Dry and allowed to Recover 3 times.

Well Developers Signature: [Signature]

FIGURE 9

Well Development Record

Well No.: OW-627a

| | |
|--|---|
| Project No.: <u>6234-06-35345</u> | Logged By: <u>C. BRUCE</u> |
| Client Name: <u>Berchtal</u> | Project Name: <u>SC&G Col Project</u> |
| Well Installation Date: <u>6/7/06</u> | Start Date: <u>6/09</u> |
| Well Development Date: <u>6/09/06</u> | Finish Date: <u>6/10/06</u> |
| Initial Water Level (ft.): <u>14.9</u> | Start Time: <u>1130</u> |
| Water Level during Initial Pumping/Purging (ft.): <u>14.9 (6/9/06)</u> | Finish Time: <u>1600</u> |
| Water Level at Termination of Pumping/Purging (ft.): <u>Dry</u> | |
| Weather: <u>Clear Warm</u> | |

Height of Water Column: _____ (ft.) x _____ gal./ft. (2 in.)
 _____ gal./ft. (4 in.)
 _____ gal./ft. (6 in.)
 _____ gal./ft. (_____ in.) = _____ Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min): | Turbidity (NTU's): |
|-------------------------|--------------|--------------|-----------|---------------|--------------------------------------|-----------------------------|
| <u>1</u> | <u>1130</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>0.5 (Bail)</u> | <u>Turbid</u> |
| <u>15</u> | <u>1340</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>0.5 pump</u> | <u>Cloudy</u> |
| <u>15.3</u> | <u>16:00</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>0.01</u> | <u>Cloudy</u> |
| <u>399 lbs</u> | <u>16:00</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>Bail</u> | <u>Clear to Mod. Turbid</u> |
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dry
(2 gal) dry
6/10
dry

Notes: surged pump several times during initial (15 volume) development, water ~~would~~ ^{was} be turbid but cleared up fast.
 water level dropped to 384 feet with very slow recovery
 Bailed 3 gallons on 6/10/06, well going dry. 1st 1/2 gallon clear. rest Mod. Turbid

Well Developers Signature: [Signature]

FIGURE 9

Well Development Record

Well No.:

OW-627b

Project No.: 6234-06-35345

Logged By: C Bruce

Client Name: Bechtel

Project Name: SCE & Cal Project

Checked By: mfc

Well Installation Date: 5/22/06

Start Date: 6/09/06

Finish Date: 6/10/06

Well Development Date: 6/09/06

Start Time: 1415

Finish Time: 1620

Initial Water Level (ft.): 12.55 / 26.25 (6/10/06) TD 58.6

Water Level during Initial Pumping/Purging (ft.):

Water Level at Termination of Pumping/Purging (ft.): 43.1 6/10/06

Weather: Clear warm

Height of Water Column: 0.16 gal./ft. (2 in.)
 0.65 gal./ft. (4 in.)
 1.5 gal./ft. (6 in.)
46.05 gal./ft. (2" in.) = 7.368 Well Volume (gal./ft.)

| Number of Well Volumes: | Time: | Temperature: | pH: | Conductivity: | Approximate Pumping Rate (gal./min.): | Turbidity (NTU's): |
|-------------------------|-------|--------------|-----|---------------|---------------------------------------|--------------------|
| 1 | 14:15 | NA | NA | NA | 0.5 (Bail) | Turbid |
| 2 | 14:30 | NA | NA | NA | 0.25 | Turbid |
| 3 | 15:30 | NA | NA | NA | 0.25 | Turbid |
| 3.2 (2 gal) | | NA | NA | NA | 0.0 | Turbid |
| 5 gallons | 16:20 | NA | NA | NA | Bail | Clear to cloudy |
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dry
dry
s/10

Notes:

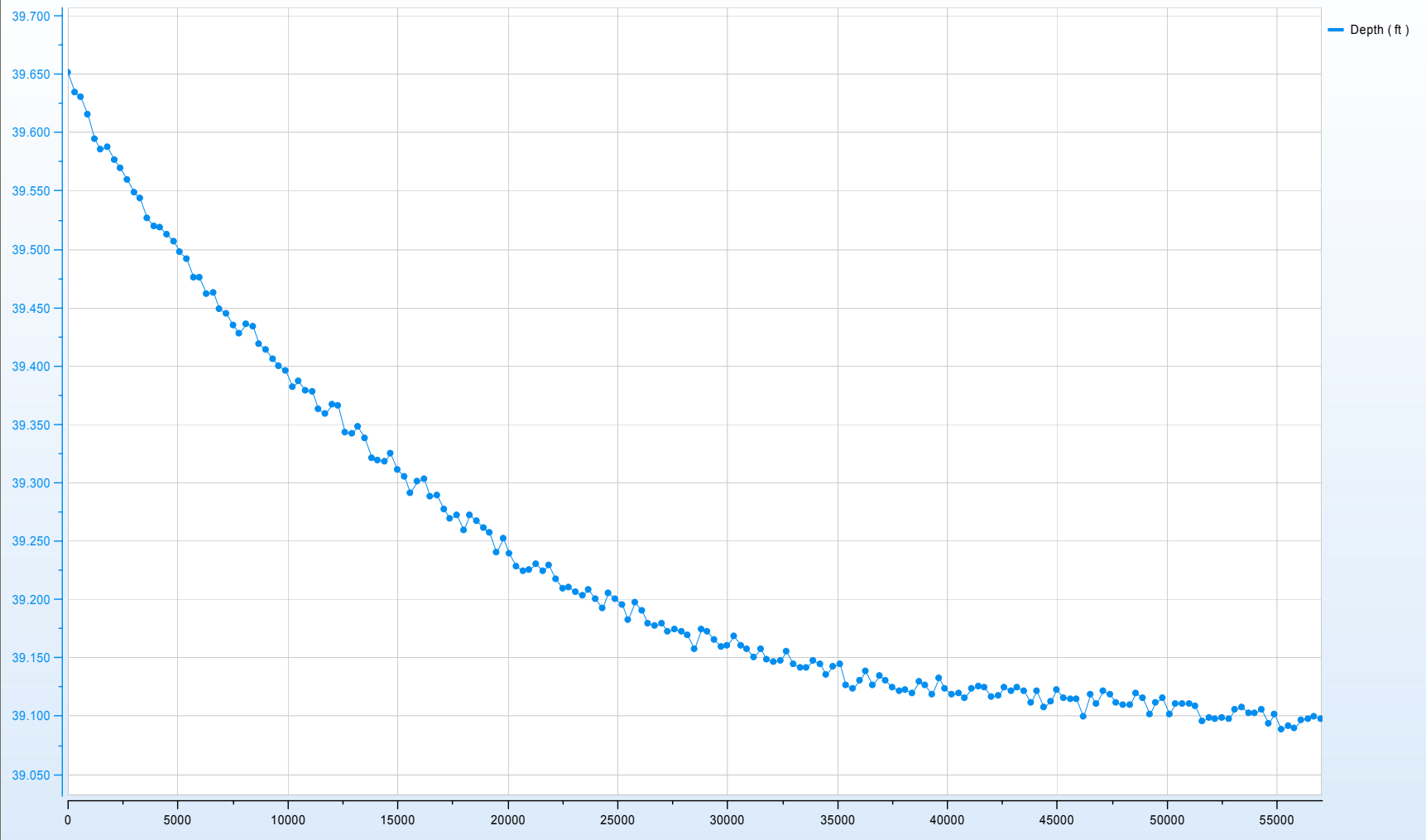
Well Developers Signature:

FIGURE 9

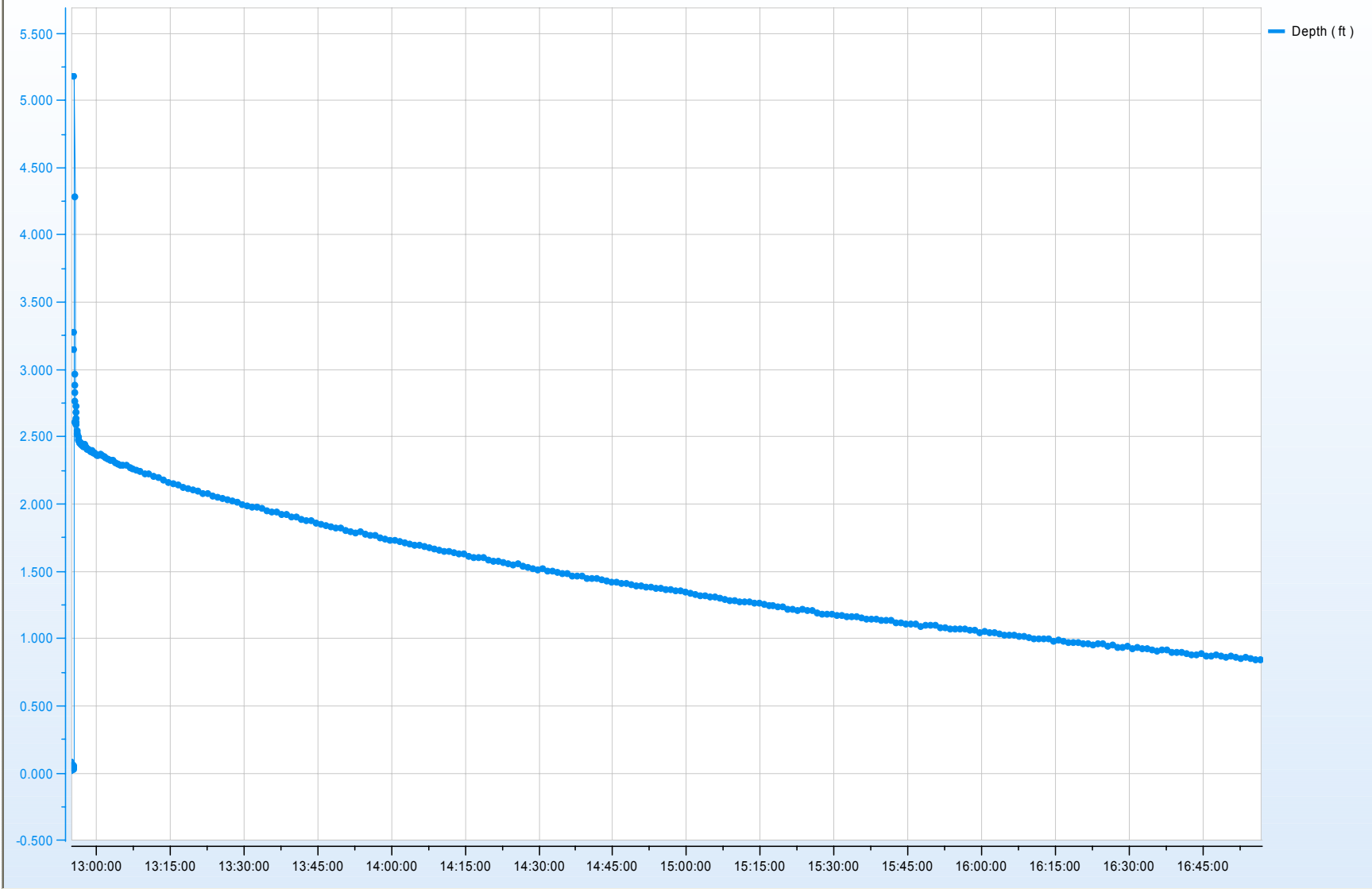
mfc 6/11/06
 TAFC
 DCN 5083

Final Report
Appendix C-3
Slug Test Charts

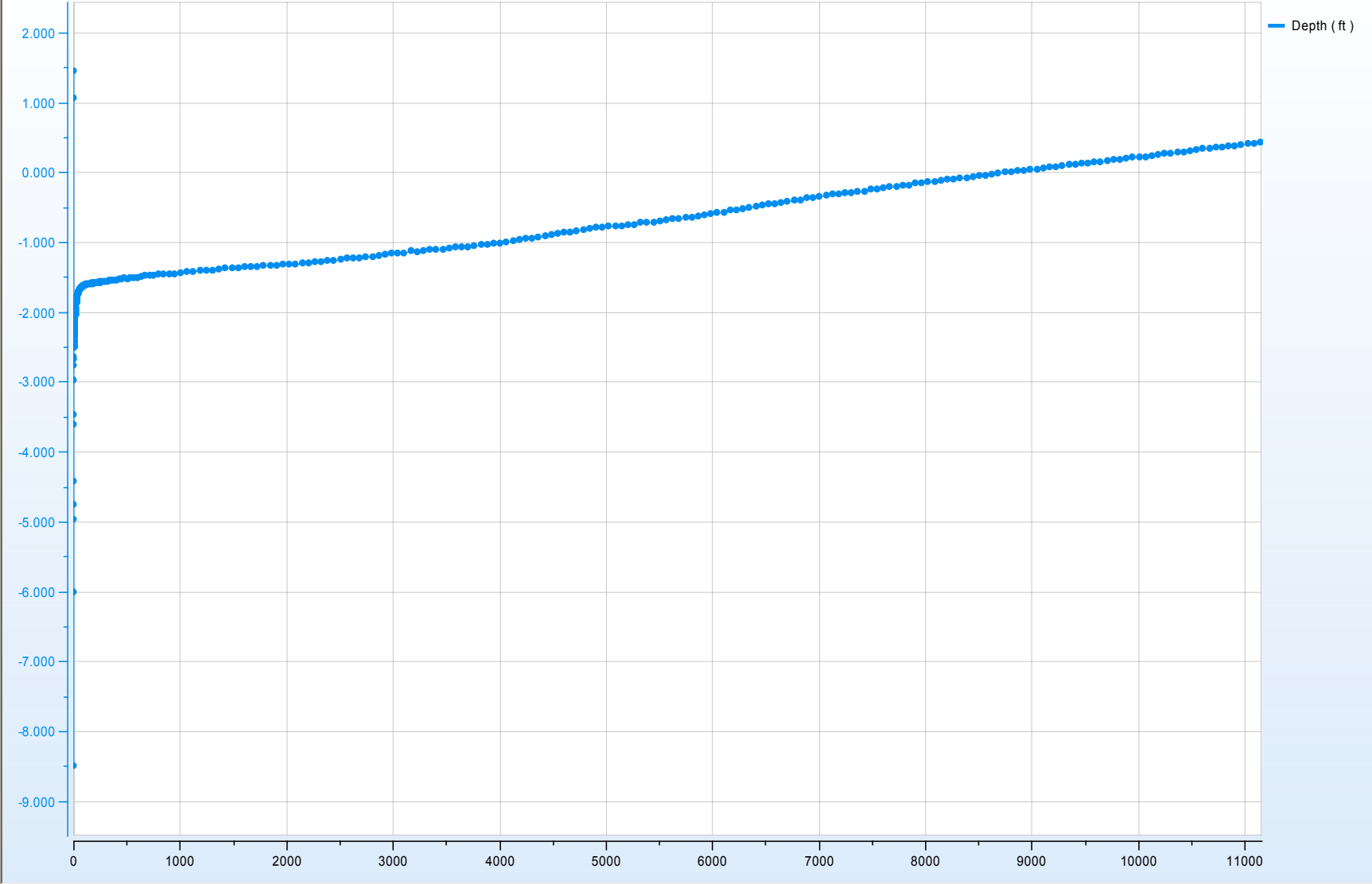
OW-205A BACKGROUND 2006-07-05 08-46-31



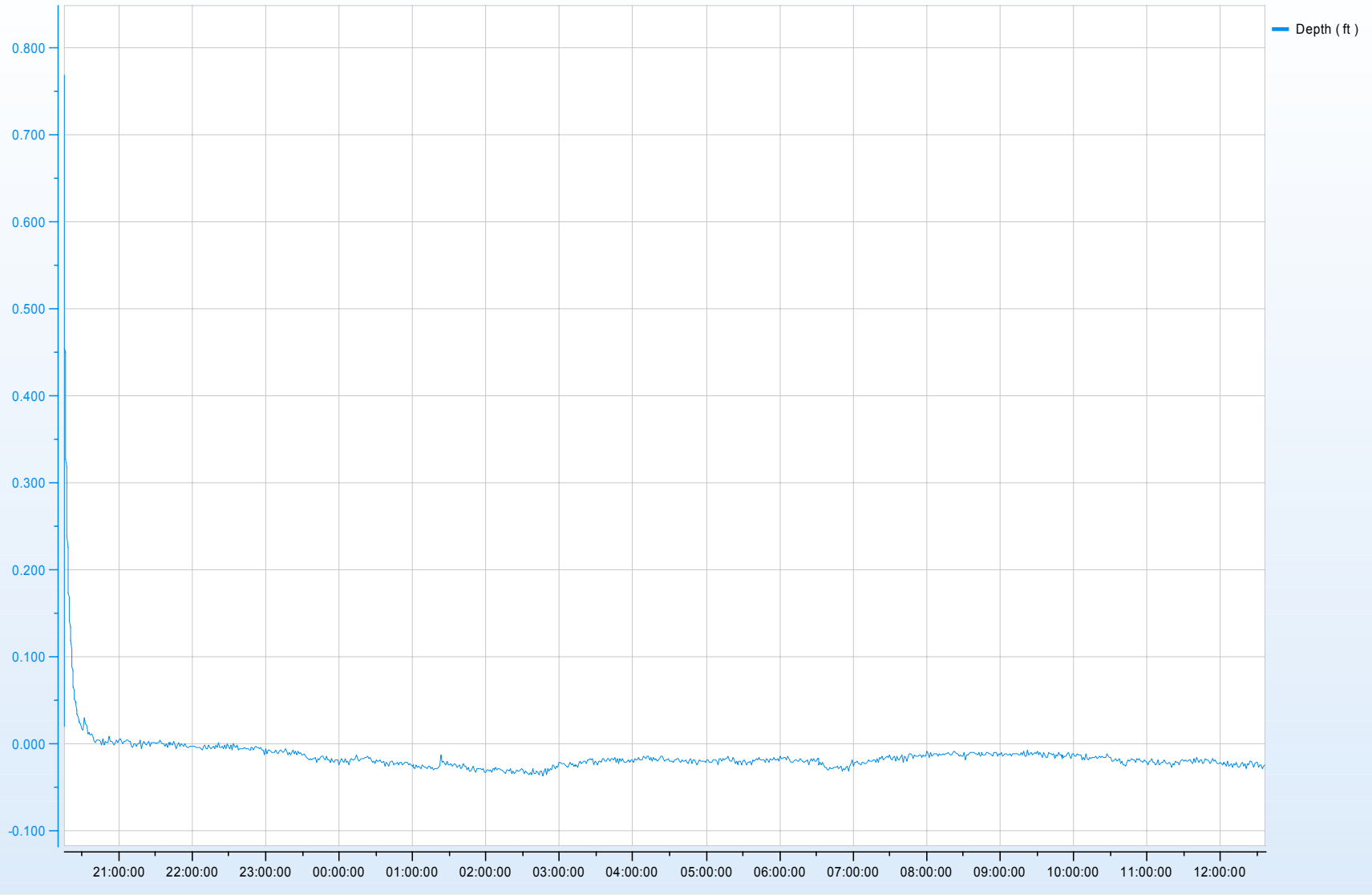
OW-205A FALLING HEAD 2006-07-05 12-57-33



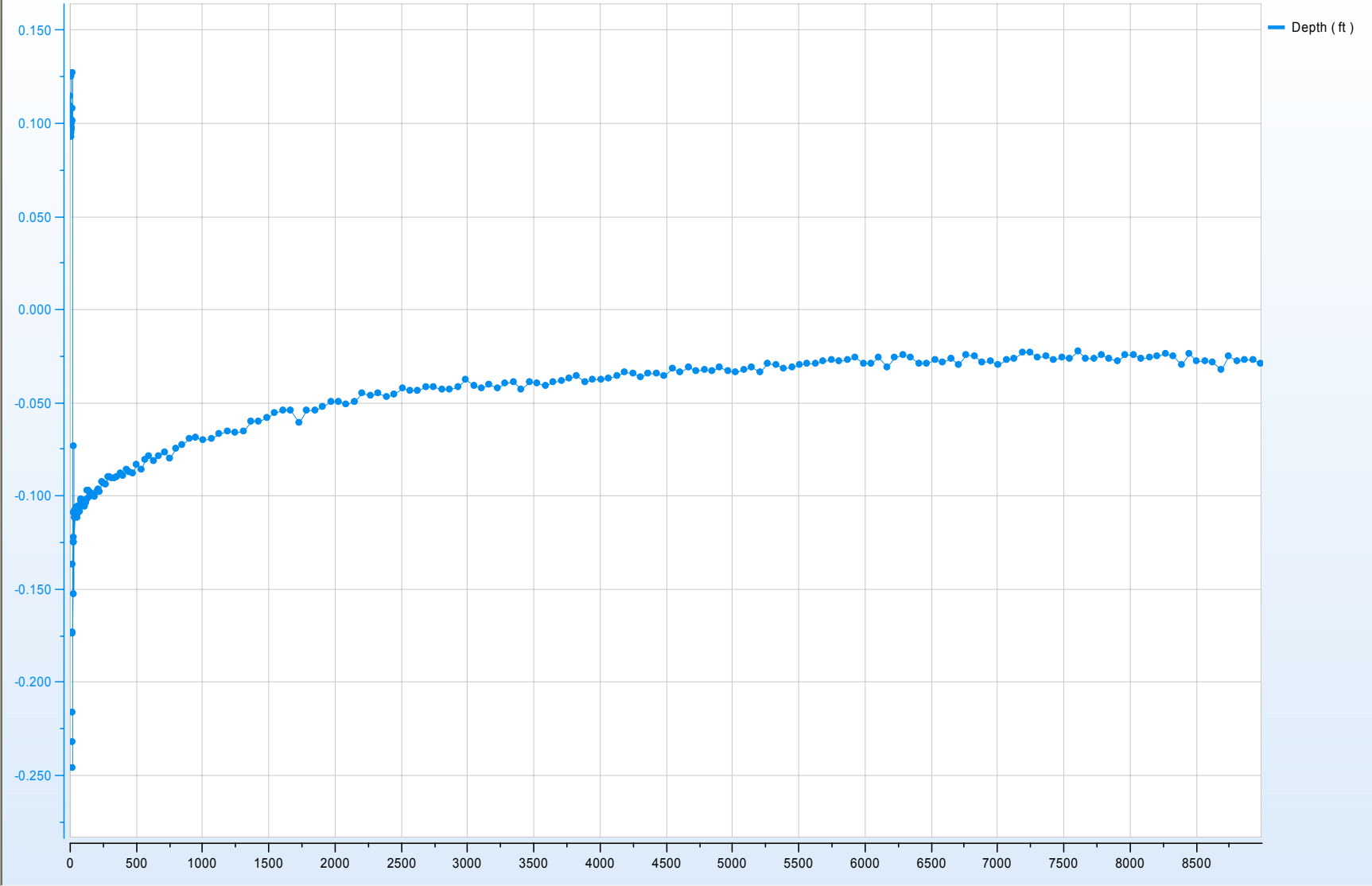
OW-205A RISING HEAD 2006-07-05 16-10-22



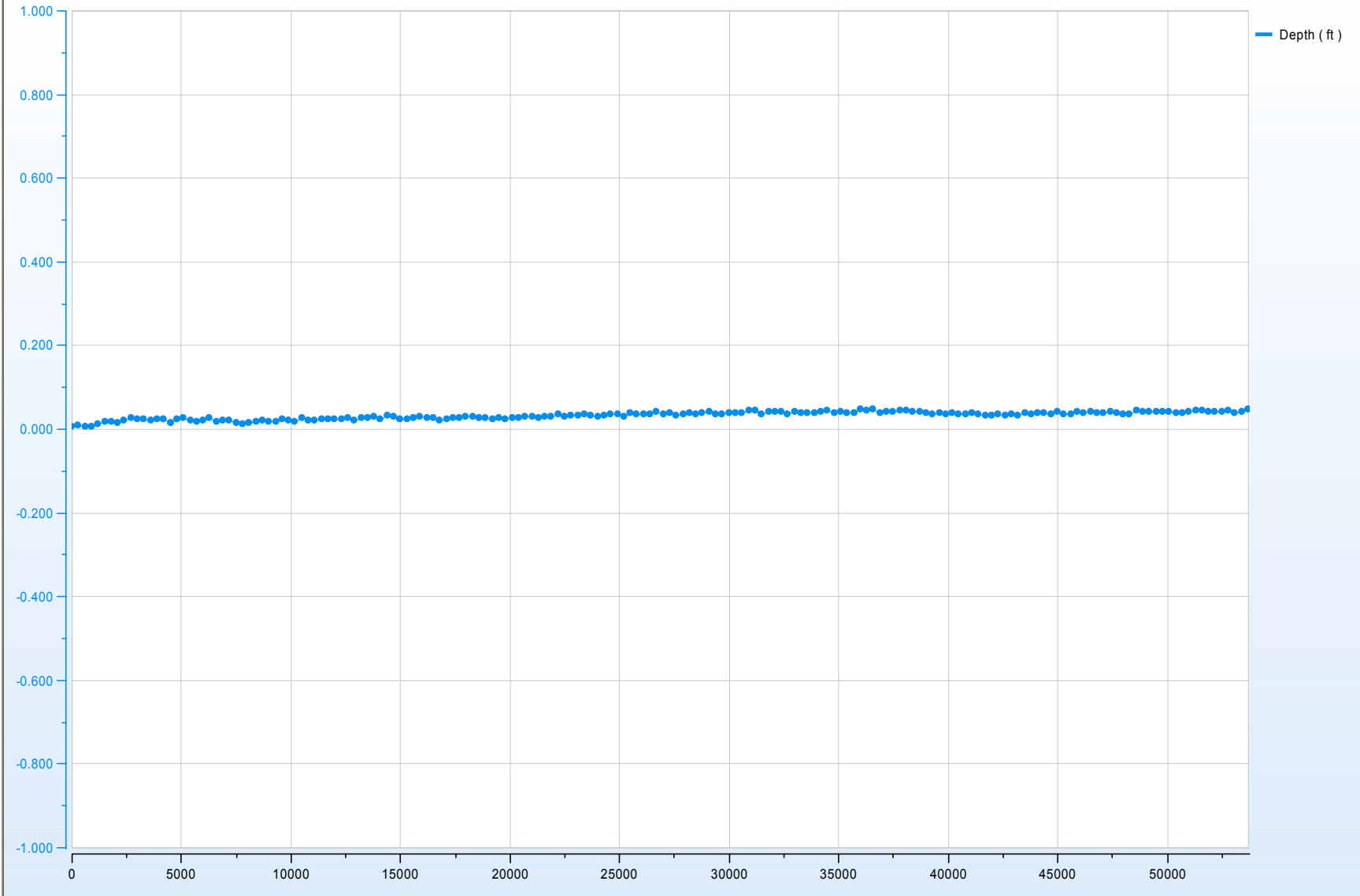
OW-205B BACKGROUND 2006-07-05 08-37-14



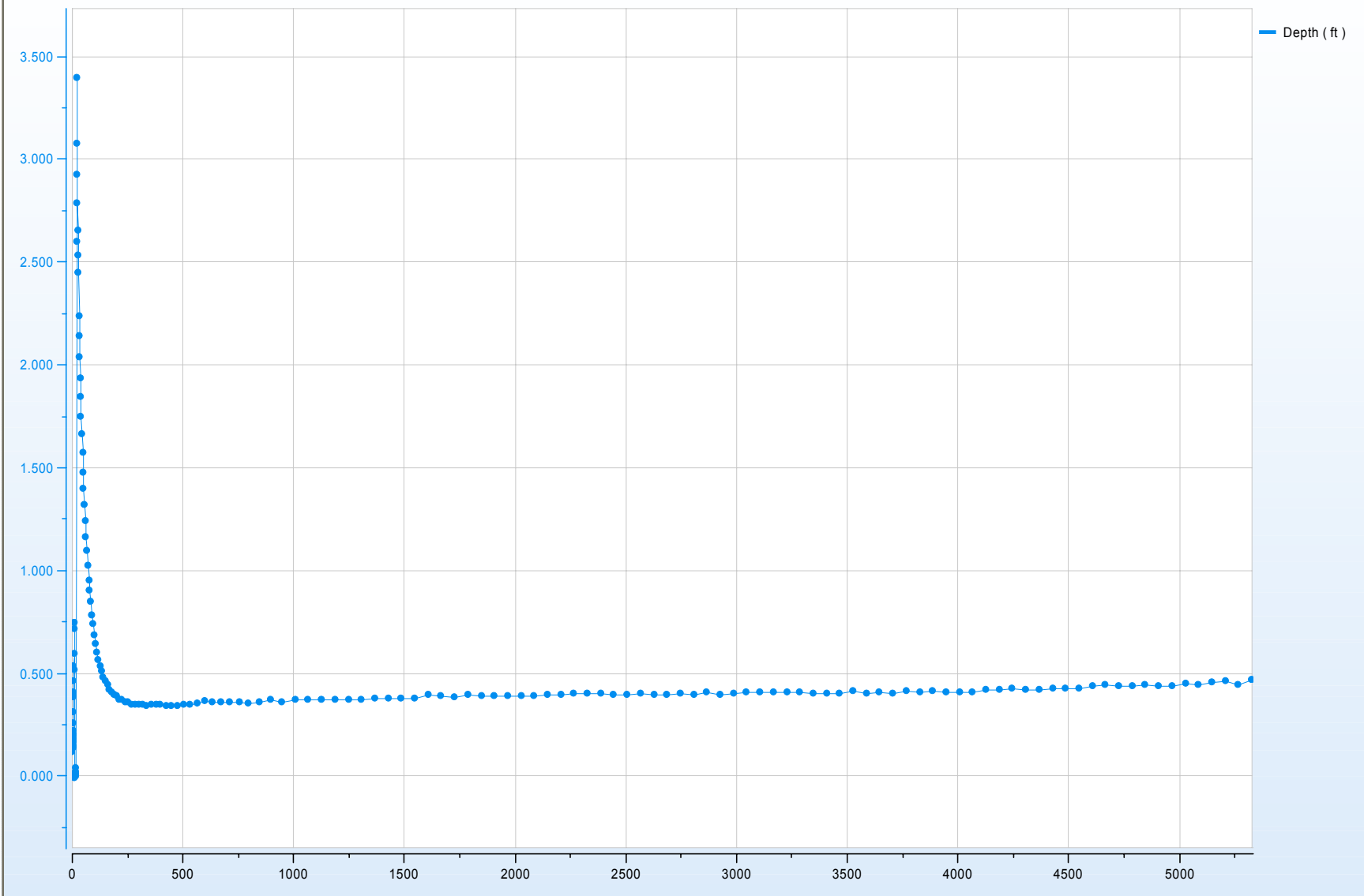
OW-205B RISING HEAD 2006-07-05 11-12-35



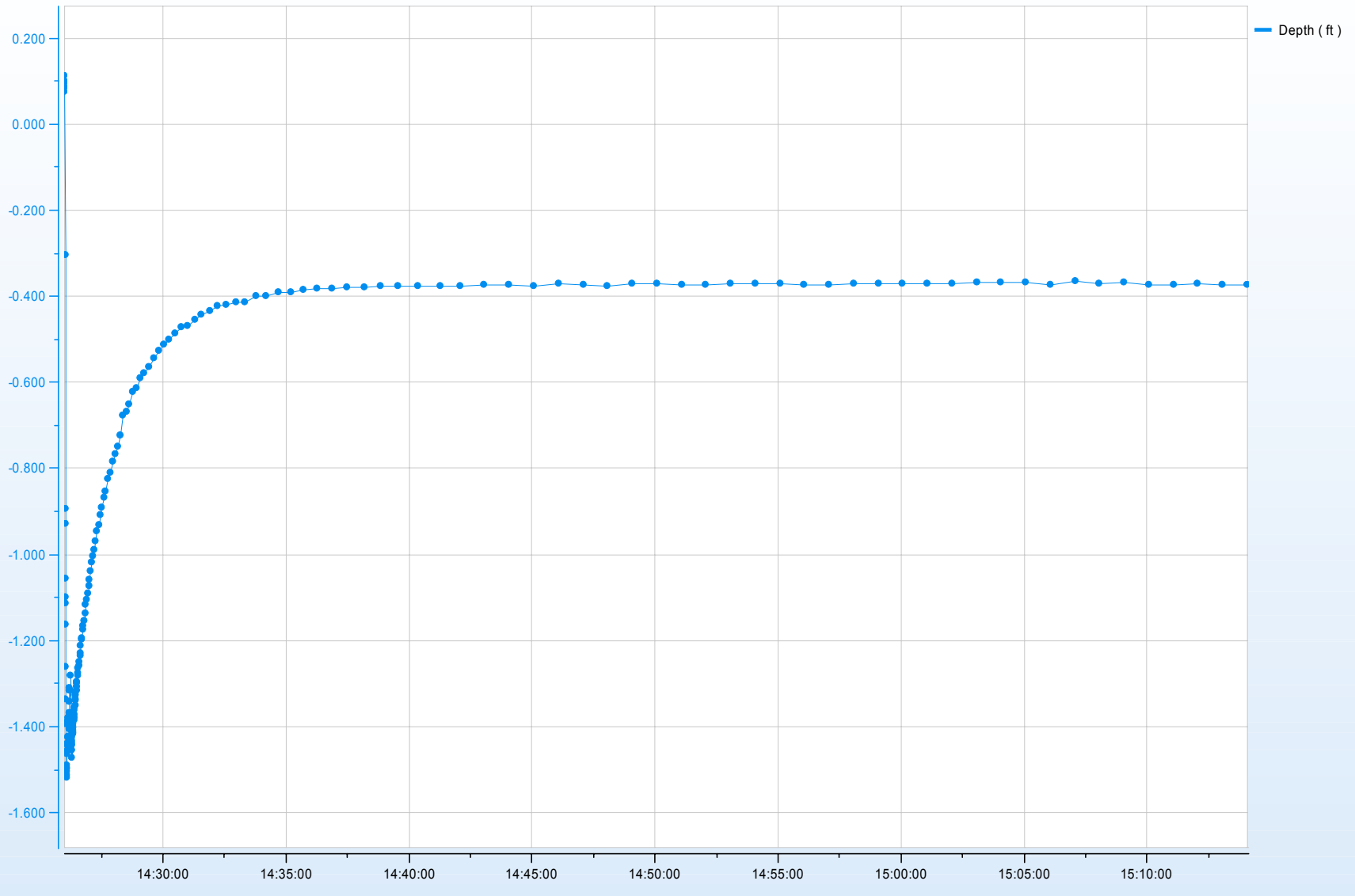
OW-212 BACKGROUND 2006-07-07 08-42-12



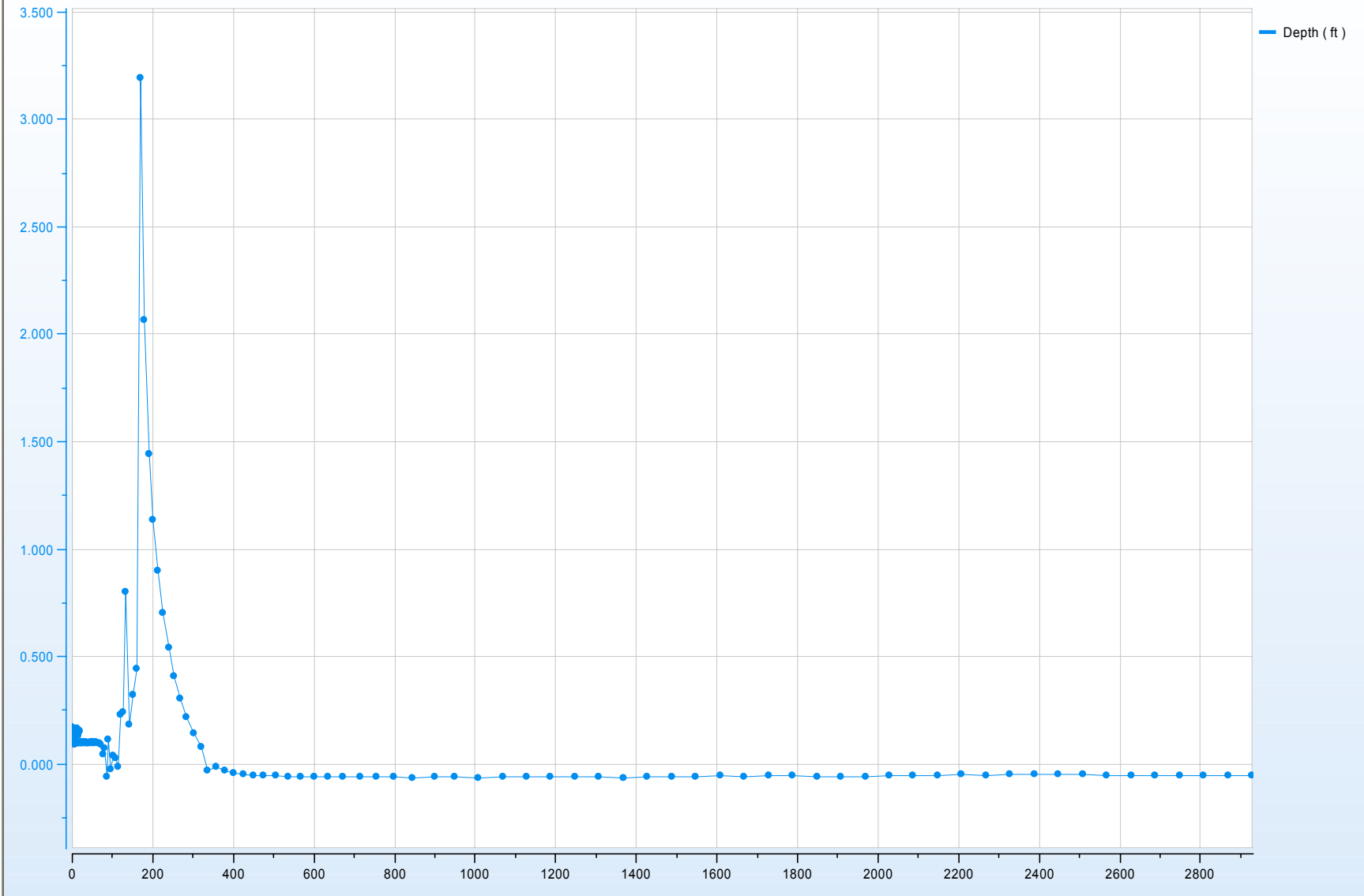
OW-212 FALLING HEAD 2006-07-07 10-19-40



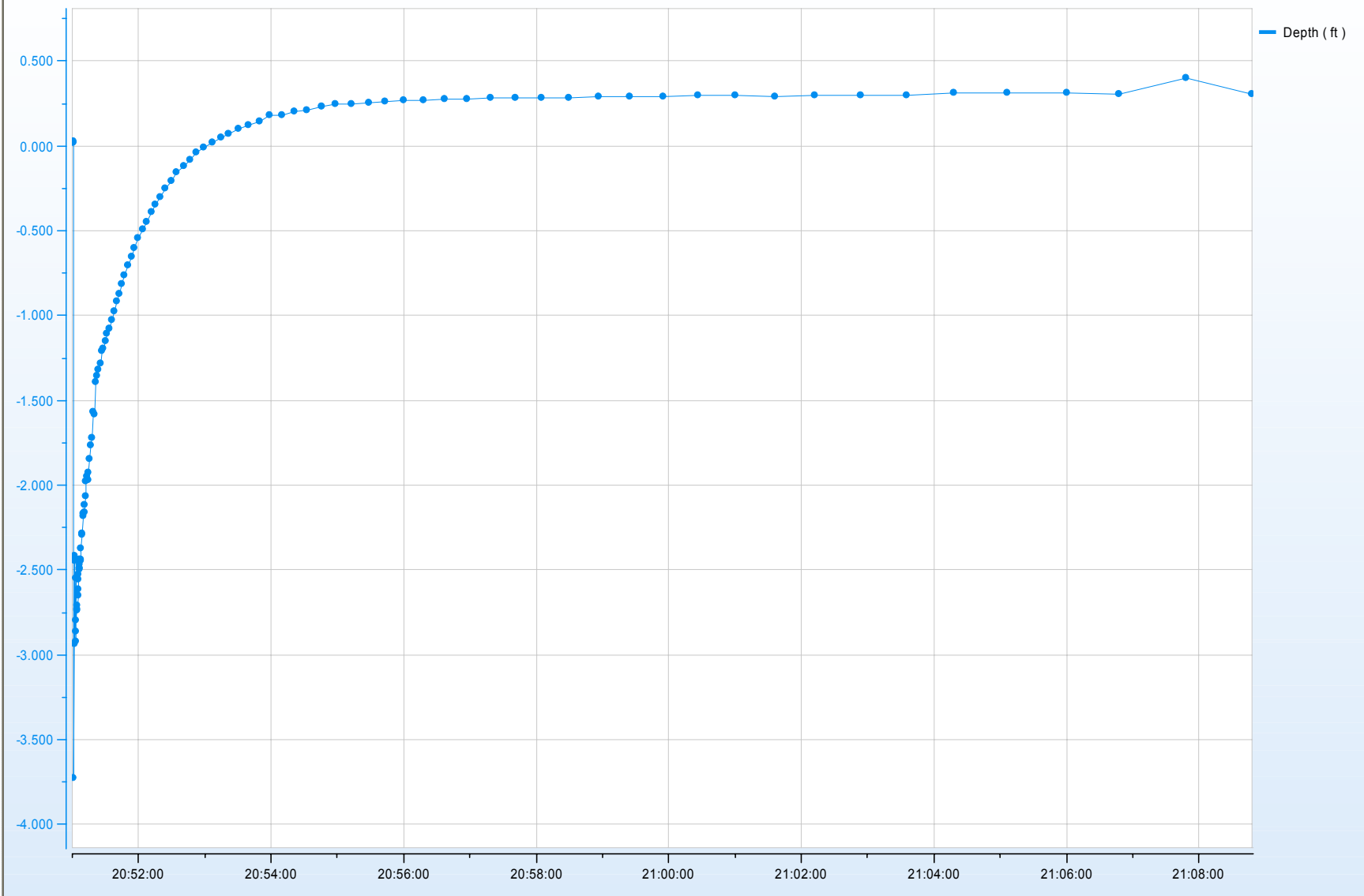
OW-212 RISING HEAD 2006-07-07 11-14-26



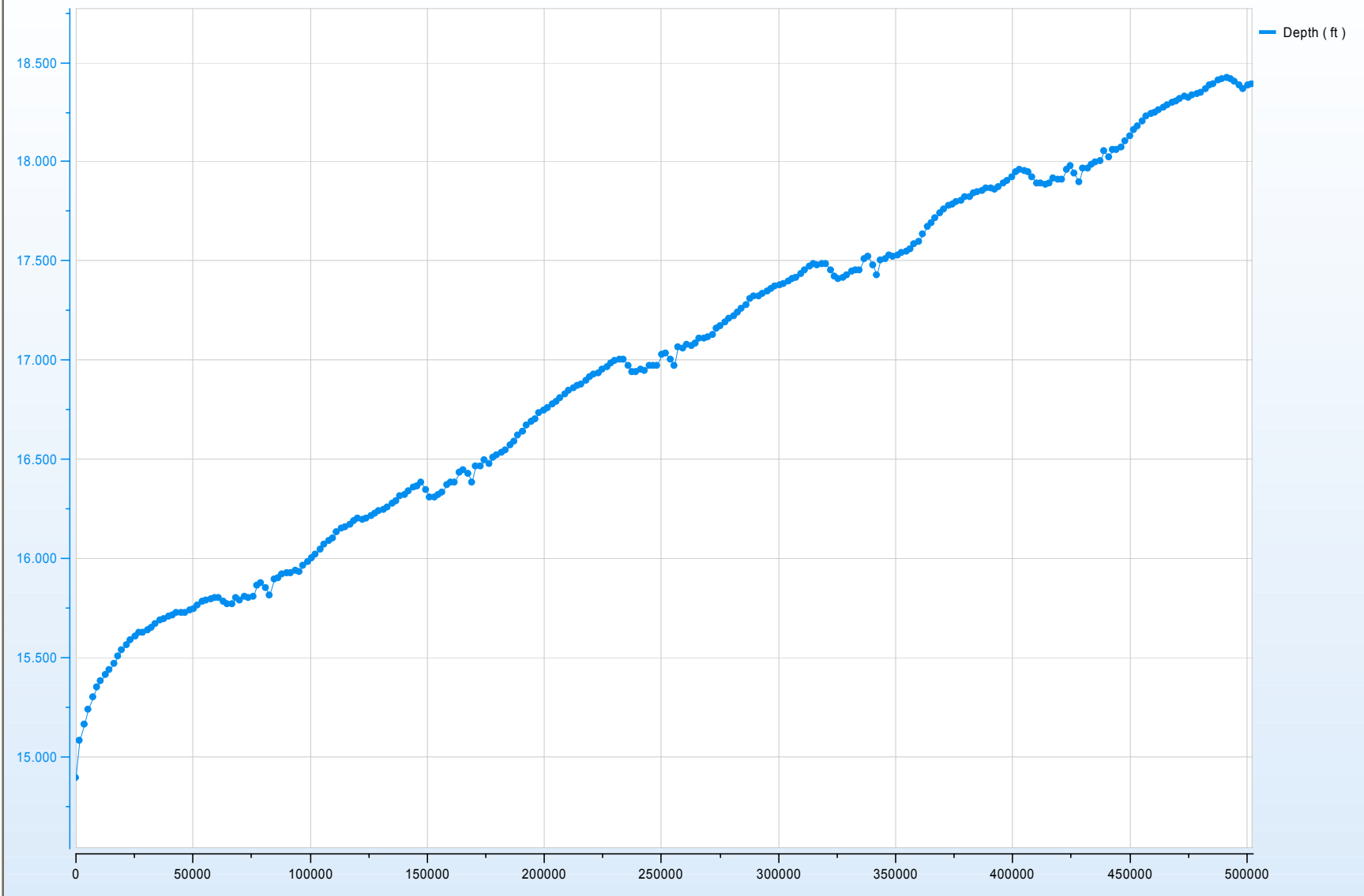
OW-213 BACKGROUND 2006-07-06 16-46-04



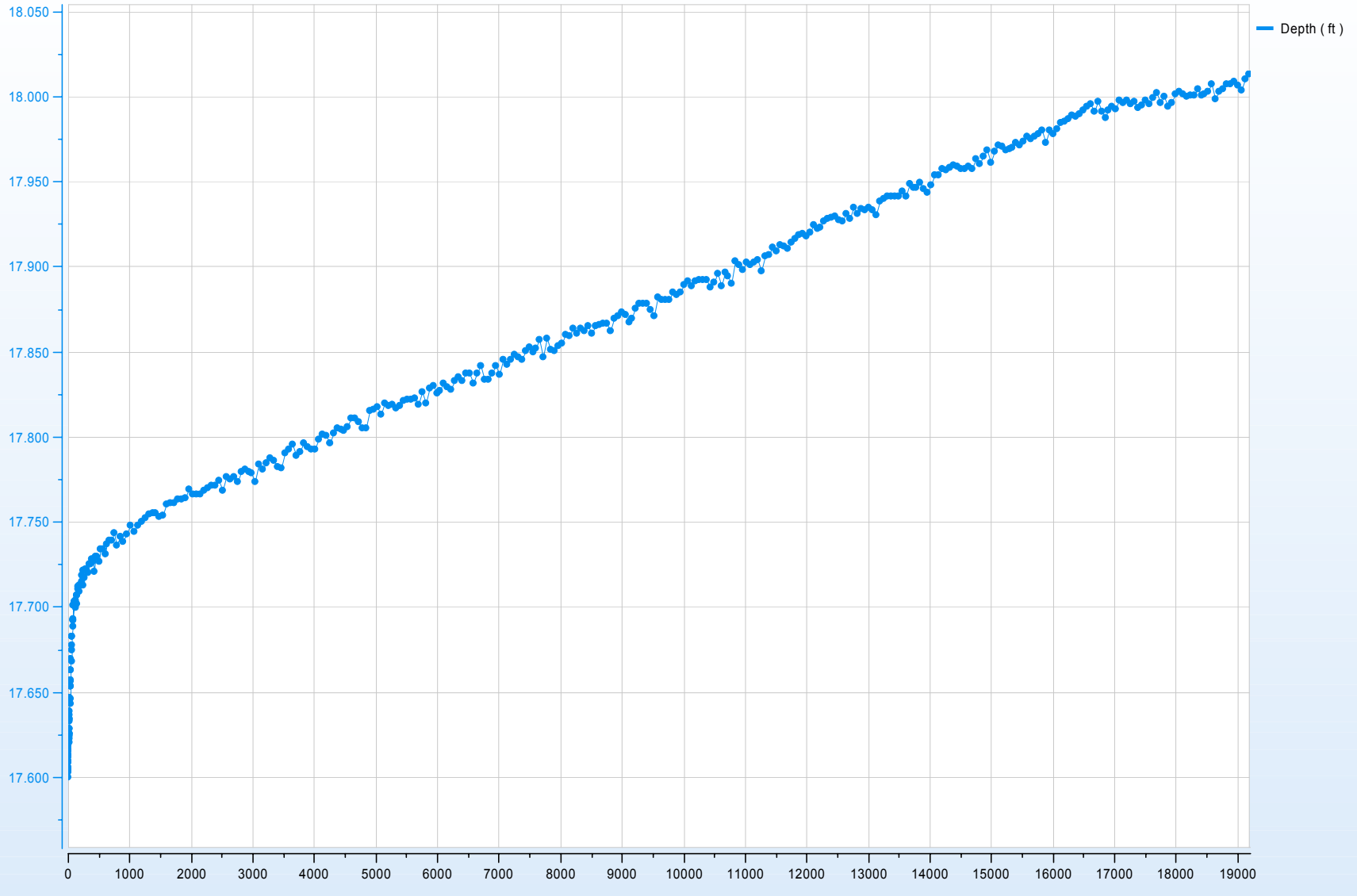
OW-213 RISING HEAD 2006-07-06 17-09-35



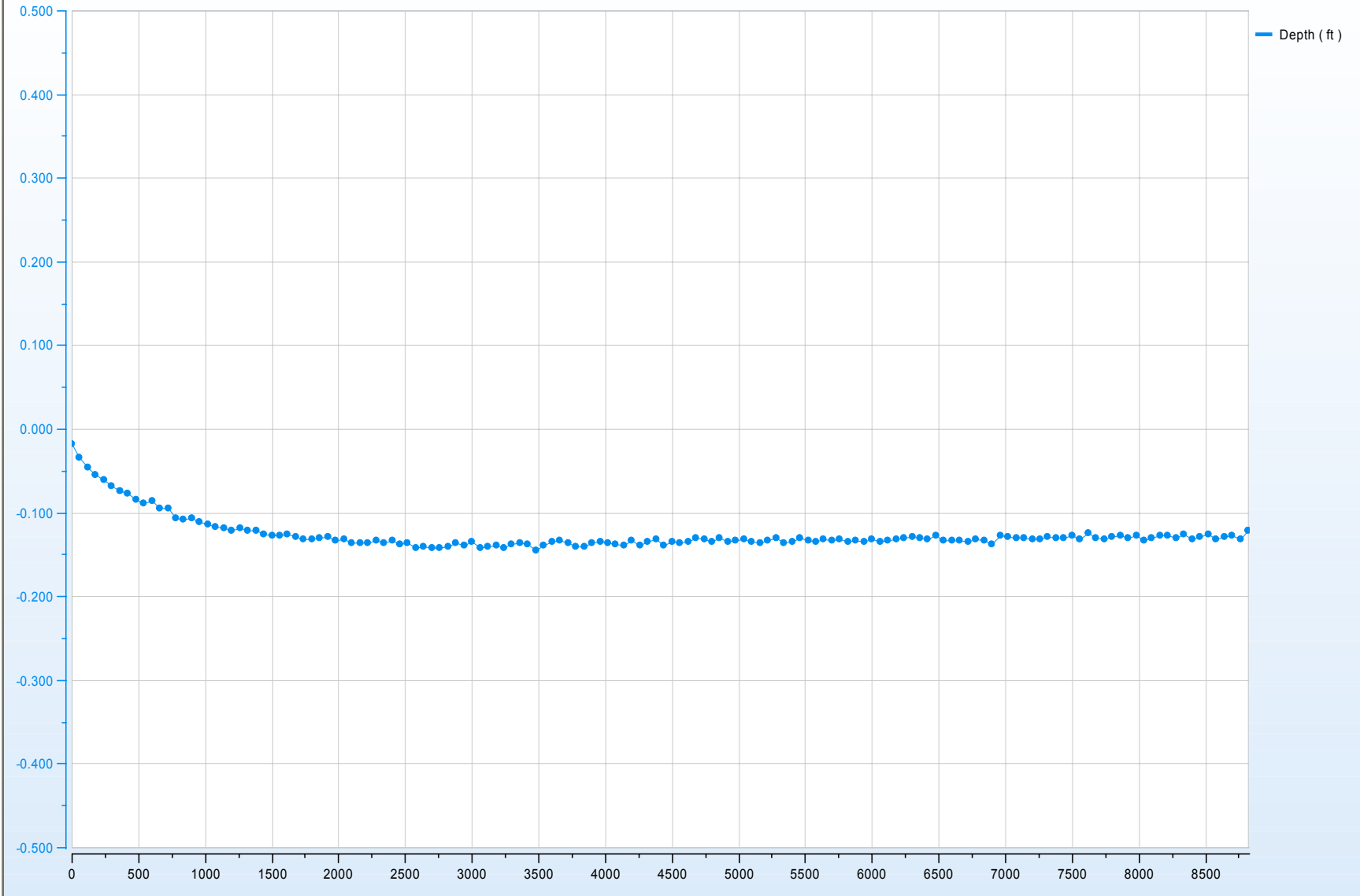
OW-233 BACKGROUND 2006-07-04 10-53-48



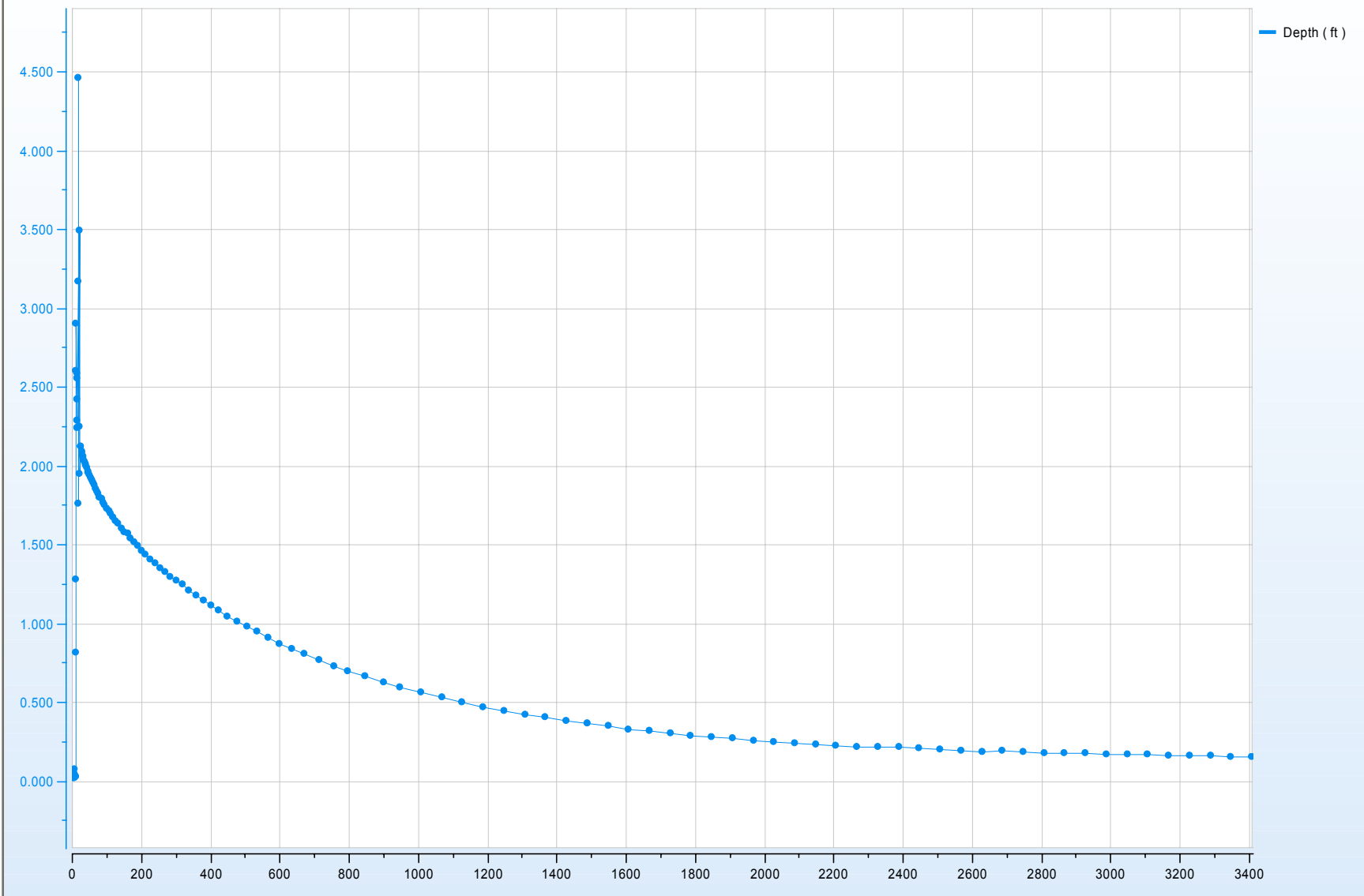
OW-233 RISING HEAD 2006-07-04 16-28-49



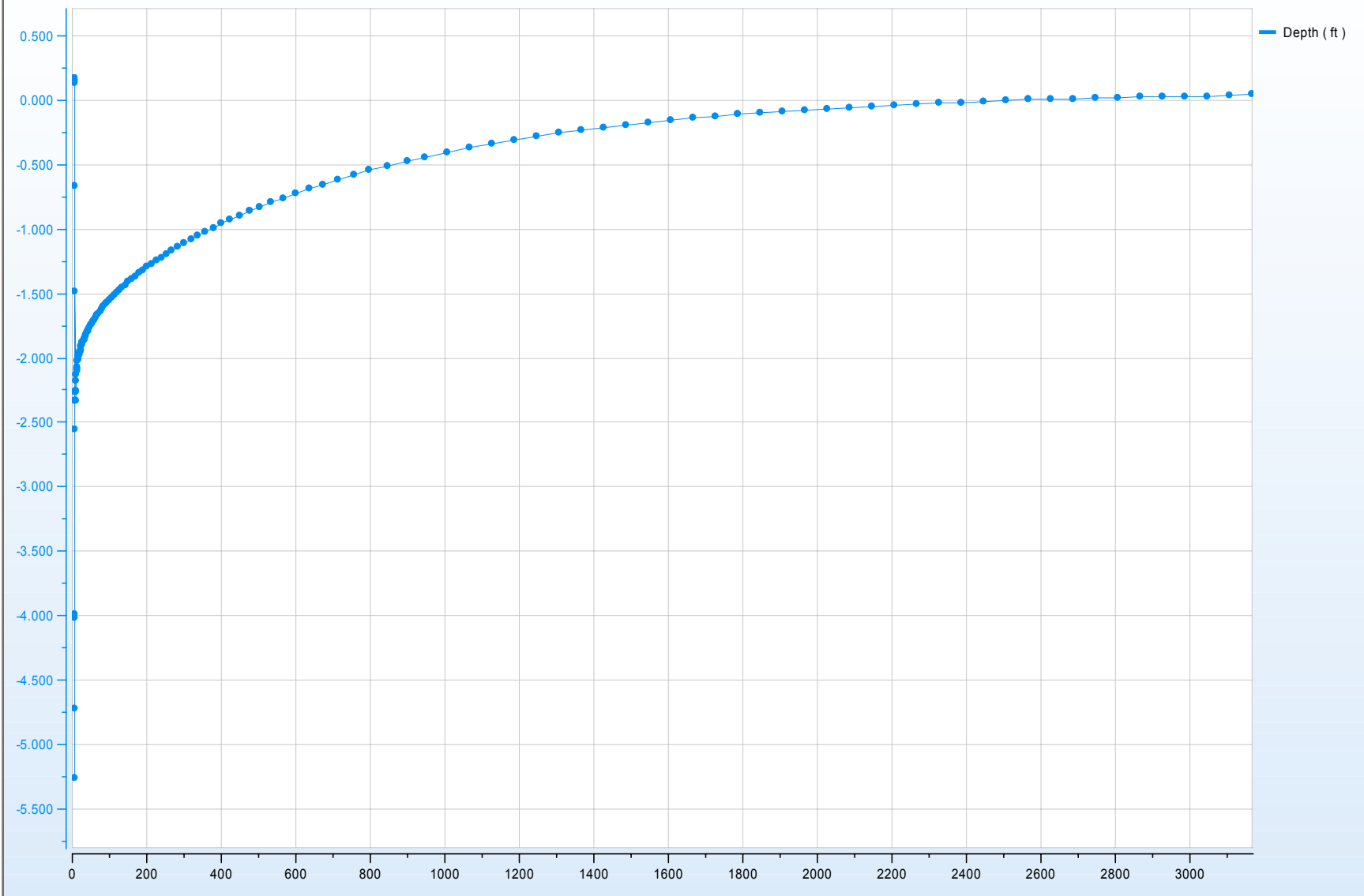
OW-227 BACKGROUN 2006-07-04 13-48-59



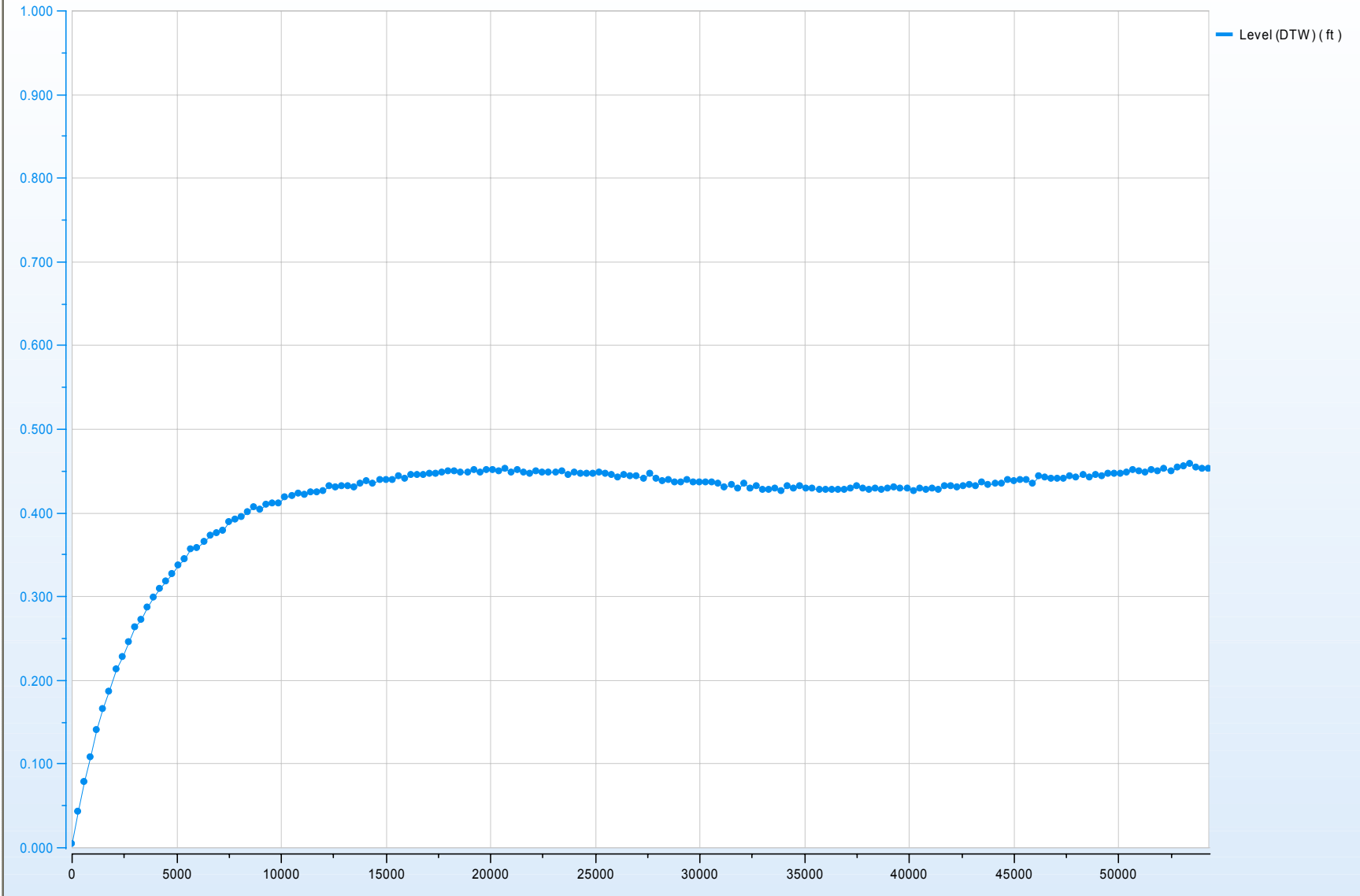
OW-227 FALLING HEAD 2006-07-04 14-57-43



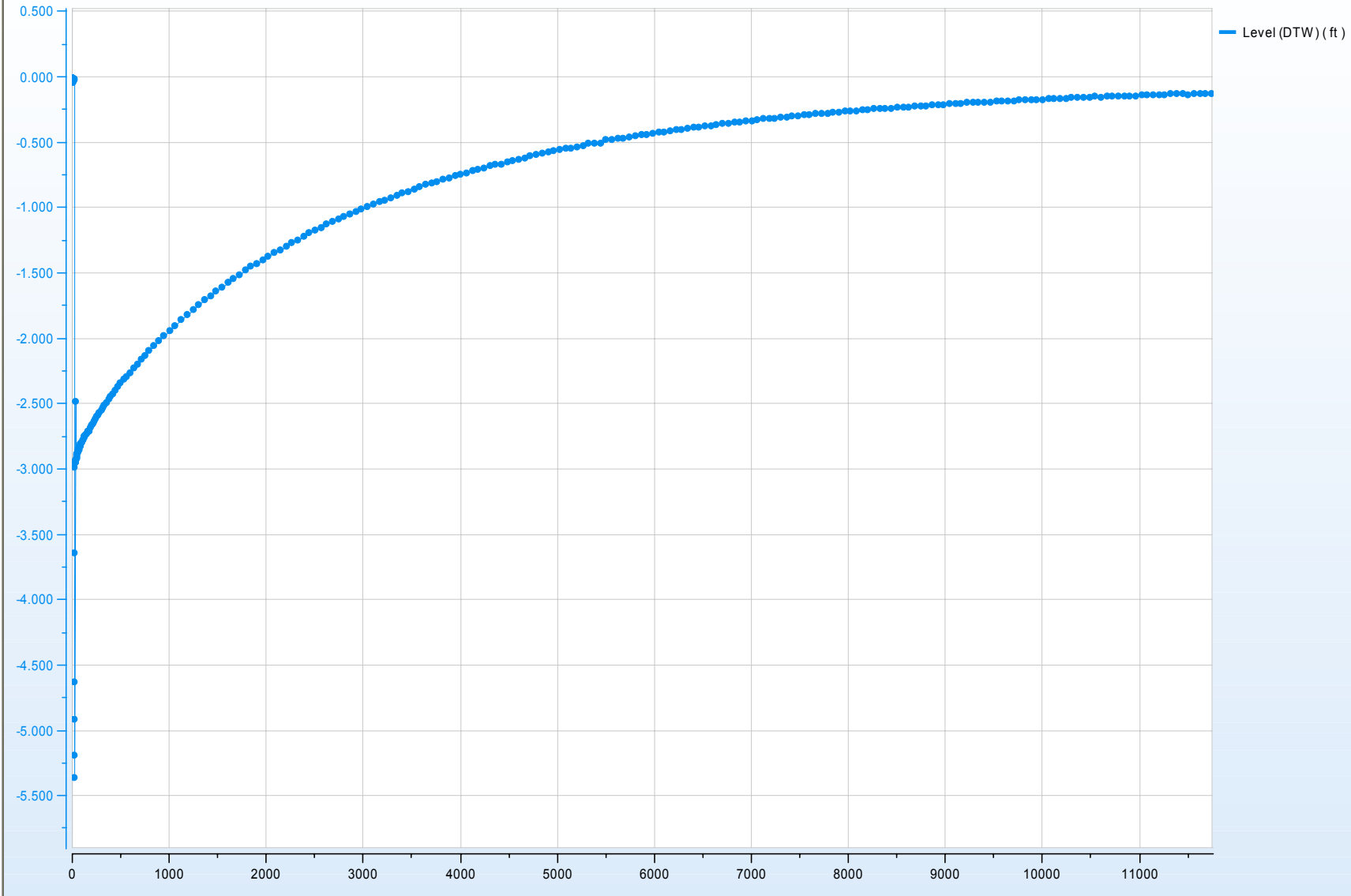
OW-227 RISING HEAD 2006-07-04 15-56-11



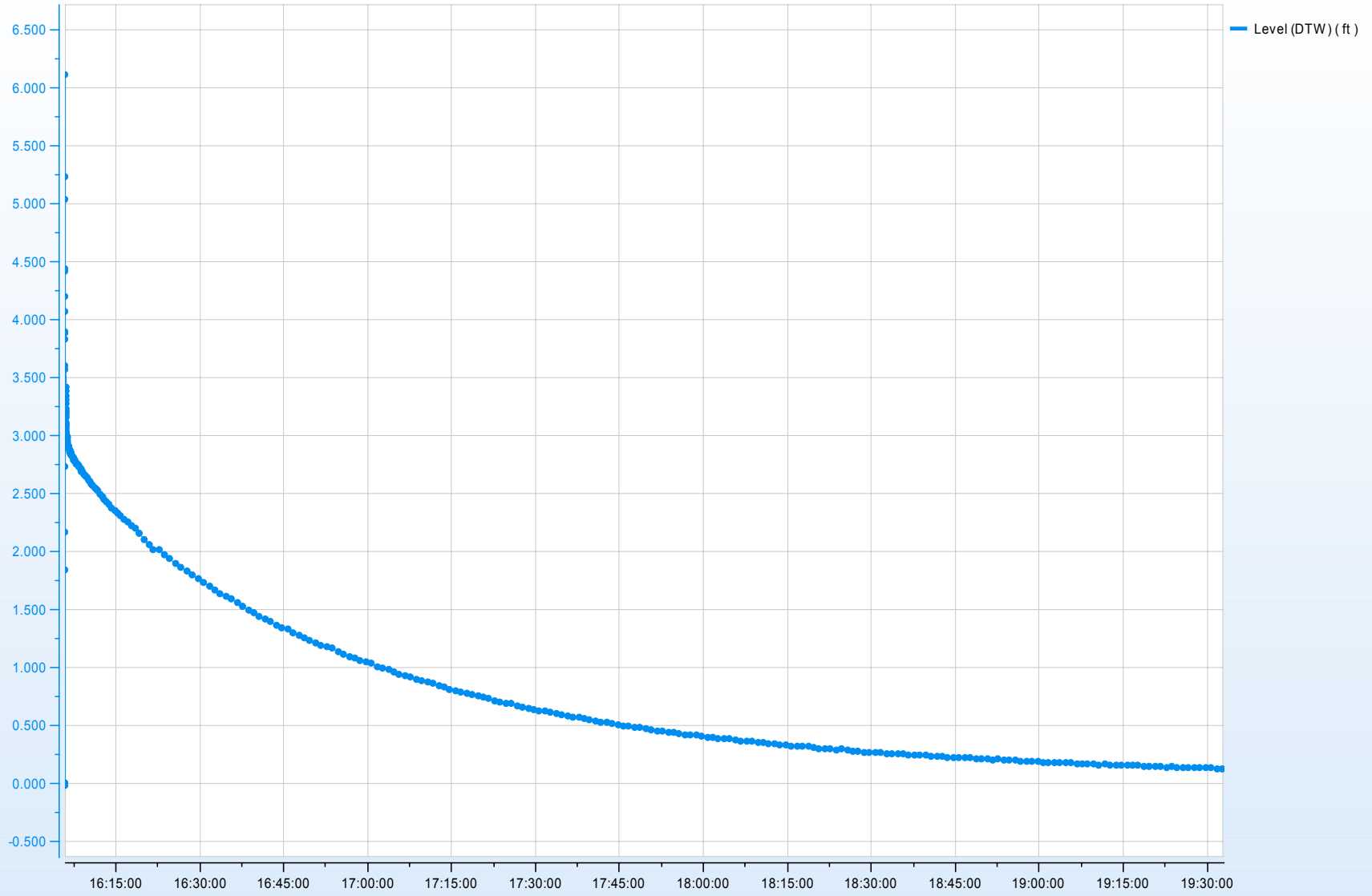
OW-305A BACKGROUND 2006-07-08 08-39-22



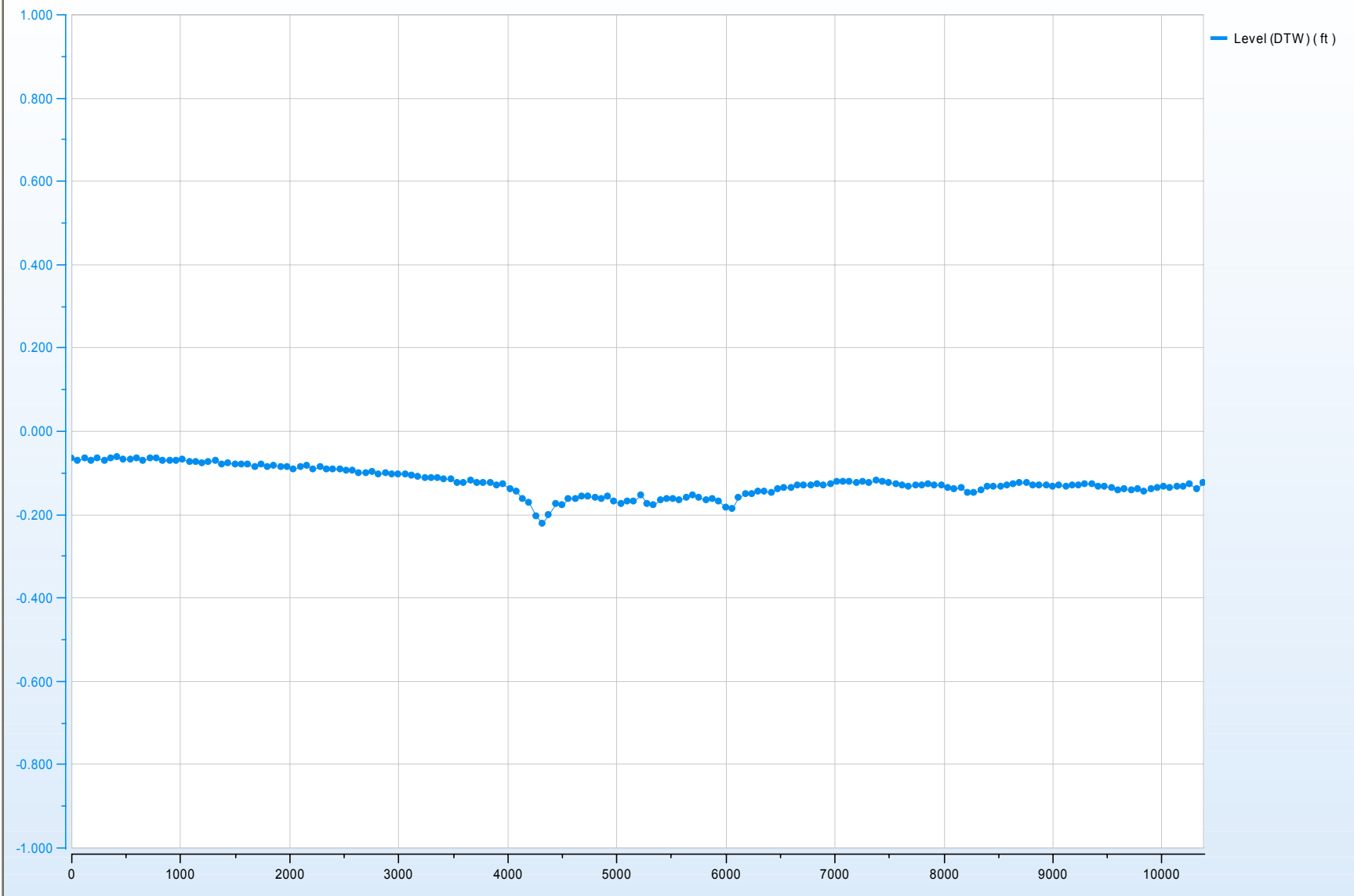
OW-305A FALLING HEAD 2006-07-08 12-01-20



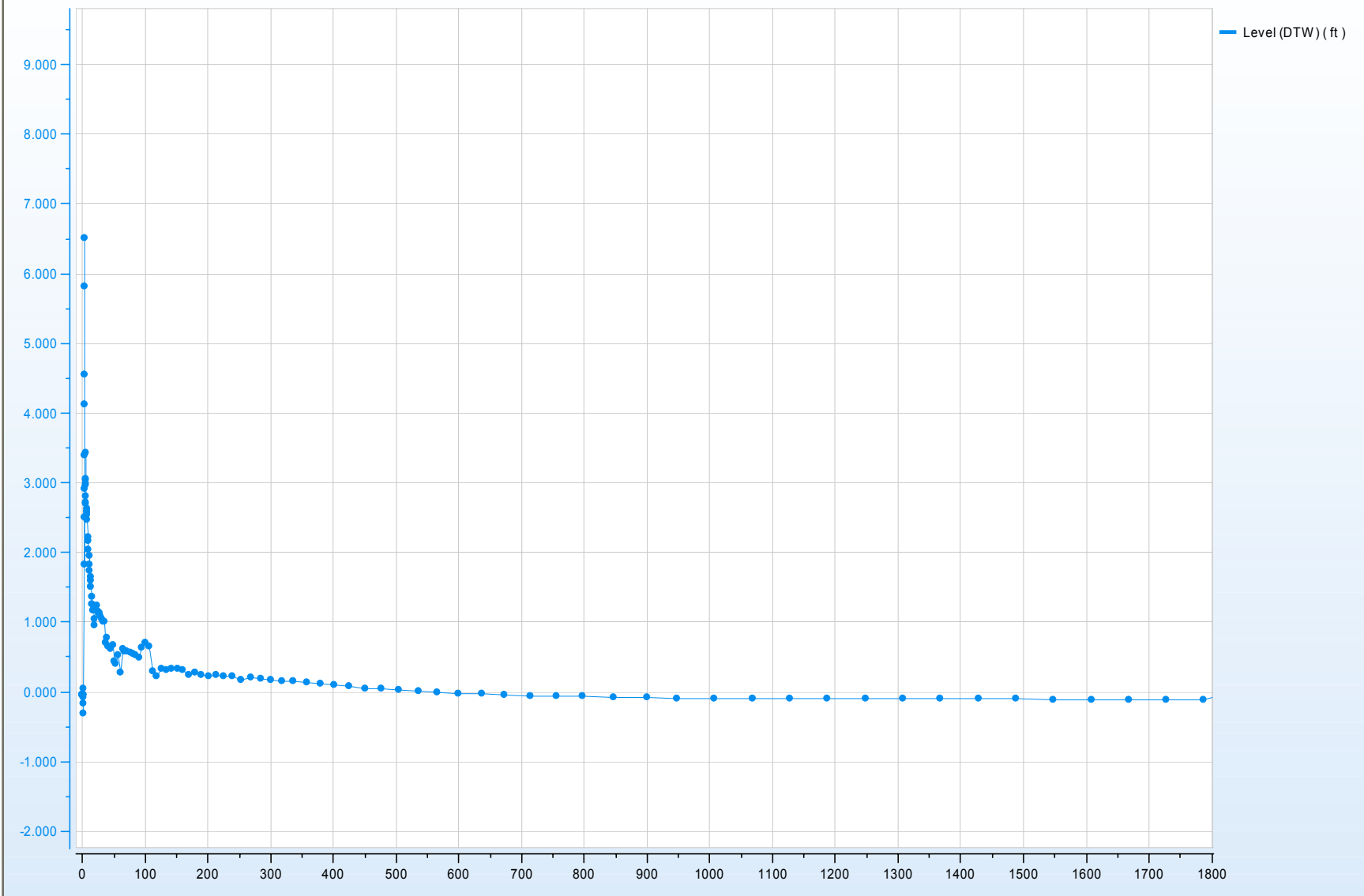
OW-305A RISING HEAD 2006-07-08 15-33-08



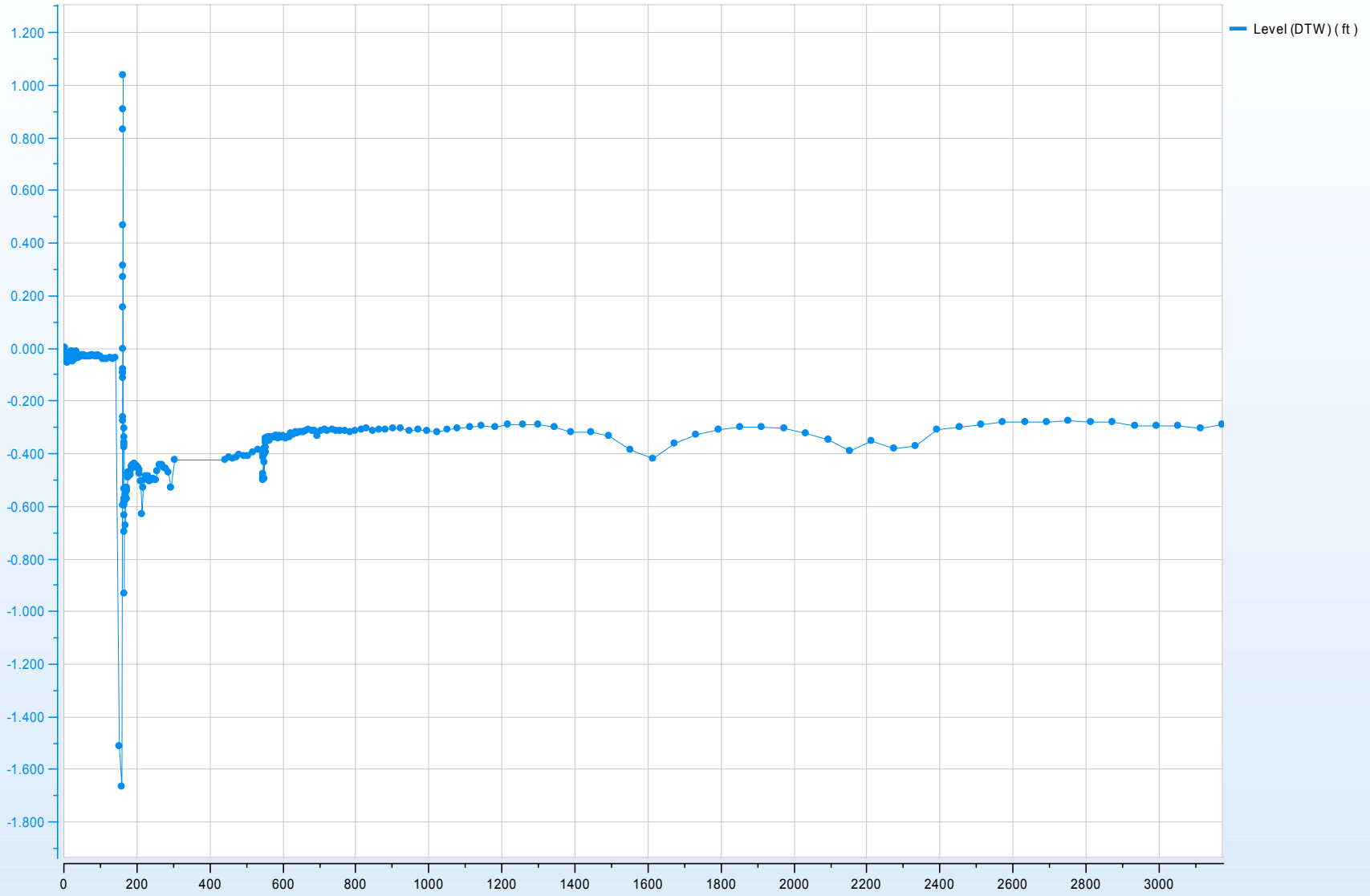
OW-305B BACKGROUND 2006-07-07 17-04-03



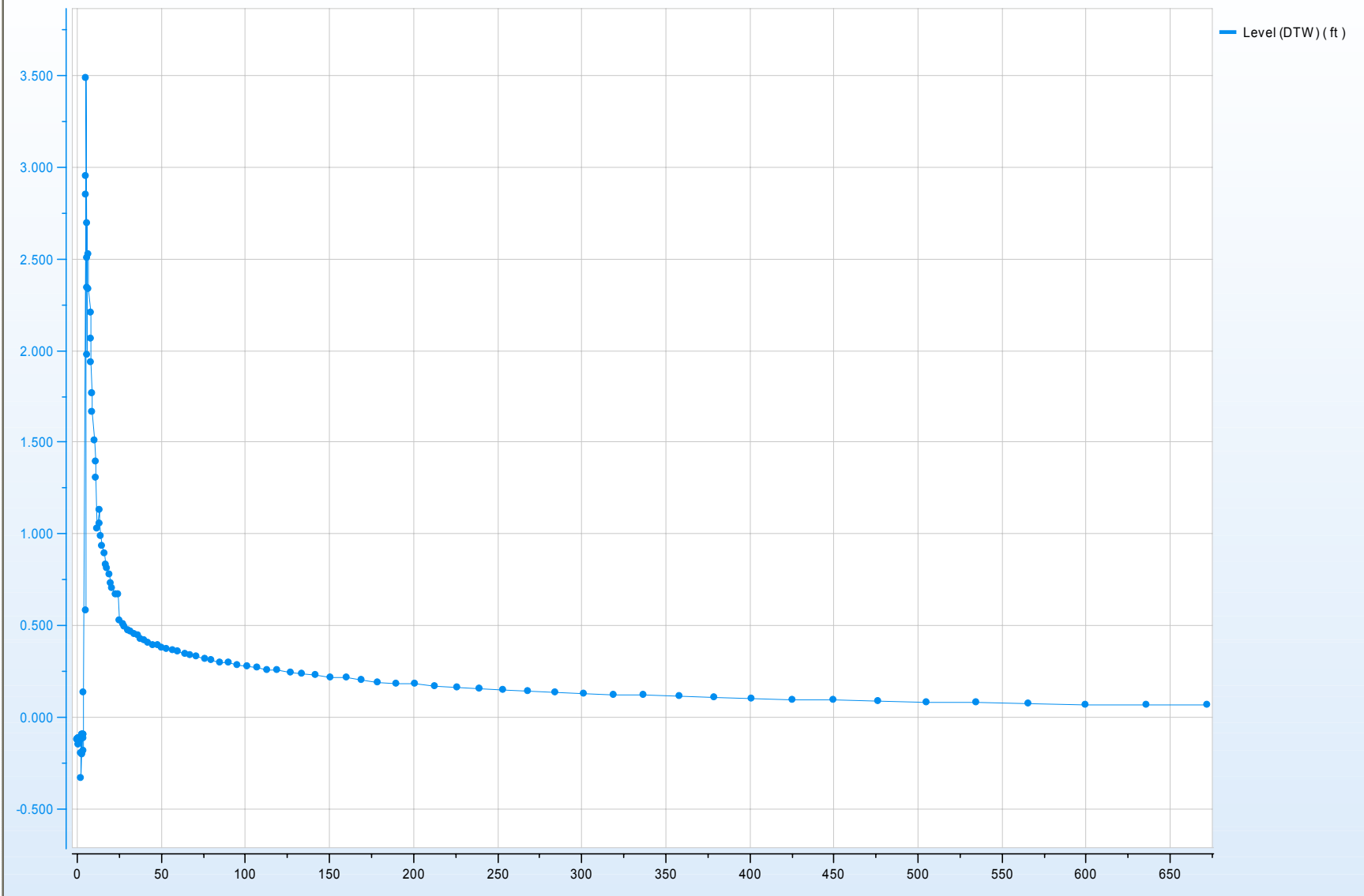
OW-305B RISING HEAD 2006-07-08 08-35-29



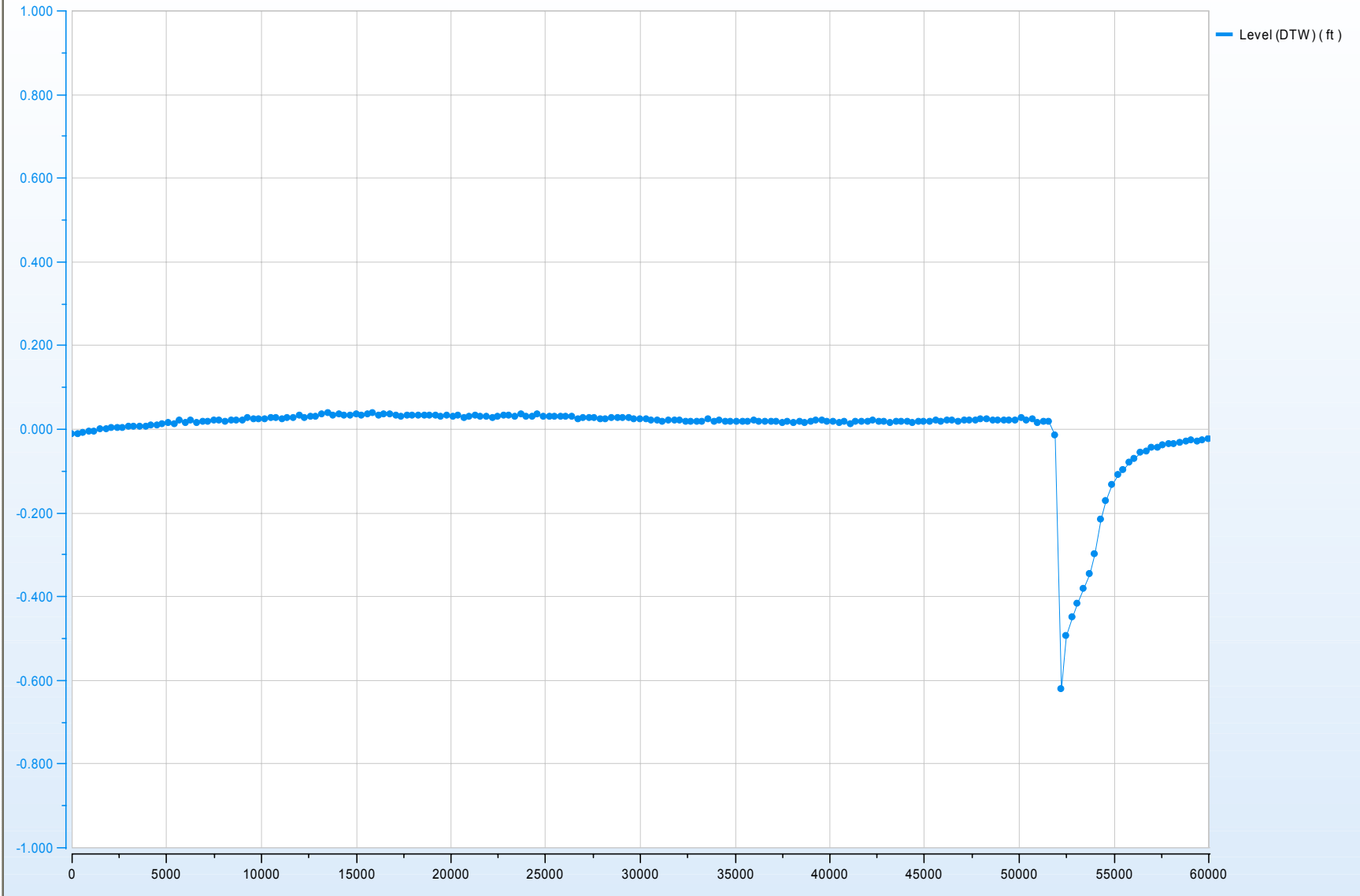
OW-313 BACKGROUND 2006-07-08 16-11-13



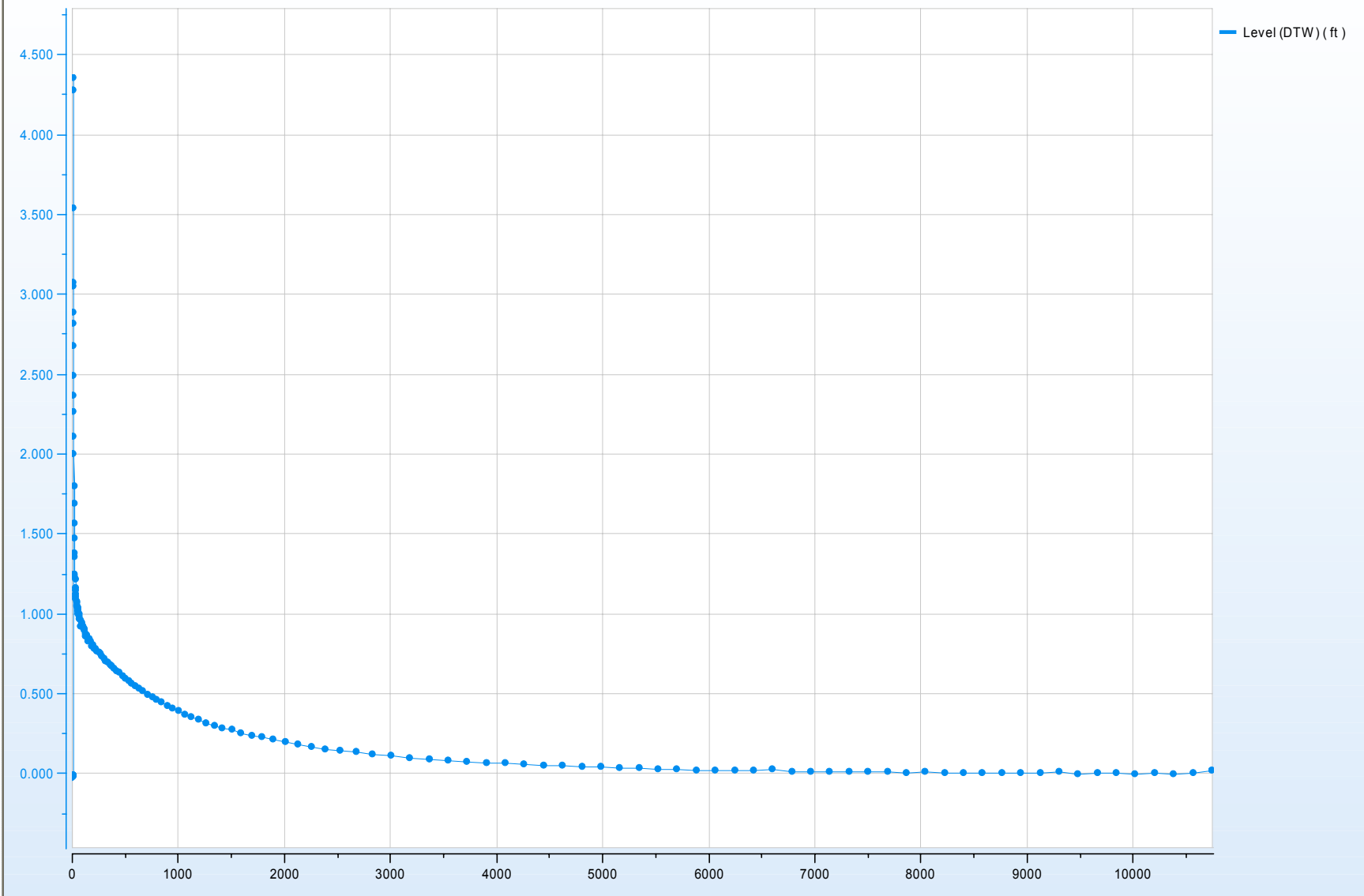
OW-313 RISING HEAD 2006-07-08 16-26-48



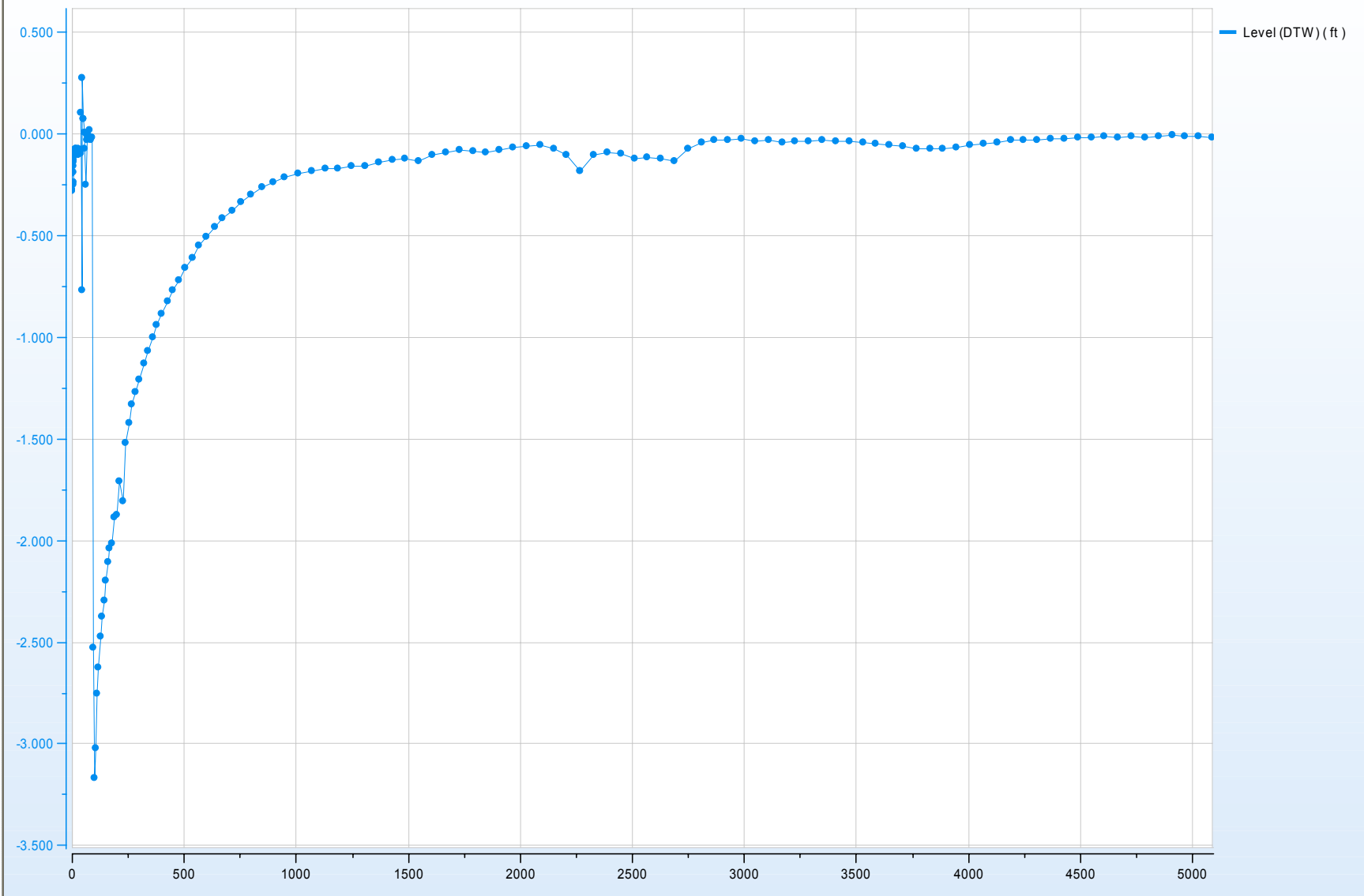
OW-333 BACKGROUND 2006-07-11 11-04-17



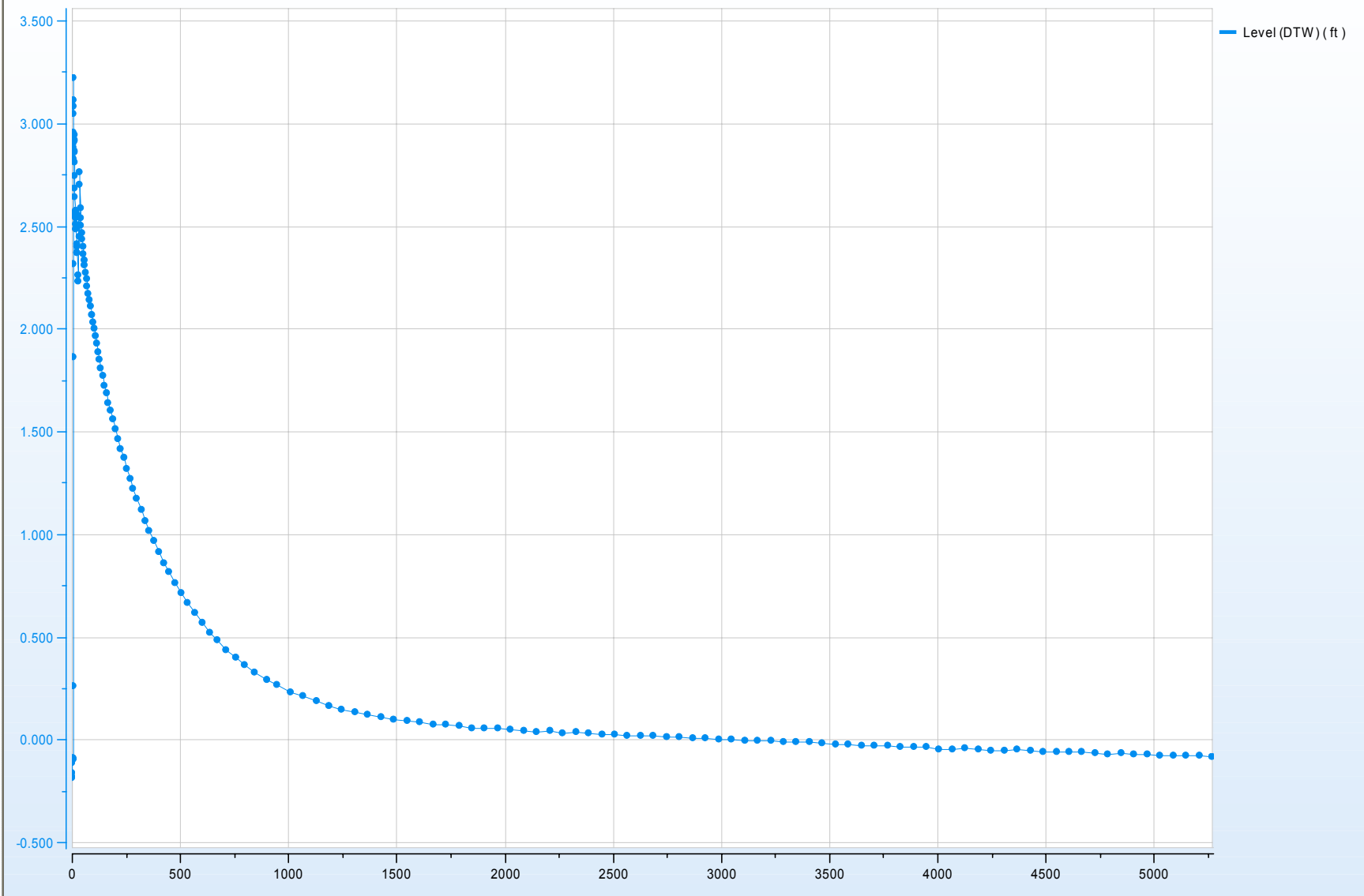
OW-333 RISING HEAD 2006-07-11 14-20-04



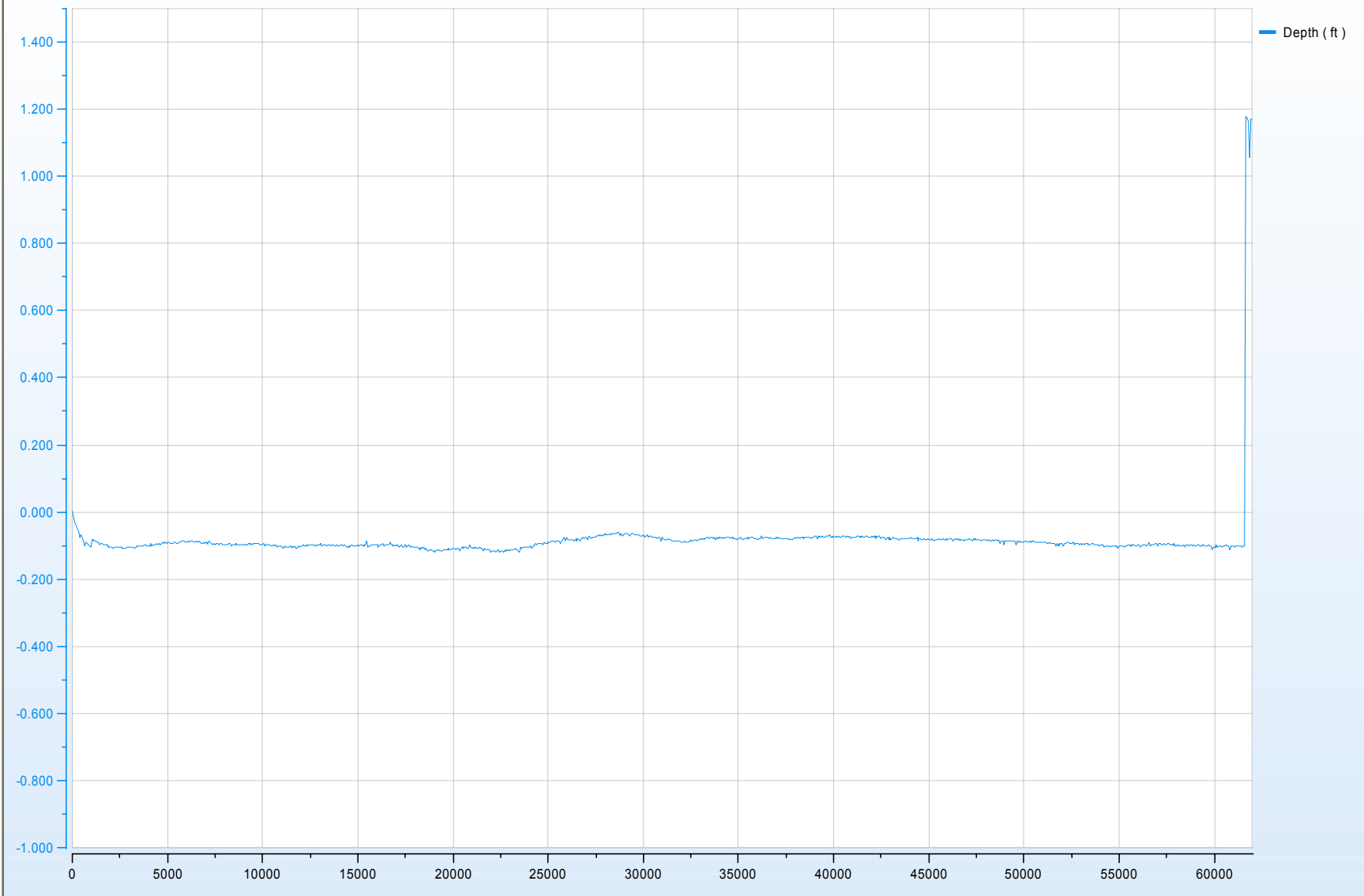
OW-327 BACKGROUND 2006-07-08 13-07-05



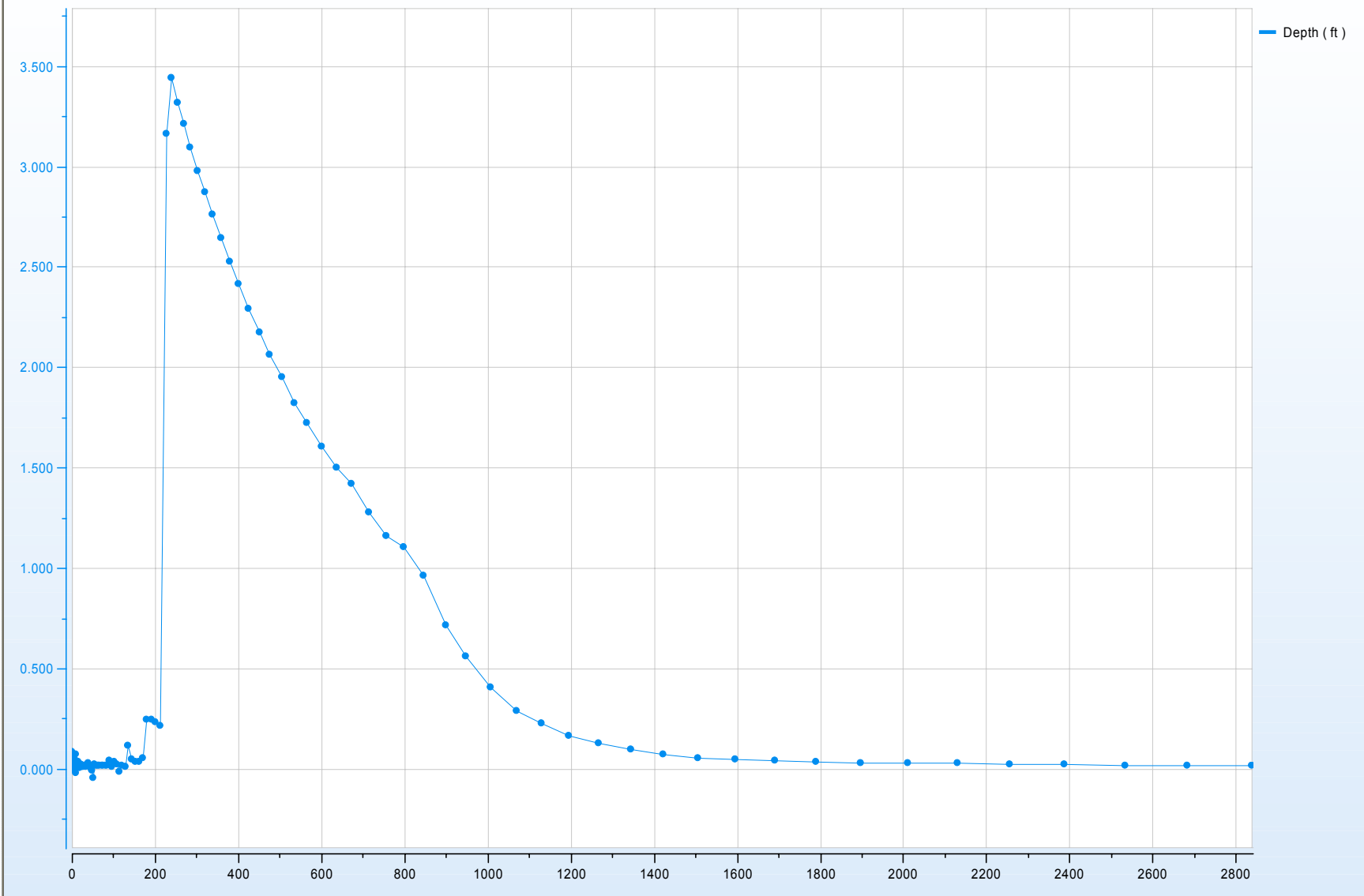
OW-327 RISING HEAD 2006-07-08 14-39-09



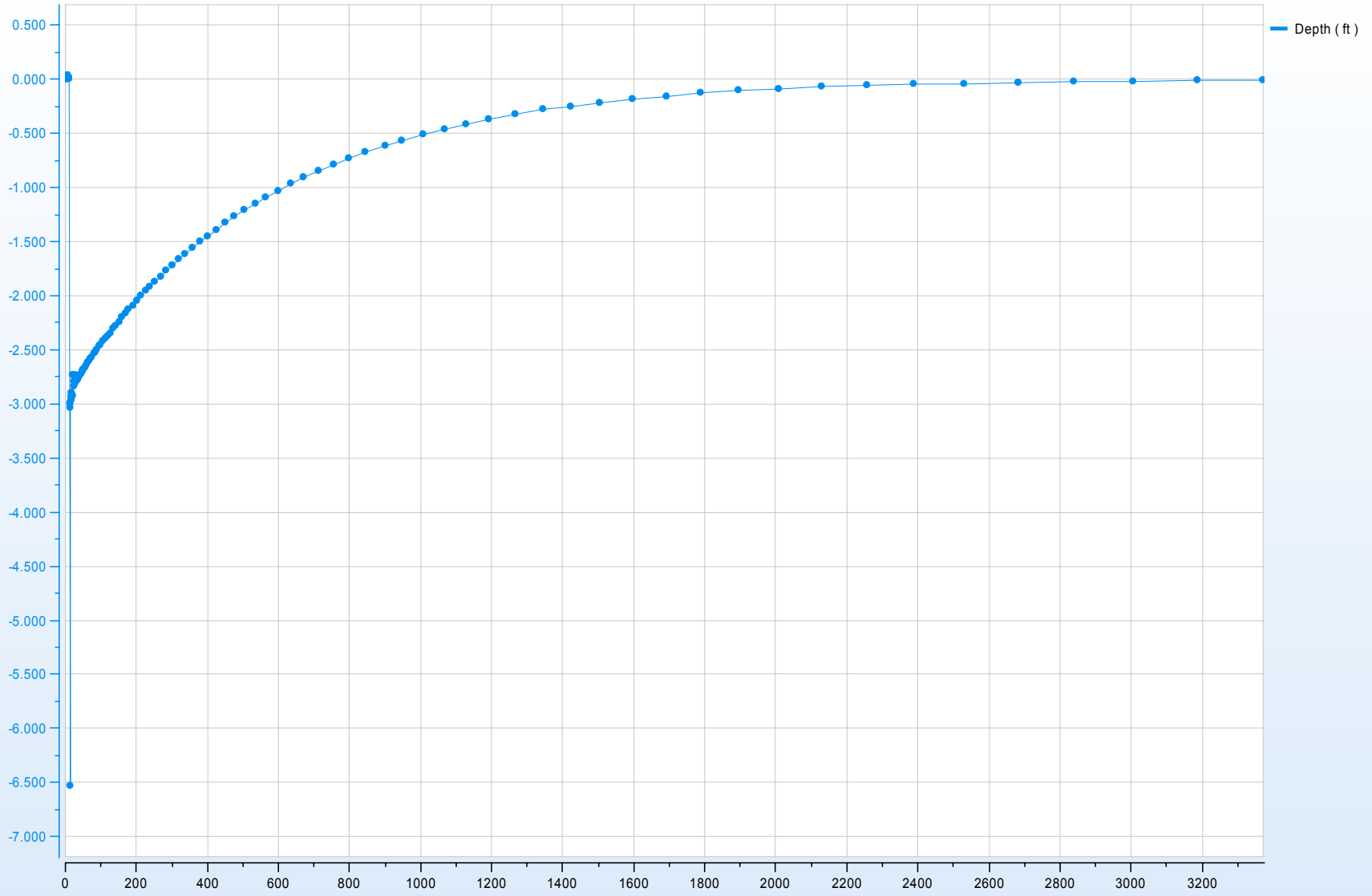
OW-401A BACKGROUND 2006-06-27 10-09-26



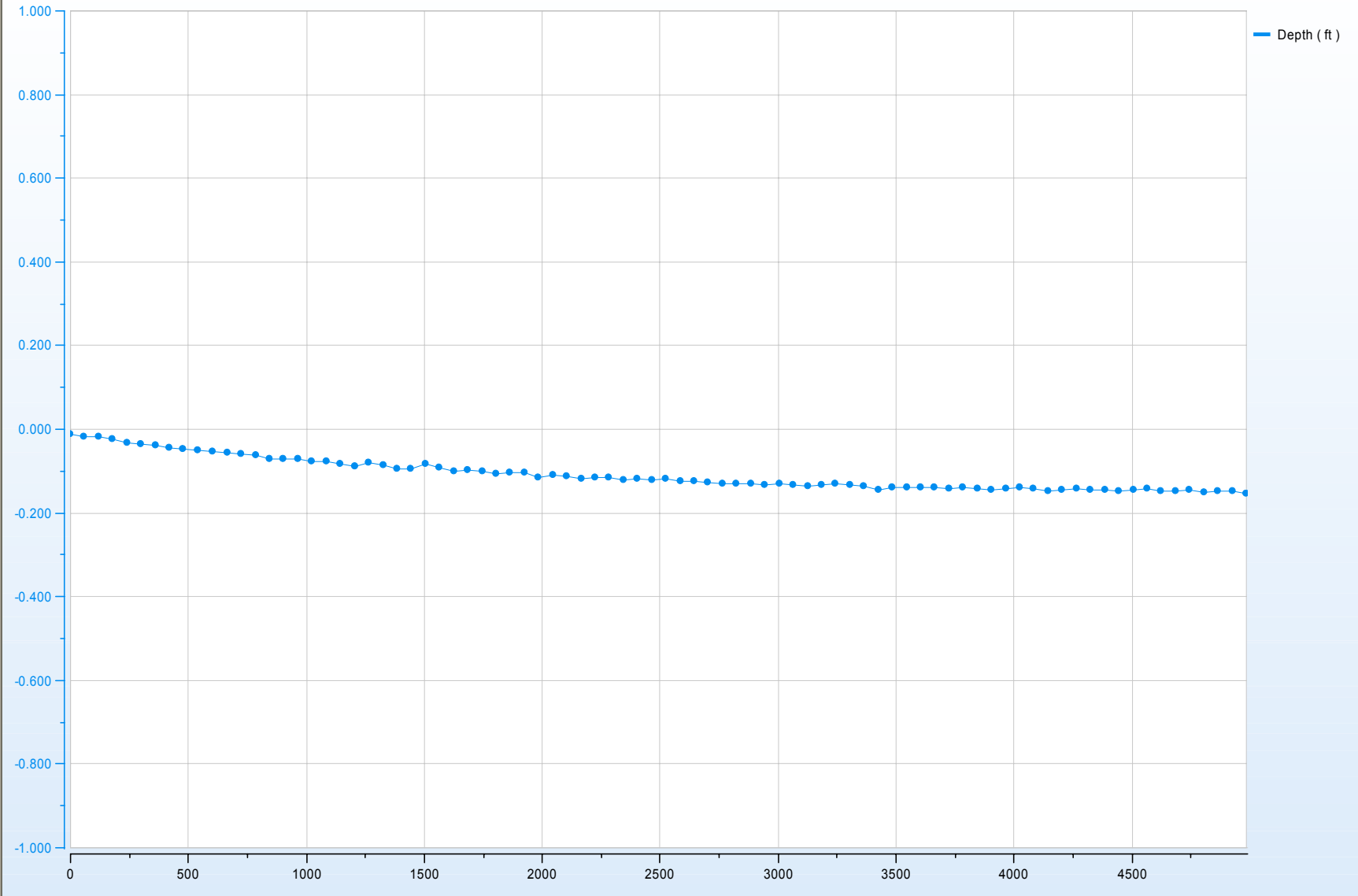
OW-401A FALLING HEAD 2006-06-27 12-05-43



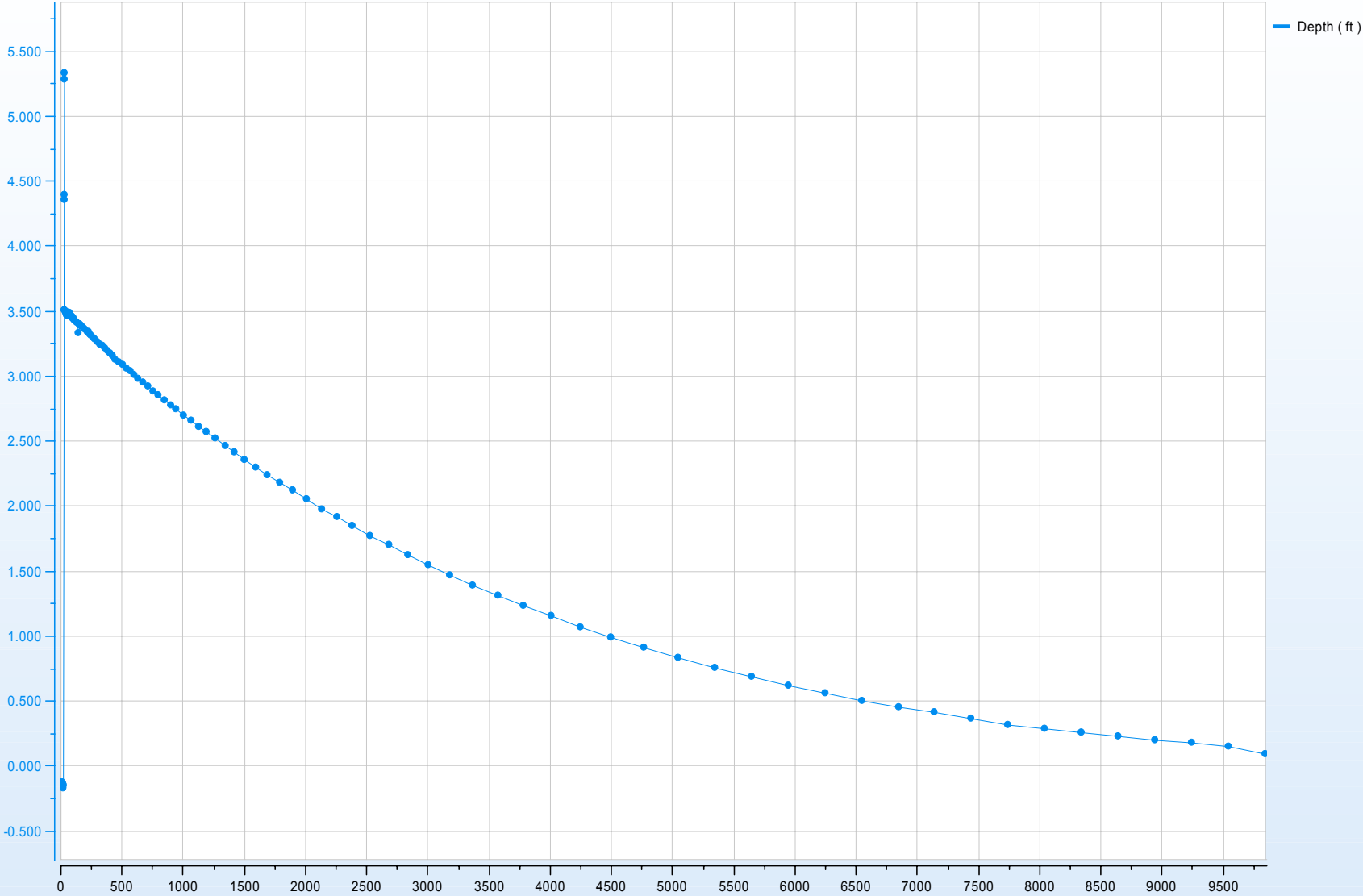
OW-401A RISING HEAD 2006-06-27 12-06-56



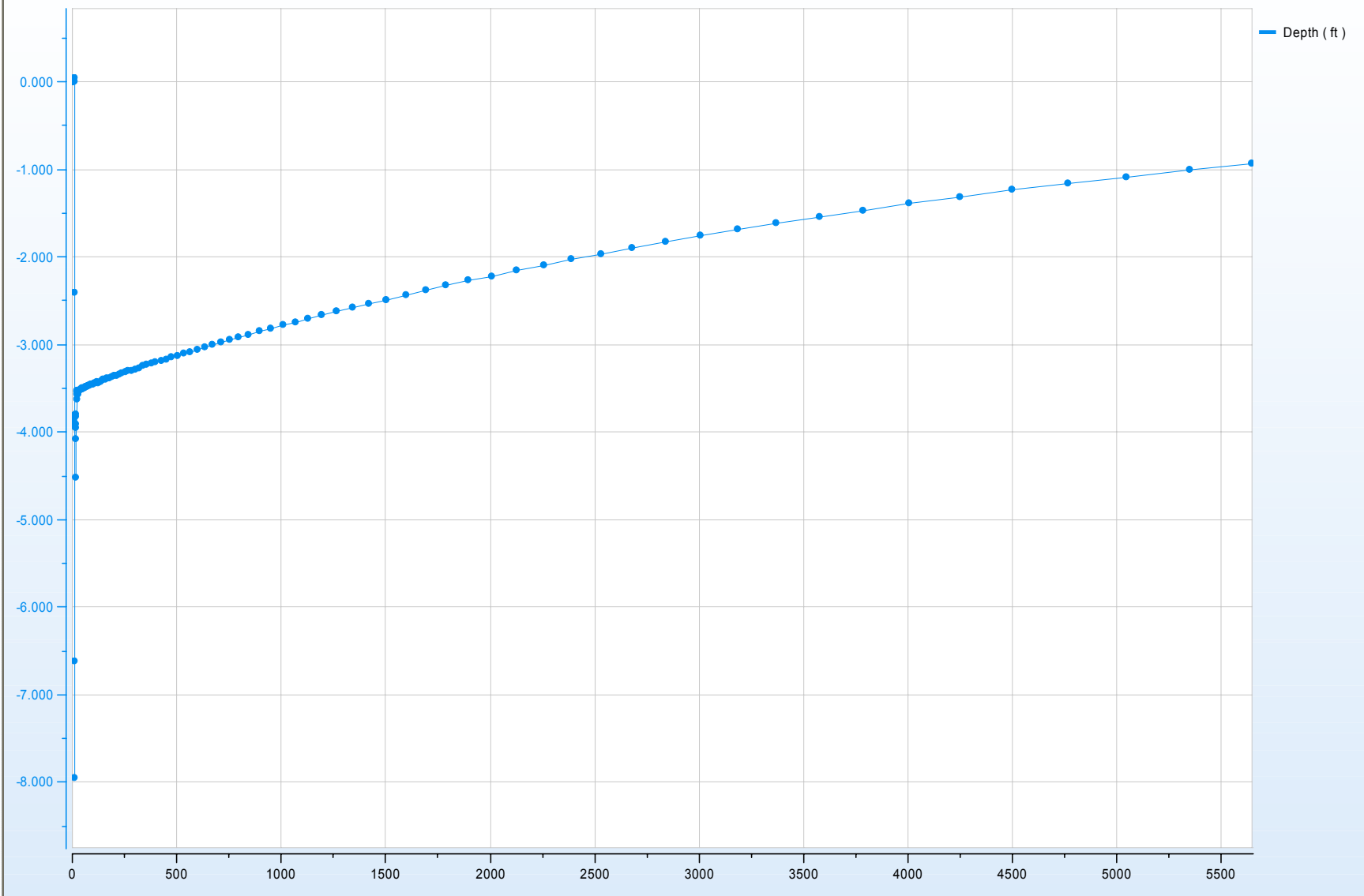
OW-401B BACKGROUND 2006-06-26 15-40-01



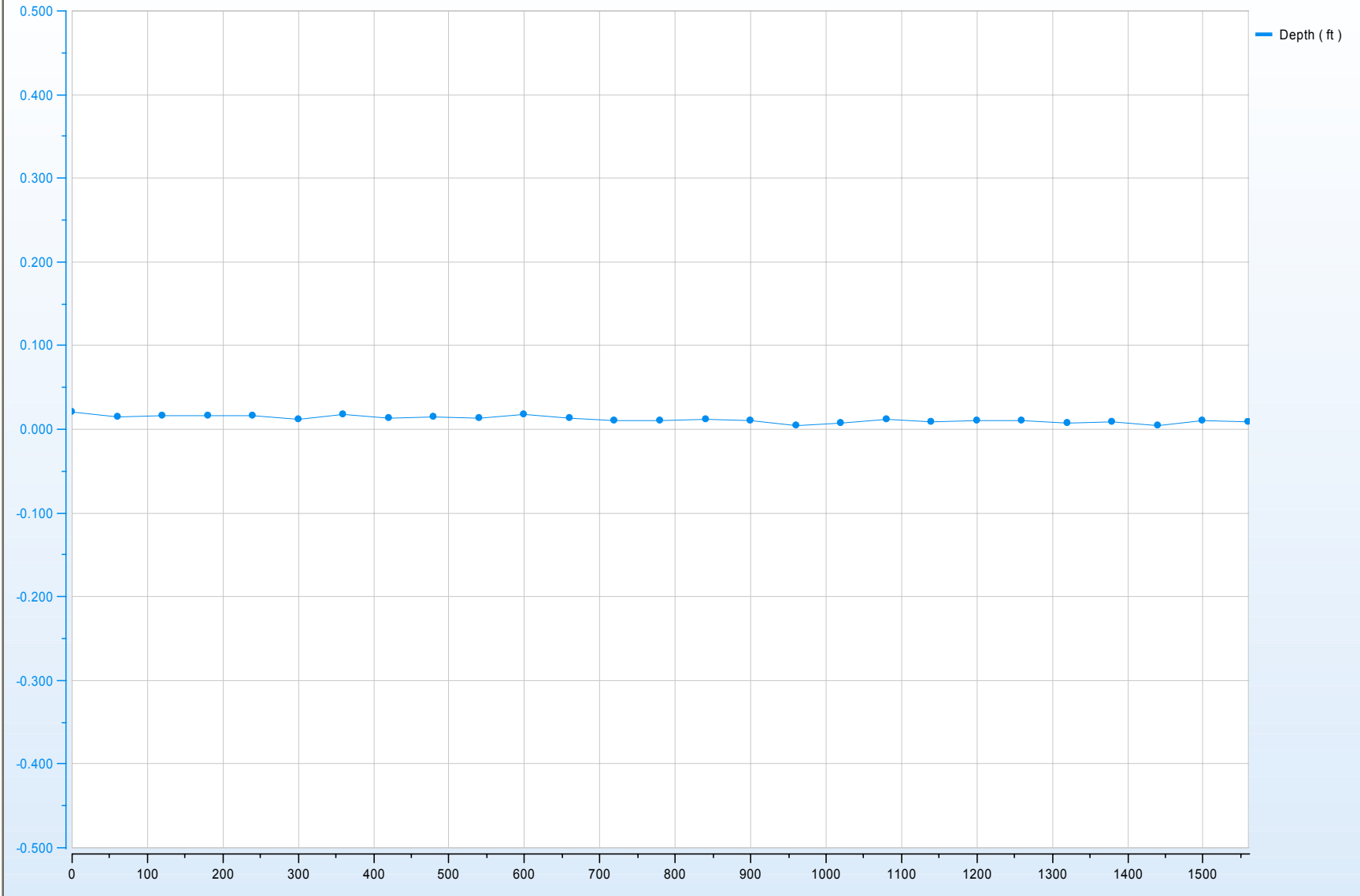
OW-401B FALLING HEAD 2006-06-26 18-39-06



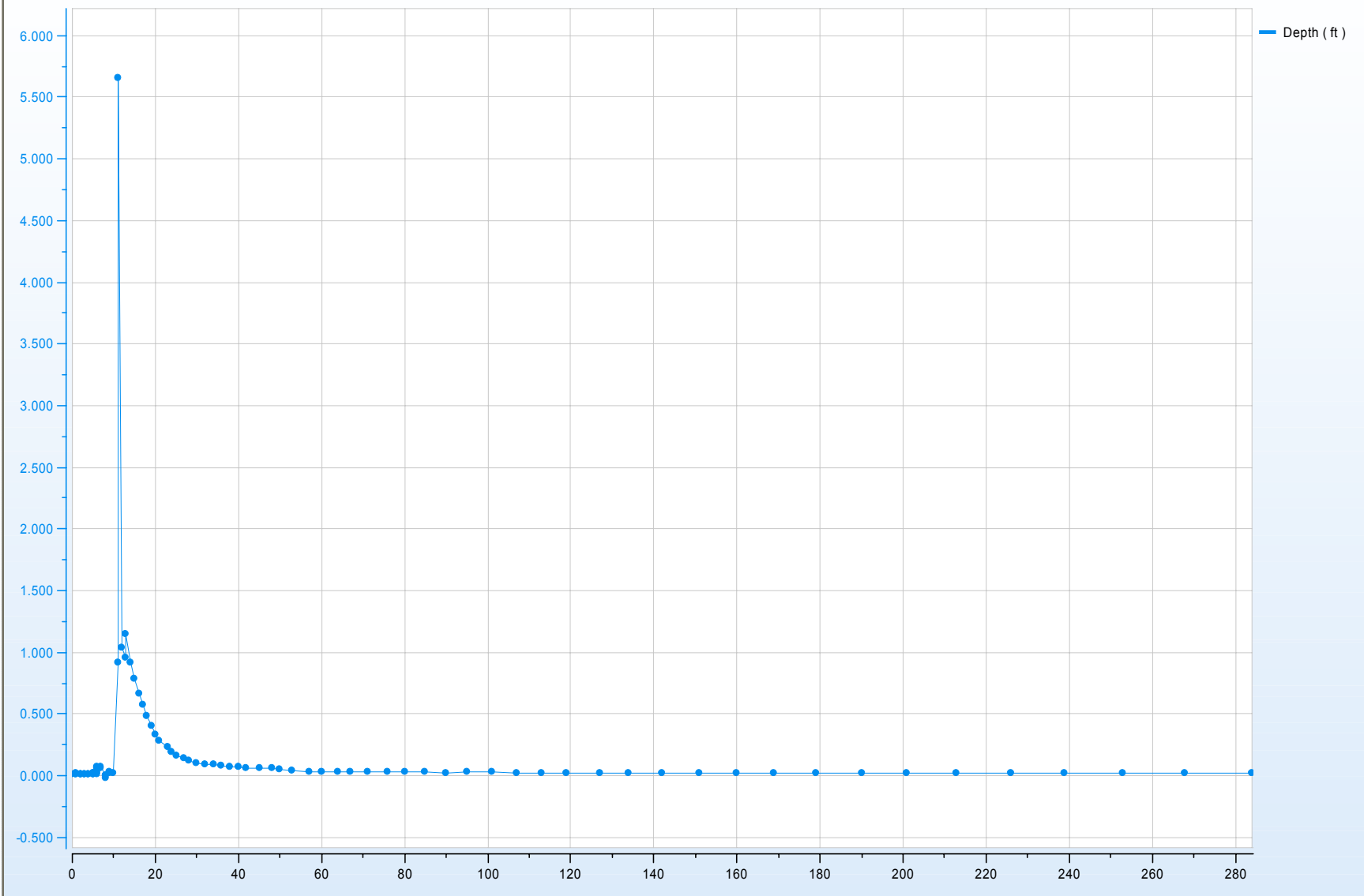
OW-401B RISING HEAD TEST 2006-06-26 20-29-06



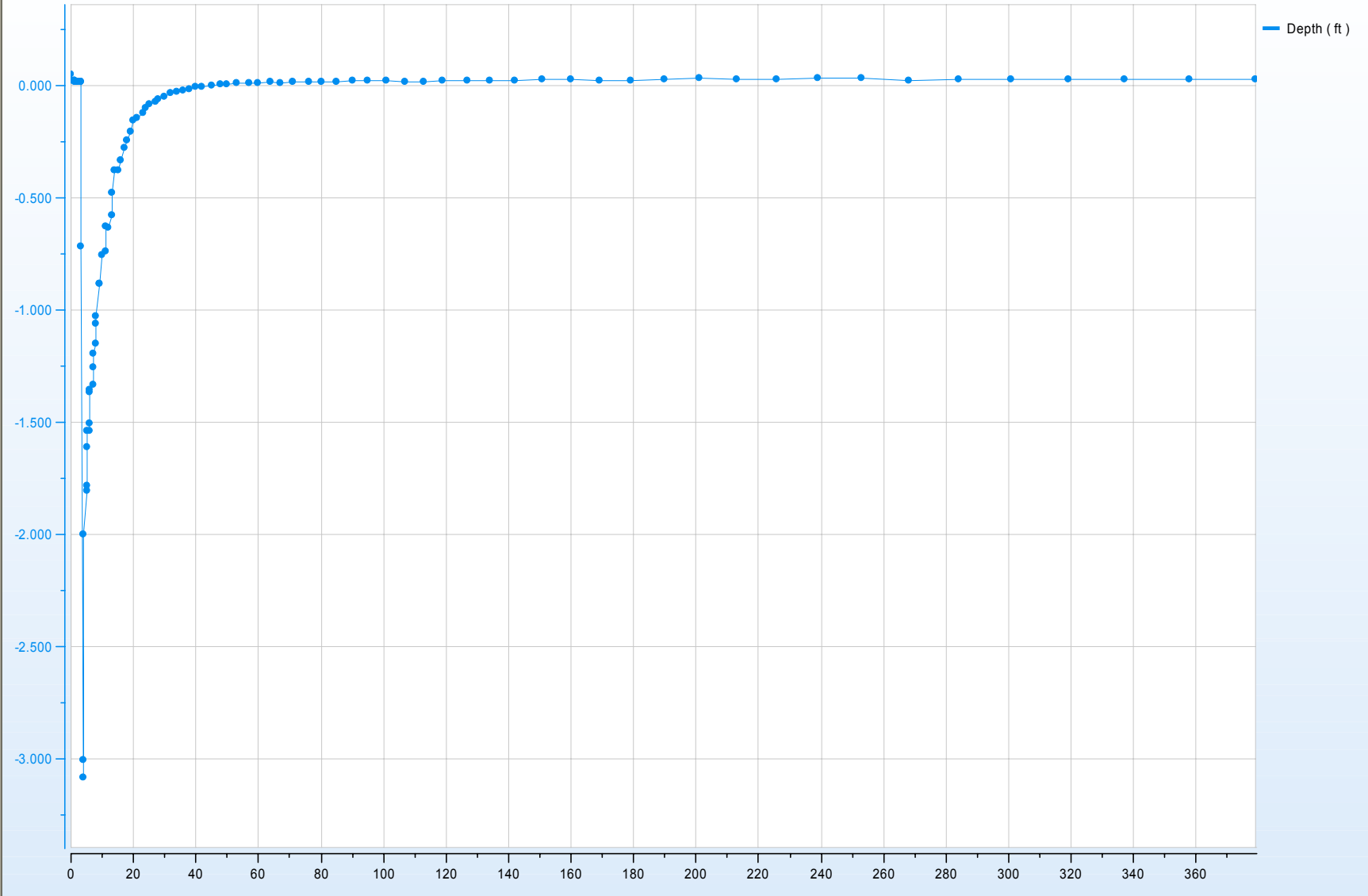
OW-405 BACKGROUND 2006-06-27 16-40-16



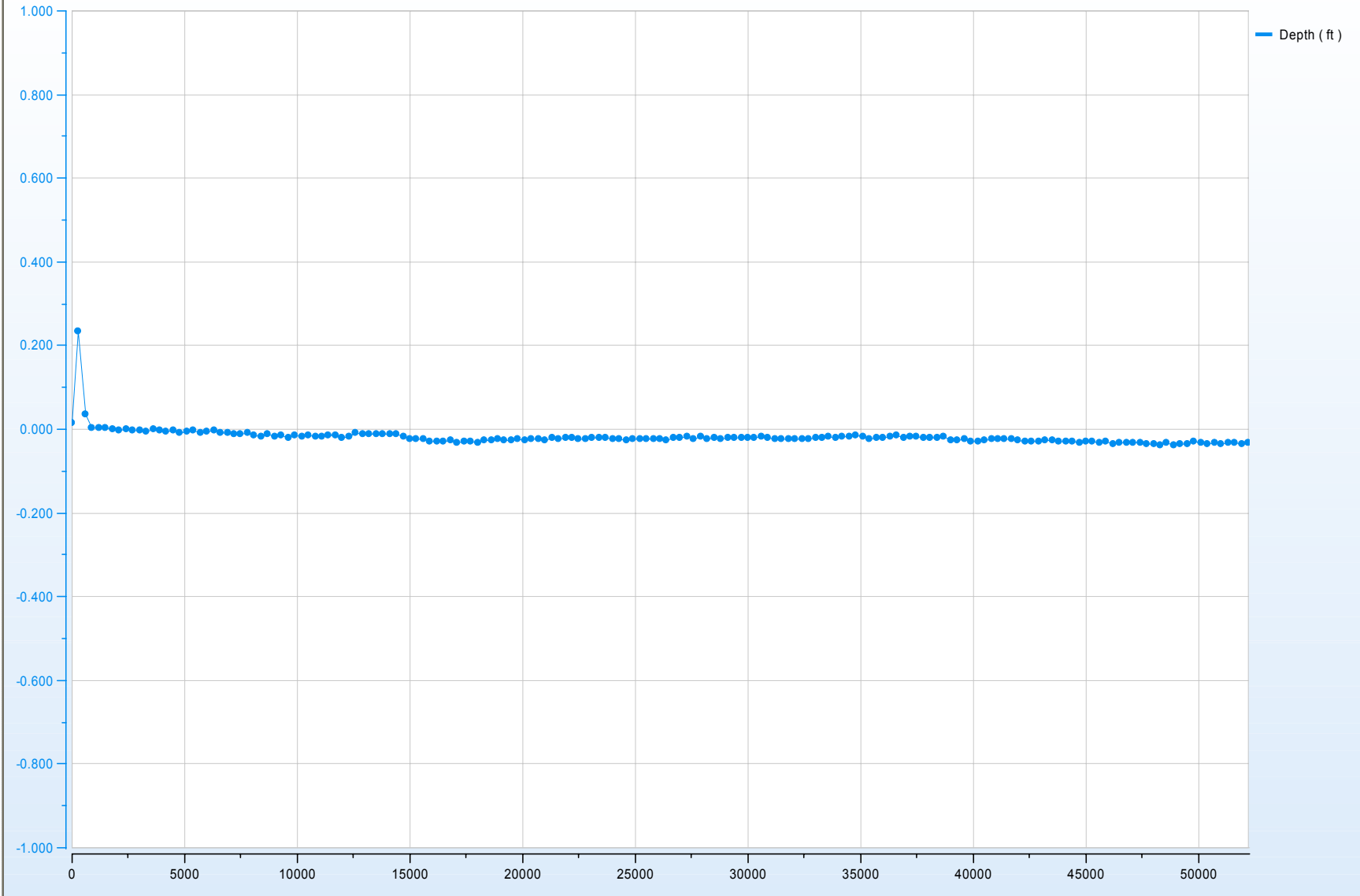
OW-405 FALLING HEAD 2006-06-27 17-05-04



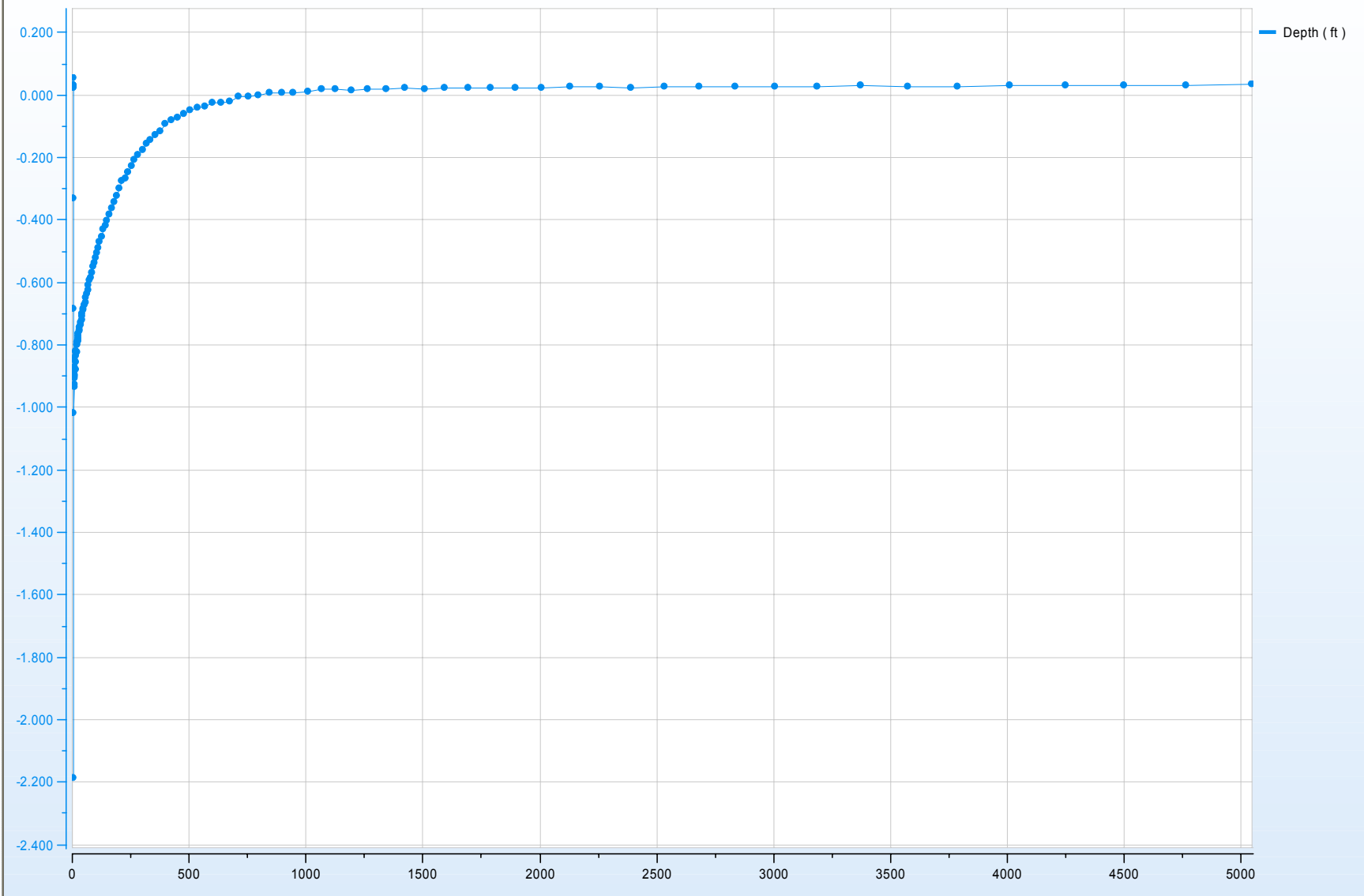
OW-405 RISING HEAD TEST 2006-06-27 17-16-50



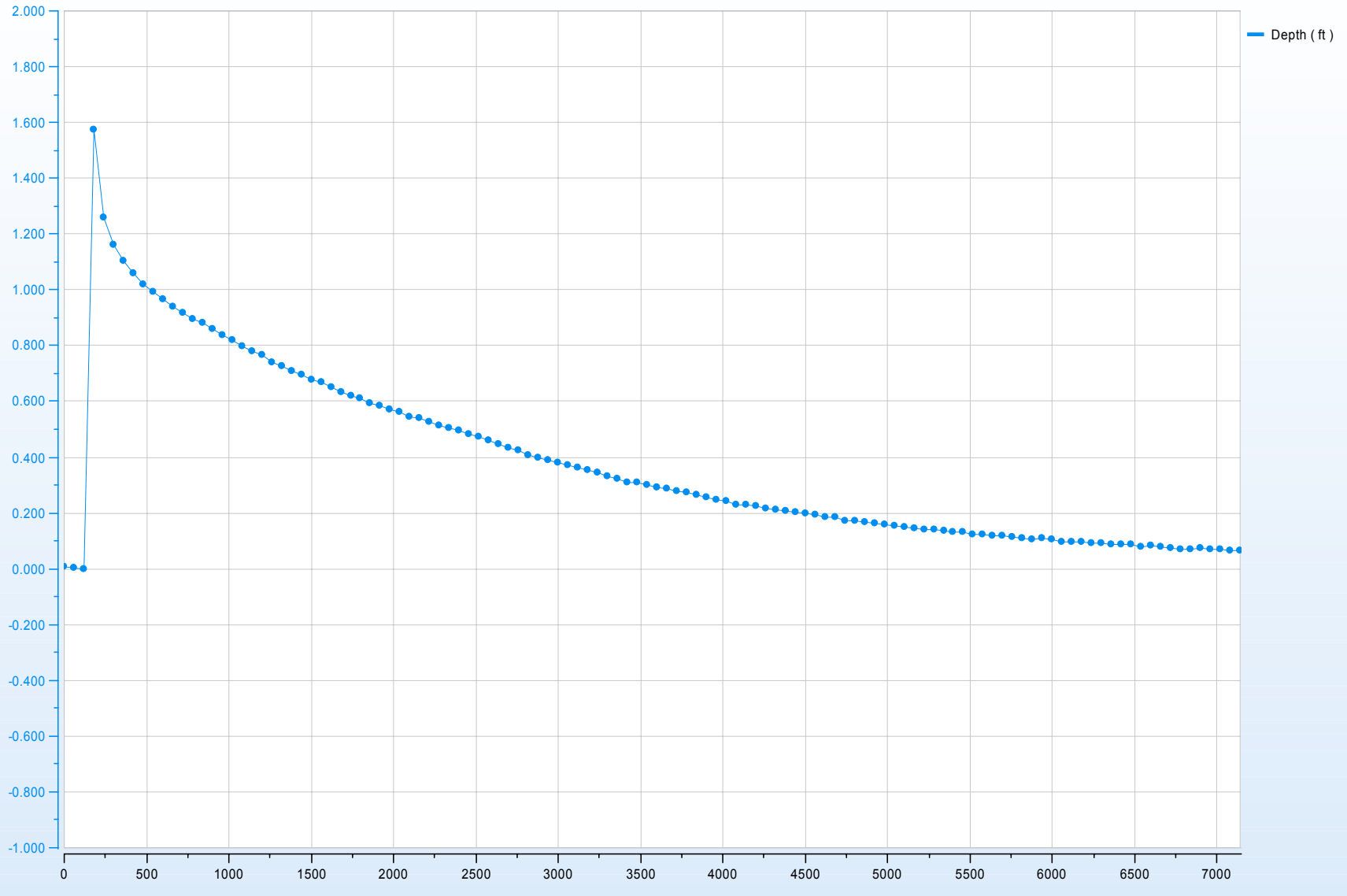
OW-612 BACKGROUND 2006-06-28 08-16-10



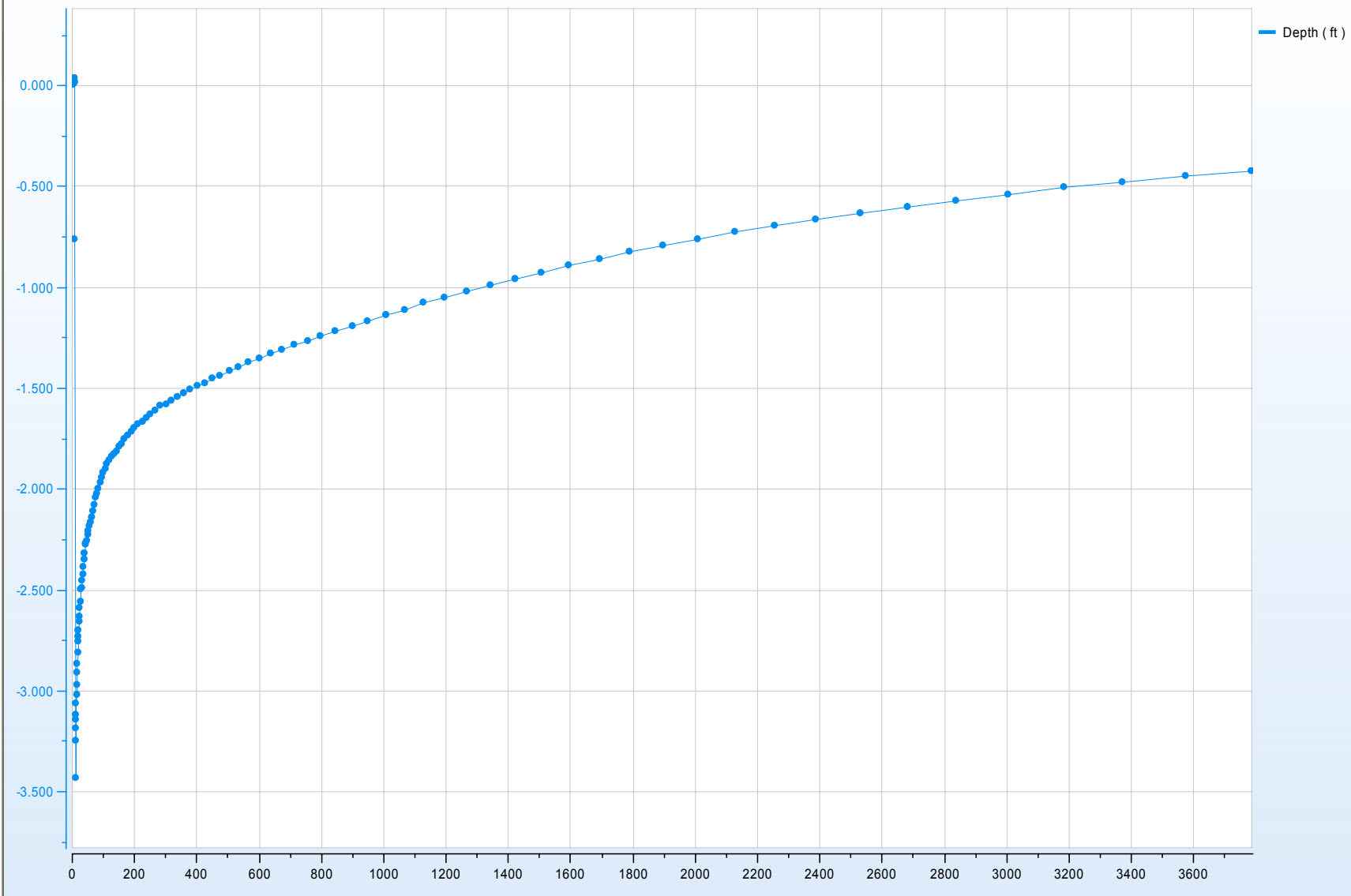
OW-612 RISING HEAD 2006-06-28 09-52-20



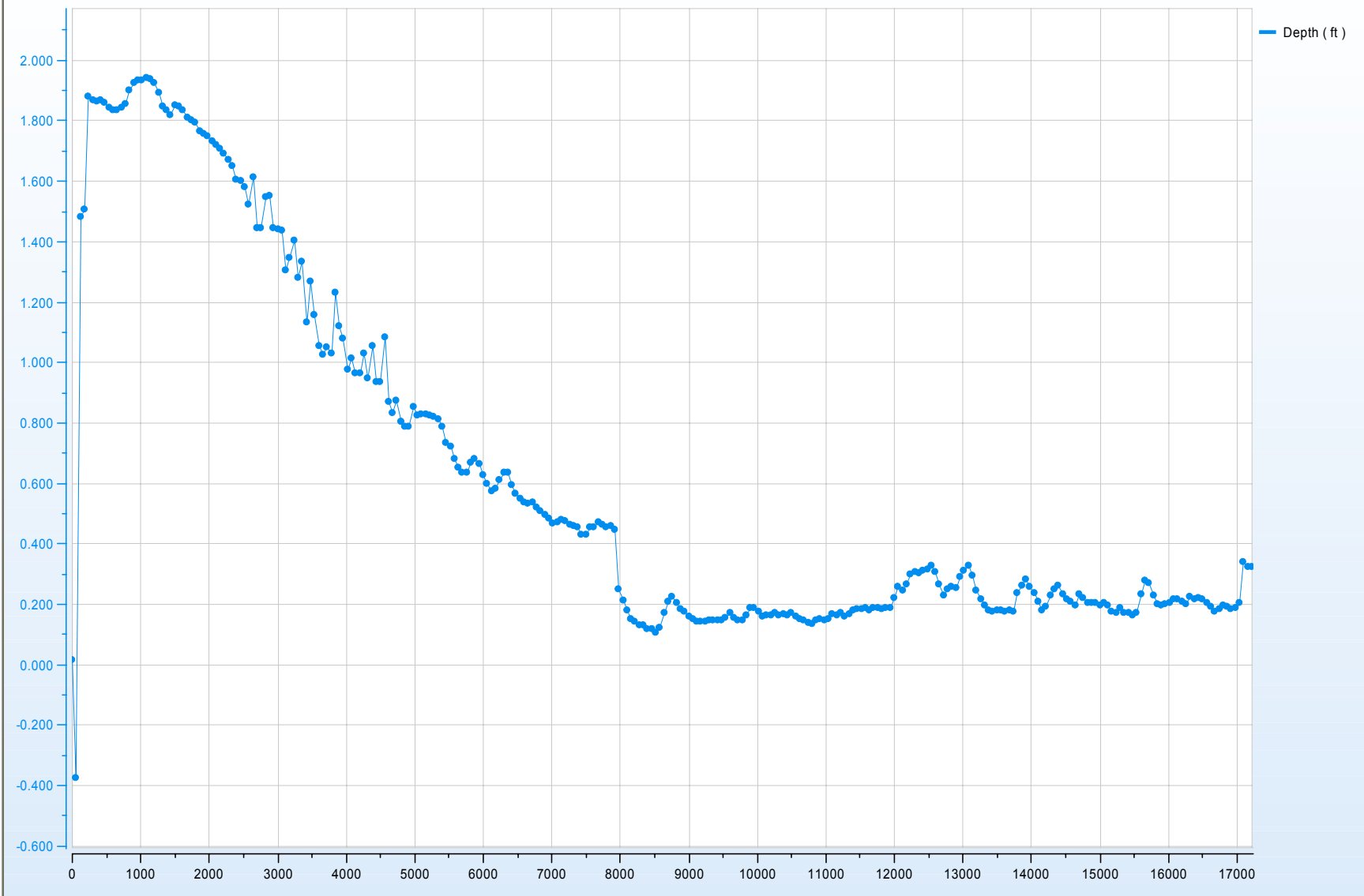
OW-614 BACKGROUND 2006-06-27 14-33-23



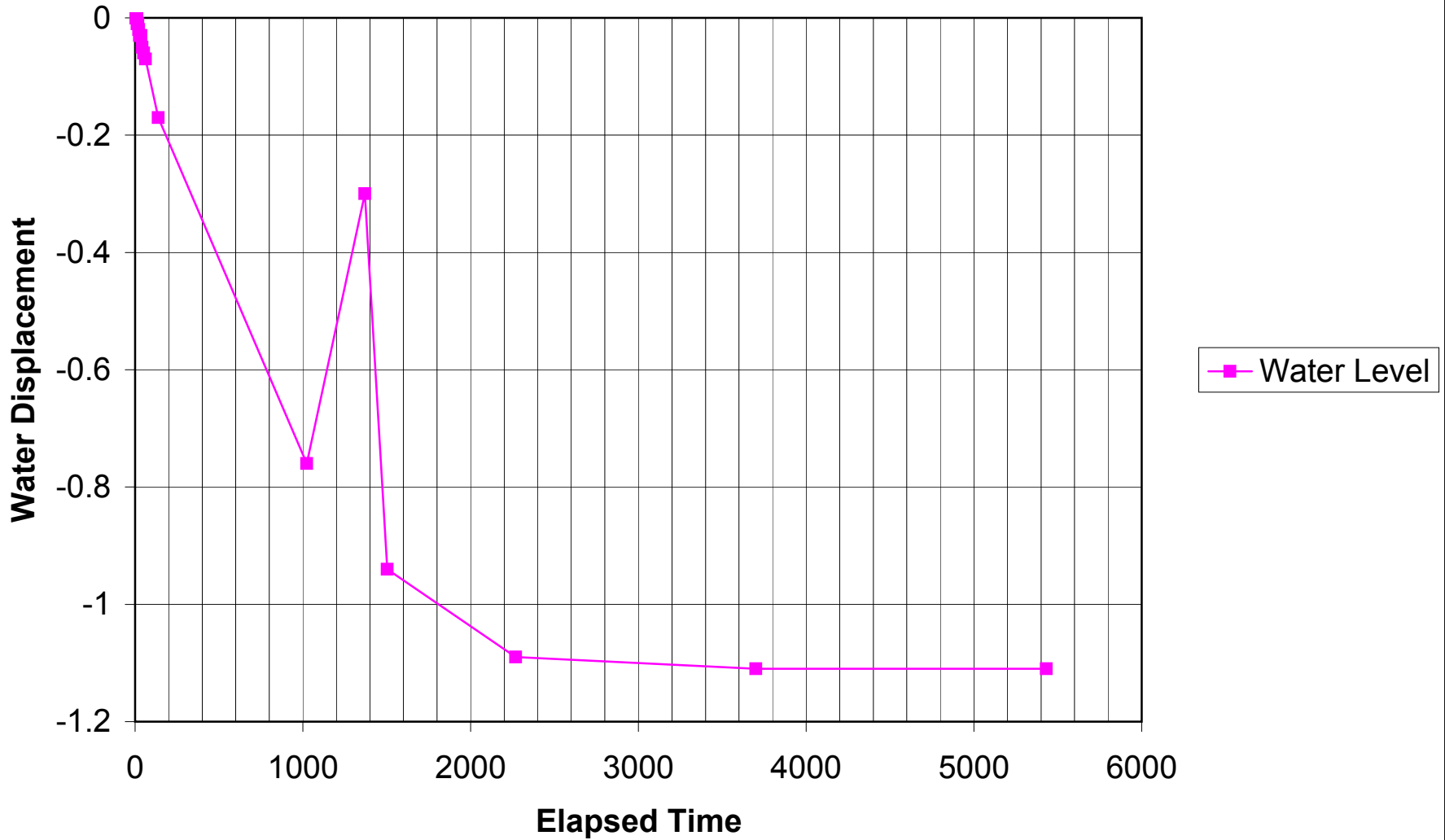
OW-614 RISING HEAD TEST 2006-06-27 15-44-42



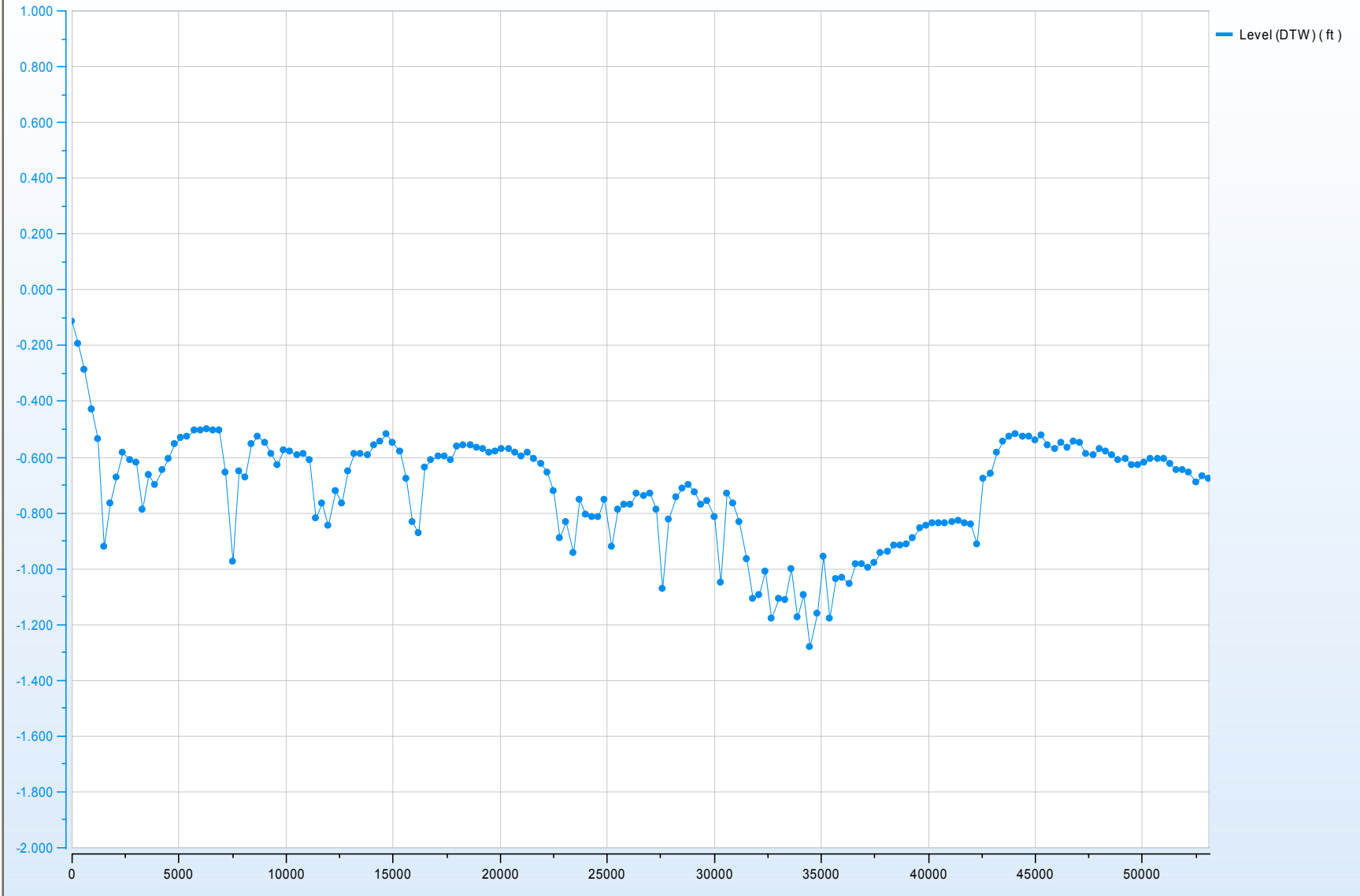
OW-617 Background 2006-06-27 14-02-12



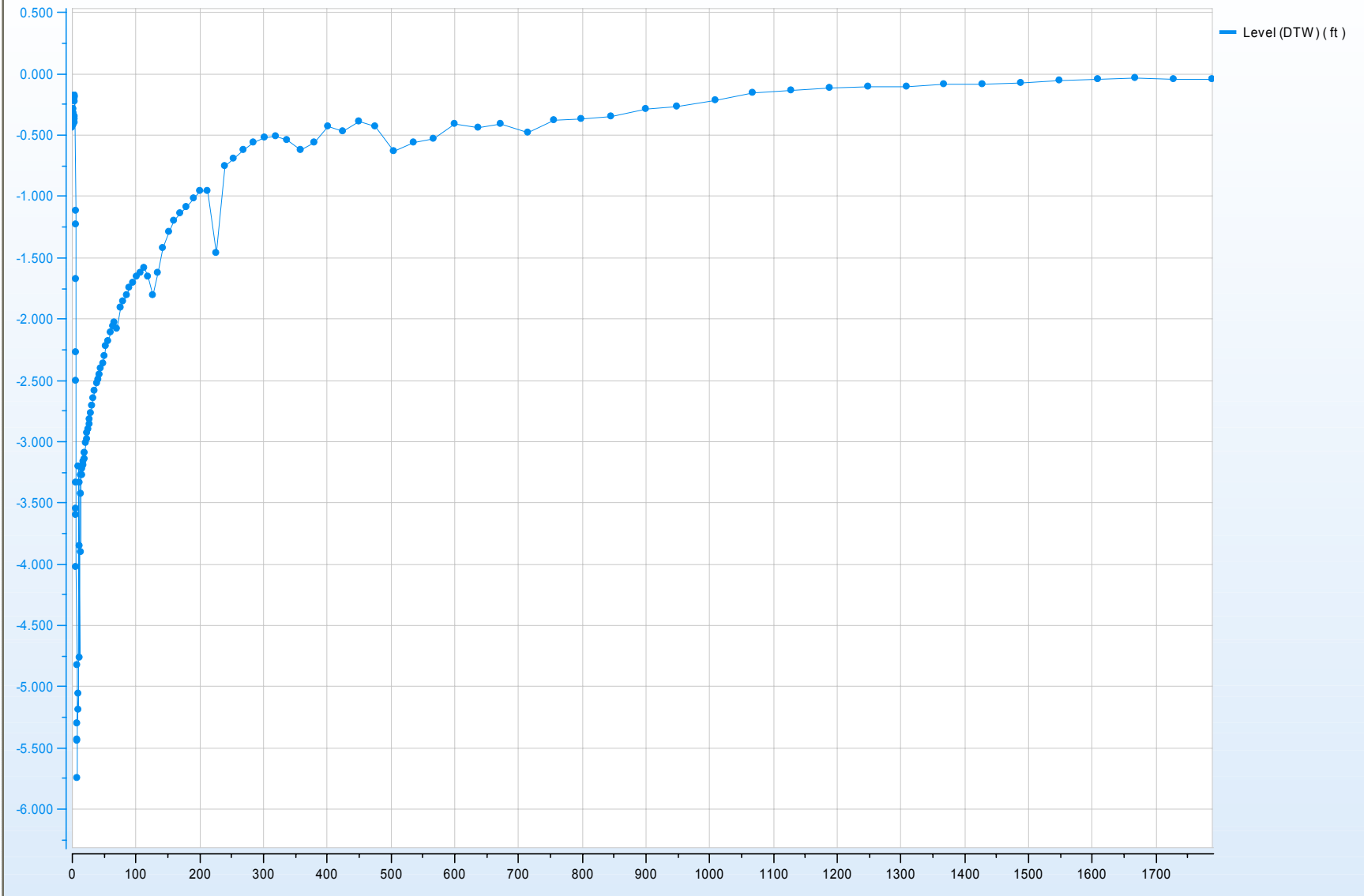
OW-617 Rising Head 2006-07-24 16-50-00



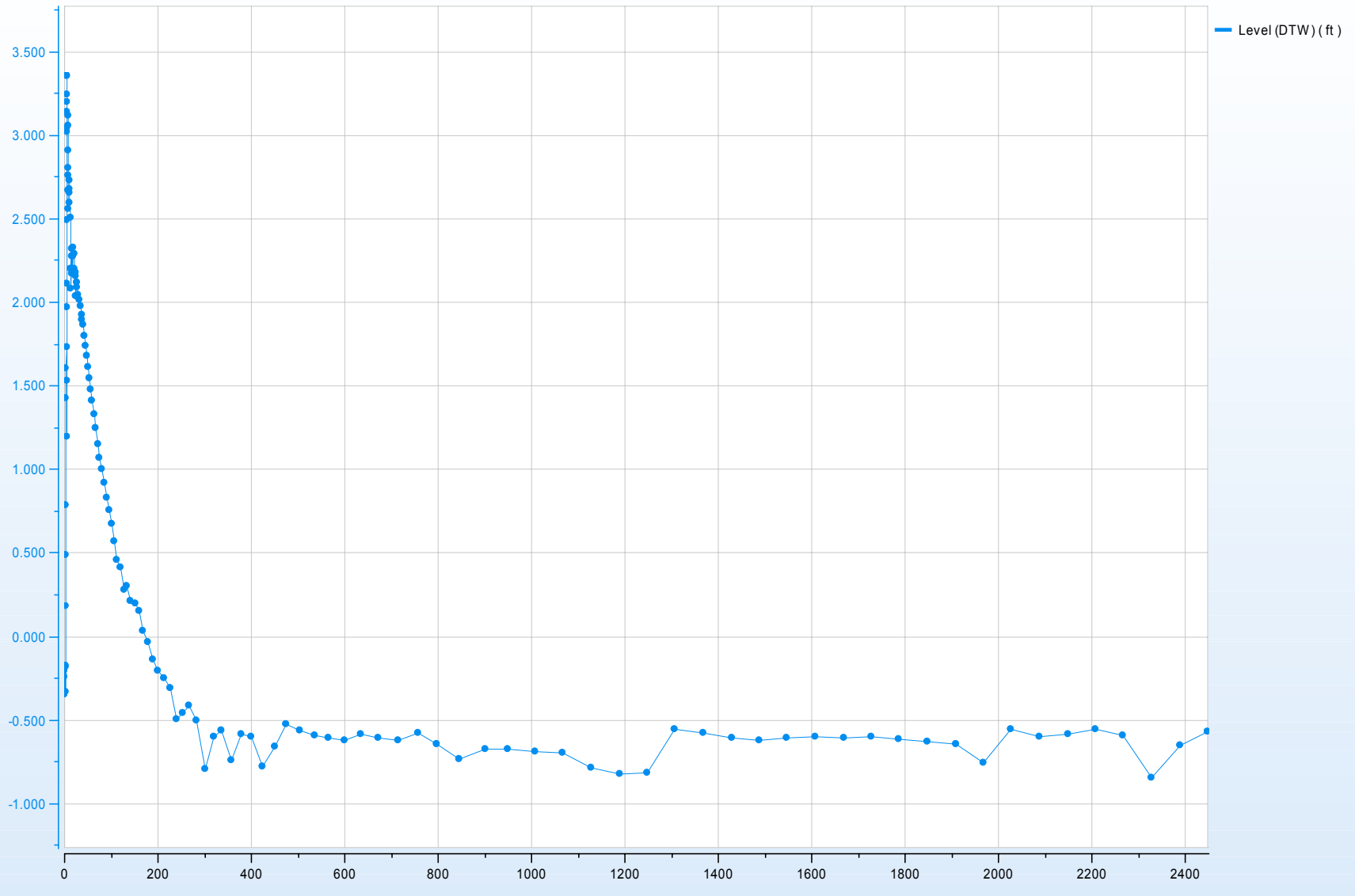
OW-618 BACKGROUND 2006-07-09 08-29-53



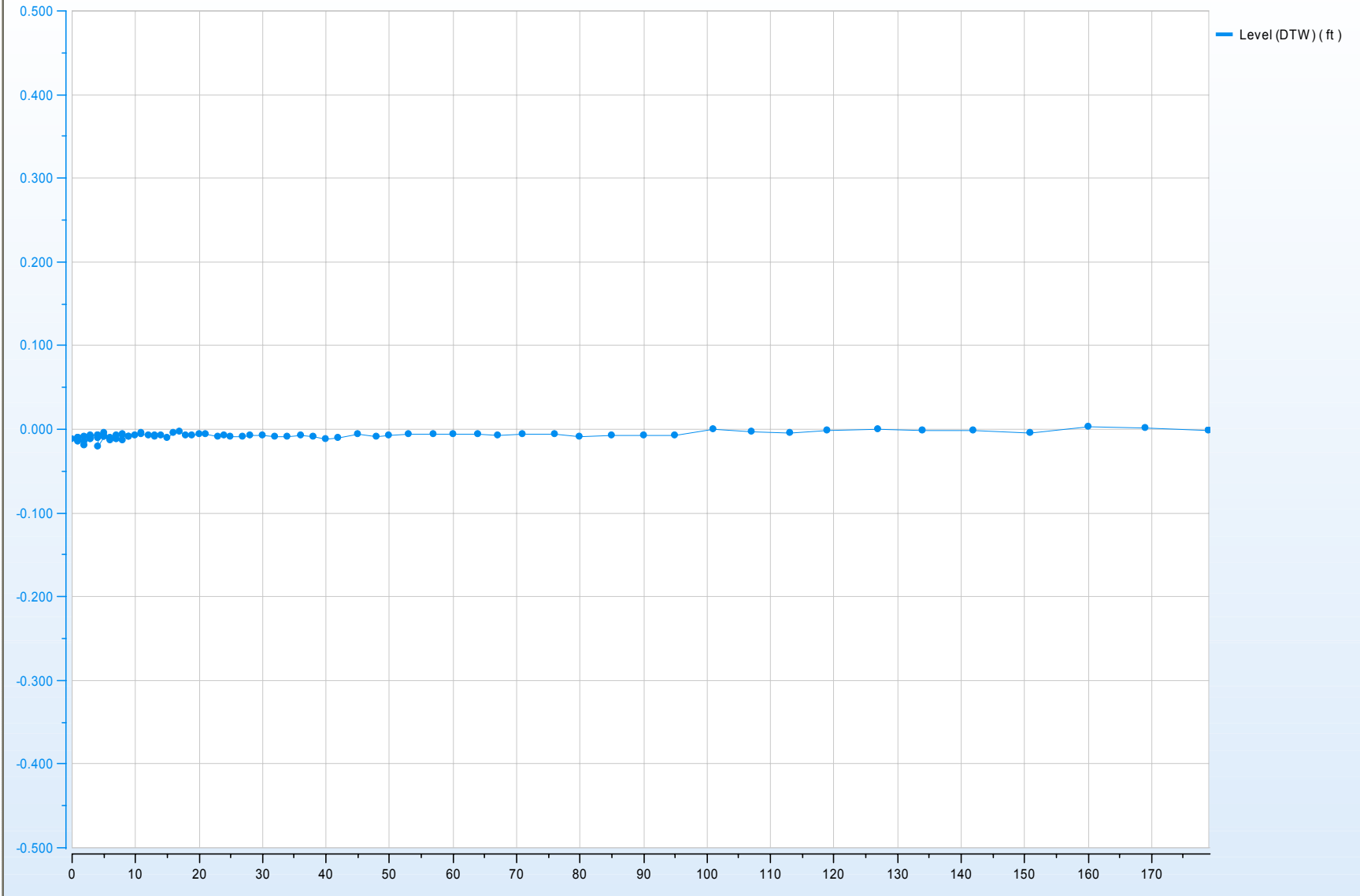
OW-618 FALLING HEAD 2006-07-09 09-10-14



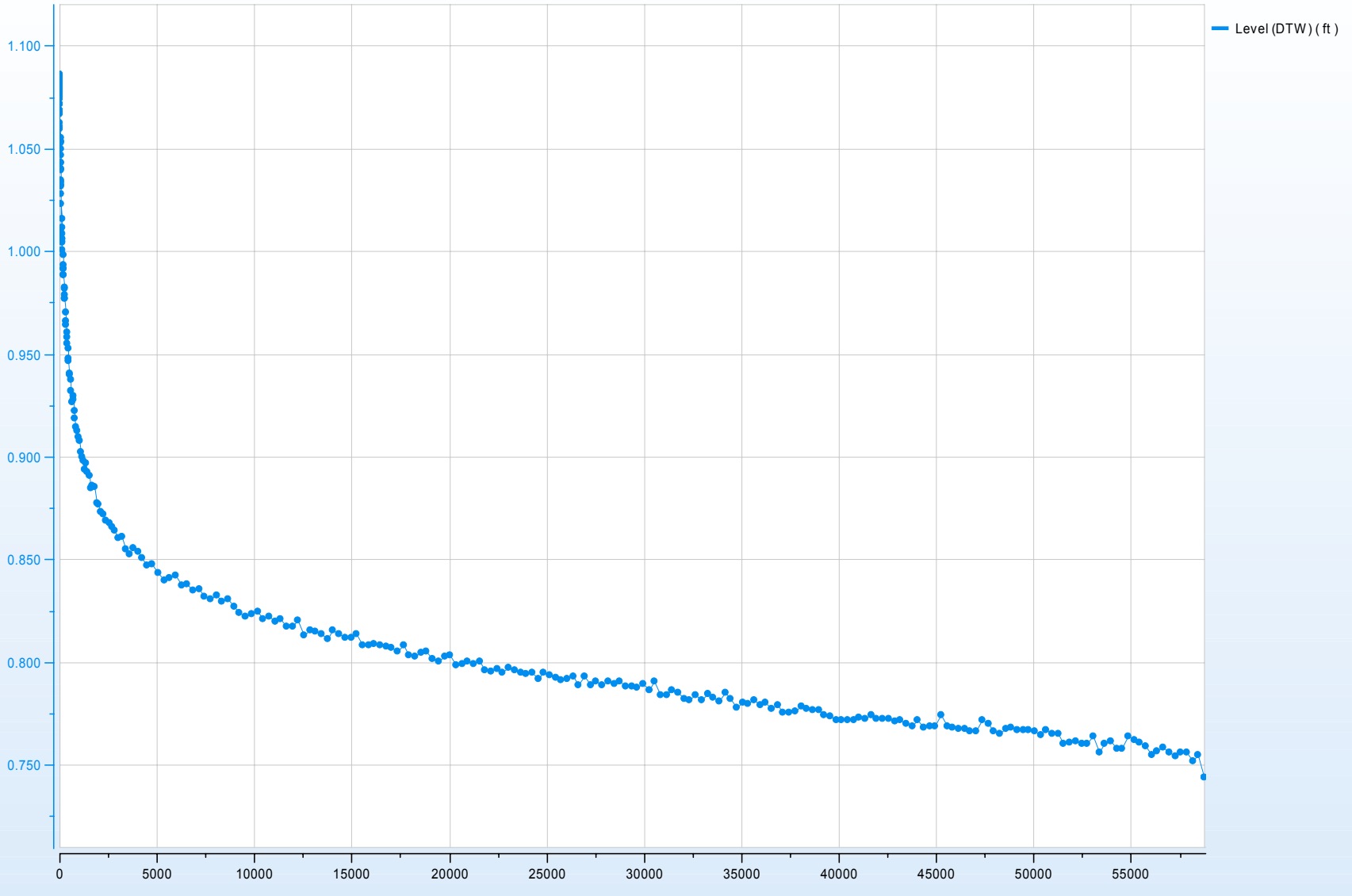
OW-618 RISING HEAD 2006-07-09 09-56-41



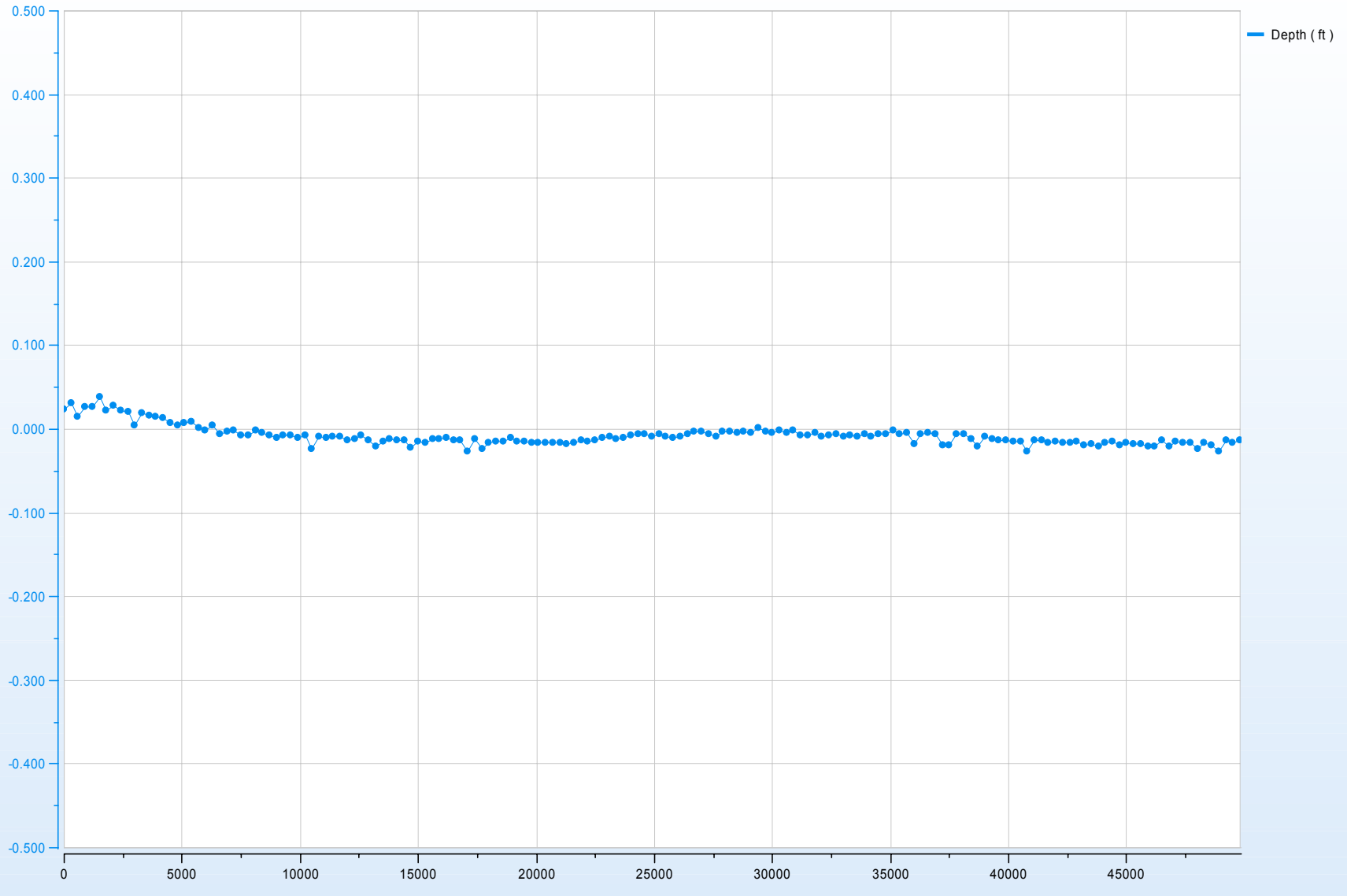
OW-619 NEW BACKGROUND 2006-07-09 16-48-51



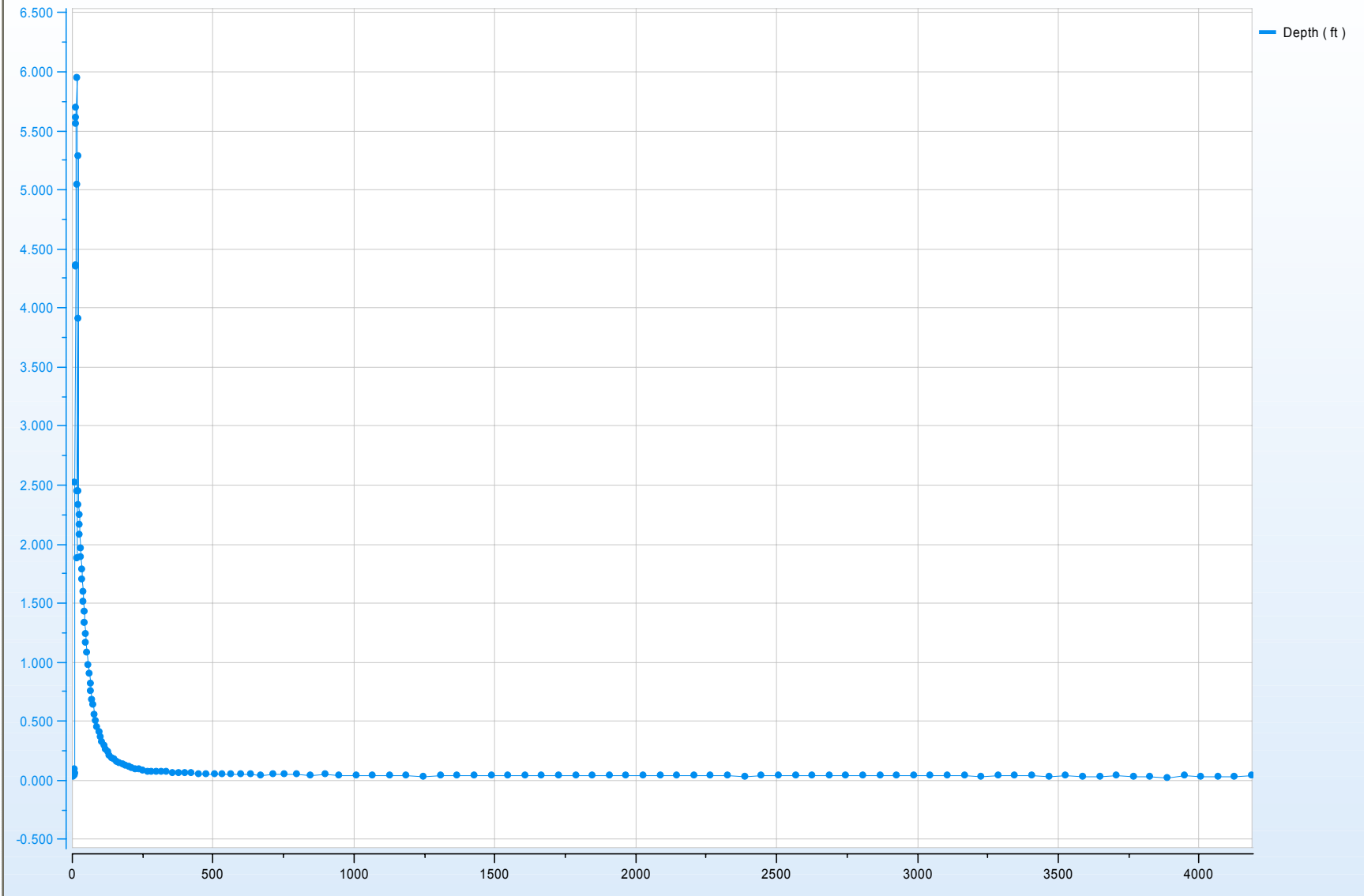
OW-619 RISING HEAD 2006-07-10 09-25-47



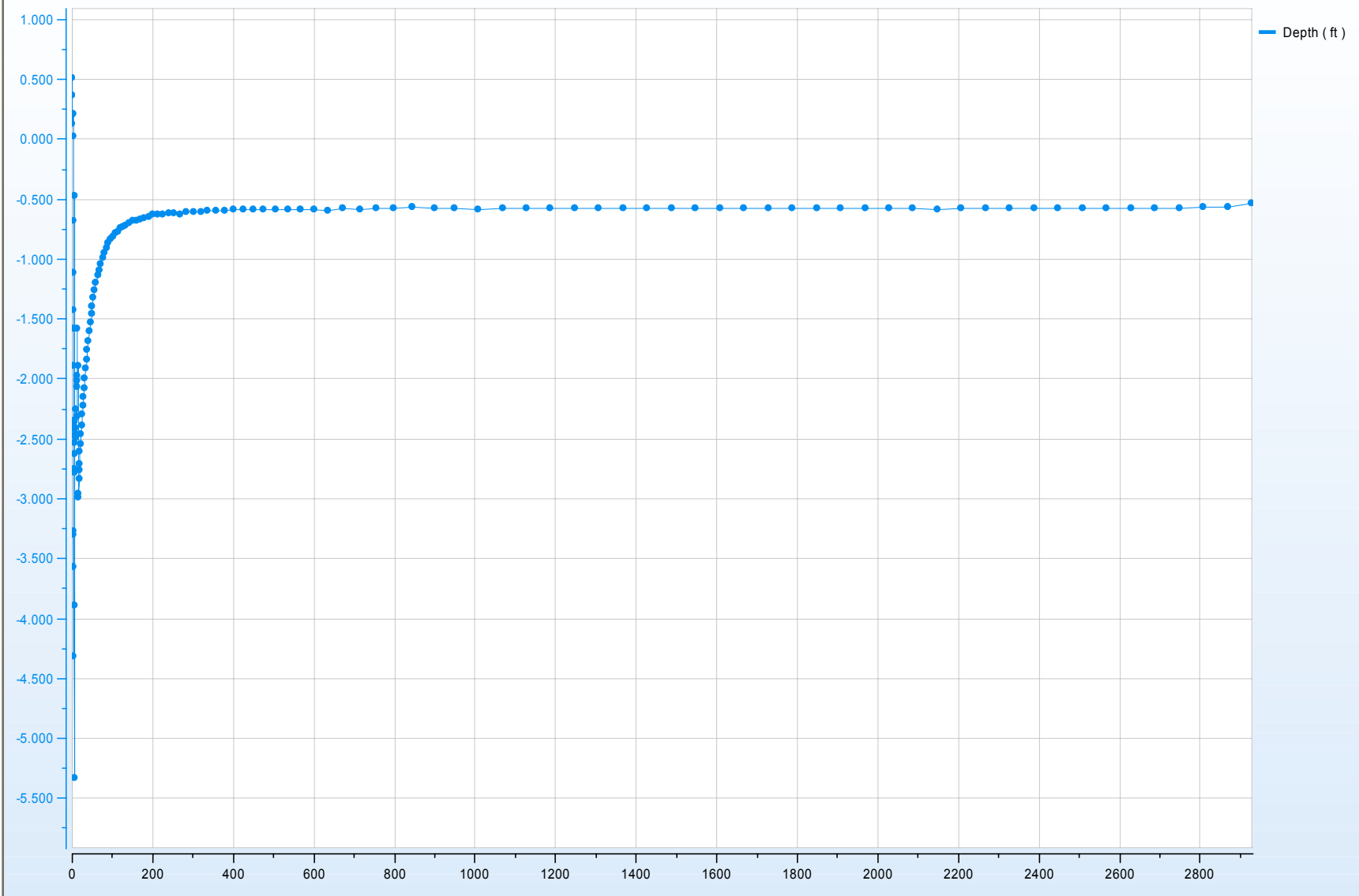
OW-620 BACKGROUND 2006-07-07 08-18-06



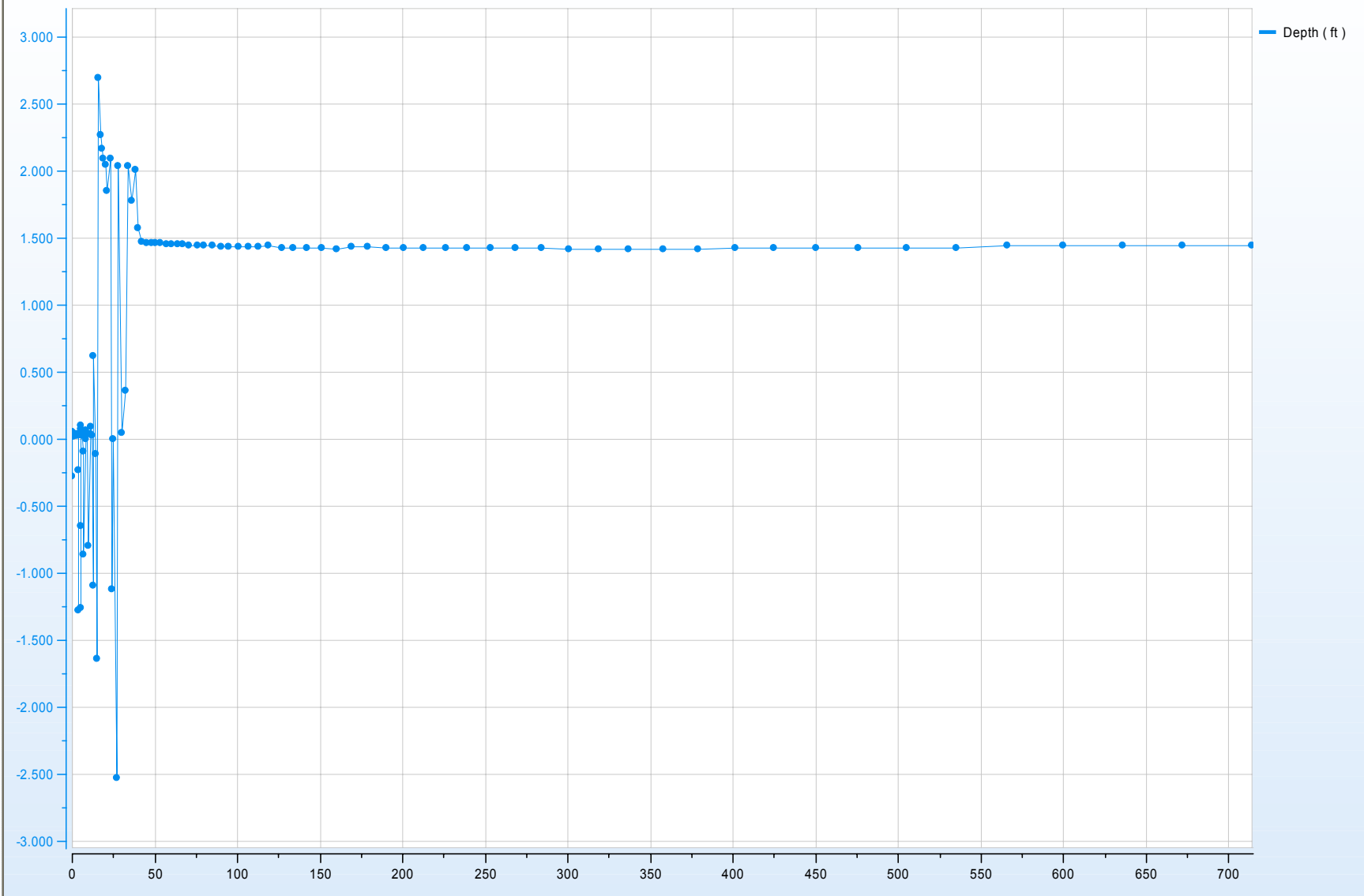
OW-620 FALLING HEAD 2006-07-07 09-34-56



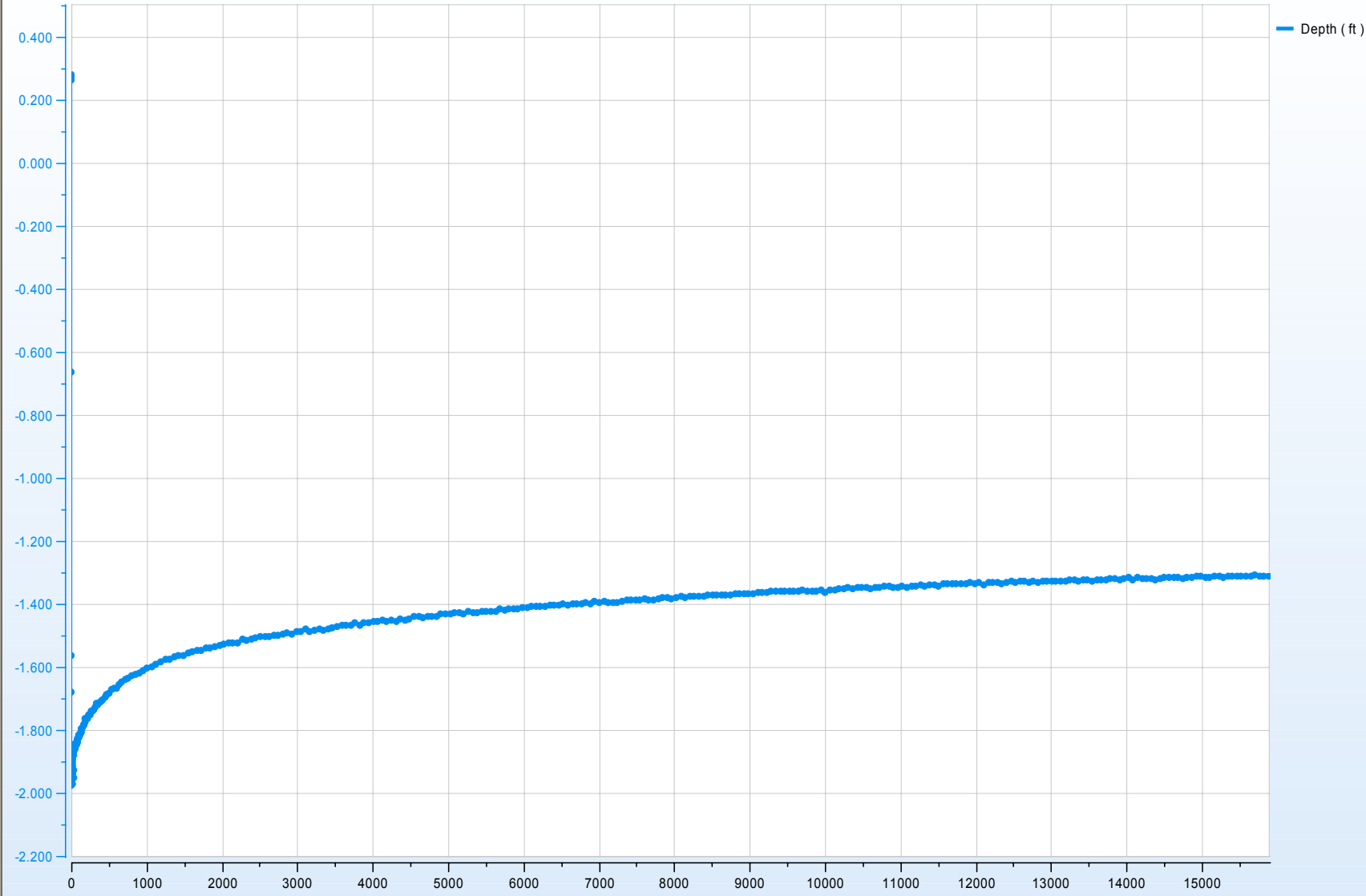
OW-620 RISING HEAD 2006-07-06 14-11-30



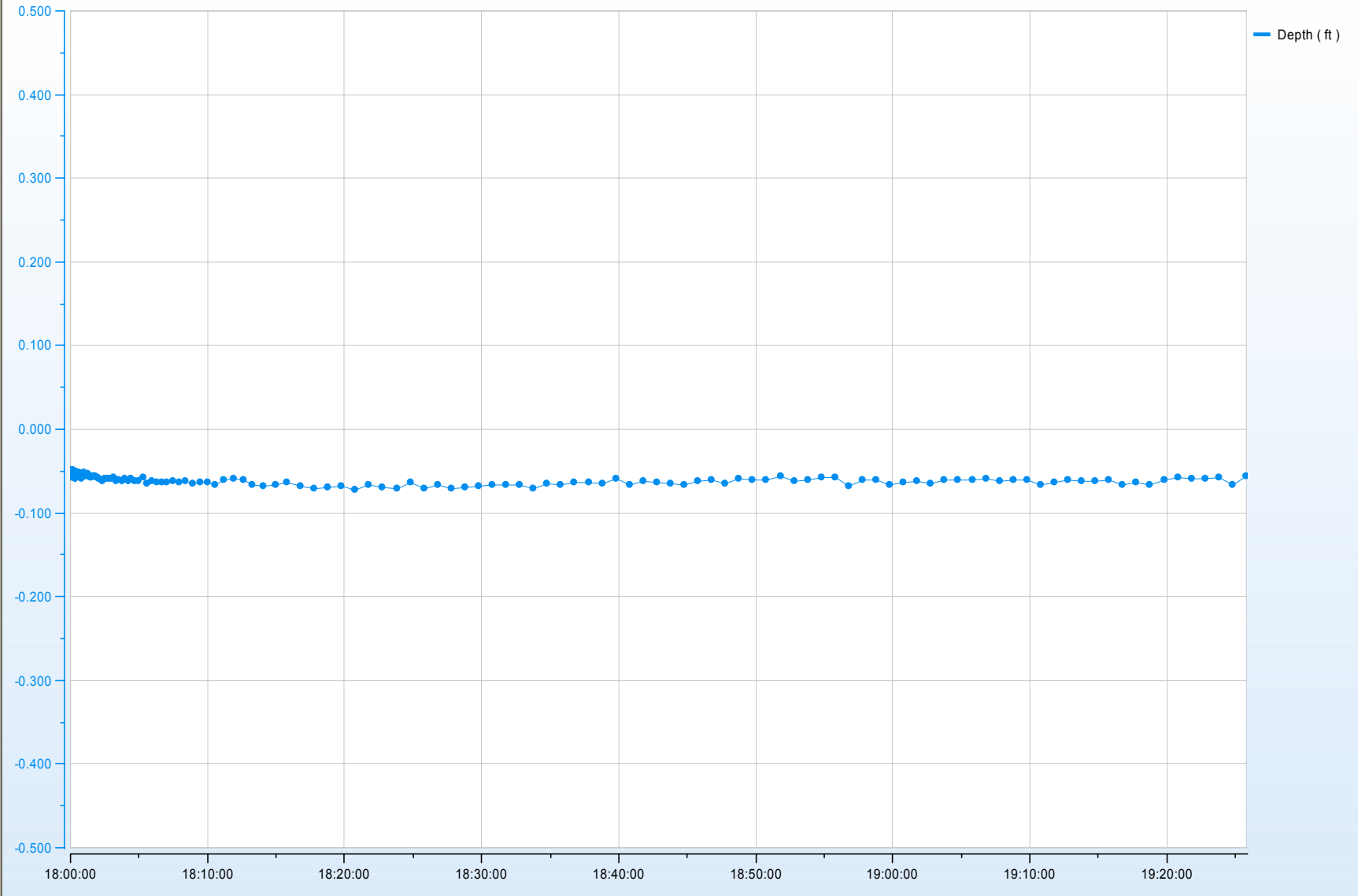
OW-621A BACKGROUND 2006-06-28 09-22-31



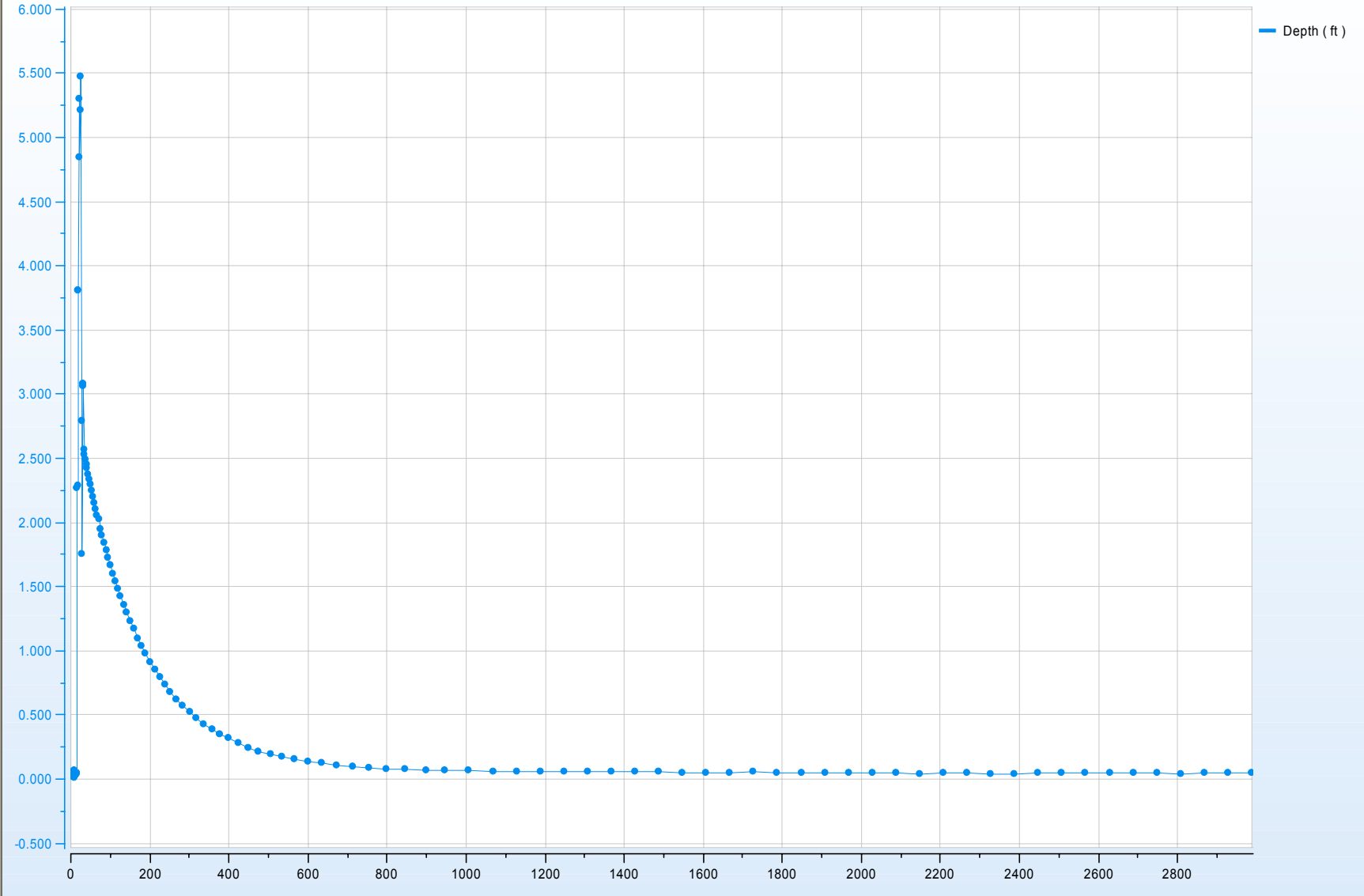
OW-621A RISING 2006-06-28 13-53-47



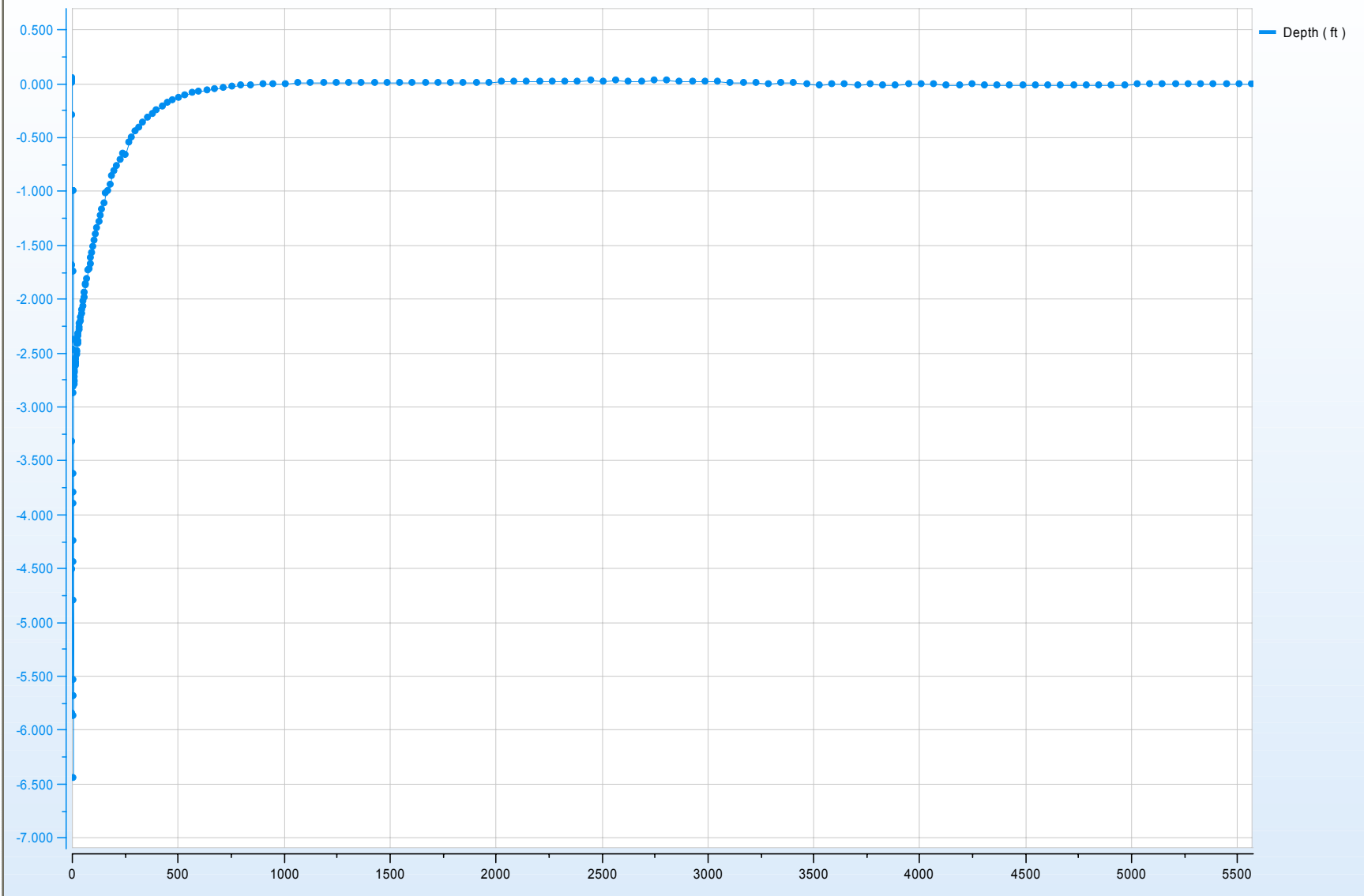
OW-621B BACKGROUND 2006-07-06 15-26-53



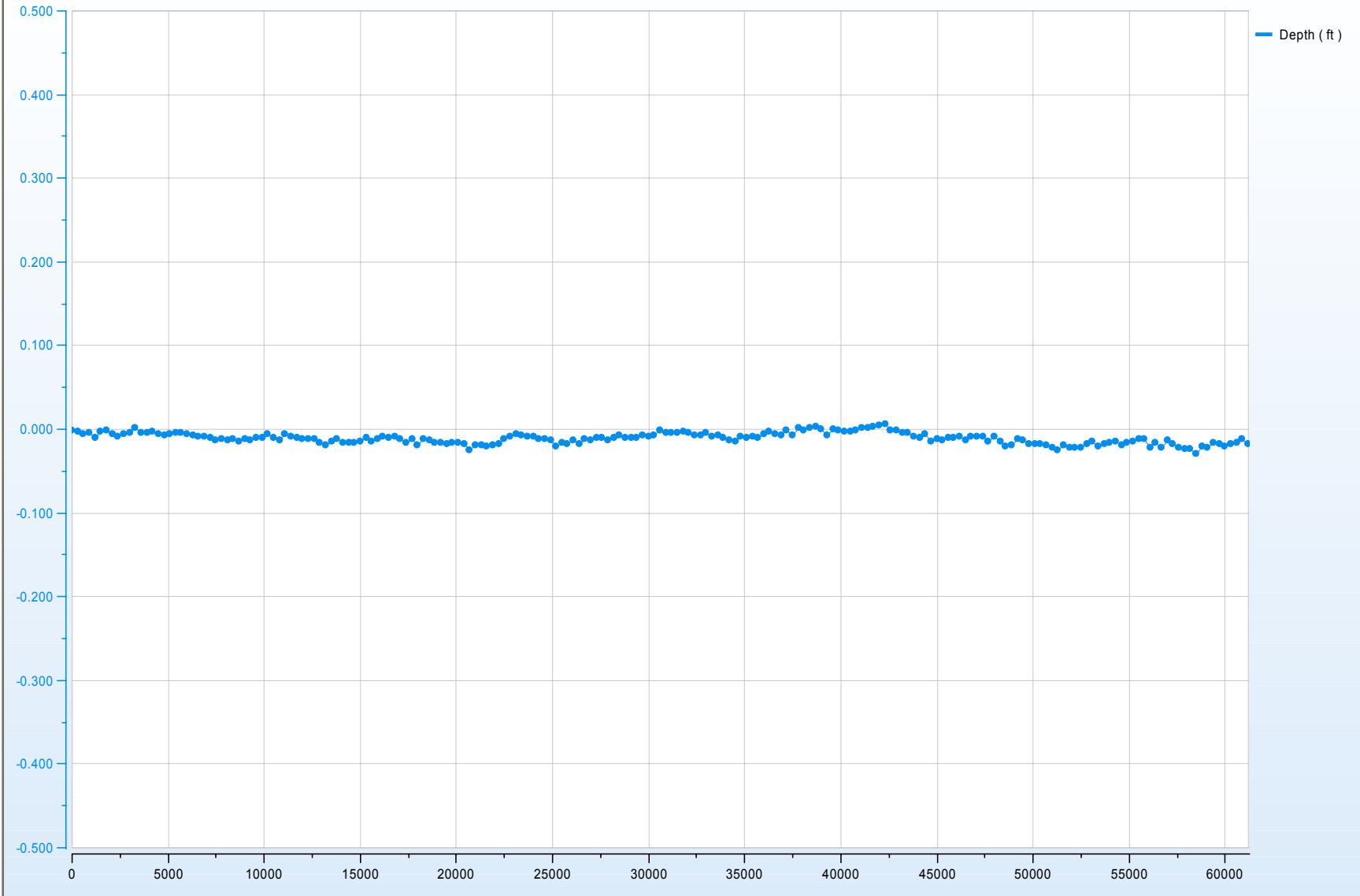
OW-621B FALLING HEAD 2006-07-06 16-25-28



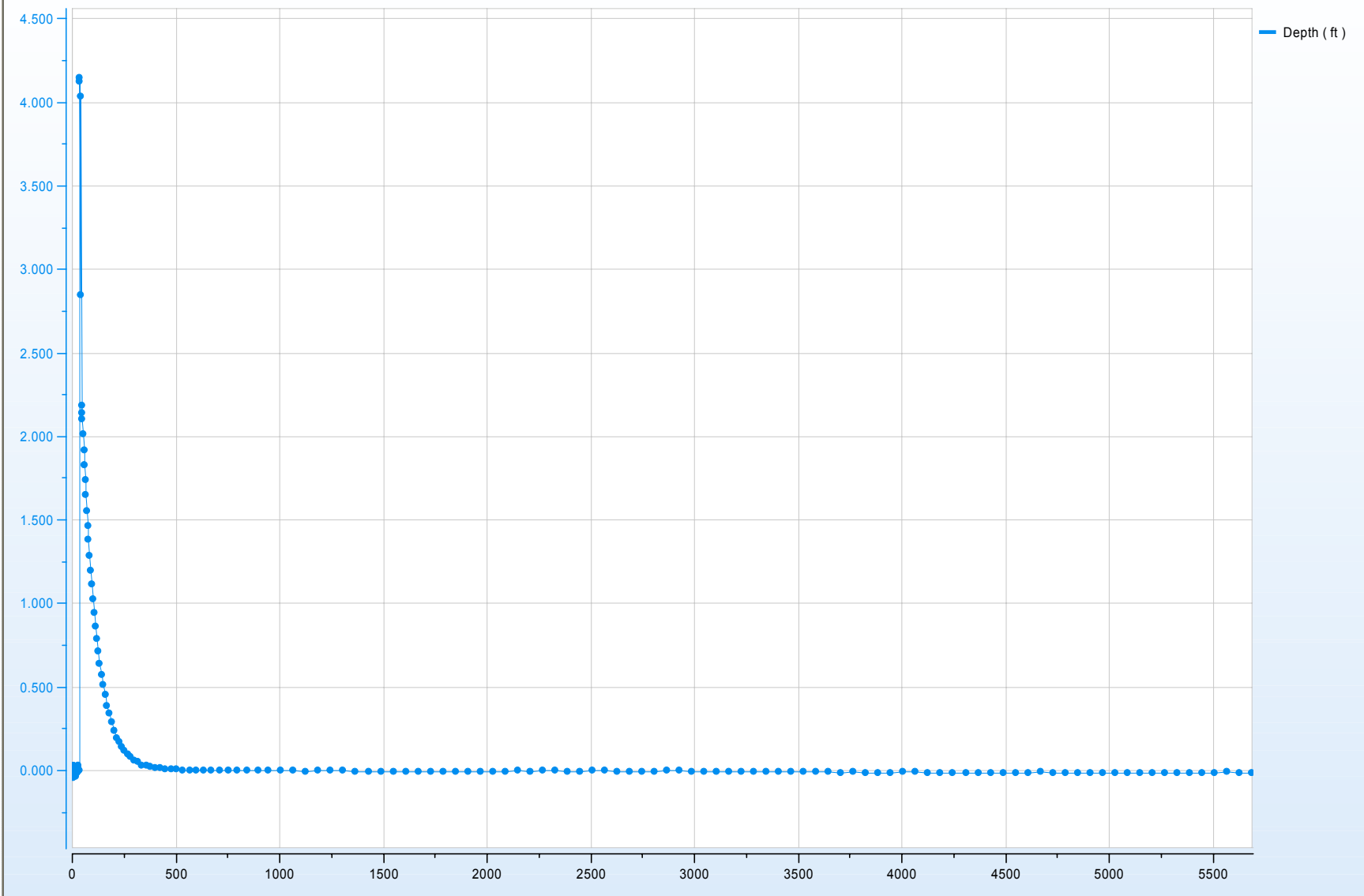
OW-621B RISING HEAD 2006-07-06 18-05-29



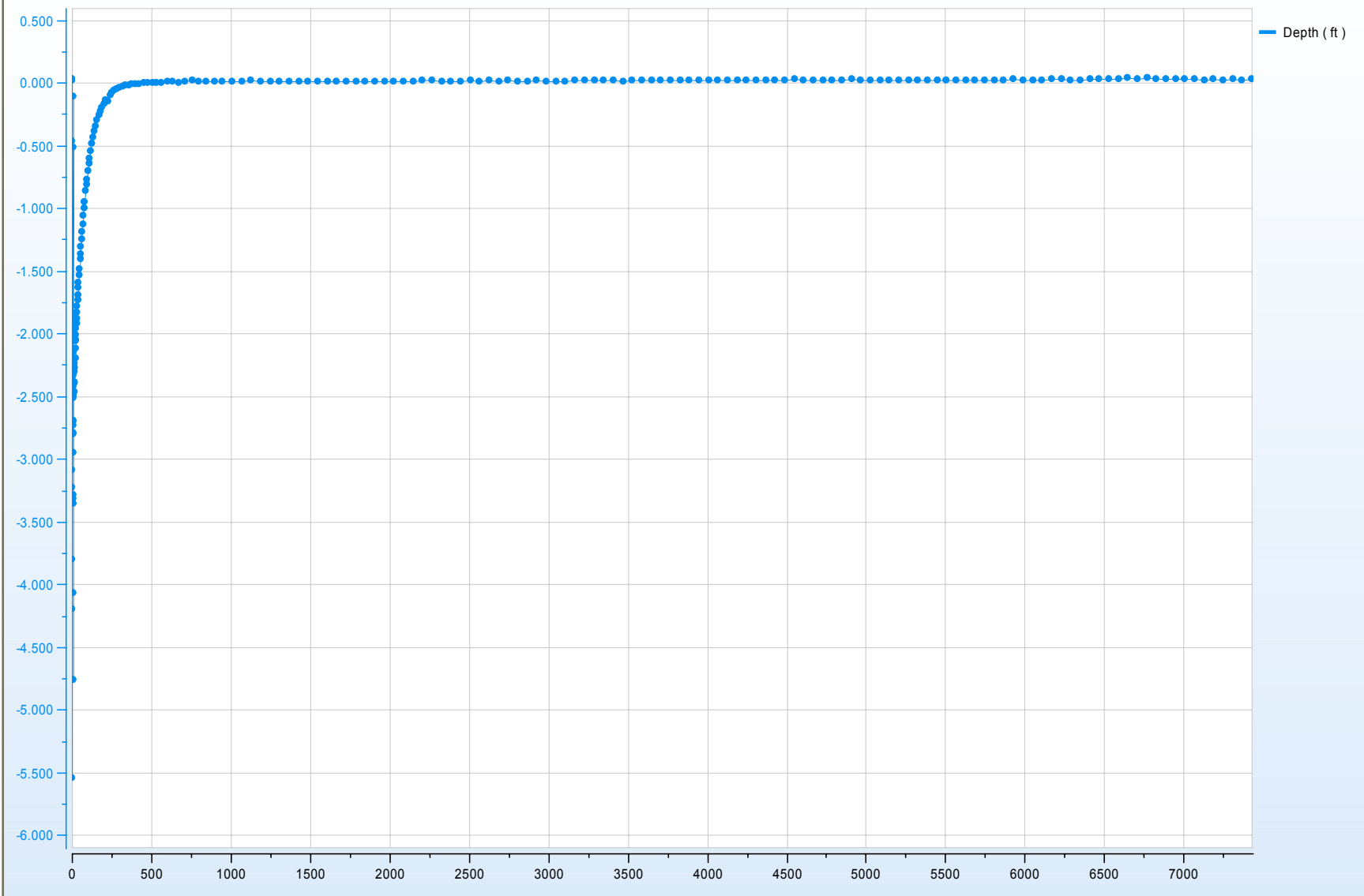
OW-622 BACKGROUND 2006-07-06 09-38-09



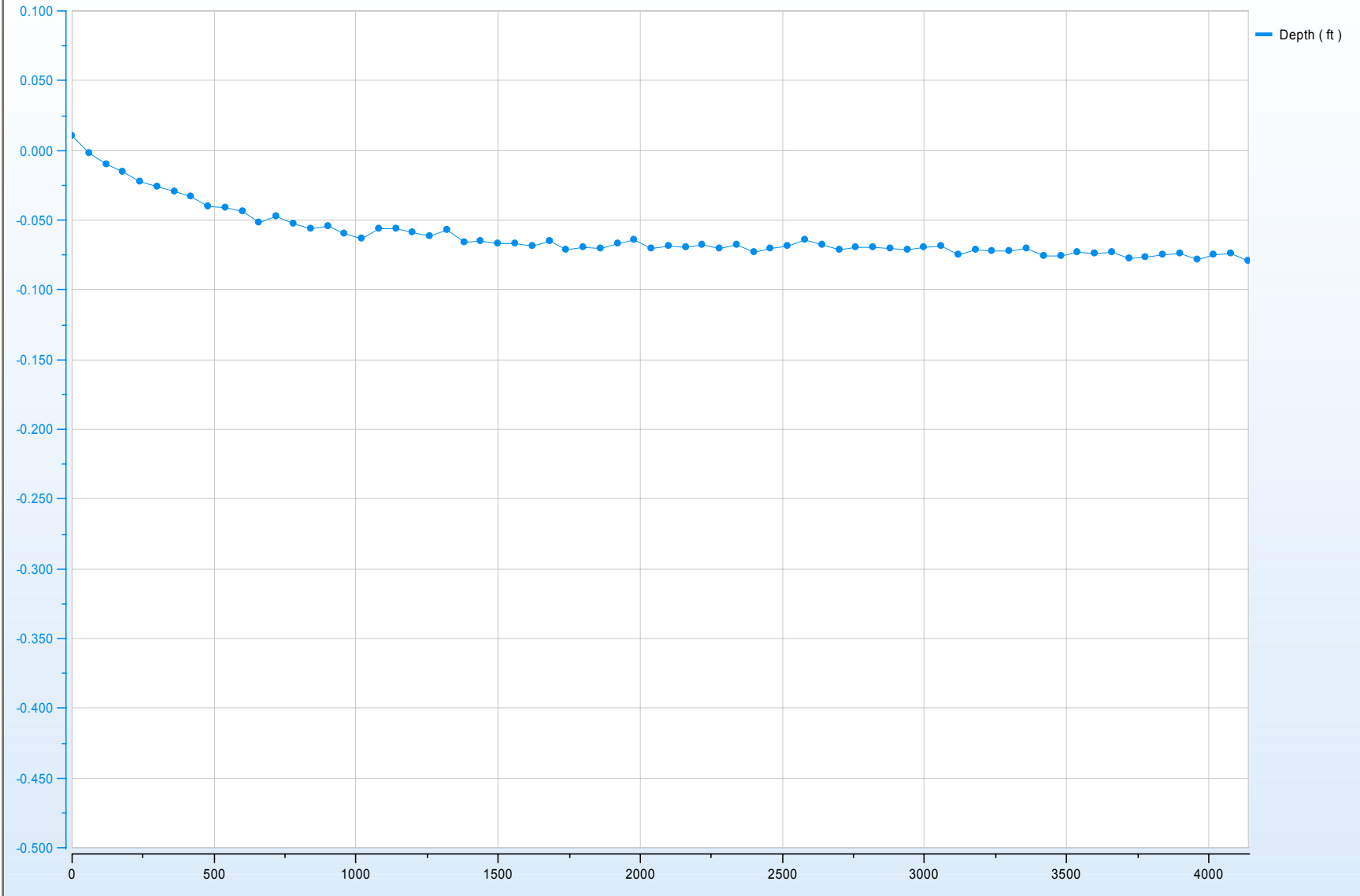
OW-622 FALLING HEAD 2006-07-06 11-18-40



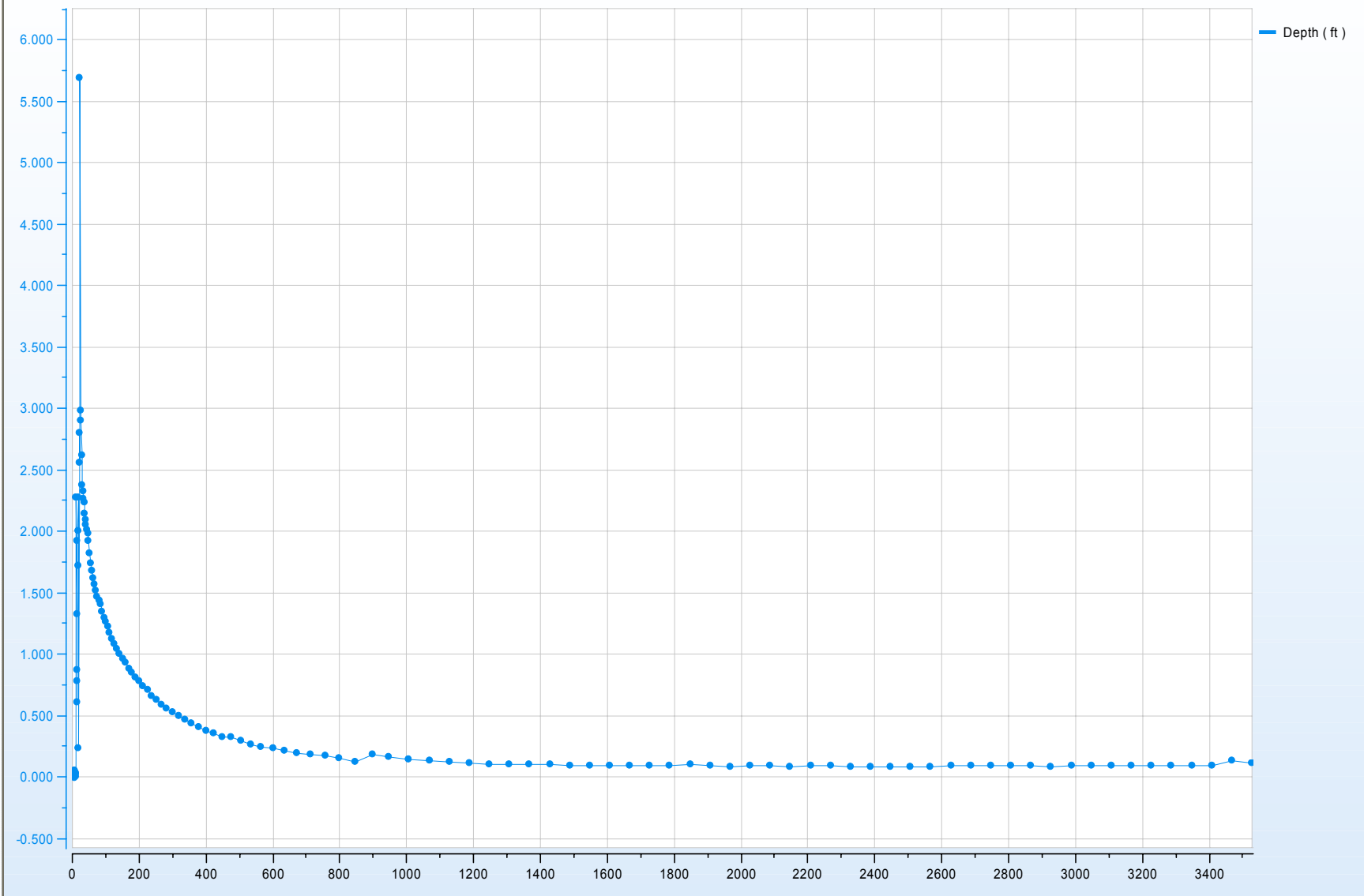
OW-622 RISING HEAD 2006-07-06 13-30-25



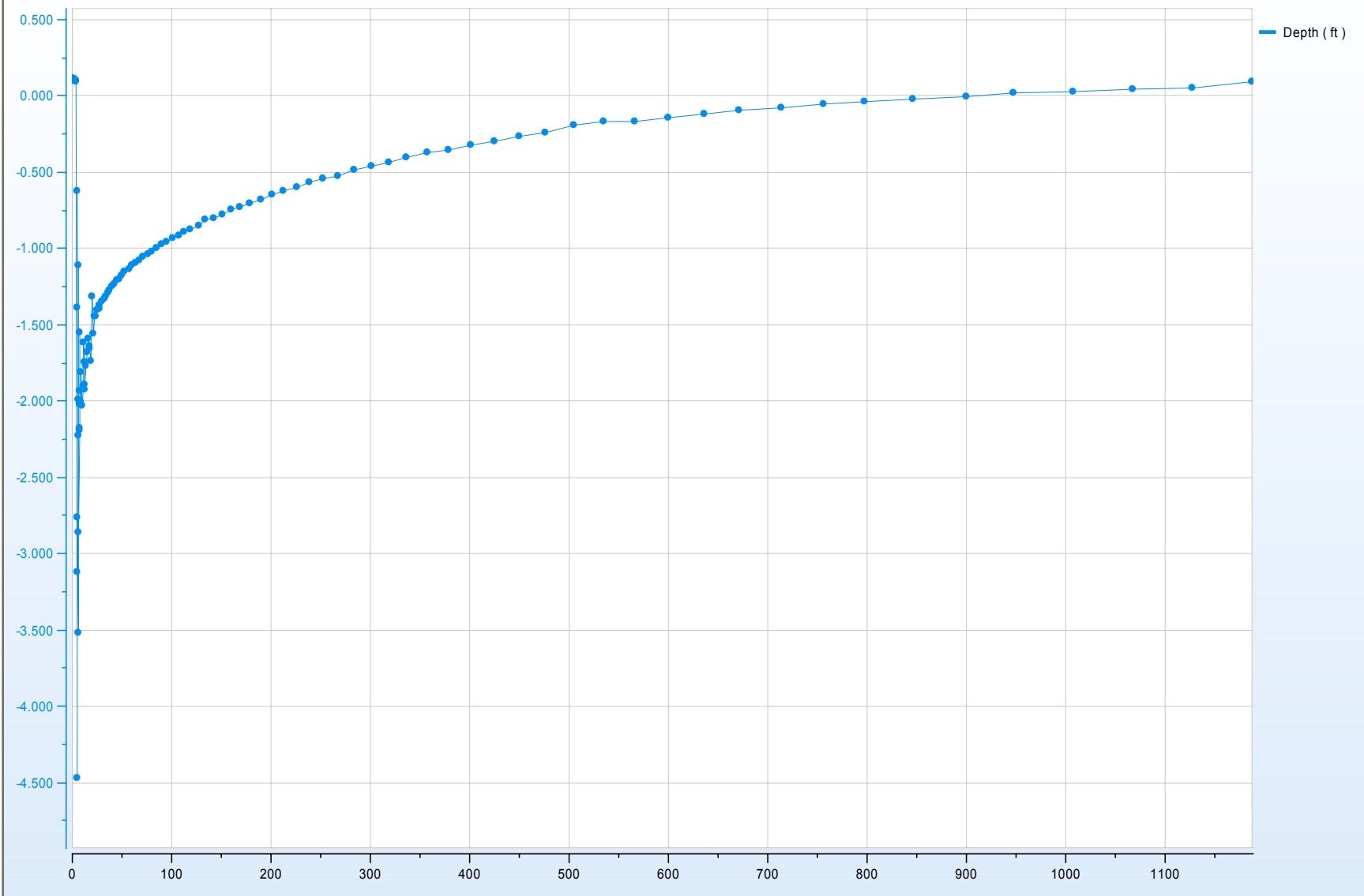
OW-623 BACKGROUND 2006-06-28 12-01-36



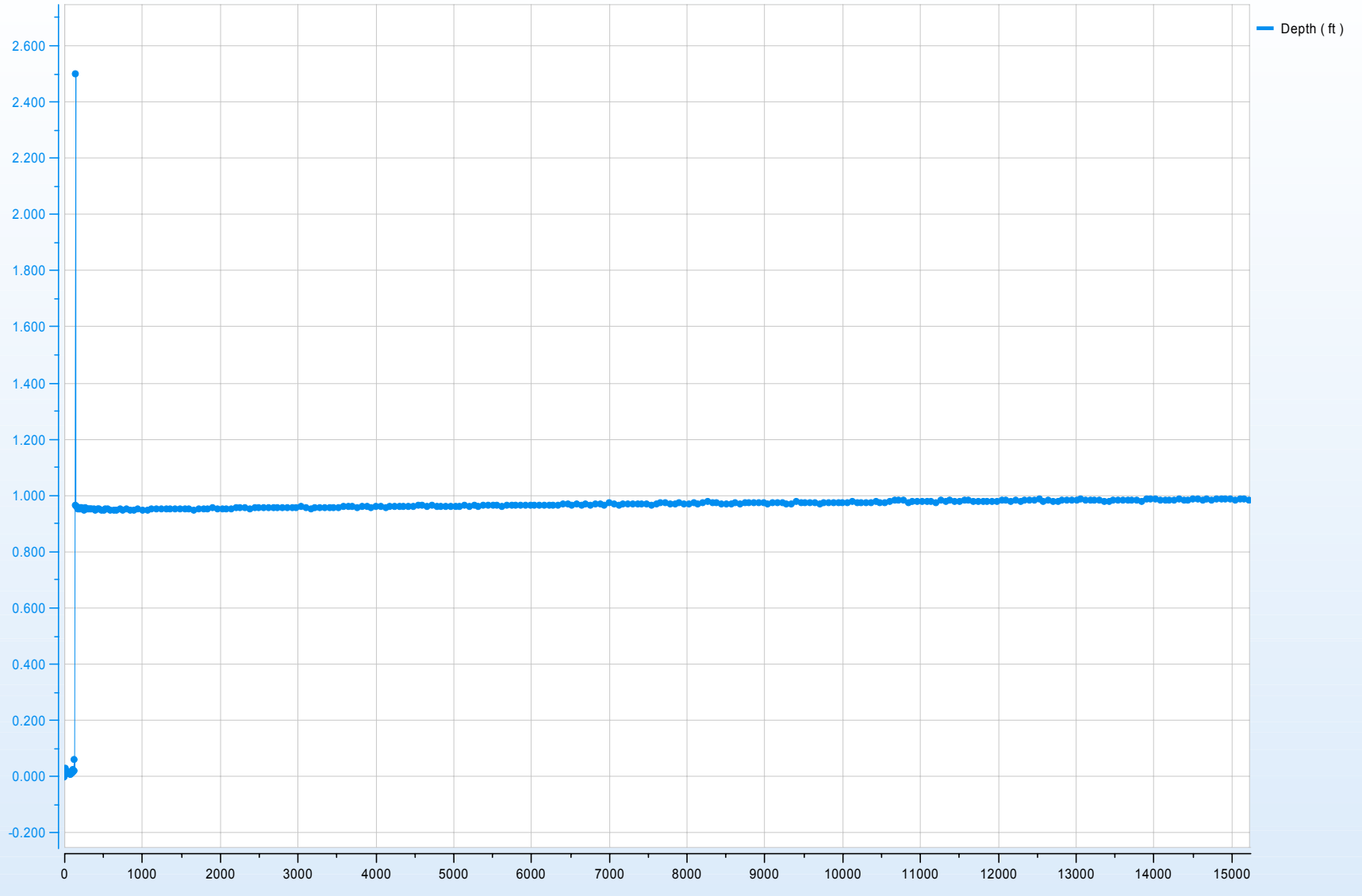
OW-623 FALLING HEAD 2006-06-28 13-06-57



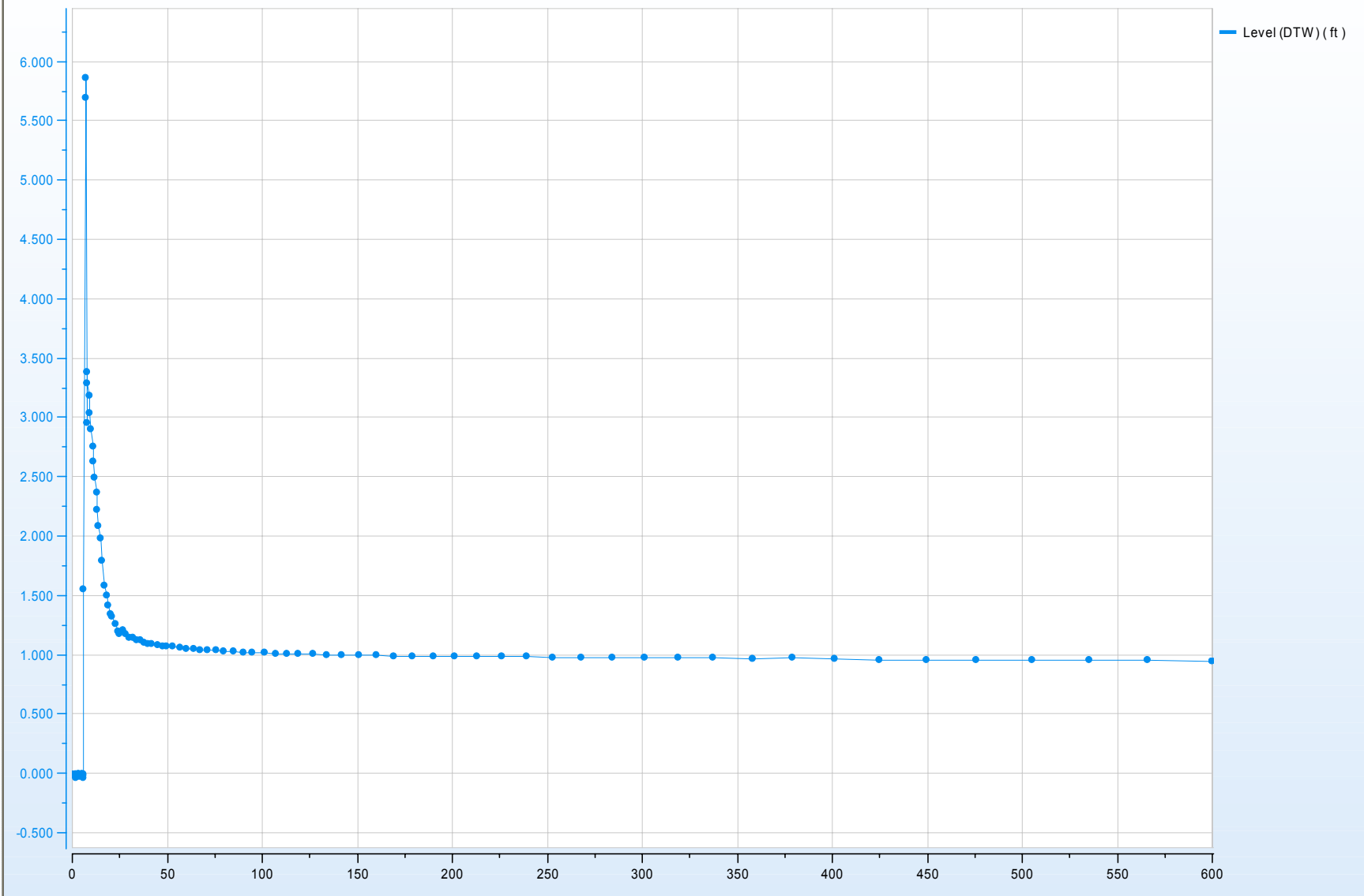
0W-623 RISING HEAD 2006-06-28 13-33-45



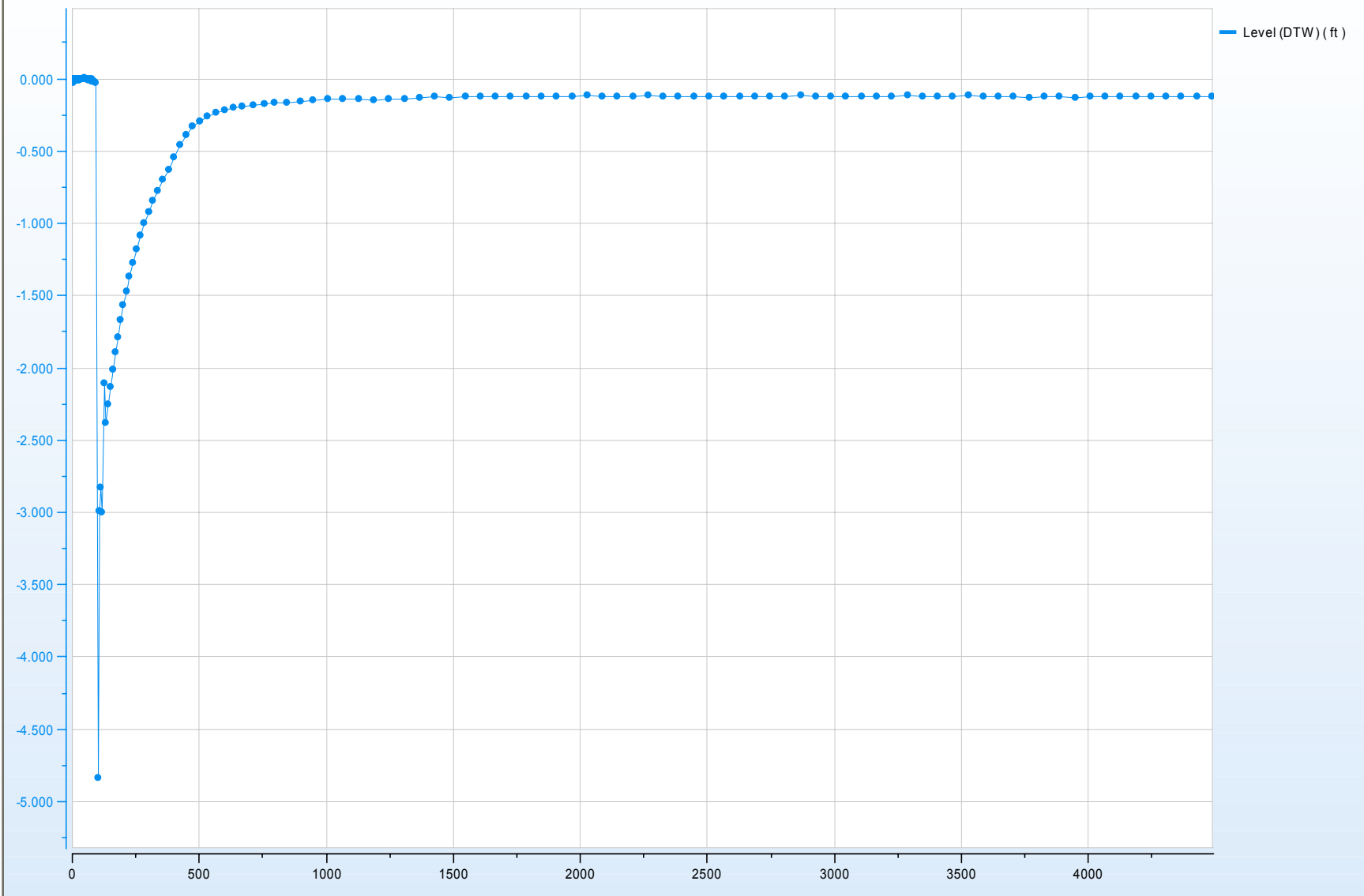
0W-624 BACKGROUND 2006-07-07 14-20-33



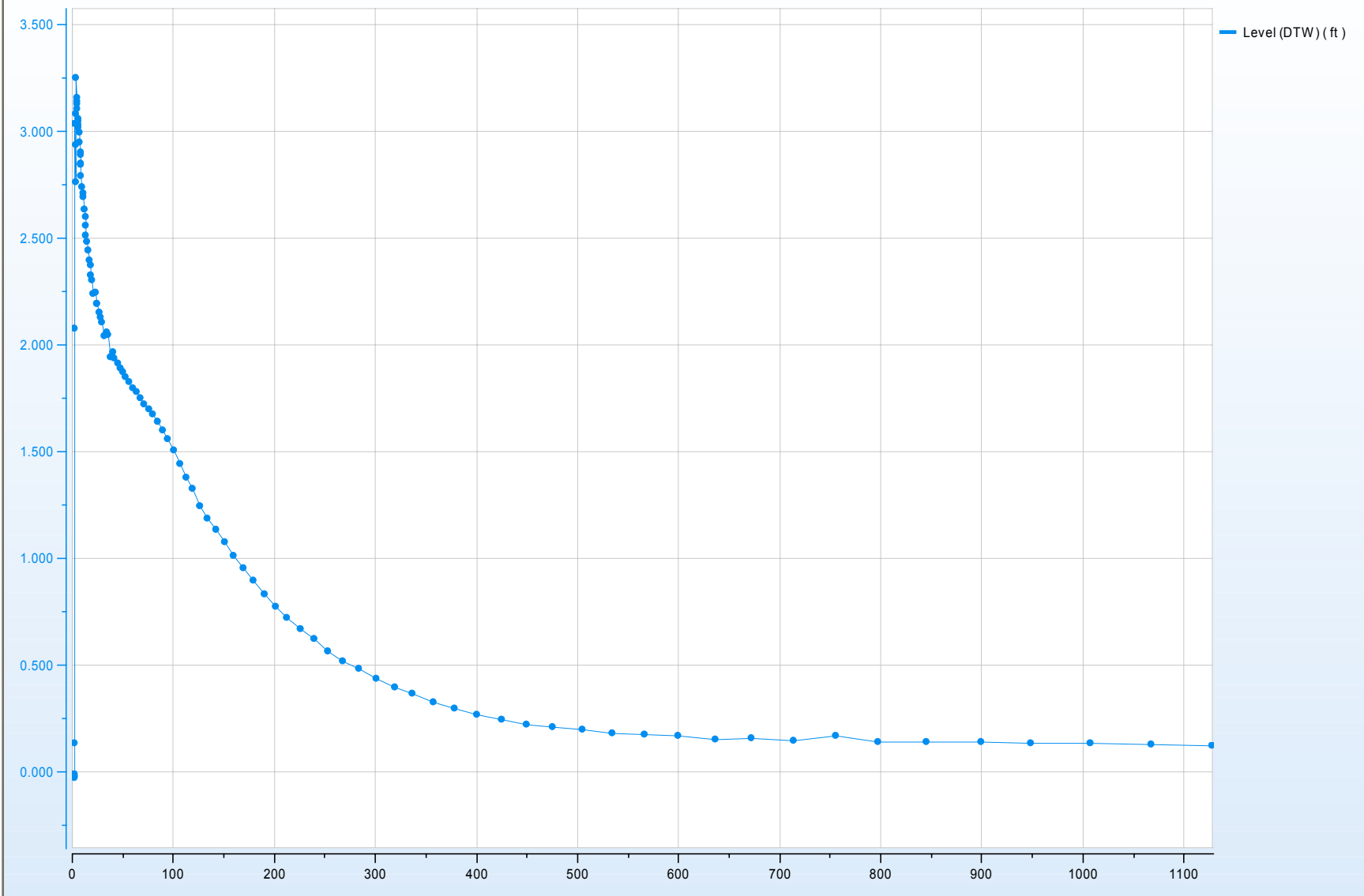
OW-624 RISING HEAD 2006-07-07 14-38-23



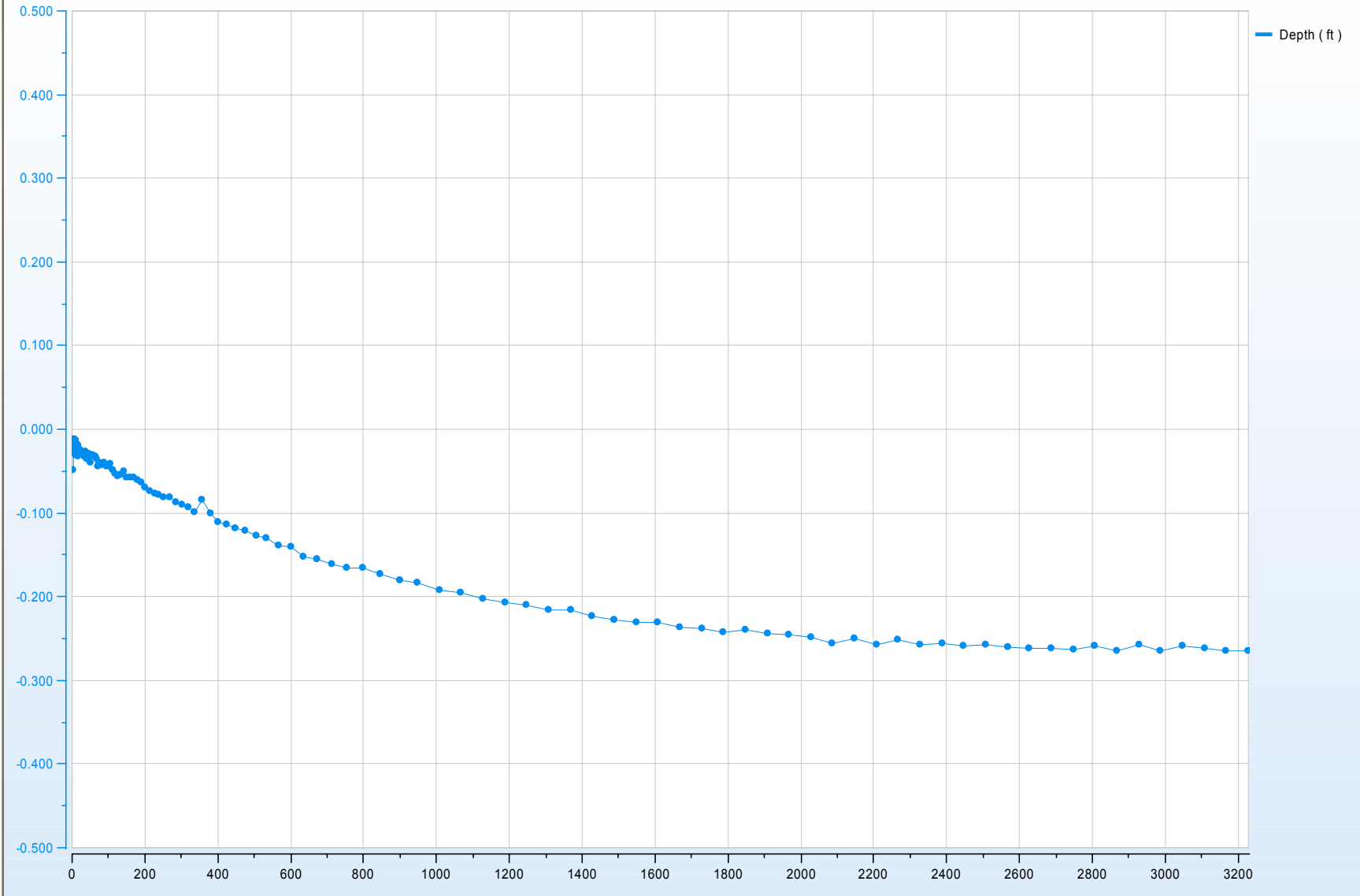
OW-625 BACKGROUND 2006-07-07 16-18-10



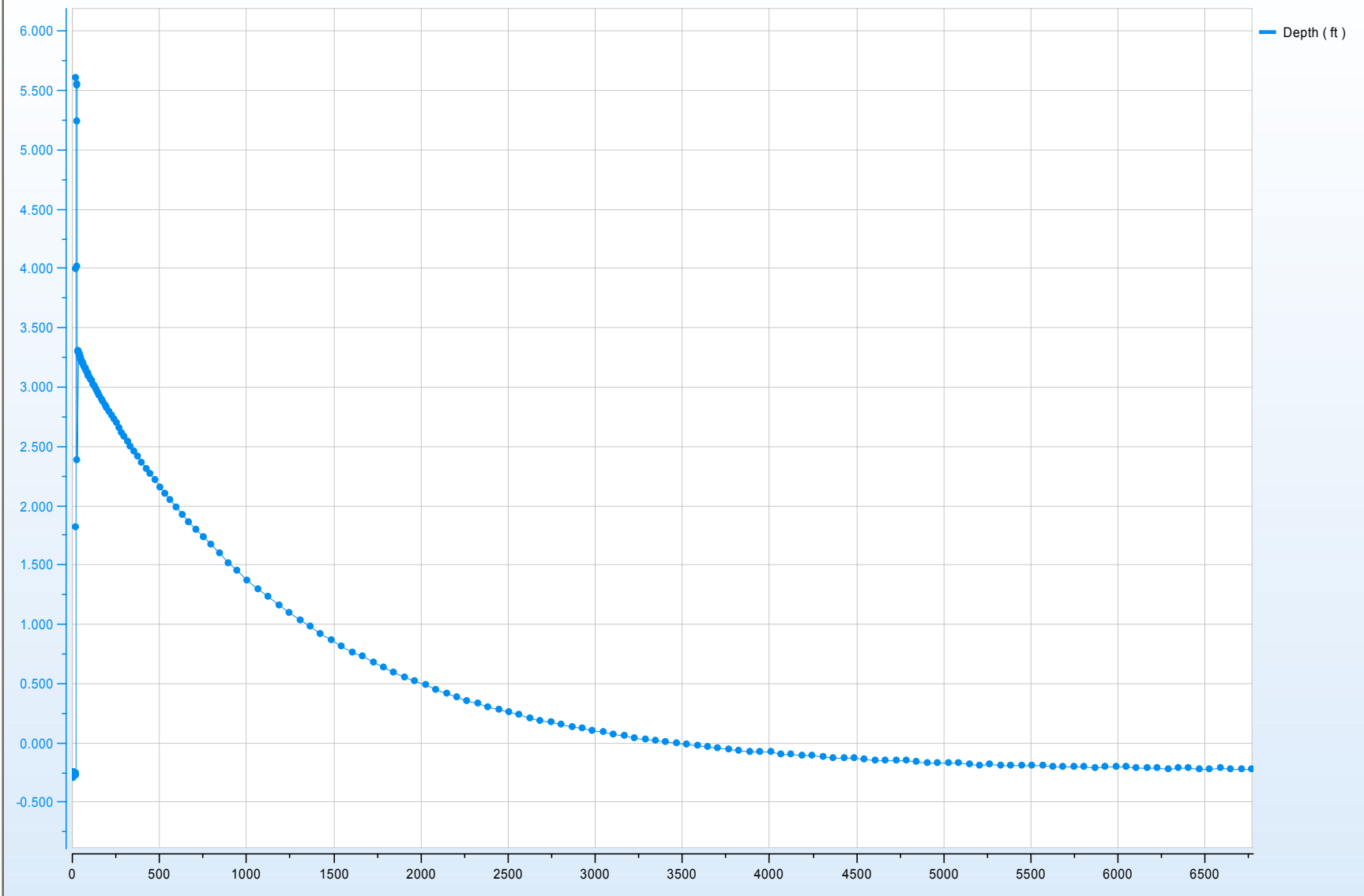
OW-625 RISING HEAD TEST 2006-07-07 16-44-45



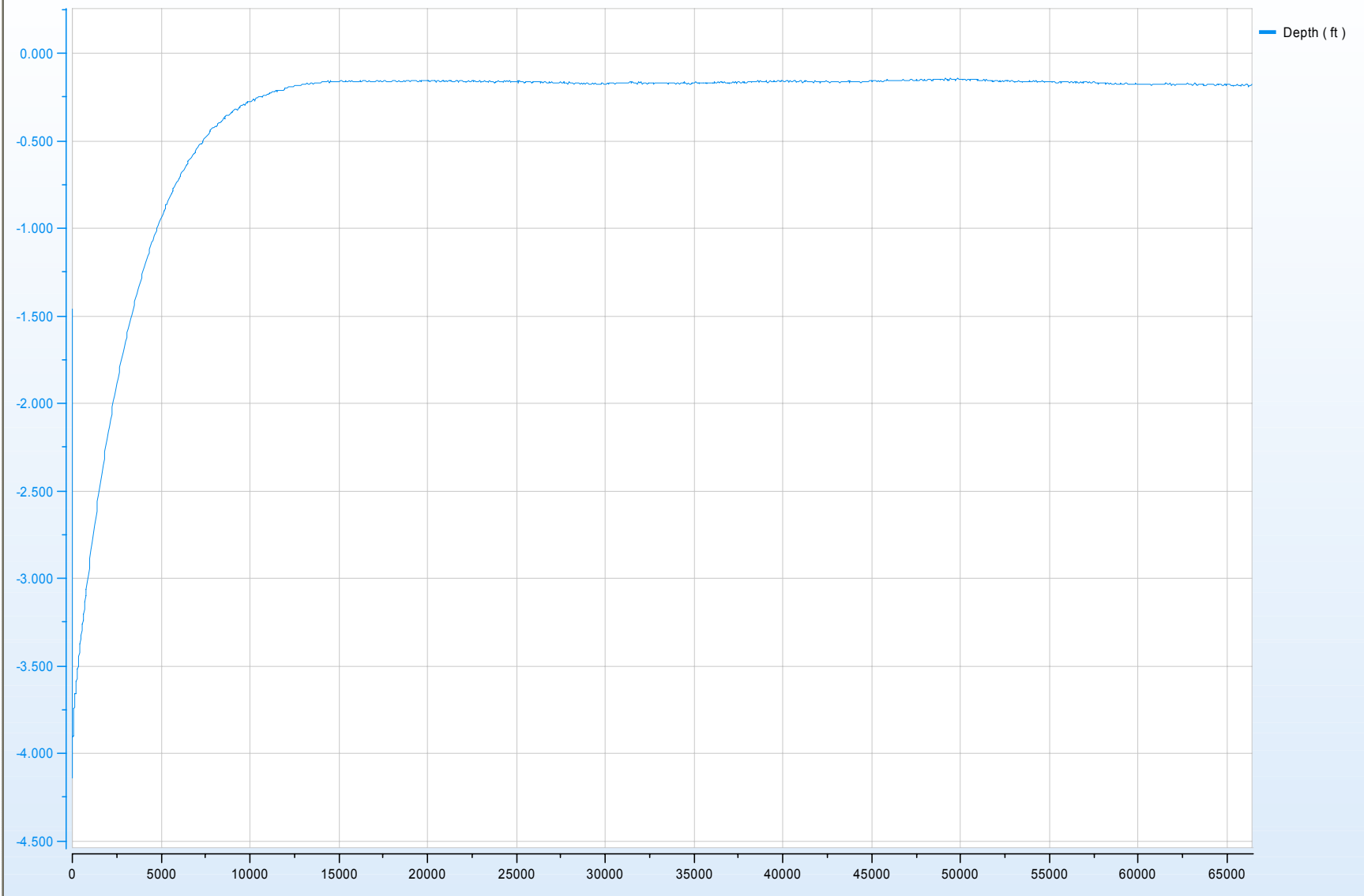
OW-626 BACKGROUND 2006-07-05 12-32-34



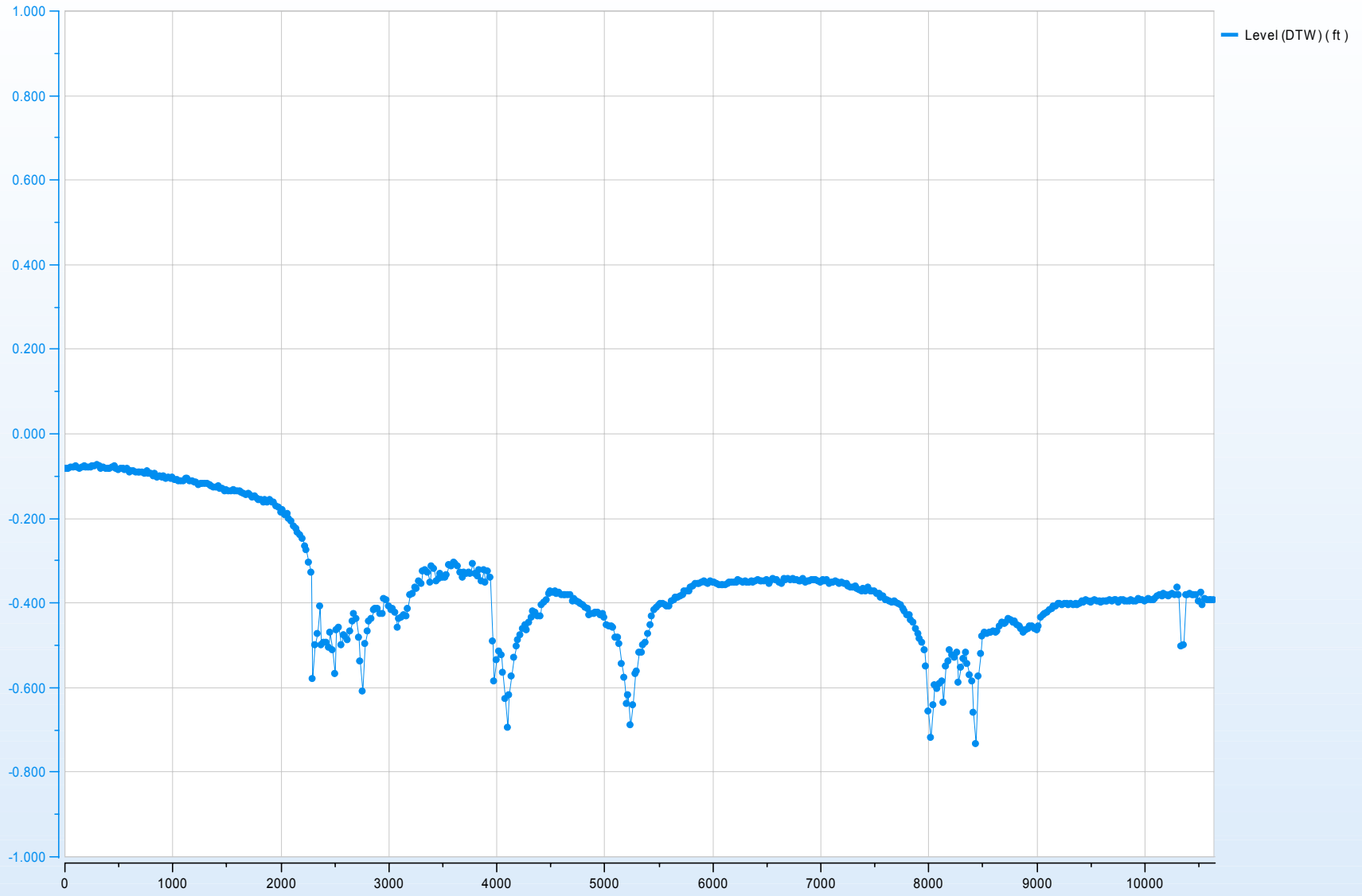
OW-626 FALLING HEAD 2006-07-05 14-33-09



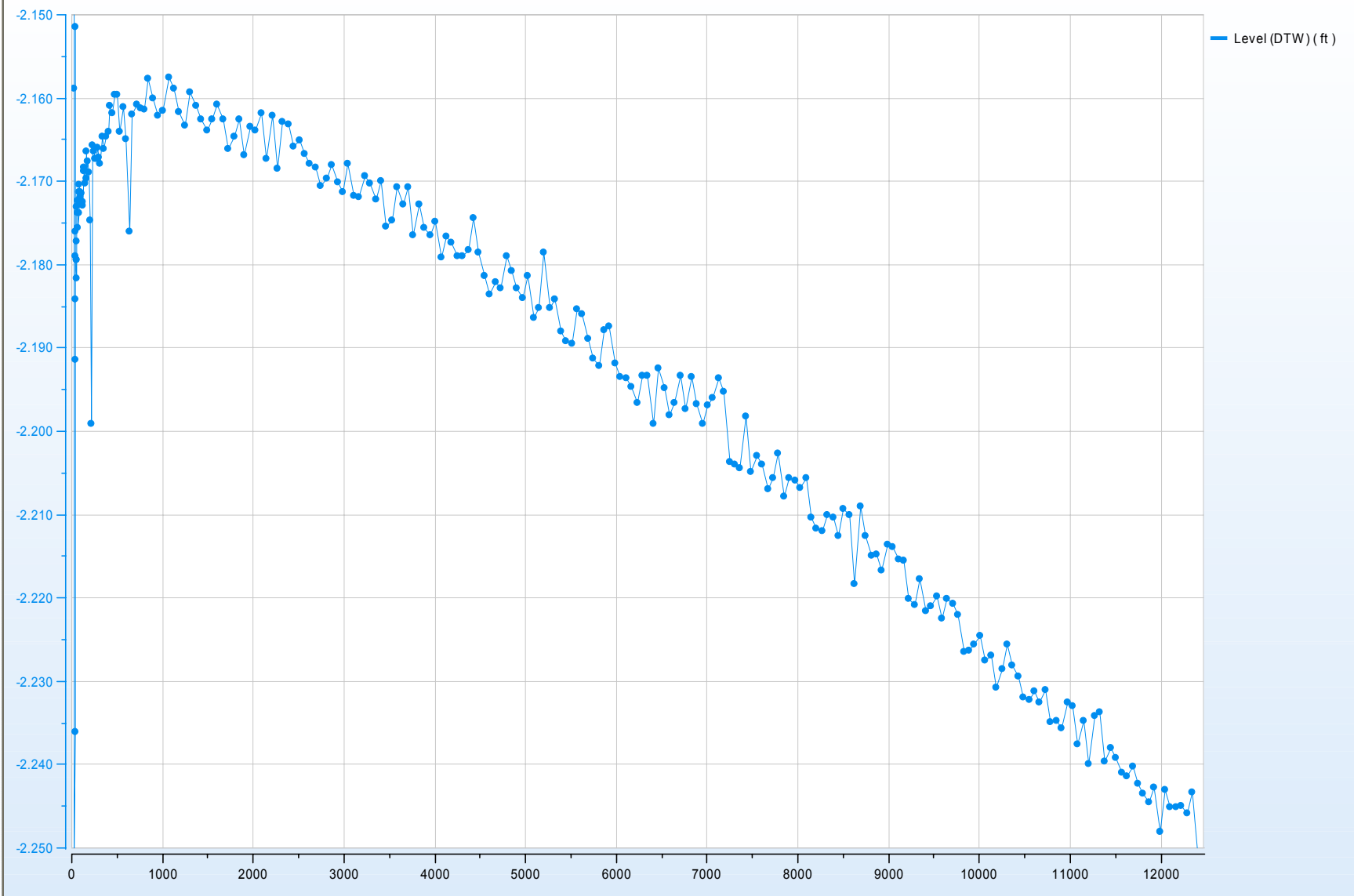
OW-626 RISING HEAD 2006-07-06 09-08-00



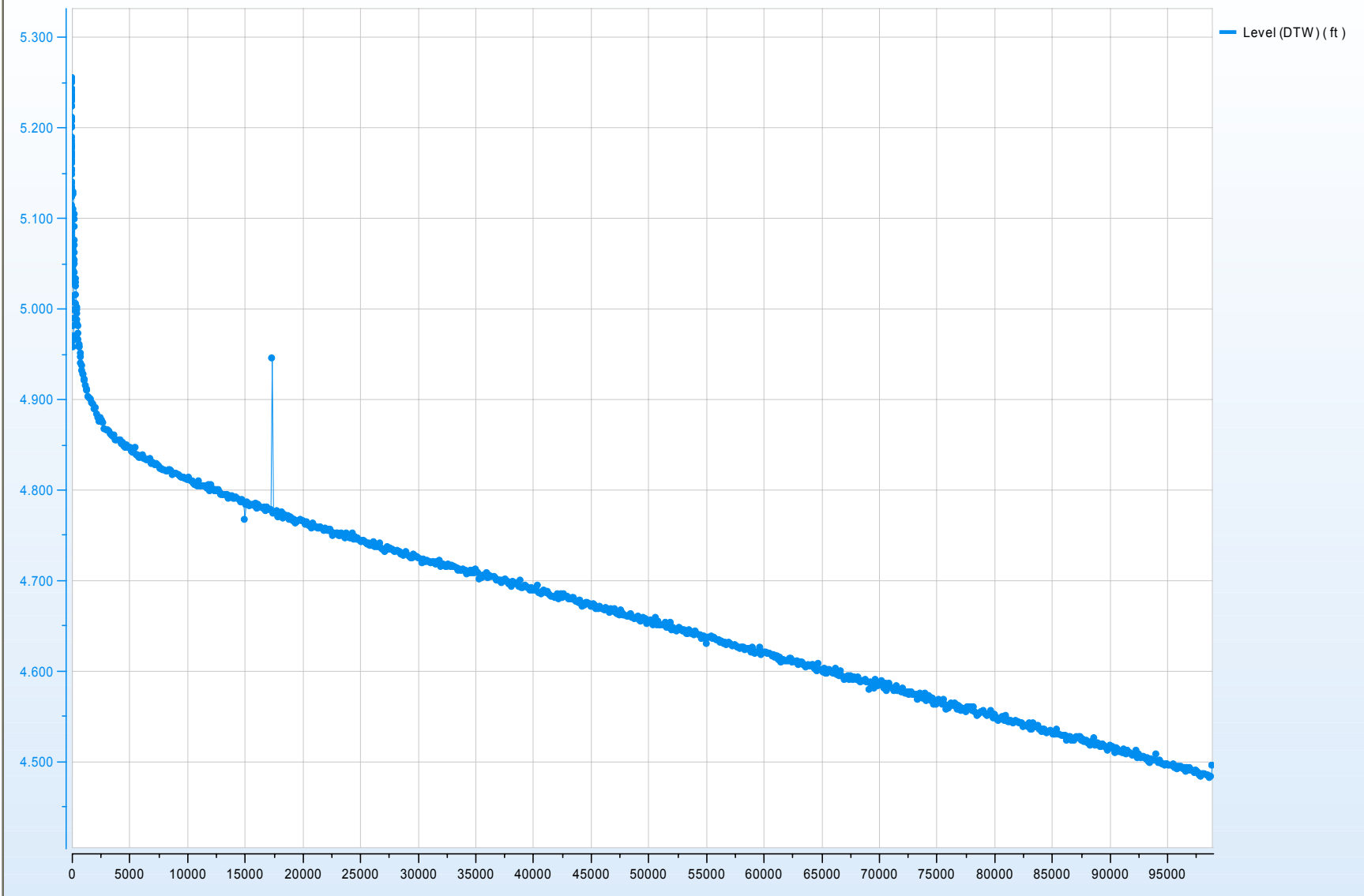
OW-627A BACKGROUND 2006-07-09 13-42-51



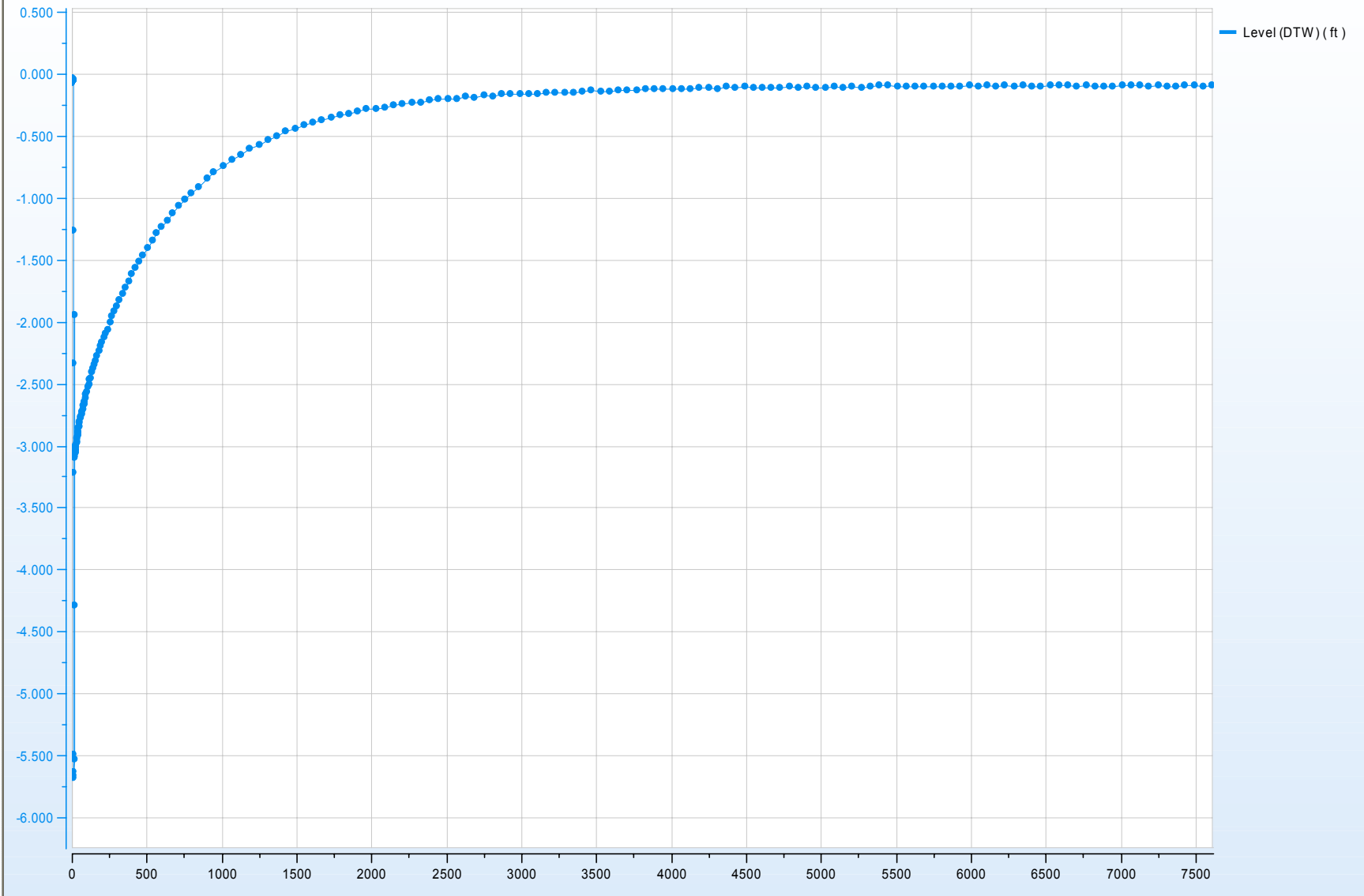
OW-627A FALLING HEAD 2006-07-09 17-18-12



OW-627A RISING HEAD 2006-07-11 14-32-23



OW-627B FALLING HEAD 2006-07-10 17-57-26



OW-627B RISING HEAD 2006-07-10 15-45-58

