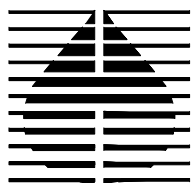


JUNE 13, 2013

ADDITIONAL GROUNDWATER ASSESSMENT
AND
MONITOR WELL CONSTRUCTION REPORT
(MW-36 AND MW-37)
RAYTHEON COMPANY
1901 WEST MALVERN AVENUE
FULLERTON, CALIFORNIA

PREPARED FOR:
RAYTHEON COMPANY



HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING



HARGIS + ASSOCIATES, INC.
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June 13, 2013

VIA FEDERAL EXPRESS – STANDARD

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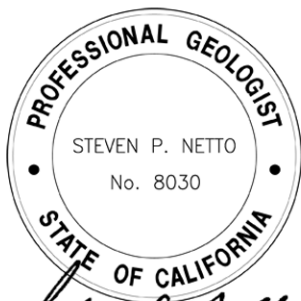
Re: Transmittal of Additional Groundwater Assessment and Monitor Well Construction Report
(MW-36 and MW-37), Raytheon Company, 1901 West Malvern Avenue, Fullerton, California

Dear Mr. Jeffers:

Enclosed is one hard copy with a compact disc that contains a copy of the above-referenced report. If you have any questions or require further information, please contact us at 858-455-6500.

Sincerely,

HARGIS + ASSOCIATES, INC.



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June 13, 2013
Page 2

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ADDITIONAL GROUNDWATER ASSESSMENT
AND
MONITOR WELL CONSTRUCTION REPORT

(MW-36 AND MW-37)

RAYTHEON COMPANY
1901 WEST MALVERN AVENUE
FULLERTON, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

AGAWP	Additional Groundwater Assessment Work Plan
ASTM	American Society for Testing and Materials
bls	Below land surface
CACA	Corrective Action Consent Agreement
1,1-DCE	1,1-Dichloroethylene
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
DWR	California Department of Water Resources
H+A	Hargis + Associates, Inc.
LAS	Lower Aquifer System
MAS	Middle Aquifer System
msl	Mean sea level
OCGB	Orange County Groundwater Basin
PVC	Polyvinyl Chloride
Raytheon	Raytheon Company
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
the Site	1901 West Malvern Avenue, Fullerton, California
UAS	Upper Aquifer System
SOPs	Standard operating procedures
VOCs	Volatile Organic Compounds

ADDITIONAL GROUNDWATER ASSESSMENT
AND
MONITOR WELL CONSTRUCTION REPORT

(MW-36 AND MW-37)

RAYTHEON COMPANY
1901 WEST MALVERN AVENUE
FULLERTON, CALIFORNIA

1.0 INTRODUCTION

This Additional Groundwater Assessment and Monitor Well Construction Report has been prepared by Hargis + Associates, Inc. (H+A) on behalf of Raytheon Company (Raytheon), formerly Hughes Aircraft Company, for the site located at 1901 West Malvern Avenue, Fullerton, California (the Site) (Figures 1 and 2).

Activities described in this report were conducted in accordance with the Additional Groundwater Assessment Work Plan (AGAWP) Addendum No. 4 pursuant to general requirements of a Resource Conservation and Recovery Act (RCRA) Corrective Action Consent Agreement (CACA) between California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and Raytheon (H+A, 2011b; DTSC, 2003). The AGAWP Addendum No. 4 was approved by DTSC on November 8, 2010 (DTSC, 2011).

1.1 PURPOSE AND SCOPE

This report describes the drilling and installation of monitor wells MW-36 and MW-37. Data submittals detailing initial and confirmation groundwater sampling of the newly constructed monitor wells MW-36 and MW-37 were recently submitted separately (H+A, 2012 and 2013a). The monitor wells were installed to delineate the distribution of volatile organic compounds (VOCs), principally 1,1-dichloroethylene (1,1-DCE) and 1,4-dioxane, in the Target Zone (Unit B), and to assess regional groundwater quality of the Target Zone to the south of the Site.

This report is organized as follows:

- Section 1 includes the purpose and organization of the report, and summarizes the objectives and findings from the well construction conducted as part of the tasks outlined in the AGAWP Addendum No. 4 (H+A, 2011b).
- Section 2 presents a general description of the regional geologic and hydrogeologic framework of the Site vicinity.
- Section 3 presents a description of the methods used during drilling and construction of the additional monitor wells.
- Section 4 summarizes conclusions and provides recommendations.
- Section 5 lists the references cited in this report.

1.2 GROUNDWATER ASSESSMENT TASKS AND OBJECTIVES

The following describes the tasks presented in the AGAWP Addendum No. 4 and the respective objectives.

1.2.1 Groundwater Assessment Task 1: Install and Sample Two Monitor Wells West of Existing Nested Monitor Well MW-32

In January 2012, off-Site Target Zone monitor well MW-36 was installed within the regional groundwater system approximately 3,200 feet west of existing nested monitor well MW-32, south of Malvern Avenue (Figure 2). This well was constructed with two screens separated by a short interval of blank casing in the Target Zone (Figure 3) (H+A, 2012). A second off-Site Target Zone monitor well was proposed to be installed along the Brea Creek Channel to the east of monitor well MW-36 and west of nested monitor well MW-32. However; due to the lack of a suitable and safe drilling location in this area, the additional well was not installed, and the

location for installation of monitor well MW-36 was moved a short distance to the east, to an area between the original two proposed well locations, as discussed with the DTSC prior to mobilization (2011c).

1.2.1.1 Objectives

The objectives of this task were to: 1) provide constraints on the lateral extent of VOCs and 1,4-dioxane in the Target Zone to the west of nested monitor well MW-32; and 2) to provide additional data to determine the groundwater flow direction in the Target Zone west of nested monitor well MW-32.

Installation and sampling of monitor well MW-36 has accomplished the following:

- Refined the delineation of VOCs and 1,4-dioxane in the Target Zone west of nested monitor well MW-32. VOCs, principally 1,1-DCE and 1,4-dioxane, have been detected in groundwater samples collected from monitor well MW-36 providing additional information on the distribution of these compounds in the Target Zone west of nested monitor well MW-32 (H+A, 2012).

The objectives of this task were met by the drilling, installation, and sampling of monitor well MW-36. Additional assessment is proposed to assess the distribution of VOCs and 1,4-dioxane in the Target Zone west of this newly installed monitor well. The proposed assessment tasks are outlined in AGAWP Addendum No. 5 (H+A, 2013b).

1.2.2 Groundwater Assessment Task 2: Install One Monitor Well West of Existing Monitor Well MW-34

In October 2012, off-Site Target Zone monitor well MW-37 was installed approximately 2,100 feet west of the monitor well MW-34 cluster, north of Malvern Avenue (Figure 2). This well was constructed with a single screen in the Target Zone (Figure 4) (H+A, 2013a).

1.2.2.1 Objectives

The objectives of this task were to: 1) provide constraints on the lateral extent of VOCs and 1,4-dioxane in the Target Zone west of the monitor well MW-34 cluster; and 2) provide additional data to determine the groundwater flow direction in the Target Zone west of the monitor well MW-34 cluster.

Installation and sampling of monitor well MW-37 has provided the following:

- VOCs and 1,4-dioxane have not been detected in groundwater samples collected from monitor well MW-37 (H+A, 2013a). The water elevations at monitor well MW-37 are 10 to 20 feet higher than surrounding Target Zone monitor wells (Table 1); additional groundwater assessment was conducted to help determine the hydrostratigraphic position of the screened interval of monitor well MW-37. The data was generally inconclusive and, therefore, the delineation of VOCs and 1,4-dioxane in the Target Zone west of the monitor well MW-34 cluster has not been determined (H+A, 2013c).

The objectives of this task have not yet been met. Additional assessment has been proposed to assess the distribution of VOCs and 1,4-dioxane in the Target Zone in the vicinity of this newly installed monitor well. The proposed assessment tasks are outlined in AGAWP Addendum No. 5 (H+A, 2013b).

2.0 REGIONAL GEOLOGIC AND HYDROGEOLOGIC OVERVIEW

This section presents a summary of recent investigations conducted at the Site since 2008 that are pertinent to additional groundwater assessment activities that are summarized herein. A summary of investigations conducted prior to 2003, Site conditions, regulatory background, and areas of the Site that are the subjects of the CACA are presented in the Corrective Measures Study Workplan and the AGAWP (H+A, 2003a and 2003b). A description of the geologic and hydrogeologic conditions at and in the vicinity of the Site is provided in the Deep Boring and Well Construction and Groundwater Sampling Report, and the Additional Groundwater Assessment Primary Transport Zone (Target Zone) Well Construction and Groundwater Sampling Report (H+A, 2005 and 2009). Results of aquifer hydraulic testing conducted at monitor well MW-31 and extraction well EW-02 are summarized in the Aquifer Hydraulic Testing and Preliminary Groundwater Capture Zone Analysis Technical Memorandum (H+A, 2010a). The most recent well construction reports summarize installation of monitor wells MW-31 through MW-35, which provided information that delineated the lower portion of the structural fold observed beneath and in the vicinity of the Site (H+A, 2010b and 2011a).

2.1 REGIONAL HYDROGEOLOGY FRAMEWORK

The Site is located within the Orange County Groundwater Basin (OCGB). Aquifers in the OCGB have been divided into three separate systems called the upper, middle, and lower regional groundwater systems (California Department of Water Resources [DWR], 1967).

The Upper Aquifer System (UAS) is located within the OCGB to the south of Malvern Avenue. The UAS in this area includes stream terrace and older alluvial deposits as well as the La Habra/Lakewood formation. It is believed that coarse-grained facies in the La Habra/Lakewood formation, corresponding to the upper aquifer, pinch out south of the Coyote Hills or are folded and unconformably truncated near the southern boundary of the Site (H+A, 2005).

The Middle Aquifer System (MAS) underlies the UAS to the south of Malvern Avenue and extends to approximately -1,500 feet mean sea level (msl) in this area. The MAS is believed to include the Coyote Hills formation and the San Pedro formation and may include portions of the La Habra formation incised as channels into the underlying Coyote Hills formation.

The Lower Aquifer System (LAS) underlies the MAS and extends to the base of the freshwater zone. The LAS is believed to include portions of the Fernando group of Pliocene age. The base of the freshwater zone in the vicinity of the Site is estimated to be approximately -300 feet msl just north of the Site and -3,000 feet msl south of the Site in the OCGB (DWR, 1967). The base of the freshwater zone immediately beneath the Site has not been established.

Groundwater production in the OCGB is primarily from the lower portion of the UAS and the upper portion of the MAS between approximately -250 feet msl and 1,000 feet msl (DWR, 1967).

2.2 SITE HYDROGEOLOGY

Site hydrostratigraphic units consist of strata having similar hydraulic properties and lithologic characteristics, which have been correlated across the Site. The soils encountered at the Site are generally interbedded sand, silty to clayey sand, sandy silt, and sandy clay, with local gravel layers (H+A, 1998). Evaluation of strata on a relatively small scale, on the order of inches to a foot or two, indicate that soil types encountered in the subsurface are typically very discontinuous, precluding detailed correlation between boreholes. However, some larger-scale correlations have been made at the Site and vicinity as described below.

The conceptual groundwater model for the Site was refined after completion of additional groundwater assessment activities in 2004, and confirmed and further refined during the 2008 through 2011 well construction activities. Specific results of prior additional assessment activities were documented after discrete phases of work in several well construction and groundwater sampling reports, (H+A, 2005, 2009, and 2010b). The following provides a general overview based on the RCRA Facility Investigation (RFI) and well construction reports for the Site.

Two localized perched zones were identified under portions of the Site during the course of the RFI (H+A, 1998). Perched zones were identified based on the occurrence and behavior of groundwater, and are not clearly expressed lithologically. The perched zones do not represent a usable source of groundwater due to the limited area over which they occur and the small quantities of water flowing through these zones.

The water table in the regional groundwater system beneath the Site occurs in sand, silt, and clay (H+A, 1998). The upper portion of the regional groundwater system is heterogeneous as indicated by the differences in the lithology encountered during the construction of the groundwater monitor wells. The hydraulic conductivity of these sediments was estimated to range from approximately 0.1 foot per day to approximately 100 feet per day. Wells completed in lithologic intervals with varying degrees of hydraulic communication with each other and with aquifer units in the OCGB respond differently to changes in regional water levels. Those in good communication respond rapidly to regional changes, while those in finer-grained or isolated lithologic units exhibit a dampened and delayed response to regional water level changes. This differential response may also appear as a reversal of the vertical hydraulic gradients in the vicinity of paired monitor well groupings. Such reversals tend to be repeated, representing a seasonally-linked pattern of gradient reversals, from downwards during periods of expected high basin-wide groundwater extraction to upwards during the shorter winter season (H+A, 2005).

The hydrogeology in the southern portion of the Site is heterogeneous and is interpreted to include a structural fold based on regional subsurface studies and on an evaluation of Site lithology, geophysical, water level, and water quality trends (H+A, 2005, 2009, and 2010b). A conceptual groundwater model was developed as part of the RFI and was subsequently refined to incorporate this structural feature following subsequent phases of additional subsurface exploration, such as exploratory borings and installation of deep monitor wells. The conceptual groundwater model is intended to be descriptive of conditions observed in the subsurface, as well as predictive of geologic and hydrogeologic conditions likely to be encountered in the course of any additional subsurface work. The groundwater conceptual model is intended to describe conditions at both the regional scale and at the smaller,

Site-specific scale. It is expected that the conceptual model will continue to be refined with time as it is continuously tested against additional new groundwater monitoring data and other new data that may become available. The conceptual groundwater model has been refined based on available groundwater monitoring data to date, and the primary geologic/hydrogeologic structural feature at and in the vicinity of the Site is described in the following paragraph.

Strata underlying the southern flank of the Coyote Hills are believed to dip gently southward to the north of the Site, and are well documented to be nearly horizontal in the OCGB south of the Site (DWR, 1967). The southern boundary of the Coyote Hills exhibits a monoclinial fold below the surficial terrace deposits, resulting in local southward dip of approximately 42 degrees between exploratory boring EB-1 and monitor well MW-31 (H+A, 2010b).

3.0 TARGET ZONE GROUNDWATER ASSESSMENT WELL INSTALLATIONS

Two monitor wells were drilled and constructed adjacent to the Site during the period November 2011 through January 2012 and in October 2012 as outlined in the AGAWP Addendum No. 4. Well locations were selected in concurrence with DTSC (H+A, 2011b). The locations of new monitor wells MW-36 and MW-37 are shown on the Site well and piezometer location map (Figure 2).

Prior to drilling, well locations were cleared for underground utilities by Underground Services Alert and Spectrum Geophysics, Burbank, California, using various subsurface utility detection technologies. Monitor well MW-36 was drilled and installed during the period November 28, 2011 through January 3, 2012. Monitor well MW-37 was drilled and installed during the period October 1, 2012 through October 19, 2012. Both monitor wells were drilled using mud-rotary circulation drilling method. The drilling contractor was WDC Inc., Montclair, California, for the drilling and installation of monitor well MW-36 and National, Inc., Montclair, California, for the drilling and installation of monitor well MW-37.

Drilling and well construction was conducted in accordance with the AGAWP Addendum No. 4 (H+A, 2011b), standard operating procedures (SOPs) specified in Appendix A of the AGAWP (H+A, 2003b), and subsequently amended for the deep groundwater program (H+A, 2004a, 2004b, and 2004c).

Liquid and solid waste generated during well construction operations was handled, contained, and disposed of in accordance with SOPs specified in Appendix A of the AGAWP (H+A, 2003b). Documentation of waste characterization and off-Site disposal has been provided (Appendix A).

The following sections describe drilling equipment, drilling methods, lithologic logging, geophysical logging, and well construction.

3.1 DRILLING OF MUD-ROTARY BOREHOLES

A single pass, nominal 12-inch diameter borehole was drilled for each monitor well installed to obtain lithologic samples and conduct geophysical logging prior to well construction. Monitor wells MW-36 and MW-37 were drilled using drill rigs configured to drill via mud-rotary circulation (Speedstar 30K and Speedstar 50K, respectively). A temporary steel conductor casing was advanced to approximately 40 feet below land surface (bls) at monitor well MW-36 and approximately 10 feet bls at monitor well MW-37.

Well boreholes were advanced to approximately 1,004 feet bls and 916 feet bls at monitor wells MW-36 and MW-37, respectively. Aggregate grab sample soil cuttings were collected approximately every 5 feet to the total depth of the borehole for lithologic description.

Lithologic logging and soil sampling were conducted during borehole drilling as described in Section 3.2. Downhole geophysical logging was conducted as described in Section 3.3. Following the borehole “wiper” or cleaning pass, the well screen, casing, and construction materials were installed. Once the monitor well was built, the temporary surface casing was removed and traffic-rated well vaults were installed at the surface as described in Section 3.4.

3.2 LITHOLOGIC LOGGING

Lithologic logging was used to define the lithology and thickness of geologic materials and to characterize subsurface geologic and hydrogeologic conditions. Lithologic logs were compiled based on description of aggregate grab samples recovered at land surface during mud rotary drilling. Soil samples for lithologic description were collected during mud rotary drilling using a sieve-type catcher set at the point where mud circulating out of the borehole enters the mud pit. Aggregate grab samples for lithologic description of the boreholes were collected and marked to represent 5-foot intervals (MW-36) and 10-foot intervals (MW-37).

Soil type was characterized using the Unified Soil Classification System (American Society for Testing and Materials [ASTM], 1984). Soil color was described using Munsell Soil Color Charts (Munsell Soil Color Charts, 1992). Grain size was estimated using ASTM standards

(ASTM, 1984). Lithologic logs for newly constructed monitor wells have been prepared (Appendix B).

3.3 GEOPHYSICAL LOGGING

The following describes geophysical logging conducted during drilling of monitor wells MW-36 and MW-37.

Immediately following reaching total depth during drilling of each pilot boring, the borehole was geophysically logged using downhole wireline logging tools. The following logs were run in each borehole:

- Caliper;
- Gamma ray;
- Spontaneous potential;
- Short- and long-normal resistivity; and
- Laterolog 3 (lateral log).

Geophysical logging was performed on December 20, 2011 at monitor well MW-36 and October 11, 2012 at monitor well MW-37 by Pacific Surveys, Claremont, California. Geophysical logs of the boreholes have been provided (Appendix C).

Geophysical logs were used to refine depth determinations of contacts observed in soil cuttings and documented on lithologic logs. Geophysical logs were also used in the evaluation of subsurface geology in the south and west, adjacent to the Site (Figure 6).

3.4 WELL CONSTRUCTION

The following section summarizes details of monitor well construction.

3.4.1 Well Construction, Monitor Well MW-36

Monitor well MW-36 was constructed in the Target Zone of the regional groundwater system. The base of the Target Zone at this location was determined based on evaluation of the lithologic and geophysical logs. Based on geophysical logging conducted at monitor well MW-36, the Target Zone was estimated to be from approximately 900 feet bls to 1,000 feet bls. The borehole was advanced to a total depth of approximately 1,030 feet bls to confirm the Target Zone interval. The final well design was determined based on lithologic and geophysical data and consultation with DTSC.

Upon the completion of borehole drilling, the lowermost portion of the pilot borehole was backfilled using bentonite chips from 1,030 to 1,003 feet bls. Bentonite chips were emplaced in the bottom of the borehole by placing a tremie pipe to within a few feet of the bottom of the borehole. The chips were then pumped into the borehole from the bottom up. The tremie pipe was then gradually withdrawn as the pellet level rose during emplacement. The bottom of the borehole was filled to a depth approximately equal to the bottom of the monitor well target screen interval. The bentonite chips were allowed to hydrate prior to installing the well screen and casing. Additionally, prior to installing the well casing, a wiper pass of the borehole was conducted to clean the borehole walls and thin the drilling mud.

Nominal 4-inch diameter stainless steel wire-wrap well screen (0.020-inch factory slotted) and nominal 4-inch diameter Schedule 80 polyvinyl chloride (PVC) blank well casing were installed from land surface to the target depth. Well screen lengths for monitor well MW-36 were 20 feet for both screen intervals. The well screens were installed in monitor well MW-36 from approximately 934 to 954 feet bls, and 974 to 994 feet bls. A 20-foot section of blank stainless steel well casing was installed between the two well screens opposite a relatively fine-grained zone (Appendices B and C). The well was cased from the top of the upper screen to near land surface using 4-inch diameter Schedule 80 PVC. Centralizers were installed approximately at the top and bottom of the screen interval and at approximate 40-foot intervals along the blank well casing (Table 2; Figure 3).

A filter pack consisting of Monterey No. 2/12 sand was pumped in using a tremie pipe set in the annulus between the well screen and the borehole wall. An approximate 60-foot thick transition seal grout filter was pumped in the annulus above the filter pack using non-beneficiated medium bentonite chips. After allowing the bentonite to hydrate, high-solids bentonite grout was pumped by tremie pipe in the annulus between the well casing and the borehole wall from the top of the grout filter to approximately 95 feet bls. The annular seal transitioned to cement (with up to 5 percent bentonite) in the interval above the approximate water table elevation of 95 feet bls to near land surface. A short interval of bentonite chips was emplaced as a grout filter from approximately 23 feet bls to approximately 19 feet bls, and then concrete was used to fill the remaining annular space above 19 feet bls to land surface. Monitor well MW-36 was completed with a locking, traffic-rated, subsurface well vault set in concrete at land surface, slightly above grade of the surrounding gravel road. Monitor well construction details have been provided (Table 2; Figure 3; Appendix C).

Initial development of monitor well MW-36 was performed immediately following installation and consisted of surging and bailing to remove heavy drilling mud. Development methods incorporated swabbing, bailing, airlifting, and pumping. Several thousand gallons of fluids were removed from monitor well MW-36 during development, representing more than 10 casing volumes from the well.

Monitor well MW-36 was equipped with a dedicated 230 Volt $\frac{3}{4}$ -Horsepower 3-inch Grundfos electric submersible pump (22SQ15-220 1-HP 230V) for groundwater purging and sampling; the dedicated pump was set at approximately 460 feet bls, approximately 475 feet above the upper screen interval. Monitor well MW-36 was equipped with 200 feet of 1-inch PVC sounding tube. The bottom 20 feet of the sounding tube consists of 0.020-inch slotted PVC screen.

3.4.2 Well Construction, Monitor Well MW-37

Monitor well MW-37 was constructed in an interval that was interpreted as the Target Zone of the regional groundwater system at this location. The base of the Target Zone at this location was estimated based on evaluation of the lithologic and geophysical logs. Based on geophysical logging conducted at monitor well MW-37, the Target Zone was estimated to be from

approximately 760 feet bls to 830 feet bls. The borehole was advanced to a total depth of approximately 916 feet bls to confirm the Target Zone interval. The final well design was determined based on lithologic and geophysical data and consultation with DTSC.

Upon the completion of borehole drilling, the lowermost portion of the pilot borehole was backfilled using neat cement with approximately 5 percent bentonite grout. A tremie pipe was set to within a few feet of the bottom of the borehole and the cement grout was then pumped into the borehole from the bottom of the borehole up. The tremie pipe was then gradually withdrawn as the cement grout level rose during emplacement. The bottom of the borehole was filled to a depth approximately equal to the bottom of the monitor well target screen interval. The cement grout was allowed to cure prior to installing the well screen and casing. Additionally, prior to installing the well casing, a wiper pass of the borehole was conducted to clean the borehole walls and thin the drilling mud.

Nominal 4-inch diameter stainless steel wire-wrap well screen (0.020-inch factory slotted) and nominal 4-inch diameter Schedule 80 PVC blank well casing were installed from land surface to the target depth. The screen length for monitor well MW-37 was 50 feet. Centralizers were installed at the top and bottom of the screen interval and at 40-foot intervals along the blank well casing. The well screen was installed at monitor well MW-37 from 770 to 820 feet bls (Table 2; Figure 4).

Filter pack of Monterey No. 2/12 sand was pumped in using a tremie pipe set in the annulus between the well screen and the borehole wall. An approximate 30-foot thick transition seal grout filter was emplaced in the annulus above the filter pack using non-beneficiated medium bentonite chips. After allowing the bentonite chips to hydrate, a 50 percent bentonite chips/ 50 percent Monterey No 2/12 sand by volume was emplaced by tremie pipe in the annulus between the well casing and the borehole wall from the top of the grout filter to approximately 230 feet bls. From 230 feet bls to approximately 5 feet bls neat cement (with approximately 2.5 percent bentonite) grout was emplaced in the annulus using the same method as above. The well was then completed with concrete to land surface. Monitor well MW-37 was completed with a locking, traffic-rated well vault set in concrete at land surface, slightly above grade of the surrounding

asphalt street. Monitor well construction details have been provided (Table 2; Figure 4; Appendix C).

Initial development of monitor well MW-37 was performed immediately following installation and consisted of surging and bailing to remove heavy drilling mud. Development methods incorporated swabbing, bailing, airlifting, and pumping. Approximately 10,000 gallons of fluids were removed from monitor well MW-37 during development, representing more than 30 casing volumes for the well.

Monitor well MW-37 was equipped with a dedicated 230 Volt $\frac{3}{4}$ -to-1-Horsepower 3-inch Grundfos electric submersible pump (22SQ15-220 1-HP 230V) for groundwater purging and sampling; the dedicated pump was set at 520 feet bls, approximately 250 feet above the top of the screen interval. Monitor well MW-37 was equipped with 1-inch PVC sounding tube.

3.4.3 Surveying

The reference point elevations for newly constructed monitor wells MW-36 and MW-37 were surveyed on November 7, 2012. Reference point elevations were surveyed to a common datum (the City of Fullerton datum). This datum is the same datum used to survey groundwater monitor wells during the RFI. Wells were surveyed by Psomas, Santa Ana, California, a licensed surveyor. Elevation data for each of the wells are provided in Tables 1 and 2 and on the lithologic logs (Appendix B).

4.0 DISCUSSION, CONCLUSIONS, AND RECOMMENDATIONS

The scope of work presented in the AGAWP Addendum No. 4 has been completed with exceptions as documented in this report. Monitor wells MW-36 and MW-37 installed in December 2011 and October 2012, respectively, provided additional lithologic information that suggested the structural feature identified at and to the immediate west of the Site continues westward to the area of these newly installed monitor wells. This structural feature, a monoclinical fold dipping to the south, is generally consistent with the groundwater conceptual model. The elevation of the bottom of the Target Zone decreases to the south, and is most steeply dipping with an approximate east-west strike in the vicinity of the southern portion of the Site (Figures 5 and 6).

Water levels measured in Unit B monitor wells on February 4, 2013, indicate a westerly flow within the Target Zone in the area of the Site, and vertical hydraulic gradients into the Target Zone from above and below (Table 2; Figure 7) (H+A, 2013c).

At monitor well MW-36 the bottom of the Target Zone is at approximately -910 feet msl (approximately 995 feet below current land surface); within 15 feet of where the groundwater conceptual model had predicted the Target Zone to be located. Initial and confirmation groundwater sampling results from monitor well MW-36 were previously submitted to the DTSC under separate cover (H+A, 2012). Results from monitor well MW-36 indicate the presence of compounds of potential concern within the Target Zone in this area. Additional assessment to the west of this area is required to further delineate the distribution of VOCs, principally 1,1-DCE and 1,4-dioxane, in the Target Zone.

At monitor well MW-37 the bottom of the Target Zone appeared to be approximately -665 feet bls (approximately 830 feet below current land surface); which is consistent with the groundwater conceptual model. Initial and confirmation groundwater sampling results from monitor well MW-37 were previously submitted to the DTSC under separate cover (H+A, 2013c). 1,1-DCE and 1,4-dioxane were not detected in the groundwater samples collected from monitor well MW-37; however, higher than expected water levels suggest that

either there may be a geologic structure in the vicinity acting as a hydraulic barrier, or that the well may not be screened in the Target Zone. Geophysical data collected at monitor well MW-37 suggests the well is screened in the Target Zone; however, there are alternative correlations possible that may suggest the well is screened below the Target Zone. Additionally, because water levels measured at this well are 10 to 20 feet higher than expected for a Target Zone well, it is possible that monitor well MW-37 is screened below the Target Zone. Additional assessment is proposed to assess the distribution of VOCs and 1,4-dioxane in the Target Zone in the vicinity of this newly installed monitor well. The proposed assessment tasks are outlined in AGAWP Addendum No. 5 (H+A, 2013b).

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TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells					
MW-06	01/27/97	174.27	144.62	29.65	
	02/18/97	174.27	142.26	32.01	
	02/26/97	174.27	141.97	32.30	
	03/06/97	174.27	141.52	32.75	
	03/12/97	174.27	141.24	33.03	
	03/28/97	174.27	140.90	33.37	
	05/19/97	174.27	142.85	31.42	
	10/16/97	174.27	158.05	16.22	
	05/13/98	174.27	143.00	31.27	
	05/27/98	174.27	143.49	30.78	
	06/11/98	174.27	144.43	29.84	
	07/14/98	174.27	147.46	26.81	
	11/11/98	174.27	155.60	18.67	
	11/18/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/18/98	174.27	154.96	19.31	SVE, DPE-H2O
	11/19/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/20/98	174.27	154.17	20.10	SVE, DPE, DPE-H2O
	11/23/98	174.27	154.43	19.84	SVE, DPE-H2O
	11/23/98	174.27	154.40	19.87	SVE, DPE-H2O
	11/24/98	174.27	154.44	19.83	SVE, DPE-H2O
	12/07/98	174.27	153.08	21.19	SVE, DPE-H2O
	12/10/98	174.27	152.56	21.71	SVE, DPE, DPE-H2O
	12/11/98	174.27	152.14	22.13	SVE, DPE, DPE-H2O
	12/14/98	174.27	151.82	22.45	SVE, DPE-H2O
	12/14/98	174.27	151.72	22.55	SVE, DPE-H2O
	12/16/98	174.27	151.73	22.54	SVE, DPE, DPE-H2O
	01/06/99	174.27	150.40	23.87	SVE, DPE, DPE-H2O
	01/20/99	174.27	149.92	24.35	
	01/25/99	174.27	149.58	24.69	DPE, DPE-H2O
	01/27/99	174.27	149.71	24.56	SVE, DPE, DPE-H2O
	02/01/99	174.27	149.37	24.90	DPE, DPE-H2O
	02/10/99	174.27	148.87	25.40	SVE, DPE, DPE-H2O
	02/23/99	174.27	148.30	25.97	
	03/01/99	174.27	148.33	25.94	DPE
	03/09/99	174.27	148.39	25.88	SVE, DPE, DPE-H2O
	03/10/99	174.27	148.35	25.92	SVE, DPE, DPE-H2O
	04/07/99	174.27	147.82	26.45	SVE, DPE-H2O
	04/23/99	174.27	147.00	27.27	SVE, DPE-H2O
	06/16/99	174.27	150.62	23.65	SVE, DPE-H2O
	06/25/99	174.27	151.91	22.36	SVE, DPE-H2O
	08/30/99	174.27	164.08	10.19	DPE-H2O
	09/27/99	174.27	166.78	7.49	
	11/02/99	174.27	169.28	4.99	
	12/06/99	174.27	158.87	15.40	
	02/07/00	174.27	164.21	10.06	
	03/08/00	174.27	160.82	13.45	
	05/08/01	174.23	155.05	19.18	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-06	06/26/01	174.23	161.99	12.24	
(Cont'd)	10/24/01	188.33	DRY	--	
	01/15/02	188.33	183.41	4.92	
	03/19/02	188.33	177.86	10.47	
	04/15/02	188.33	176.83	11.50	
	11/18/02	188.33	182.81	5.52	
	05/08/03	188.33	174.07	14.26	
	06/09/03	188.33	175.45	12.88	
	09/15/03	184.7	177.09	7.61	
	10/14/03	184.7	178.31	6.39	
	12/15/03	184.7	176.24	8.46	
	03/29/04	184.7	166.60	18.10	
	06/14/04	184.7	169.41	15.29	
	09/20/04	184.70	179.48	5.22	
	11/10/04	184.70	180.65	4.05	
	12/06/04	184.70	178.73	5.97	
	03/14/05	184.70	166.99	17.71	
	06/20/05	184.70	162.59	22.11	
	09/19/05	184.70	165.10	19.60	
	12/17/05	184.70	155.90	28.80	
	03/20/06	184.70	147.23	37.47	
	05/18/06	184.70	143.25	41.45	
	06/19/06	184.70	145.48	39.22	
	09/25/06	184.70	154.15	30.55	
	10/05/06	184.70	154.47	30.23	
	12/12/06	184.70	152.28	32.42	
	03/12/07	184.70	149.91	34.79	
	06/18/07	184.70	156.19	28.51	
	09/24/07	184.70	173.50	11.20	
	12/10/07	184.70	183.15	1.55	
	03/17/08	184.70	182.08	2.62	
	06/23/08	184.70	182.92	1.78	
	09/22/08	184.70	186.55	-1.85	
	12/15/08	184.70	188.45	-3.75	
	12/19/08	184.70	188.47	-3.77	
	03/16/09	184.70	187.58	-2.88	
	03/18/09	184.70	187.51	-2.81	
	06/22/09	184.70	186.43	-1.73	
	06/26/09	184.70	186.46	-1.76	
	08/31/09	184.70	187.31	-2.61	
	09/10/09	184.70	187.42	-2.72	
	12/07/09	184.70	187.82	-3.12	
	03/01/10	184.70	184.83	-0.13	
	03/22/10	184.70	182.35	2.35	
	06/07/10	184.70	178.27	6.43	
	09/07/10	184.70	180.20	4.50	
	12/06/10	184.70	178.75	5.95	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-06 (Cont'd)	03/24/11	184.70	UTM	--	
	06/20/11	184.70	164.20	20.50	
	08/01/11	184.70	160.31	24.39	
	10/31/11	184.70	153.73	30.97	
	02/06/12	184.70	150.51	34.19	
	05/07/12	184.70	149.37	35.33	
	08/06/12	184.70	154.85	29.85	
	11/05/12	184.70	161.82	22.88	
	02/04/13	184.70	157.85	26.85	
MW-08	01/27/97	169.53	150.66	18.87	
	02/18/97	169.53	149.78	19.75	
	02/26/97	169.53	149.60	19.93	
	03/06/97	169.53	149.62	19.91	
	03/12/97	169.53	149.55	19.98	
	03/28/97	169.53	149.46	20.07	
	05/19/97	169.53	149.33	20.20	
	05/13/98	169.53	149.54	19.99	
	05/27/98	169.53	149.40	20.13	
	06/11/98	169.53	149.30	20.23	
	08/30/99	169.53	155.13	14.40	
	12/06/99	169.53	159.36	10.17	
	02/07/00	169.53	159.68	9.85	
	03/08/00	169.53	159.23	10.30	
	05/09/01	164.79	157.50	7.29	
	06/26/01	164.79	157.79	7.00	
	10/24/01	164.79	161.80	2.99	
	01/15/02	164.79	162.42	2.37	
	03/19/02	164.79	161.09	3.70	
	04/15/02	158.04	153.98	4.06	
	11/18/02	158.04	156.47	1.57	
	01/17/03	158.04	152.46	5.58	
	05/08/03	158.04	149.90	8.14	
	06/09/03	158.04	150.27	7.77	
	09/15/03	NA	UTM	--	
	10/14/03	NA	UTM	--	
	12/15/03	155.91	150.19	5.72	
	03/29/04	155.91	145.40	10.51	
	06/14/04	155.91	143.68	12.23	
	09/20/04	155.91	145.45	10.46	
	10/19/04	155.91	145.74	10.17	
	11/10/04	155.91	146.04	9.87	
	12/06/04	155.91	145.71	10.20	
	03/14/05	155.91	142.32	13.59	
	06/20/05	155.91	139.61	16.30	
	09/19/05	155.91	139.77	16.14	
	12/17/05	155.91	135.10	20.81	

DPE-H2O
3.4 inches water in vaccum

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-08	03/20/06	155.91	127.02	28.89	
(Cont'd)	05/18/06	155.91	121.53	34.38	
	06/19/06	155.91	121.31	34.60	
	09/25/06	155.91	124.38	31.53	
	10/05/06	155.91	124.56	31.35	
	12/12/06	155.91	123.83	32.08	
	03/12/07	155.91	127.24	28.67	
	06/18/07	155.91	132.36	23.55	
	09/24/07	155.91	137.96	17.95	
	12/10/07	155.91	142.65	13.26	
	03/17/08	155.91	145.83	10.08	
	06/23/08	155.91	149.00	6.91	
	09/22/08	155.91	153.53	2.38	
	12/15/08	155.91	157.03	-1.12	
	12/19/08	155.91	157.39	-1.48	
	03/16/09	155.91	157.87	-1.96	
	03/18/09	155.91	157.92	-2.01	
	06/22/09	155.91	157.63	-1.72	
	06/26/09	155.91	157.70	-1.79	
	08/31/09	155.91	159.37	-3.46	
	09/10/09	155.91	159.45	-3.54	
	10/28/09	155.91	159.75	-3.84	
	10/30/09	155.91	159.73	-3.82	
	11/04/09	155.91	159.84	-3.93	
	12/07/09	155.91	159.17	-3.26	
	03/01/10	155.91	157.11	-1.20	
	06/07/10	155.91	152.97	2.94	
	09/07/10	155.91	151.91	4.00	
	12/06/10	155.91	152.22	3.69	
	03/24/11	155.91	146.19	9.72	
	03/25/11	155.91	145.55	10.36	
	06/20/11	155.91	141.72	14.19	
	08/01/11	155.91	139.94	15.97	
	08/05/11	155.91	139.80	16.11	
	10/31/11	155.91	136.88	19.03	
	02/06/12	155.91	136.04	19.87	
	05/07/12	155.91	127.33	28.58	
	08/06/12	155.91	130.71	25.20	
	11/05/12	155.91	136.67	19.24	
	02/04/13	155.91	135.88	20.03	
MW-09	03/25/97	166.42	137.58	28.84	
	03/28/97	166.42	137.34	29.08	
	05/19/97	166.42	138.31	28.11	
	05/13/98	166.42	139.18	27.24	
	05/27/98	166.42	139.57	26.85	
	06/11/98	166.42	140.03	26.39	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-09	07/14/98	166.42	142.56	23.86	
(Cont'd)	11/11/98	166.42	150.98	15.44	
	11/18/98	166.42	150.72	15.70	SVE, DPE-H2O
	11/18/98	166.42	150.57	15.85	SVE, DPE-H2O
	11/19/98	166.42	150.63	15.79	SVE, DPE-H2O
	11/20/98	166.42	150.64	15.78	SVE, DPE, DPE-H2O
	11/23/98	166.42	150.47	15.95	SVE, DPE-H2O
	11/23/98	166.42	150.43	15.99	SVE, DPE-H2O
	11/24/98	166.42	150.45	15.97	SVE, DPE-H2O
	12/07/98	166.42	149.98	16.44	SVE, DPE-H2O
	12/10/98	166.42	149.67	16.75	SVE, DPE, DPE-H2O
	12/11/98	166.42	149.68	16.74	SVE, DPE, DPE-H2O
	12/14/98	166.42	149.18	17.24	SVE, DPE-H2O
	12/16/98	166.42	148.97	17.45	SVE, DPE, DPE-H2O
	01/06/99	166.42	147.76	18.66	SVE, DPE, DPE-H2O
	01/20/99	166.42	147.18	19.24	
	01/25/99	166.42	146.80	19.62	DPE, DPE-H2O
	01/27/99	166.42	146.98	19.44	SVE, DPE, DPE-H2O
	02/01/99	166.42	146.85	19.57	SVE, DPE, DPE-H2O
	02/10/99	166.42	146.43	19.99	SVE, DPE, DPE-H2O
	02/23/99	166.42	145.78	20.64	
	03/01/99	166.42	145.68	20.74	DPE
	03/09/99	166.42	145.73	20.69	SVE, DPE, DPE-H2O
	03/10/99	166.42	145.70	20.72	SVE, DPE, DPE-H2O
	03/15/99	166.42	145.57	20.85	SVE, DPE, DPE-H2O
	04/07/99	166.42	145.35	21.07	SVE, DPE-H2O
	04/23/99	166.42	144.61	21.81	SVE, DPE-H2O
	06/16/99	166.42	147.11	19.31	SVE, DPE-H2O
	06/25/99	166.42	148.10	18.32	SVE, DPE-H2O
	08/30/99	166.42	156.90	9.52	DPE-H2O
	09/27/99	166.42	159.80	6.62	
	11/02/99	166.42	163.08	3.34	
	11/09/99	166.42	163.51	2.91	
	11/10/99	166.42	163.44	2.98	
	11/23/99	166.42	163.92	2.50	
	12/06/99	166.42	163.59	2.83	
	12/07/99	166.42	163.41	3.01	
	02/07/00	166.42	160.51	5.91	
	06/29/00	166.42	UTM	--	
	10/24/01	182.15	184.16	-2.01	
	01/15/02	182.15	182.12	0.03	
	03/19/02	182.15	177.57	4.58	
	04/15/02	182.15	176.29	5.86	
	11/18/02	182.28	181.80	0.48	
	01/17/03	182.28	174.44	7.84	
	05/08/03	182.28	172.56	9.72	
	06/09/03	182.28	173.57	8.71	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-09	09/15/03	182.28	178.03	4.25	
(Cont'd)	09/24/03	182.28	178.46	3.82	
	10/14/03	182.28	179.10	3.18	
	12/15/03	182.28	178.00	4.28	
	03/29/04	180.10	166.90	13.20	
	06/14/04	180.10	168.36	11.74	
	09/20/04	180.10	176.29	3.81	
	10/19/04	180.10	178.00	2.10	
	11/10/04	180.10	177.75	2.35	
	12/06/04	180.10	176.64	3.46	
	03/14/05	180.10	167.00	13.10	
	06/20/05	180.10	162.13	17.97	
	09/19/05	180.10	164.58	15.52	
	12/17/05	180.10	156.29	23.81	
	03/20/06	180.10	146.90	33.20	
	05/18/06	180.10	142.77	37.33	
	06/19/06	180.10	144.64	35.46	
	09/25/06	180.10	151.96	28.14	
	10/05/06	180.10	152.33	27.77	
	12/19/06	180.10	150.40	29.70	
	03/12/07	180.10	148.81	31.29	
	06/18/07	180.10	UTM	--	
	09/24/07	180.10	171.33	8.77	
	12/10/07	180.10	179.73	0.37	
	03/17/08	180.10	180.71	-0.61	
	06/27/08	180.10	182.20	-2.10	
	09/22/08	180.10	187.53	-7.43	
	12/15/08	180.10	DRY	--	Dry @ 190.2 ft bls
	03/16/09	180.10	DRY	--	Dry @ 190.0 ft bls
	06/23/09	180.10	187.69	-7.59	
	08/31/09	180.10	189.34	-9.24	
	12/07/09	180.10	189.35	-9.25	
	03/02/10	180.10	186.09	-5.99	
	06/07/10	180.10	180.11	-0.01	
	09/07/10	180.10	180.51	-0.41	
	12/06/10	180.10	179.83	0.27	
	03/24/11	180.10	170.04	10.06	
	06/20/11	180.10	165.04	15.06	
	08/01/11	180.10	161.84	18.26	
	11/01/11	180.10	155.13	24.97	
	02/06/12	180.10	150.19	29.91	
	05/07/12	180.10	147.54	32.56	
	08/06/12	180.10	152.77	27.33	
	11/05/12	180.10	160.00	20.10	
	02/04/13	180.10	156.77	23.33	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-13	05/19/97	162.92	149.06	13.86	
	05/13/98	162.92	150.56	12.36	
	05/27/98	162.92	149.67	13.25	
	06/11/98	162.92	149.63	13.29	
	11/02/99	162.92	166.86	-3.94	
	11/09/99	162.92	167.25	-4.33	
	11/10/99	162.92	167.36	-4.44	
	11/23/99	162.92	167.92	-5.00	
	12/06/99	162.92	168.35	-5.43	
	12/07/99	162.92	168.38	-5.46	
	02/07/00	162.92	167.88	-4.96	
	06/21/00	162.55	164.42	-1.87	
	07/05/00	162.55	165.68	-3.13	
	01/16/01	142.51	151.58	-9.07	
	03/19/01	142.51	149.31	-6.80	
	03/26/01	142.51	148.72	-6.21	
	04/03/01	142.51	148.30	-5.79	
	04/10/01	142.51	148.00	-5.49	
	04/17/01	142.51	147.90	-5.39	
	04/26/01	142.51	147.50	-4.99	
	05/07/01	142.51	147.14	-4.63	
	06/26/01	142.51	147.61	-5.10	
	09/10/01	142.19	151.32	-9.13	
	10/22/01	142.19	153.62	-11.43	
	10/24/01	142.19	153.68	-11.49	
	01/15/02	142.19	153.78	-11.59	
	01/15/02	142.19	153.76	-11.57	
	03/19/02	142.19	148.86	-6.67	
	04/15/02	142.19	148.29	-6.10	
	10/31/02	142.19	154.39	-12.20	
	10/31/02	142.19	154.38	-12.19	
	11/07/02	142.19	153.97	-11.78	
	11/07/02	142.19	153.95	-11.76	
	11/18/02	142.19	153.20	-11.01	
	01/17/03	142.19	142.13	0.06	
	05/08/03	142.19	138.90	3.29	
	06/09/03	142.19	140.81	1.38	
	09/15/03	142.19	146.63	-4.44	
	10/14/03	142.19	147.73	-5.54	
	12/02/03	142.19	145.21	-3.02	
	12/15/03	142.19	143.91	-1.72	
	03/29/04	142.19	132.94	9.25	
	06/14/04	142.19	132.76	9.43	
	09/20/04	142.19	138.99	3.20	
	10/19/04	142.19	140.31	1.88	
	11/10/04	142.19	138.99	2.13	
	12/06/04	142.19	139.08	3.11	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-13	03/14/05	142.19	127.95	14.24	
(Cont'd)	06/20/05	142.19	129.49	12.70	
	09/19/05	142.19	132.44	9.75	
	12/17/05	142.19	116.10	26.09	
	03/20/06	142.19	112.58	29.61	
	06/19/06	142.19	108.37	33.82	
	09/25/06	142.19	115.66	26.53	
	12/12/06	142.19	112.59	29.60	
	03/12/07	142.19	117.07	25.12	
	06/18/07	142.19	126.05	16.14	
	09/24/07	142.19	137.98	4.21	
	12/10/07	142.19	146.51	-4.32	
	03/17/08	142.19	147.13	-4.94	
	06/23/08	142.19	149.38	-7.19	
	09/22/08	142.19	153.18	-10.99	
	12/15/08	142.19	156.91	-14.72	
	03/16/09	142.19	155.95	-13.76	
	06/22/09	142.19	152.05	-9.86	
	08/31/09	142.19	154.42	-12.23	
	12/07/09	142.19	153.32	-11.13	
	03/01/10	142.19	148.41	-6.22	
	06/07/10	142.19	141.51	0.68	
	09/07/10	142.19	142.67	-0.48	
	12/06/10	142.19	144.25	-2.06	
	03/24/11	142.19	132.38	9.81	
	06/20/11	142.19	125.39	16.80	
	08/01/11	142.19	127.15	15.04	
	10/31/11	142.19	124.07	18.12	
	02/06/12	142.19	117.20	24.99	
	05/07/12	142.19	110.72	31.47	
	08/06/12	141.84	122.77	19.07	
	11/05/12	141.84	126.32	15.52	
	02/04/13	141.84	122.23	19.61	
MW-15	05/27/98	159.20	153.83	5.37	
	06/11/98	159.20	153.16	6.04	
	11/09/99	159.20	165.47	-6.27	
	12/06/99	159.20	166.56	-7.36	
	02/07/00	159.20	167.68	-8.48	
	06/21/00	159.2	164.57	-5.37	
	07/05/00	159.2	164.94	-5.74	
	01/16/01	154.35	166.25	-11.90	
	03/19/01	154.35	165.42	-11.07	
	05/08/01	154.35	164.16	-9.81	
	06/26/01	154.35	164.09	-9.74	
	09/10/01	154.35	166.43	-12.08	
	10/24/01	154.35	168.27	-13.92	



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-15	01/15/02	154.35	169.03	-14.68	
(Cont'd)	03/19/02	154.35	167.33	-12.98	
	04/15/02	146.14	158.58	-12.44	
	11/18/02	146.14	160.67	-14.53	
	01/17/03	146.14	155.87	-9.73	
	05/08/03	NA	UTM	--	
	06/09/03	144.99	149.92	-4.93	
	09/15/03	144.99	152.72	-7.73	
	09/23/03	144.99	152.99	-8.00	
	10/14/03	144.99	153.64	-8.65	
	12/15/03	144.99	152.50	-7.51	
	03/29/04	144.99	146.10	-1.11	
	06/14/04	144.99	142.94	2.05	
	09/20/04	144.99	143.78	1.21	
	10/19/04	144.99	143.74	1.25	
	11/10/04	144.99	144.01	0.98	
	12/06/04	144.99	143.95	1.04	
	03/14/05	144.99	140.02	4.97	
	06/20/05	144.99	137.35	7.64	
	09/19/05	144.99	137.57	7.42	
	12/17/05	144.99	134.72	10.27	
	03/20/06	144.99	124.34	20.65	
	05/18/06	144.99	117.13	27.86	
	06/19/06	144.99	115.44	29.55	
	09/25/06	144.99	116.80	28.19	
	10/05/06	144.99	117.09	27.90	
	12/12/06	144.99	117.21	27.78	
	03/12/07	144.99	118.76	26.23	
	06/18/07	144.99	123.16	21.83	
	09/24/07	144.99	132.92	12.07	
	12/10/07	144.99	141.07	3.92	
	03/17/08	144.99	149.72	-4.73	
	06/23/08	144.99	154.59	-9.60	
	09/22/08	144.99	160.27	-15.28	
	12/15/08	144.92	164.12	-19.20	
	12/19/08	144.92	164.61	-19.69	
	03/16/09	144.92	164.01	-19.09	
	03/18/09	144.92	165.33	-20.41	
	06/22/09	144.92	161.11	-16.19	
	06/26/09	144.92	161.17	-16.25	
	08/31/09	144.92	162.89	-17.97	
	09/10/09	144.92	163.05	-18.13	
	10/28/09	144.92	162.60	-17.68	
	10/30/09	144.92	162.66	-17.74	
	11/04/09	144.92	162.38	-17.46	
	12/07/09	144.92	161.33	-16.41	
	03/01/10	144.92	159.25	-14.33	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-15	06/07/10	144.92	154.43	-9.51	
(Cont'd)	09/07/10	144.92	152.71	-7.79	
	12/06/10	144.92	153.09	-8.17	
	03/24/11	144.92	147.05	-2.13	
	03/25/11	144.92	146.74	-1.82	
	06/20/11	144.92	142.83	2.09	
	08/01/11	144.92	141.00	3.92	
	08/05/11	144.92	140.61	4.31	
	10/31/11	144.92	138.25	6.67	
	02/06/12	144.92	133.38	11.54	
	05/07/12	144.92	125.83	19.09	
	08/06/12	144.95	124.70	20.25	
	11/05/12	144.95	130.04	14.91	
	02/04/13	144.95	130.76	14.19	
MW-16	11/09/99	164.08	170.71	-6.63	
	11/09/99	164.08	170.84	-6.76	
	11/10/99	164.08	171.00	-6.92	
	11/10/99	164.08	174.01	-9.93	
	11/22/99	164.08	163.94	0.14	
	11/23/99	164.08	164.17	-0.09	
	12/06/99	164.08	164.36	-0.28	
	12/07/99	164.08	164.32	-0.24	
	12/07/99	164.08	172.50	-8.42	
	02/07/00	164.08	162.75	1.33	
	02/18/00	164.08	162.36	1.72	
	06/21/00	164.08	160.66	3.42	
	07/05/00	164.08	161.62	2.46	
	07/06/00	164.08	161.62	2.46	
	01/16/01	146.18	148.73	-2.55	
	03/19/01	146.18	146.47	-0.29	
	03/26/01	146.18	146.07	0.11	
	04/03/01	146.18	145.80	0.38	
	04/10/01	146.18	145.50	0.68	
	04/17/01	146.18	145.20	0.98	
	04/26/01	146.18	145.50	0.68	
	05/10/01	146.18	144.70	1.48	
	06/26/01	146.18	149.09	-2.91	
	10/24/01	146.26	151.72	-5.46	
	01/15/02	142.73	148.36	-5.63	
	03/19/02	142.73	145.53	-2.80	
	04/15/02	142.73	145.24	-2.51	
	10/31/02	142.73	149.95	-7.22	
	11/18/02	142.73	147.11	-4.38	
	01/17/03	142.73	133.43	9.30	
	01/17/03	142.73	133.44	9.29	
	05/08/03	142.73	142.24	0.49	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-16	06/09/03	142.73	145.96	-3.23	
(Cont'd)	09/15/03	142.73	150.25	-7.52	
	09/19/03	142.73	150.32	-7.59	
	09/24/03	142.73	150.37	-7.64	
	09/25/03	142.73	150.26	-7.53	
	10/14/03	142.73	149.51	-6.78	
	12/02/03	142.73	143.81	-1.08	
	12/03/03	142.73	143.52	-0.79	
	12/15/03	142.73	141.50	1.23	
	03/29/04	142.73	129.17	13.56	
	04/29/04	142.73	128.89	13.84	
	06/14/04	142.73	134.28	8.45	
	09/20/04	142.73	146.47	-3.74	
	10/19/04	142.73	146.25	-3.52	
	11/10/04	142.73	144.36	-1.63	
	12/06/04	142.73	141.31	1.42	
	03/14/05	142.73	127.49	15.24	
	06/20/05	142.73	132.93	9.80	
	07/13/05	142.73	130.66	12.07	
	09/19/05	142.73	140.08	2.65	
	09/21/05	142.73	140.27	2.46	
	12/17/05	142.73	119.28	23.45	
	03/20/06	142.73	112.82	29.91	
	06/19/06	142.73	108.54	34.19	
	09/25/06	142.73	118.38	24.35	
	10/05/06	142.73	118.60	24.13	
	12/11/06	142.73	116.26	26.47	
	03/12/07	142.73	122.91	19.82	
	06/18/07	142.73	133.17	9.56	
	09/24/07	142.73	153.25	-10.52	
	12/10/07	142.73	150.10	-7.37	
	12/20/07	142.73	150.49	-7.76	
	03/17/08	142.73	150.44	-7.71	
	06/23/08	142.73	152.46	-9.73	
	07/11/08	142.73	153.82	-11.09	
	07/14/08	142.73	153.73	-11.00	
	07/15/08	142.73	153.81	-11.08	
	07/30/08	142.73	155.17	-12.44	
	09/22/08	142.73	159.91	-17.18	
	10/22/08	142.73	162.00	-19.27	
	12/15/08	142.73	164.63	-21.90	
	12/19/08	142.73	164.07	-21.34	
	02/25/09	142.73	159.44	-16.71	
	03/16/09	142.73	159.56	-16.83	
	03/18/09	142.73	160.35	-17.62	
	04/29/09	142.73	154.63	-11.90	
	04/29/09	142.73	154.68	-11.95	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-16	05/27/09	142.73	156.56	-13.83	
(Cont'd)	06/22/09	142.73	157.90	-15.17	
	06/26/09	142.73	158.59	-15.86	
	08/31/09	142.73	160.61	-17.88	
	09/10/09	142.73	161.06	-18.33	
	10/23/09	142.73	158.83	-16.10	
	10/30/09	142.73	157.98	-15.25	
	11/04/09	142.73	157.58	-14.85	
	12/07/09	142.73	156.03	-13.30	
	01/19/10	142.73	154.70	-11.97	
	03/01/10	142.73	149.08	-6.35	
	06/07/10	142.73	144.31	-1.58	
	09/07/10	142.73	151.63	-8.90	
	12/06/10	142.73	150.27	-7.54	
	03/24/11	142.73	134.07	8.66	
	06/20/11	142.73	129.99	12.74	
	08/01/11	142.73	130.92	11.81	
	08/05/11	142.73	131.23	11.50	
	10/31/11	142.73	128.83	13.90	
	02/06/12	142.73	121.44	21.29	
	05/07/12	142.73	115.07	27.66	
	08/06/12	142.40	127.03	15.37	
	11/05/12	142.40	137.88	4.52	
	12/10/12	142.40	134.83	7.57	
	02/04/13	142.40	130.18	12.22	
MW-17	06/21/00	158.77	163.65	-4.88	
	07/05/00	158.77	166.30	-7.53	
	01/16/01	145.28	154.14	-8.86	
	03/19/01	145.28	148.20	-2.92	
	03/26/01	145.28	147.96	-2.68	
	04/03/01	145.28	148.00	-2.72	
	04/10/01	145.28	147.80	-2.52	
	04/17/01	145.28	147.70	-2.42	
	04/26/01	145.28	147.90	-2.62	
	05/08/01	145.28	148.34	-3.06	
	06/26/01	145.28	152.88	-7.60	
	09/10/01	142.49	159.11	-16.62	
	10/22/01	142.49	162.45	-19.96	
	10/24/01	142.49	162.52	-20.03	
	01/15/02	142.49	150.30	-7.81	
	03/19/02	142.49	146.31	-3.82	
	04/15/02	142.49	146.92	-4.43	
	11/18/02	142.49	145.21	-2.72	
	05/08/03	142.49	142.77	-0.28	
	06/09/03	142.49	146.12	-3.63	
	09/15/03	142.66	151.61	-8.95	



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-17	10/14/03	142.66	152.31	-9.65	
(Cont'd)	12/02/03	142.66	141.10	1.56	
	12/15/03	142.66	138.77	3.89	
	03/29/04	142.66	128.10	14.56	
	06/14/04	142.66	135.02	7.64	
	09/20/04	142.66	145.34	-2.68	
	10/19/04	142.66	144.94	-2.28	
	11/10/04	142.66	142.71	-0.05	
	12/06/04	142.66	138.67	3.99	
	03/14/05	142.66	125.49	17.17	
	06/20/05	142.66	132.60	10.06	
	09/19/05	142.66	137.49	5.17	
	12/17/05	142.66	116.68	25.98	
	03/20/06	142.66	113.20	29.46	
	06/19/06	142.66	108.97	33.69	
	09/25/06	142.66	116.20	26.46	
	12/12/06	142.66	113.17	29.49	
	03/12/07	142.66	117.46	25.20	
	06/18/07	142.66	129.43	13.23	
	09/24/07	142.66	149.29	-6.63	
	12/10/07	142.66	154.89	-12.23	
	03/17/08	142.66	149.19	-6.53	
	06/23/08	142.66	154.35	-11.69	
	09/22/08	142.66	162.79	-20.13	
	12/15/08	142.66	162.89	-20.23	
	03/16/09	142.66	151.39	-8.73	
	06/22/09	142.66	152.09	-9.43	
	08/31/09	142.66	156.35	-13.69	
	12/07/09	142.66	150.10	-7.44	
	03/01/10	142.66	145.46	-2.80	
	06/07/10	142.66	139.06	3.60	
	09/08/10	142.66	145.75	-3.09	
	12/06/10	142.66	143.89	-1.23	
	03/24/11	142.66	128.87	13.79	
	06/20/11	142.66	125.84	16.82	
	08/01/11	142.66	127.11	15.55	
	10/31/11	142.66	124.34	18.32	
	02/06/12	142.66	117.62	25.04	
	05/07/12	142.66	111.26	31.40	
	08/06/12	142.70	123.10	19.60	
	11/05/12	142.70	129.72	12.98	
	02/04/13	142.70	122.55	20.15	
MW-18	06/15/00	161.51	166.05	-4.54	
	06/21/00	161.51	167.18	-5.67	
	07/05/00	161.51	169.55	-8.04	
	01/16/01	144.03	153.83	-9.80	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-18	03/19/01	144.03	147.97	-3.94	
(Cont'd)	03/26/01	144.03	147.72	-3.69	
	04/03/01	144.03	147.70	-3.67	
	04/10/01	144.03	147.40	-3.37	
	04/17/01	144.03	147.30	-3.27	
	04/26/01	144.03	147.60	-3.57	
	05/07/01	144.03	148.07	-4.04	
	06/26/01	144.03	152.56	-8.53	
	09/10/01	142.11	159.63	-17.52	
	10/22/01	142.11	162.83	-20.72	
	10/24/01	142.11	162.88	-20.77	
	01/15/02	142.11	150.89	-8.78	
	01/15/02	142.11	150.84	-8.73	
	03/19/02	142.11	146.87	-4.76	
	04/15/02	142.11	147.46	-5.35	
	10/31/02	142.11	151.28	-9.17	
	10/31/02	142.11	151.24	-9.13	
	11/07/02	142.11	149.20	-7.09	
	11/07/02	142.11	149.17	-7.06	
	11/18/02	142.11	145.66	-3.55	
	01/17/03	142.11	131.07	11.04	
	05/08/03	142.11	143.19	-1.08	
	06/09/03	142.11	146.59	-4.48	
	09/15/03	142.11	151.93	-9.82	
	10/14/03	142.11	152.61	-10.50	
	12/02/03	142.11	141.26	0.85	
	12/03/03	142.11	141.04	1.07	
	12/15/03	142.11	138.95	3.16	
	03/29/04	142.11	128.16	13.95	
	04/29/04	142.11	128.60	13.51	
	06/14/04	142.11	135.03	7.08	
	09/20/04	142.11	145.41	-3.30	
	10/19/04	142.11	145.00	-2.89	
	11/10/04	142.11	142.82	-0.71	
	12/06/04	142.11	138.22	3.89	
	03/14/05	142.11	125.47	16.64	
	06/20/05	142.11	131.58	10.53	
	07/13/05	142.11	128.64	13.47	
	09/19/05	142.11	137.61	4.50	
	09/21/05	142.11	137.79	4.32	
	12/17/05	142.11	116.61	25.50	
	03/20/06	142.11	112.95	29.16	
	05/18/06	142.11	106.02	36.09	
	06/19/06	142.11	108.73	33.38	
	09/25/06	142.11	116.04	26.07	
	12/12/06	142.11	112.97	29.14	
	03/12/07	142.11	117.39	24.72	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-18	06/18/07	142.11	129.43	12.68	
(Cont'd)	09/24/07	142.11	149.48	-7.37	
	12/10/07	142.11	155.01	-12.90	
	03/17/08	142.11	149.46	-7.35	
	06/23/08	142.11	154.58	-12.47	
	09/22/08	142.11	162.96	-20.85	
	12/15/08	142.11	163.14	-21.03	
	03/16/09	142.11	151.76	-9.65	
	06/22/09	142.11	152.37	-10.26	
	08/31/09	142.11	156.67	-14.56	
	12/07/09	142.11	150.40	-8.29	
	03/01/10	142.11	145.68	-3.57	
	06/07/10	142.11	139.22	2.89	
	09/07/10	142.11	145.91	-3.80	
	12/06/10	142.11	144.09	-1.98	
	03/24/11	142.11	128.91	13.20	
	06/20/11	142.11	125.82	16.29	
	08/01/11	142.11	127.20	14.91	
	10/31/11	142.11	124.44	17.67	
	02/06/12	142.11	117.59	24.52	
	05/07/12	142.11	111.11	31.00	
	08/06/12	142.32	123.29	19.03	
	11/05/12	142.32	129.95	12.37	
	02/04/13	142.32	122.75	19.57	
MW-19	06/14/00	156.43	160.16	-3.73	
	06/21/00	156.43	161.53	-5.10	
	07/05/00	156.43	164.21	-7.78	
	01/16/01	145.28	UTM	--	
	03/19/01	145.28	UTM	--	
	05/08/01	145.28	148.50	-3.22	
	06/26/01	145.28	153.11	-7.83	
	09/10/01	142.55	159.50	-16.95	
	10/22/01	142.55	162.99	-20.44	
	10/24/01	142.55	162.98	-20.43	
	01/15/02	142.55	150.68	-8.13	
	03/19/02	142.55	146.60	-4.05	
	04/15/02	142.55	147.21	-4.66	
	11/18/02	142.55	145.68	-3.13	
	05/08/03	142.55	143.03	-0.48	
	06/09/03	142.55	146.39	-3.84	
	09/15/03	142.55	151.75	-9.20	
	09/19/03	142.55	151.85	-9.30	
	10/14/03	142.55	152.45	-9.90	
	12/02/03	142.55	141.40	1.15	
	12/15/03	142.72	139.07	3.65	
	03/29/04	142.72	128.10	14.62	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-19	06/14/04	142.72	135.09	7.63	
(Cont'd)	09/20/04	142.72	145.55	-2.83	
	10/19/04	142.72	145.20	-2.48	
	11/10/04	142.72	142.94	-0.22	
	12/06/04	142.72	138.87	3.85	
	03/14/05	142.72	125.50	17.22	
	06/20/05	142.72	131.63	11.09	
	09/19/05	142.72	137.49	5.23	
	12/17/05	142.72	116.59	26.13	
	03/20/06	142.72	112.71	30.01	
	06/19/06	142.72	108.71	34.01	
	09/25/06	142.72	116.10	26.62	
	12/12/06	142.72	113.00	29.72	
	03/12/07	142.72	117.20	25.52	
	06/18/07	142.72	129.32	13.40	
	09/24/07	142.72	149.46	-6.74	
	12/10/07	142.72	155.15	-12.43	
	03/17/08	142.72	149.35	-6.63	
	06/23/08	142.72	154.47	-11.75	
	09/22/08	142.72	163.03	-20.31	
	12/15/08	142.72	163.18	-20.46	
	03/16/09	142.72	151.68	-8.96	
	06/22/09	142.72	152.41	-9.69	
	08/31/09	142.72	156.69	-13.97	
	12/07/09	142.72	150.42	-7.70	
	03/01/10	142.72	145.73	-3.01	
	06/07/10	142.72	139.20	3.52	
	09/08/10	142.72	145.97	-3.25	
	12/06/10	142.72	144.11	-1.39	
	03/24/11	142.72	128.79	13.93	
	06/20/11	142.72	125.82	16.90	
	08/01/11	142.72	127.06	15.66	
	10/31/11	142.72	124.19	18.53	
	02/06/12	142.72	117.41	25.31	
	05/07/12	142.72	111.03	31.69	
	08/06/12	142.06	122.99	19.07	
	11/05/12	142.06	129.73	12.33	
	02/04/13	142.06	122.49	19.57	
MW-20	06/30/03	184.19	168.22	15.97	
	09/15/03	184.19	171.58	12.61	
	09/23/03	184.19	171.95	12.24	
	10/08/03	184.19	172.43	11.76	
	10/14/03	184.19	172.83	11.36	
	12/15/03	184.19	172.34	11.85	
	03/29/04	184.19	163.81	20.38	
	06/14/04	184.19	165.21	18.98	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-20	09/20/04	184.19	174.15	10.04	
(Con't)	11/10/04	184.19	176.60	7.59	
	12/06/04	184.19	175.49	8.70	
	03/14/05	184.19	165.05	19.14	
	06/20/05	184.19	158.60	25.59	
	09/19/05	184.19	160.38	23.81	
	12/17/05	184.19	153.77	30.42	
	03/20/06	184.19	144.52	39.67	
	06/19/06	184.19	142.00	42.19	
	09/25/06	184.19	149.33	34.86	
	12/12/06	184.19	148.77	35.42	
	03/12/07	184.19	146.04	38.15	
	06/18/07	184.19	150.00	34.19	
	09/24/07	184.19	166.46	17.73	
	12/10/07	184.19	176.76	7.43	
	03/17/08	184.19	177.00	7.19	
	06/23/08	184.19	176.53	7.66	
	09/22/08	184.19	182.60	1.59	
	12/15/08	184.19	185.69	-1.50	
	03/16/09	184.19	184.62	-0.43	
	06/22/09	184.19	182.07	2.12	
	08/31/09	184.19	183.50	0.69	
	12/07/09	184.19	184.31	-0.12	
	03/01/10	184.19	180.87	3.32	
	06/07/10	184.19	174.32	9.87	
	09/07/10	184.19	175.17	9.02	
	12/06/10	184.19	174.53	9.66	
	03/24/11	184.19	165.49	18.70	
	06/20/11	184.19	160.68	23.51	
	08/01/11	184.19	156.84	27.35	
	10/31/11	184.19	149.75	34.44	
	02/06/12	184.19	145.82	38.37	
	05/07/12	184.19	144.24	39.95	
	08/06/12	184.19	148.35	35.84	
	11/05/12	184.19	155.69	28.50	
	02/04/13	184.19	153.17	31.02	
MW-21	09/15/03	142.68	146.34	-3.66	
	09/19/03	142.68	146.53	-3.85	
	09/23/03	142.68	146.75	-4.07	
	09/25/03	142.68	147.05	-4.37	
	10/08/03	142.68	147.31	-4.63	
	10/14/03	142.68	147.72	-5.04	
	12/02/03	142.68	142.95	-0.27	
	12/03/03	142.68	142.65	0.03	
	12/15/03	142.68	141.34	1.34	
	03/29/04	142.68	130.83	11.85	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-21	04/29/04	142.68	129.48	13.20	
(Cont'd)	06/14/04	142.68	131.21	11.47	
	09/20/04	142.68	138.15	4.53	
	10/19/04	142.68	138.75	3.93	
	11/10/04	142.68	138.82	3.86	
	12/06/04	142.68	137.64	5.04	
	03/14/05	142.68	128.64	14.04	
	06/20/05	142.68	127.83	14.85	
	07/13/05	142.68	126.82	15.86	
	09/19/05	142.68	131.31	11.37	
	09/21/05	142.68	131.51	11.17	
	12/17/05	142.68	120.26	22.42	
	03/20/06	142.68	113.24	29.44	
	06/19/06	142.68	107.60	35.08	
	09/25/06	142.68	111.36	31.32	
	10/05/06	142.68	111.45	31.23	
	12/11/06	142.68	110.57	32.11	
	03/12/07	142.68	114.18	28.50	
	06/18/07	142.68	120.04	22.64	
	09/24/07	142.68	135.85	6.83	
	12/10/07	142.68	146.37	-3.69	
	01/21/08	140.30	148.51	-8.2	
	03/17/08	140.30	146.90	-6.6	
	05/27/08	141.23	148.71	-7.48	
	06/23/08	141.23	150.40	-9.17	
	07/09/08	141.18	160.02	-18.84	Pilot GETS
	07/11/08	141.18	153.31	-12.13	
	07/14/08	141.18	152.84	-11.66	
	07/15/08	141.18	161.98	-20.8	Pilot GETS
	07/30/08	141.18	162.93	-21.75	Pilot GETS
	08/14/08	141.18	165.94	-24.76	Pilot GETS
	08/25/08	141.18	167.47	-26.29	Pilot GETS
	09/22/08	141.18	170.65	-29.47	Pilot GETS
	10/22/08	141.18	172.35	-31.17	
	12/15/08	141.18	168.21	-27.03	
	12/19/08	141.18	166.50	-25.32	
	01/07/09	141.18	161.36	-20.18	
	02/25/09	141.18	165.74	-24.56	Pilot GETS
	03/16/09	141.18	166.33	-25.15	Pilot GETS
	03/18/09	141.18	164.52	-23.34	Pilot GETS
	04/29/09	141.18	156.91	-15.73	
	04/29/09	141.18	162.95	-21.77	Pilot GETS
	05/27/09	141.18	162.71	-21.53	Pilot GETS
	06/22/09	141.18	163.25	-22.07	Pilot GETS
	06/26/09	141.18	163.49	-22.31	Pilot GETS
	06/29/09	141.18	163.93	-22.75	Pilot GETS
	07/22/09	141.18	166.47	-25.29	Pilot GETS

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-21	08/14/09	141.18	170.24	-29.06	Pilot GETS
(Cont'd)	08/31/09	141.18	166.80	-25.62	Pilot GETS
	09/10/09	141.18	168.29	-27.11	Pilot GETS
	09/11/09	141.18	167.13	-25.95	Pilot GETS
	10/08/09	141.18	166.65	-25.47	Pilot GETS
	10/23/09	141.18	155.98	-14.80	Pilot GETS
	10/30/09	141.18	154.90	-13.72	
	11/04/09	141.18	154.08	-12.90	
	12/07/09	141.18	150.92	-9.74	
	12/09/09	141.18	155.00	-13.82	
	03/01/10	141.18	144.78	-3.60	
	06/07/10	141.18	137.88	3.30	
	09/07/10	141.18	139.87	1.31	
	12/06/10	141.18	141.05	0.13	
	03/24/11	141.18	129.59	11.59	
	06/20/11	141.18	124.57	16.61	
	08/01/11	141.18	123.72	17.46	
	08/05/11	141.18	123.64	17.54	
	10/14/11	141.18	120.69	20.49	
	10/31/11	141.18	120.89	20.29	
	12/08/11	141.18	131.77	9.41	Pilot GETS
	01/05/12	141.18	133.06	8.12	Pilot GETS
	01/06/12	141.18	133.19	7.99	Pilot GETS
	01/25/12	141.18	132.89	8.29	Pilot GETS
	02/06/12	141.18	132.30	8.88	Pilot GETS
	02/08/12	141.18	132.93	8.25	Pilot GETS
	03/09/12	141.18	131.41	9.77	Pilot GETS
	04/02/12	141.18	114.08	27.10	Pilot GETS
	05/07/12	141.18	111.08	30.10	
	06/26/12	141.18	111.62	29.56	
	08/06/12	141.18	115.74	25.44	
	11/05/12	141.18	122.76	18.42	
	02/04/13	141.18	120.81	20.37	
MW-22	09/15/03	138.65	147.40	-8.75	
	09/15/03	138.65	148.23	-9.58	
	09/19/03	138.65	147.65	-9.00	
	09/23/03	138.65	147.77	-9.12	
	09/25/03	138.65	147.92	-9.27	
	10/08/03	138.65	148.08	-9.43	
	10/14/03	138.65	148.24	-9.59	
	12/02/03	138.65	136.80	1.85	
	12/03/03	138.65	136.56	2.09	
	12/15/03	138.65	134.47	4.18	
	03/29/04	138.65	123.84	14.81	
	04/29/04	138.65	124.38	14.27	
	06/14/04	138.65	130.80	7.85	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-22	09/20/04	138.65	141.03	-2.38	
(Cont'd)	10/19/04	138.65	140.81	-2.16	
	11/10/04	138.65	138.43	0.22	
	12/06/04	138.65	134.38	4.27	
	03/14/05	138.65	121.17	17.48	
	06/20/05	138.65	127.33	11.32	
	07/13/05	138.65	124.37	14.28	
	09/19/05	138.65	133.55	5.10	
	09/21/05	138.65	133.66	4.99	
	12/17/05	138.65	112.37	26.28	
	03/20/06	138.65	109.01	29.64	
	06/19/06	138.65	104.82	33.83	
	09/25/06	138.65	112.02	26.63	
	12/12/06	138.65	108.93	29.72	
	03/12/07	138.65	113.44	25.21	
	06/18/07	138.65	125.49	13.16	
	09/24/07	138.65	145.19	-6.54	
	12/10/07	138.65	150.68	-12.03	
	12/20/07	138.65	150.54	-11.89	
	01/21/08	138.65	148.35	-9.70	
	03/17/08	138.65	145.11	-6.46	
	04/21/08	138.65	145.53	-6.88	
	05/27/08	138.65	148.00	-9.35	
	06/23/08	138.65	150.29	-11.64	
	09/22/08	138.65	158.69	-20.04	
	12/15/08	138.65	158.75	-20.10	
	03/16/09	138.65	147.07	-8.42	
	06/22/09	138.65	147.84	-9.19	
	08/31/09	138.65	152.10	-13.45	
	12/07/09	138.65	145.84	-7.19	
	03/01/10	138.65	141.12	-2.47	
	06/07/10	138.65	134.83	3.82	
	09/07/10	138.65	141.49	-2.84	
	12/06/10	138.65	139.63	-0.98	
	03/25/11	138.65	124.60	14.05	
	06/20/11	138.65	121.60	17.05	
	08/01/11	138.65	123.01	15.64	
	10/31/11	138.65	120.38	18.27	
	02/06/12	138.65	113.56	25.09	
	05/07/12	138.65	107.13	31.52	
	08/06/12	138.65	119.55	19.10	
	11/05/12	138.65	126.01	12.64	
	02/04/13	138.65	118.83	19.82	
MW-23	09/15/03	137.16	147.30	-10.14	
	09/19/03	137.33	147.75	-10.42	
	09/23/03	137.33	147.75	-10.42	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-23	09/25/03	137.33	147.87	-10.54	
(Cont'd)	10/08/03	137.33	148.09	-10.76	
	10/14/03	137.33	148.21	-10.88	
	12/02/03	137.33	136.17	1.16	
	12/15/03	137.33	133.83	3.50	
	03/29/04	137.33	123.30	14.03	
	04/29/04	137.33	123.77	13.56	
	06/14/04	137.33	130.20	7.13	
	09/20/04	137.33	140.19	-2.86	
	10/19/04	137.33	UTM	--	
	11/10/04	137.33	137.76	-0.43	
	12/06/04	137.33	133.56	3.77	
	03/14/05	137.33	120.52	16.81	
	06/20/05	137.33	127.18	10.15	
	07/13/05	137.33	123.89	13.44	
	09/19/05	137.33	133.50	3.83	
	09/21/05	137.33	133.67	3.66	
	12/17/05	137.33	111.74	25.59	
	03/20/06	137.33	108.90	28.43	
	05/18/06	137.33	101.55	35.78	
	06/19/06	137.33	104.32	33.01	
	09/25/06	137.33	111.42	25.91	
	12/12/06	137.33	108.30	29.03	
	03/12/07	137.33	113.48	23.85	
	06/18/07	137.33	125.48	11.85	
	09/24/07	137.33	144.94	-7.61	
	12/10/07	137.33	150.40	-13.07	
	12/20/07	137.33	150.23	-12.90	
	03/17/08	137.33	145.00	-7.67	
	04/21/08	137.33	145.50	-8.17	
	06/23/08	137.33	150.33	-13.00	
	08/26/08	137.33	166.71	-29.38	
	09/22/08	137.33	158.58	-21.25	
	12/15/08	137.33	158.48	-21.15	
	03/16/09	137.33	146.43	-9.10	
	06/23/09	137.33	147.50	-10.17	
	08/31/09	137.33	151.58	-14.25	
	10/23/09	137.33	148.44	-11.11	
	10/30/09	137.33	147.82	-10.49	
	11/04/09	137.33	147.40	-10.07	
	12/07/09	137.33	145.18	-7.85	
	03/01/10	137.33	140.52	-3.19	
	06/07/10	137.33	134.30	3.03	
	09/07/10	137.33	140.90	-3.57	
	12/06/10	137.33	139.15	-1.82	
	03/15/11	137.33	123.40	13.93	
	03/24/11	137.33	124.57	12.76	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-23	06/20/11	137.33	121.15	16.18	
(Cont'd)	08/01/11	137.33	122.97	14.36	
	08/05/11	137.33	123.90	13.43	
	10/31/11	137.33	120.60	16.73	
	01/13/12	137.33	114.41	22.92	
	01/26/12	137.33	113.42	23.91	
	02/16/12	137.33	113.49	23.84	
	05/07/12	137.33	106.79	30.54	
	06/07/12	137.33	112.15	25.18	
	06/26/12	137.33	111.39	25.94	
	08/06/12	137.33	119.31	18.02	
	11/05/12	137.33	125.95	11.38	
	02/04/13	137.33	118.72	18.61	
MW-24	09/23/04	142.83	139.35	3.48	
	10/19/04	142.83	141.09	1.74	
	11/10/04	142.83	140.60	2.23	
	12/06/04	142.83	139.34	3.49	
	03/14/05	142.83	129.12	13.71	
	06/20/05	142.83	124.62	18.21	
	07/13/05	142.83	124.60	18.23	
	09/19/05	142.83	127.51	15.32	
	09/21/05	142.83	127.60	15.23	
	12/17/05	142.83	118.37	24.46	
	03/20/06	142.83	109.25	33.58	
	06/19/06	142.83	107.30	35.53	
	09/25/06	142.83	115.04	27.79	
	10/05/06	142.83	115.35	27.48	
	12/11/06	142.83	113.61	29.22	
	03/12/07	142.83	111.60	31.23	
	06/18/07	142.83	118.08	24.75	
	09/24/07	142.83	135.15	7.68	
	12/10/07	142.83	143.49	-0.66	
	03/17/08	142.83	143.70	-0.87	
	06/23/08	142.83	145.17	-2.34	
	07/11/08	142.83	146.50	-3.67	
	07/14/08	142.83	146.72	-3.89	
	07/15/08	142.83	146.84	-4.01	
	09/22/08	142.83	151.29	-8.46	
	10/22/08	142.83	152.72	-9.89	
	12/15/08	142.83	154.29	-11.46	
	12/19/08	142.83	154.81	-11.98	
	02/25/09	142.83	153.94	-11.11	
	03/16/09	142.83	152.94	-10.11	
	03/18/09	142.83	152.55	-9.72	
	05/27/09	142.83	150.38	-7.55	
	06/22/09	142.83	150.37	-7.54	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-24	06/26/09	142.83	150.42	-7.59	
(Cont'd)	08/31/09	142.83	152.31	-9.48	
	09/10/09	142.83	152.59	-9.76	
	12/07/09	142.83	152.04	-9.21	
	02/10/10	142.83	149.58	-6.75	
	02/12/10	142.83	149.53	-6.70	
	03/01/10	142.83	148.54	-5.71	
	06/07/10	142.83	142.40	0.43	
	09/07/10	142.83	143.41	-0.58	
	12/06/10	142.83	142.45	0.38	
	03/24/11	142.83	132.13	10.70	
	06/20/11	142.83	127.36	15.47	
	08/01/11	142.83	124.12	18.71	
	08/05/11	142.83	123.84	18.99	
	10/31/11	142.83	117.61	25.22	
	02/06/12	142.83	112.65	30.18	
	05/07/12	142.83	110.05	32.78	
	06/26/12	142.83	111.97	30.86	
	08/06/12	142.83	115.85	26.98	
	11/05/12	142.83	123.08	19.75	
	12/10/12	142.83	122.41	20.42	
	02/04/13	142.83	119.55	23.28	
MW-25	09/20/04	142.64	152.87	-10.23	
	10/19/04	142.64	145.96	-3.32	
	11/10/04	142.64	143.60	-0.96	
	12/06/04	142.64	140.84	1.80	
	03/14/05	142.64	129.79	12.85	
	06/20/05	142.64	125.06	17.58	
	07/13/05	142.64	122.98	19.66	
	09/19/05	142.64	126.64	16.00	
	09/21/05	142.64	127.57	15.07	
	12/17/05	142.64	115.32	27.32	
	03/20/06	142.64	107.47	35.17	
	06/19/06	142.64	106.28	36.36	
	09/25/06	142.64	114.63	28.01	
	10/05/06	142.64	117.63	25.01	
	12/12/06	142.64	113.90	28.74	
	03/12/07	142.64	111.03	31.61	
	06/18/07	142.64	118.13	24.51	
	09/24/07	142.64	137.17	5.47	
	12/10/07	142.64	148.21	-5.57	
	12/20/07	142.64	151.34	-8.70	
	03/17/08	142.64	146.31	-3.67	
	06/23/08	142.64	147.94	-5.30	
	09/22/08	142.64	157.18	-14.54	
	10/22/08	142.64	158.43	-15.79	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-25	12/15/08	142.64	158.84	-16.20	
(Cont'd)	12/19/08	142.64	158.79	-16.15	
	02/25/09	142.64	155.58	-12.94	
	03/16/09	142.64	153.43	-10.79	
	03/18/09	142.64	154.82	-12.18	
	05/27/09	142.64	150.45	-7.81	
	06/22/09	142.64	150.68	-8.04	
	06/26/09	142.64	151.00	-8.36	
	08/31/09	142.64	154.61	-11.97	
	09/10/09	142.64	154.66	-12.02	
	12/07/09	142.64	153.57	-10.93	
	03/01/10	142.64	146.59	-3.95	
	06/07/10	142.64	140.30	2.34	
	09/07/10	142.64	144.61	-1.97	
	12/06/10	142.64	141.89	0.75	
	03/24/11	142.64	125.44	17.20	
	06/20/11	142.64	125.12	17.52	
	08/01/11	142.64	120.05	22.59	
	10/31/11	142.64	113.28	29.36	
	02/06/12	142.64	109.05	33.59	
	05/07/12	142.64	107.92	34.72	
	08/06/12	142.64	140.61	2.03	
	11/05/12	142.64	122.83	19.81	
	02/04/13	142.64	120.54	22.10	
MW-26A	10/19/04	137.30	135.45	1.85	
	11/10/04	137.30	135.59	1.71	
	12/06/04	137.30	135.06	2.24	
	03/14/05	137.30	127.74	9.56	
	06/20/05	137.30	125.41	11.89	
	07/13/05	137.30	125.00	12.30	
	09/19/05	137.30	127.22	10.08	
	09/21/05	137.30	127.31	9.99	
	12/17/05	137.30	121.44	15.86	
	03/20/06	137.30	112.18	25.12	
	05/18/06	137.30	107.48	29.82	
	06/19/06	137.30	106.50	30.80	
	09/25/06	137.30	108.81	28.49	
	12/12/06	137.30	108.94	28.36	
	03/12/07	137.30	110.51	26.79	
	06/18/07	137.30	115.63	21.67	
	09/24/07	137.30	129.55	7.75	
	12/10/07	137.30	138.57	-1.27	
	12/20/07	137.30	139.55	-2.25	
	12/20/07	137.30	139.52	-2.22	
	01/21/08	137.30	141.21	-3.91	
	03/17/08	137.30	142.09	-4.79	



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-26A	04/21/08	137.30	142.34	-5.04	
(Cont'd)	05/27/08	137.04	142.91	-5.87	
	06/23/08	137.04	144.94	-7.90	
	08/26/08	137.04	147.75	-10.71	
	09/22/08	137.04	149.54	-12.50	
	12/15/08	137.04	153.18	-16.14	
	03/16/09	137.04	151.38	-14.34	
	06/22/09	137.04	147.67	-10.63	
	08/31/09	137.04	150.21	-13.17	
	10/13/09	137.04	150.44	-13.40	
	10/30/09	137.04	149.92	-12.88	
	12/07/09	137.04	148.20	-11.16	
	03/01/10	137.04	145.68	-8.64	
	03/22/10	137.04	144.06	-7.02	
	06/07/10	137.04	139.28	-2.24	
	09/07/10	137.04	139.18	-2.14	
	12/06/10	137.04	140.17	-3.13	
	03/24/11	137.04	130.88	6.16	
	06/20/11	137.04	126.68	10.36	
	08/01/11	137.04	125.09	11.95	
	10/31/11	137.04	122.65	14.39	
	02/06/12	137.04	117.96	19.08	
	05/07/12	137.04	112.82	24.22	
	08/06/12	137.04	114.42	22.62	
	11/05/12	137.04	120.59	16.45	
	02/04/13	137.04	119.79	17.25	
MW-26B	10/19/04	137.20	136.23	0.97	
	11/10/04	137.20	136.16	1.04	
	12/06/04	137.20	136.02	1.18	
	03/14/05	137.20	131.73	5.47	
	06/20/05	137.20	129.29	7.91	
	07/13/05	137.20	129.00	8.20	
	09/19/05	137.20	129.99	7.21	
	09/21/05	137.20	130.07	7.13	
	12/17/05	137.20	126.53	10.67	
	03/20/06	137.20	118.22	18.98	
	06/19/06	137.20	110.17	27.03	
	09/25/06	137.20	110.84	26.36	
	10/05/06	137.20	111.20	26.00	
	12/12/06	137.20	111.31	25.89	
	03/12/07	137.20	113.61	23.59	
	06/18/07	137.20	117.50	19.70	
	09/24/07	137.20	127.68	9.52	
	12/10/07	137.20	135.82	1.38	
	12/20/07	137.20	136.85	0.35	
	12/20/07	137.20	136.78	0.42	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-26B	01/21/08	137.20	139.21	-2.01	
(Cont'd)	03/17/08	137.20	142.10	-4.90	
	05/27/08	137.05	144.96	-7.91	
	06/23/08	137.05	146.29	-9.24	
	08/26/08	137.05	150.28	-13.23	
	09/22/08	137.05	151.94	-14.89	
	12/15/08	137.05	155.64	-18.59	
	12/19/08	137.05	156.13	-19.08	
	03/16/09	137.05	155.53	-18.48	
	03/18/09	137.05	155.16	-18.11	
	06/22/09	137.05	152.80	-15.75	
	08/31/09	137.05	154.60	-17.55	
	09/10/09	137.05	154.60	-17.55	
	10/13/09	137.05	154.75	-17.70	
	10/14/09	137.05	154.80	-17.75	
	10/30/09	137.05	154.41	-17.36	
	12/07/09	137.05	153.17	-16.12	
	02/10/10	137.05	151.63	-14.58	
	03/01/10	137.05	151.04	-13.99	
	06/07/10	137.05	146.22	-9.17	
	09/07/10	137.05	144.57	-7.52	
	12/06/10	137.05	144.78	-7.73	
	03/24/11	137.05	138.67	-1.62	
	06/20/11	137.05	134.45	2.60	
	08/01/11	137.05	132.83	4.22	
	08/05/11	137.05	132.55	4.50	
	10/31/11	137.05	129.89	7.16	
	02/06/12	137.05	125.63	11.42	
	05/07/12	137.05	120.17	16.88	
	08/06/12	137.05	118.61	18.44	
	11/05/12	137.05	122.68	14.37	
	02/04/13	137.05	123.42	13.63	
MW-26C	10/19/04	137.28	141.81	-4.53	
	11/10/04	137.28	139.83	-2.55	
	12/06/04	137.28	135.90	1.38	
	03/14/05	137.28	121.75	15.53	
	06/20/05	137.28	128.11	9.17	
	07/13/05	137.28	125.75	11.53	
	09/19/05	137.28	137.35	-0.07	
	09/21/05	137.28	137.45	-0.17	
	12/17/05	137.28	112.48	24.80	
	03/20/06	137.28	109.21	28.07	
	06/19/06	137.28	104.32	32.96	
	09/25/06	137.28	113.96	23.32	
	10/05/06	137.28	114.08	23.20	
	12/12/06	137.28	111.13	26.15	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-26C	03/12/07	137.28	119.52	17.76	
(Cont'd)	06/18/07	137.28	130.71	6.57	
	09/24/07	137.28	153.19	-15.91	
	12/10/07	137.28	160.43	-23.15	
	12/20/07	137.28	160.88	-23.60	
	01/21/08	137.28	157.99	-20.71	
	02/21/08	137.28	155.52	-18.24	
	03/17/08	137.28	154.73	-17.45	
	04/21/08	137.28	155.21	-17.93	
	05/27/08	137.06	158.25	-21.19	
	06/10/08	137.06	159.70	-22.64	
	06/23/08	137.06	161.15	-24.09	
	07/16/08	137.06	164.52	-27.46	
	08/26/08	137.06	169.10	-32.04	
	09/22/08	137.06	170.89	-33.83	
	10/22/08	137.06	171.58	-34.52	
	12/15/08	137.06	169.04	-31.98	
	12/19/08	137.06	169.36	-32.30	
	01/07/09	137.06	163.22	-26.16	
	03/16/09	137.06	153.10	-16.04	
	03/18/09	137.06	152.44	-15.38	
	04/29/09	137.06	148.57	-11.51	
	06/22/09	137.06	152.47	-15.41	
	06/26/09	137.06	155.40	-18.34	
	08/31/09	137.06	158.68	-21.62	
	09/10/09	137.06	161.04	-23.98	
	10/13/09	137.06	156.48	-19.42	
	10/14/09	137.06	156.42	-19.36	
	10/23/09	137.06	154.73	-17.67	
	10/30/09	137.06	154.12	-17.06	
	11/04/09	137.06	153.77	-16.71	
	12/07/09	137.06	150.92	-13.86	
	01/19/10	137.06	149.68	-12.62	
	02/10/10	137.06	145.81	-8.75	
	02/12/10	137.06	145.52	-8.46	
	03/01/10	137.06	143.18	-6.12	
	06/07/10	137.06	140.37	-3.31	
	07/30/10	137.22	144.20	-6.98	
	09/07/10	137.22	147.97	-10.75	
	12/06/10	137.22	145.78	-8.56	
	03/01/11	137.22	128.33	8.89	
	03/24/11	137.22	130.31	6.91	
	03/25/11	137.22	129.76	7.46	
	06/20/11	137.22	125.03	12.19	
	06/23/11	137.22	125.92	11.30	
	08/01/11	137.22	127.39	9.83	
	08/05/11	137.22	127.92	9.30	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-26C	10/31/11	137.22	125.34	11.88	
(Cont'd)	11/01/11	137.22	125.37	11.85	
	02/06/12	137.22	117.23	19.99	
	05/07/12	137.22	110.60	26.62	
	08/06/12	137.22	124.89	12.33	
	11/05/12	137.22	134.41	2.81	
	02/04/13	137.22	126.26	10.96	
MW-27	05/27/08	137.16	157.80	-20.64	
	06/10/08	137.16	159.22	-22.06	
	06/23/08	137.16	160.75	-23.59	
	07/16/08	137.16	164.03	-26.87	
	08/26/08	137.16	168.65	-31.49	
	09/22/08	137.16	170.52	-33.36	
	10/22/08	137.16	171.19	-34.03	
	12/15/08	137.16	168.92	-31.76	
	12/19/08	137.16	169.05	-31.89	
	01/07/09	137.16	163.06	-25.90	
	03/16/09	137.16	153.24	-16.08	
	03/18/09	137.16	152.49	-15.33	
	04/29/09	137.16	148.59	-11.43	
	06/22/09	137.16	152.42	-15.26	
	06/24/09	137.16	154.08	-16.92	
	08/31/09	137.16	158.65	-21.49	
	09/10/09	137.16	160.81	-23.65	
	10/13/09	137.16	156.43	-19.27	
	10/14/09	137.16	156.35	-19.19	
	10/23/09	137.16	154.73	-17.57	
	10/30/09	137.16	154.10	-16.94	
	11/04/09	137.16	153.77	-16.61	
	12/07/09	137.16	150.98	-13.82	
	01/19/10	137.16	149.60	-12.44	
	03/01/10	137.16	143.25	-6.09	
	03/02/10	137.16	143.02	-5.86	
	06/07/10	137.16	139.74	-2.58	
	07/30/10	137.16	143.73	-6.57	
	09/07/10	137.16	147.75	-10.59	
	12/06/10	137.16	145.39	-8.23	
	03/01/11	137.16	127.65	9.51	
	03/24/11	137.16	129.57	7.59	
	06/20/11	137.16	124.36	12.80	
	08/01/11	137.16	126.64	10.52	
	08/05/11	137.16	127.08	10.08	
	10/31/11	137.16	124.43	12.73	
	02/06/12	137.16	116.35	20.81	
	05/07/12	137.16	110.03	27.13	
	08/06/12	137.16	124.18	12.98	



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-27	11/05/12	137.16	134.75	2.41	
(Cont'd)	02/04/13	137.16	125.54	11.62	
MW-28	05/16/08	140.77	160.41	-19.64	
	05/27/08	140.77	161.69	-20.92	
	06/10/08	140.77	163.08	-22.31	
	06/23/08	140.77	164.55	-23.78	
	07/16/08	140.77	167.88	-27.11	
	08/26/08	140.77	174.46	-33.69	
	09/22/08	140.77	174.45	-33.68	
	10/22/08	140.77	175.11	-34.34	
	12/15/08	140.77	172.87	-32.10	
	12/19/08	140.77	172.97	-32.20	
	01/07/09	140.77	166.82	-26.05	
	03/16/09	140.77	157.25	-16.48	
	03/18/09	140.77	156.45	-15.68	
	04/29/09	140.77	152.49	-11.72	
	06/22/09	140.77	156.45	-15.68	
	06/24/09	140.77	157.74	-16.97	
	08/31/09	140.77	162.68	-21.91	
	09/10/09	140.77	164.54	-23.77	
	10/13/09	140.77	160.35	-19.58	
	10/14/09	140.77	160.32	-19.55	
	10/23/09	140.77	158.57	-17.80	
	10/30/09	140.77	158.02	-17.25	
	11/04/09	140.77	157.61	-16.84	
	12/07/09	140.77	154.74	-13.97	
	01/19/10	140.77	153.63	-12.86	
	03/01/10	140.77	147.29	-6.52	
	03/04/10	140.77	146.80	-6.03	
	06/07/10	140.77	143.98	-3.21	
	07/30/10	140.77	147.43	-6.66	
	09/07/10	140.77	151.67	-10.90	
	12/06/10	140.77	149.96	-9.19	
	03/01/11	140.77	132.48	8.29	
	03/24/11	140.77	133.95	6.82	
	06/20/11	140.77	129.10	11.67	
	08/01/11	140.77	131.02	9.75	
	08/05/11	140.77	131.37	9.40	
	10/31/11	140.77	129.07	11.70	
	02/06/12	140.77	120.98	19.79	
	05/07/12	140.77	114.45	26.32	
	08/06/12	140.77	128.07	12.70	
	11/05/12	140.77	138.26	2.51	
	02/04/13	140.77	130.17	10.60	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-29	08/15/08	142.21	174.90	-32.69	
	08/19/08	142.21	174.44	-32.23	
	08/26/08	142.21	175.21	-33.00	
	09/22/08	142.21	177.31	-35.10	
	10/22/08	142.21	178.13	-35.92	
	12/15/08	142.34	176.26	-33.92	
	01/07/09	142.34	170.00	-27.66	
	03/16/09	142.34	160.00	-17.66	
	03/18/09	142.34	159.22	-16.88	
	04/29/09	142.34	154.91	-12.57	
	06/22/09	142.34	158.97	-16.63	
	06/24/09	142.34	159.99	-17.65	
	08/31/09	142.34	165.42	-23.08	
	09/10/09	142.34	167.01	-24.67	
	10/13/09	142.34	162.76	-20.42	
	10/14/09	142.34	162.78	-20.44	
	10/23/09	142.34	161.07	-18.73	
	10/30/09	142.34	160.59	-18.25	
	11/04/09	142.34	160.05	-17.71	
	12/07/09	142.34	156.92	-14.58	
	01/19/10	142.34	156.32	-13.98	
	03/01/10	142.34	149.84	-7.50	
	03/04/10	142.34	149.36	-7.02	
	06/07/10	142.34	146.45	-4.11	
	07/30/10	142.34	149.78	-7.44	
	09/07/10	142.34	154.30	-11.96	
	12/06/10	142.34	153.12	-10.78	
	03/01/11	142.34	135.43	6.91	
	03/24/11	142.34	136.86	5.48	
	03/30/11	142.34	135.81	6.53	
	06/20/11	142.34	131.87	10.47	
	08/01/11	142.34	134.23	8.11	
	08/05/11	142.34	134.61	7.73	
	10/31/11	142.34	132.65	9.69	
	02/06/12	142.34	124.12	18.22	
	05/07/12	142.34	117.12	25.22	
	08/06/12	142.34	130.62	11.72	
	11/05/12	142.34	141.32	1.02	
	02/04/13	142.34	133.48	8.86	
MW-30A	12/04/08	129.44	164.15	-34.71	
	12/05/08	129.44	164.29	-34.85	
	12/15/08	129.44	162.77	-33.33	
	12/19/08	129.44	163.02	-33.58	
	01/07/09	129.44	156.65	-27.21	
	03/16/09	129.44	145.68	-16.24	
	03/18/09	129.44	144.93	-15.49	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-30A	04/29/09	129.44	141.29	-11.85	
(Cont'd)	06/22/09	129.44	145.32	-15.88	
	06/24/09	129.44	148.04	-18.60	
	08/31/09	129.44	151.45	-22.01	
	09/10/09	129.44	154.83	-25.39	
	10/13/09	129.44	149.24	-19.80	
	10/14/09	129.44	149.22	-19.78	
	10/23/09	129.44	147.49	-18.05	
	10/30/09	129.44	146.87	-17.43	
	11/04/09	129.44	146.56	-17.12	
	12/07/09	129.44	143.60	-14.16	
	01/19/10	129.44	142.52	-13.08	
	03/01/10	129.44	135.95	-6.51	
	03/03/10	129.44	135.69	-6.25	
	06/07/10	129.44	133.44	-4.00	
	07/30/10	129.44	137.11	-7.67	
	09/07/10	129.44	140.90	-11.46	
	12/06/10	129.44	138.63	-9.19	
	03/01/11	129.44	120.97	8.47	
	03/15/11	129.44	123.10	6.34	
	03/24/11	129.44	123.64	5.80	
	06/20/11	129.44	117.99	11.45	
	08/01/11	129.44	121.07	8.37	
	08/05/11	129.44	121.58	7.86	
	10/31/11	129.44	119.19	10.25	
	02/06/12	129.44	110.70	18.74	
	05/07/12	129.44	103.59	25.85	
	08/06/12	129.44	119.04	10.40	
	11/05/12	129.44	127.77	1.67	
	01/03/13	129.44	119.71	9.73	
	02/04/13	129.44	119.49	9.95	
MW-30B	12/04/08	129.39	160.82	-31.43	
	12/05/08	129.39	161.49	-32.10	
	12/15/08	129.39	160.27	-30.88	
	01/07/09	129.39	154.82	-25.43	
	03/16/09	129.39	144.60	-15.21	
	03/18/09	129.39	143.96	-14.57	
	04/29/09	129.39	141.03	-11.64	
	06/22/09	129.39	144.02	-14.63	
	06/24/09	129.39	147.85	-18.46	
	08/31/09	129.39	149.39	-20.00	
	09/10/09	129.39	154.06	-24.67	
	10/13/09	129.39	147.92	-18.53	
	10/14/09	129.39	147.93	-18.54	
	10/23/09	129.39	146.17	-16.78	
	10/30/09	129.39	145.42	-16.03	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-30B	11/04/09	129.39	145.25	-15.86	
(Cont'd)	12/07/09	129.39	142.39	-13.00	
	01/19/10	129.39	140.64	-11.25	
	03/01/10	129.39	134.60	-5.21	
	06/07/10	129.39	130.92	-1.53	
	09/07/10	129.39	136.39	-7.00	
	12/06/10	129.39	133.99	-4.60	
	03/15/11	129.39	122	7	
	03/24/11	129.39	121.97	7.42	
	06/20/11	129.39	115.40	13.99	
	08/01/11	129.39	118.29	11.10	
	08/05/11	129.39	119.13	10.26	
	10/31/11	129.39	116.07	13.32	
	01/20/12	129.39	109.57	19.82	
	02/06/12	129.39	109.28	20.11	
	05/07/12	129.39	101.72	27.67	
	08/06/12	129.39	115.80	13.59	
	11/05/12	129.39	122.38	7.01	
	01/03/13	129.39	115.74	13.65	
	01/09/13	129.39	116.81	12.58	
	02/04/13	129.39	115.71	13.68	
MW-31	10/13/09	123.7	140.92	-17.2	
	10/14/09	123.7	140.85	-17.1	
	10/23/09	119.60	136.95	-17.35	
	10/30/09	119.60	136.26	-16.66	
	11/02/09	119.60	136.18	-16.58	
	12/07/09	119.60	133.45	-13.85	
	01/19/10	119.60	131.88	-12.28	
	02/10/10	119.60	127.61	-8.01	
	02/12/10	119.60	127.51	-7.91	
	03/01/10	119.60	124.99	-5.39	
	06/07/10	119.60	122.62	-3.02	
	07/30/10	119.60	126.33	-6.73	
	09/07/10	119.60	129.42	-9.82	
	12/06/10	119.60	125.45	-5.85	
	03/01/11	119.60	108.80	10.80	
	03/24/11	119.60	112.56	7.04	
	06/20/11	119.60	106.02	13.58	
	08/01/11	119.60	110.28	9.32	
	08/05/11	119.60	111.32	8.28	
	10/31/11	119.60	107.84	11.76	
	02/06/12	119.60	99.66	19.94	
	05/07/12	119.60	92.21	27.39	
	08/06/12	119.60	109.72	9.88	
	11/05/12	119.60	116.38	3.22	
	02/04/13	119.60	107.58	12.02	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-32A	01/04/10	92.88	110.20	-17.32	
	01/19/10	92.88	107.34	-14.46	
	02/10/10	92.88	101.90	-9.02	
	02/12/10	92.88	102.03	-9.15	
	03/01/10	92.88	99.24	-6.36	
	06/07/10	92.88	97.01	-4.13	
	09/07/10	92.88	104.02	-11.14	
	12/06/10	92.88	100.08	-7.20	
	03/24/11	92.88	87.97	4.91	
	06/20/11	92.88	80.19	12.69	
	08/01/11	92.88	87.56	5.32	
	10/14/11	92.88	84.70	8.18	
	10/31/11	92.88	85.17	7.71	
	02/06/12	92.88	75.40	17.48	
	05/07/12	92.88	66.57	26.31	
	08/06/12	92.88	88.32	4.56	
	11/05/12	92.88	93.88	-1.00	
	02/04/13	92.88	83.24	9.64	
MW-32B	01/04/10	92.89	109.29	-16.40	
	01/19/10	92.89	106.40	-13.51	
	02/10/10	92.89	101.75	-8.86	
	02/12/10	92.89	101.68	-8.79	
	03/01/10	92.89	99.18	-6.29	
	03/04/10	92.89	99.22	-6.33	
	06/07/10	92.89	96.71	-3.82	
	07/30/10	92.89	100.91	-8.02	
	09/07/10	92.89	103.45	-10.56	
	12/06/10	92.89	99.75	-6.86	
	03/01/11	92.89	82.87	10.02	
	03/24/11	92.89	87.67	5.22	
	06/20/11	92.89	80.34	12.55	
	08/01/11	92.89	86.35	6.54	
	10/14/11	92.89	83.95	8.94	
	10/31/11	92.89	84.01	8.88	
	02/06/12	92.89	74.84	18.05	
	05/07/12	92.89	66.54	26.35	
	08/06/12	92.89	86.18	6.71	
	11/05/12	92.89	92.20	0.69	
	01/03/13	92.89	81.64	11.25	
	02/04/13	92.89	82.76	10.13	
MW-32C	01/05/10	92.88	102.93	-10.05	
	01/19/10	92.88	102.03	-9.15	
	02/10/10	92.88	100.10	-7.22	
	02/12/10	92.88	100.03	-7.15	
	03/01/10	92.88	98.65	-5.77	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-32C	06/07/10	92.88	93.19	-0.31	
(Cont'd)	09/07/10	92.88	96.89	-4.01	
	12/06/10	92.88	94.01	-1.13	
	03/24/11	92.88	81.27	11.61	
	06/20/11	92.88	77.32	15.56	
	08/01/11	92.88	74.40	18.48	
	10/14/11	92.88	67.59	25.29	
	10/31/11	92.88	68.65	24.23	
	02/06/12	92.88	63.71	29.17	
	05/07/12	92.88	61.18	31.70	
	08/06/12	92.88	69.95	22.93	
	11/05/12	92.88	77.51	15.37	
	01/03/13	92.88	74.05	18.83	
	02/04/13	92.88	72.28	20.60	
MW-33	07/16/10	83.19	89.80	-6.61	
	07/30/10	83.19	92.32	-9.13	
	09/07/10	83.19	94.86	-11.67	
	12/06/10	83.19	90.88	-7.69	
	03/01/11	83.19	73.60	9.59	
	03/15/11	83.19	85.21	-2.02	
	03/24/11	83.19	80.03	3.16	
	06/20/11	83.19	71.50	11.69	
	08/01/11	83.19	82.56	0.63	
	10/14/11	83.19	80.82	2.37	
	10/31/11	83.19	77.92	5.27	
	02/06/12	83.19	68.13	15.06	
	05/07/12	83.19	57.78	25.41	
	08/06/12	83.19	83.31	-0.12	
	11/05/12	83.19	87.51	-4.32	
	12/10/12	83.19	76.87	6.32	
	01/03/13	83.19	75.02	8.17	
	02/04/13	83.19	78.41	4.78	
MW-34A	02/25/11	153.25	142.78	10.47	
	03/10/11	153.25	142.26	10.99	
	03/15/11	153.25	143.61	9.64	
	03/24/11	153.25	144.68	8.57	
	06/20/11	153.25	140.26	12.99	
	08/01/11	153.25	143.63	9.62	
	10/14/11	153.25	140.77	12.48	
	10/31/11	153.25	141.95	11.30	
	02/06/12	153.25	134.13	19.12	
	05/07/12	153.25	126.22	27.03	
	06/26/12	153.25	130.37	22.88	
	08/06/12	153.25	139.39	13.86	



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-34A	11/05/12	153.25	146.00	7.25	
(Cont'd)	02/04/13	153.25	138.95	14.30	
MW-34B	02/25/11	153.11	146.89	6.22	
	03/01/11	153.11	146.32	6.79	
	03/10/11	153.11	146.80	6.31	
	03/15/11	153.11	147.91	5.20	
	03/24/11	153.11	148.84	4.27	
	06/20/11	153.11	142.81	10.30	
	08/01/11	153.11	147.20	5.91	
	09/30/11	153.11	146.12	6.99	
	10/14/11	153.11	144.55	8.56	
	10/31/11	153.11	146.19	6.92	
	02/06/12	153.11	136.92	16.19	
	05/07/12	153.11	127.89	25.22	
	06/26/12	153.11	132.73	20.38	
	08/06/12	153.11	144.08	9.03	
	11/05/12	153.11	153.67	-0.56	
	12/10/12	153.11	149.08	4.03	
MW-34C	01/03/13	153.11	145.69	7.42	
	02/04/13	153.11	145.61	7.50	
	02/25/11	153.29	145.40	7.89	
	03/10/11	153.29	148.34	4.95	
	03/15/11	153.29	149.75	3.54	
	03/24/11	153.29	149.08	4.21	
	06/20/11	153.29	141.68	11.61	
	08/01/11	153.29	146.36	6.93	
	10/14/11	153.29	144.06	9.23	
	10/31/11	153.29	144.52	8.77	
	02/06/12	153.29	136.08	17.21	
	05/07/12	153.29	128.1	25.19	
	06/26/12	153.29	132.07	21.22	
	08/06/12	153.29	144.46	8.83	
	11/05/12	153.29	150.45	2.84	
	12/10/12	153.29	144.11	9.18	
MW-35A	01/03/13	153.29	143.18	10.11	
	02/04/13	153.29	143.01	10.28	
	01/19/11	93.57	77.69	15.88	
	02/03/11	93.57	77.51	16.06	
	03/24/11	93.57	76.01	17.56	
	06/20/11	93.57	71.74	21.83	
	08/01/11	93.57	75.29	18.28	
	10/31/11	93.57	71.55	22.02	
	02/06/12	93.57	64.46	29.11	
	05/07/12	93.57	60.11	33.46	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
MW-35A	06/26/12	93.57	64.03	29.54	
(Cont'd)	08/06/12	93.57	72.82	20.75	
	11/05/12	93.57	76.05	17.52	
	02/04/13	93.57	68.48	25.09	
MW-35B	01/19/11	93.56	84.50	9.06	
	02/03/11	93.56	84.59	8.97	
	03/24/11	93.56	82.95	10.61	
	06/20/11	93.56	78.82	14.74	
	08/01/11	93.56	82.78	10.78	
	10/31/11	93.56	79.67	13.89	
	02/06/12	93.56	72.06	21.50	
	05/07/12	93.56	65.67	27.89	
	06/26/12	93.56	70.36	23.20	
	08/06/12	93.56	80.68	12.88	
	11/05/12	93.56	85.02	8.54	
	02/04/13	93.56	77.70	15.86	
MW-35C	01/19/11	93.55	88.79	4.76	
	02/03/11	93.55	88.62	4.93	
	03/01/11	93.55	82.54	11.01	
	03/24/11	93.55	87.38	6.17	
	06/20/11	93.55	80.47	13.08	
	08/01/11	93.55	86.38	7.17	
	10/31/11	93.55	83.44	10.11	
	02/06/12	93.55	74.42	19.13	
	05/07/12	93.55	66.84	26.71	
	06/26/12	93.55	72.84	20.71	
	08/06/12	93.55	88.31	5.24	
	11/05/12	93.55	92.71	0.84	
	02/04/13	93.55	83.56	9.99	
MW-36	01/13/12	86.65	76.60	10.05	
	01/26/12	86.65	76.55	10.10	
	02/06/12	86.65	76.62	10.03	
	05/07/12	86.65	61.99	24.66	
	08/06/12	86.65	88.09	-1.44	
	11/05/12	86.65	93.33	-6.68	
	01/04/13	86.65	81.65	5.00	
	02/04/13	86.65	84.54	2.11	
MW-37	10/26/12	155.60	144.62	10.98	
	11/05/12	155.60	142.07	13.53	
	12/10/13	155.60	140.12	15.48	
	01/03/13	155.60	137.21	18.39	
	02/04/13	155.60	136.18	19.42	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
EW-01	06/20/05	142.65	132.89	9.76	
	09/19/05	142.65	140.63	2.02	
	09/21/05	142.65	140.88	1.77	
	12/17/05	142.65	119.06	23.59	
	03/20/06	142.65	112.76	29.89	
	05/18/06	142.65	105.98	36.67	
	06/19/06	142.65	108.61	34.04	
	09/25/06	142.65	118.60	24.05	
	12/11/06	142.5	116.08	26.4	
	03/12/07	142.5	122.93	19.6	
	06/18/07	142.5	133.31	9.2	
	09/24/07	142.5	157.35	-14.9	
	12/10/07	142.5	164.54	-22.0	
	12/20/07	142.5	164.75	-22.3	
	01/21/08	140.3	162.41	-22.1	
	03/17/08	140.3	156.96	-16.7	
	05/27/08	141.13	160.10	-18.97	
	06/10/08	141.13	161.48	-20.35	
	06/23/08	141.13	162.89	-21.76	
	07/09/08	141.07	165.87	-24.80	Pilot GETS
	07/11/08	141.07	165.59	-24.52	
	07/14/08	141.07	165.71	-24.64	
	07/15/08	141.07	167.64	-26.57	Pilot GETS
	07/30/08	141.07	168.45	-27.38	Pilot GETS
	08/14/08	141.07	> 172.65	< -31.58	Pilot GETS
	08/25/08	141.07	171.89	-30.82	Pilot GETS
	09/22/08	141.07	> 172.65	< -31.58	Pilot GETS
	10/22/08	141.07	> 172.65	< -31.58	Pilot GETS
	12/15/08	141.07	171.93	-30.86	
	12/19/08	141.07	171.74	-30.67	
	01/07/09	141.07	165.86	-24.79	
	02/25/09	141.07	162.17	-21.10	Pilot GETS
	03/16/09	141.07	157.84	-16.77	Pilot GETS
	03/18/09	141.07	158.69	-17.62	Pilot GETS
	04/29/09	141.07	152.31	-11.24	
	04/29/09	141.07	152.85	-11.78	Pilot GETS
	05/27/09	141.07	155.10	-14.03	Pilot GETS
	06/22/09	141.07	156.88	-15.81	Pilot GETS
	06/26/09	141.07	157.98	-16.91	Pilot GETS
	06/29/09	141.07	158.68	-17.61	Pilot GETS
	07/22/09	141.07	164.06	-22.99	Pilot GETS
	08/14/09	141.07	168.21	-27.14	Pilot GETS
	08/31/09	141.07	163.05	-21.98	Pilot GETS
	09/10/09	141.07	164.32	-23.25	Pilot GETS
	09/11/09	141.07	164.23	-23.16	Pilot GETS
	10/08/09	141.07	> 172.65	< -31.58	Pilot GETS
	10/23/09	141.07	158.25	-17.18	Pilot GETS

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
EW-01	10/30/09	141.07	157.75	-16.68	
(Cont'd)	11/04/09	141.07	157.23	-16.16	
	12/07/09	141.07	154.56	-13.49	
	12/09/09	141.07	155.28	-14.21	
	01/19/10	141.07	153.29	-12.22	
	03/01/10	141.07	147.07	-6.00	
	06/07/10	141.07	142.43	-1.36	
	09/07/10	141.07	150.09	-9.02	
	12/06/10	141.07	148.66	-7.59	
	03/01/11	141.07	131.68	9.39	
	03/24/11	141.07	132.08	8.99	
	06/20/11	141.07	127.90	13.17	
	08/01/11	141.07	128.94	12.13	
	08/05/11	141.07	129.27	11.80	
	10/14/11	141.07	125.48	15.59	
	10/31/11	141.07	126.74	14.33	
	01/05/12	141.07	121.24	19.83	
	02/06/12	141.07	119.36	21.71	
	05/07/12	141.07	113.04	28.03	
	06/26/12	141.07	117.34	23.73	
	08/06/12	141.07	125.45	15.62	
	11/05/12	141.07	136.31	4.76	
	02/04/13	141.07	128.42	12.65	
EW-02	10/23/09	137.6	137.92	-0.3	
	10/30/09	137.6	156.81	-19.2	
	10/31/09	137.6	155.97	-18.3	
	11/04/09	136.2	153.21	-17.0	
	12/07/09	132.97	UTM	--	
	02/10/10	132.97	142.49	-9.52	
	03/01/10	132.97	139.89	-6.92	
	03/22/10	132.97	136.73	-3.76	Pre-Startup
	03/22/10	132.97	143.6	-10.6	Pilot GETS
	03/23/10	132.97	143.25	-10.28	Pilot GETS
	03/24/10	132.97	144.42	-11.45	Pilot GETS
	03/25/10	132.97	144.60	-11.63	Pilot GETS
	03/26/10	132.97	144.99	-12.02	Pilot GETS
	06/07/10	132.97	143.34	-10.37	Pilot GETS
	06/10/10	132.97	143.42	-10.45	Pilot GETS
	07/08/10	132.97	144.76	-11.79	Pilot GETS
	07/30/10	132.97	145.5	-12.53	Pilot GETS
	08/02/10	132.97	146.95	-13.98	Pilot GETS
	09/02/10	132.97	150.82	-17.85	Pilot GETS
	09/07/10	132.97	150.46	-17.49	Pilot GETS
	10/07/10	132.97	153.49	-20.52	Pilot GETS
	11/11/10	132.97	153.63	-20.66	Pilot GETS
	12/07/10	132.97	148.62	-15.65	Pilot GETS

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Regional Groundwater System Monitor and Extraction Wells (continued)</u>					
EW-02	01/13/11	132.97	138.52	-5.55	Pilot GETS
(Cond't)	02/03/11	132.97	136.61	-3.64	Pilot GETS
	03/02/11	132.97	130.70	2.27	Pilot GETS
	03/24/11	132.97	133.23	-0.26	Pilot GETS
	04/01/11	132.97	132.74	0.23	Pilot GETS
	05/04/11	132.97	134.42	-1.45	Pilot GETS
	06/07/11	132.97	129.64	3.33	Pilot GETS
	06/20/11	132.97	128.12	4.85	Pilot GETS
	07/02/11	132.97	127.73	5.24	Pilot GETS
	08/01/11	132.97	130.41	2.56	Pilot GETS
	08/05/11	132.97	130.83	2.14	Pilot GETS
	09/09/11	132.97	131.13	1.84	Pilot GETS
	09/30/11	132.97	128.61	4.36	
	10/17/11	132.97	127.67	5.30	Pilot GETS
	10/31/11	132.97	128.83	4.14	Pilot GETS
	11/01/11	132.97	128.76	4.21	Pilot GETS
	12/07/11	132.97	122.0	11.0	Pilot GETS
	12/08/12	132.97	123.51	9.46	Pilot GETS
	01/06/12	132.97	119.6	13.4	Pilot GETS
	01/10/12	132.97	120.72	12.25	Pilot GETS
	02/06/12	132.97	118.95	14.02	Pilot GETS
	02/08/12	132.97	119.22	13.75	Pilot GETS
	03/09/12	132.97	113.25	19.72	Pilot GETS
	04/02/12	132.97	116.19	16.78	Pilot GETS
	04/16/12	132.97	114.57	18.40	Pilot GETS
	05/01/12	132.97	113.65	19.32	Pilot GETS
	05/07/12	132.97	113.55	19.42	Pilot GETS
	06/07/12	132.97	118.65	14.32	
	06/08/12	132.97	118.79	14.18	Pilot GETS
	06/26/12	132.97	118.32	14.65	Pilot GETS
	07/11/12	132.97	121.79	11.18	Pilot GETS
	08/06/12	132.97	127.16	5.81	Pilot GETS
	08/06/12	132.97	127.42	5.55	Pilot GETS
	09/06/12	132.97	132.79	0.18	Pilot GETS
	10/15/12	132.97	156.45	-23.48	Pilot GETS
	11/05/12	132.97	137.50	-4.53	Pilot GETS
	12/10/12	132.97	133.49	-0.52	Pilot GETS
	02/04/13	132.97	129.53	3.44	Pilot GETS
<u>Perched Zone Water Levels</u>					
P-07	06/12/97	165.34	135.20	30.14	
	05/13/98	165.34	135.11	30.23	
	05/27/98	165.34	135.12	30.22	
	06/11/98	165.34	135.15	30.19	
	07/14/98	165.34	135.26	30.08	
	11/11/98	165.34	135.39	29.95	
	11/18/98	165.34	135.42	29.92	SVE, DPE-H2O



TABLE 1

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Perched Zone Water Levels (continued)</u>					
P-07	11/18/98	165.34	135.48	29.86	SVE, DPE-H2O
(Cont'd)	11/19/98	165.34	135.36	29.98	SVE, DPE-H2O
	11/20/98	165.34	135.44	29.90	SVE, DPE, DPE-H2O
	11/23/98	165.34	135.36	29.98	SVE, DPE-H2O
	11/23/98	165.34	135.52	29.82	SVE, DPE-H2O
	11/24/98	165.34	135.53	29.81	SVE, DPE-H2O
	12/07/98	165.34	135.40	29.94	SVE, DPE-H2O
	12/07/98	165.34	135.52	29.82	SVE, DPE-H2O
	12/10/98	165.34	135.50	29.84	SVE, DPE, DPE-H2O
	12/11/98	165.34	135.37	29.97	SVE, DPE, DPE-H2O
	12/14/98	165.34	135.26	30.08	SVE, DPE-H2O
	12/14/98	165.34	135.27	30.07	SVE, DPE-H2O
	12/16/98	165.34	135.48	29.86	SVE, DPE, DPE-H2O
	01/06/99	165.34	135.36	29.98	SVE, DPE, DPE-H2O
	01/20/99	165.34	135.20	30.14	
	01/25/99	165.34	135.50	29.84	DPE, DPE-H2O
	01/27/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	02/01/99	165.34	135.25	30.09	SVE, DPE, DPE-H2O
	02/10/99	165.34	135.56	29.78	SVE, DPE, DPE-H2O
	02/23/99	165.34	135.17	30.17	
	03/01/99	165.34	135.55	29.79	DPE
	03/12/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	03/15/99	165.34	135.59	29.75	SVE, DPE, DPE-H2O
	03/17/99	165.34	135.54	29.80	SVE, DPE, DPE-H2O
	03/29/99	165.34	135.34	30.00	SVE, DPE-H2O
	04/07/99	165.34	DRY	--	SVE, DPE-H2O
	04/12/99	165.34	135.58	29.76	SVE, DPE-H2O
	04/23/99	165.34	135.22	30.12	SVE, DPE-H2O
	04/29/99	165.34	DRY	--	SVE, DPE-H2O
	05/17/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/16/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/25/99	165.34	135.28	30.06	SVE, DPE-H2O
	07/15/99	165.34	135.57	29.77	DPE, DPE-H2O
	08/30/99	165.34	135.58	29.76	DPE-H2O
	09/27/99	165.34	135.58	29.76	5.6 inches water in vaccum
	11/02/99	165.34	135.56	29.78	5 inches water in vaccum
	11/23/99	165.34	135.27	30.07	
	11/23/99	165.34	135.13	30.21	
	11/23/99	165.34	135.14	30.20	
	12/06/99	165.34	135.70	29.64	
	02/07/00	165.34	135.49	29.85	
	07/05/00	165.34	135.03	30.31	
	01/16/01	145.52	115.25	30.27	
	03/19/01	145.52	115.34	30.18	
	03/26/01	145.52	115.24	30.28	
	04/03/01	145.52	115.30	30.22	
	04/10/01	145.52	115.20	30.32	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Perched Zone Water Levels (continued)</u>					
P-07	04/17/01	145.52	115.20	30.32	
(Cont'd)	04/26/01	145.52	115.30	30.22	
	05/10/01	145.52	115.35	30.17	
	06/26/01	145.52	115.16	30.36	
	09/10/01	142.31	111.91	30.40	
	10/24/01	142.31	112.04	30.27	
	01/15/02	142.31	111.98	30.33	
	03/19/02	142.31	111.92	30.39	
	04/15/02	142.31	112.04	30.27	
	10/31/02	142.31	112.13	30.18	
	11/18/02	142.31	112.11	30.20	
	05/08/03	142.31	112.48	29.83	
	06/09/03	142.31	112.94	29.37	
	09/15/03	142.31	113.65	28.66	
	10/14/03	142.31	113.82	28.49	
	12/15/03	142.31	114.04	28.27	
	03/29/04	142.31	112.42	29.89	
	06/14/04	142.31	113.91	28.40	
	09/20/04	142.31	DRY		Dry to 117.4 feet bls. Water level elevation <24.9 feet msl.
				--	
	10/19/04	142.31	116.30	26.01	
	12/06/04	142.31	115.65	26.66	
	03/15/05	142.31	DRY	--	Dry @ 116.8 ft.
	09/19/05	142.31	DRY	--	Dry @ 115.0 ft bls.
	12/17/05	142.31	112.26	30.05	
	03/20/06	142.31	110.94	31.37	
	06/19/06	142.31	107.57	34.74	
	09/25/06	142.31	111.19	31.12	
	12/11/06	142.31	111.22	31.09	
	03/12/07	142.31	111.71	30.60	
	06/18/07	142.31	114.92	27.39	
	09/24/07	142.31	DRY	--	
	12/10/07	142.31	DRY	--	Dry @ 115.16 ft bls.
	03/17/08	142.31	114.58	27.73	
	06/23/08	142.31	114.13	28.18	
	09/22/08	142.31	113.85	28.46	
	12/15/08	142.31	113.47	28.84	
	03/16/09	142.31	113.13	29.18	
	06/22/09	142.31	112.81	29.50	
	08/31/09	142.31	112.67	29.64	
	12/07/09	142.31	112.52	29.79	
	03/01/10	142.31	112.34	29.97	
	06/07/10	142.31	112.24	30.07	
	09/07/10	142.31	112.51	29.80	
	12/06/10	142.31	112.27	30.04	
	03/24/11	142.31	111.51	30.80	
	06/20/11	142.31	111.36	30.95	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Perched Zone Water Levels (continued)</u>					
P-07	08/01/11	142.31	111.31	31.00	
(Cont'd)	10/31/11	142.31	111.28	31.03	
	02/06/12	142.31	111.01	31.30	
	05/07/12	142.31	110.72	31.59	
	08/06/12	142.31	111.39	30.92	
	11/05/12	142.31	112.34	29.97	
	02/04/13	142.31	111.50	30.81	
P-09	09/15/03	183.86	121.85	62.01	
	10/08/03	183.86	121.68	62.18	
	10/14/03	183.86	121.53	62.33	
	12/15/03	183.86	122.09	61.77	
	03/29/04	183.86	122.03	61.83	
	06/14/04	183.86	122.29	61.57	
	09/20/04	183.86	122.49	61.37	
	11/10/04	183.86	122.00	61.31	
	12/06/04	183.86	122.93	61.10	
	03/14/05	183.86	121.45	62.41	
	06/20/05	183.86	121.50	62.36	
	09/19/05	183.86	121.34	62.52	
	12/17/05	183.86	121.32	62.54	
	03/20/06	183.86	121.20	62.66	
	06/19/06	183.86	120.96	62.90	
	09/25/06	183.86	120.85	63.01	
	12/12/06	183.86	120.94	62.92	
	03/12/07	183.86	120.93	62.93	
	06/18/07	183.86	120.80	63.06	
	09/24/07	183.86	120.91	62.95	
	12/10/07	183.86	120.84	63.02	
	03/17/08	183.86	120.76	63.10	
	06/23/08	183.86	120.73	63.13	
	09/22/08	183.86	120.83	63.03	
	12/15/08	183.86	120.64	63.22	
	03/16/09	183.86	120.70	63.16	
	06/22/09	183.86	120.66	63.20	
	08/31/09	183.86	120.75	63.11	
	12/07/09	183.86	120.80	63.06	
	03/01/10	183.86	120.74	63.12	
	06/07/10	183.86	120.69	63.17	
	09/07/10	183.86	120.78	63.08	
	12/06/10	183.86	120.60	63.26	
	03/24/11	183.86	120.44	63.42	
	06/20/11	183.86	120.48	63.38	
	08/01/11	183.86	120.48	63.38	
	10/31/11	183.86	120.50	63.36	
	02/06/12	183.86	120.50	63.36	
	05/07/12	183.86	120.57	63.29	

TABLE 1
GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
<u>Perched Zone Water Levels (continued)</u>					
P-09	08/06/12	183.86	120.48	63.38	
(Cont'd)	11/05/12	183.86	120.70	63.16	
	2/4/213	183.86	120.54	63.32	

FOOTNOTES

(a) Reference point elevations are relative to City of Fullerton datum.

(>) = Greater than

(<) = Less than

(--) = Not Calculated

bls = Below land surface

msl = Mean sea level

NA = Reference Point Not Available

SVE = Soil Vapor Extraction System On

DPE = Vapor Phase Dual Vapor Extraction System On

DPE-H2O = Water Phase Dual Vapor Extraction System On

Pilot GETS = Pilot Groundwater Extraction and Treatment System On

UTM = Unable to Measure

TABLE 2
WELL CONSTRUCTION SUMMARY

Well Identifier	Date Installed	Current Land Surface Elevation (feet msl)	Current Reference Point Elevation (feet msl)	Total Depth of Borehole (feet bls)	Perforated Interval (feet bls)	Screen Slot Size (inches)	Borehole Diameter (inches)	Casing Diameter (inches) (a)	Filter Pack Interval (feet bls)	Filter Pack Sand Size	Grout Filter/ Intermediate Seal Interval (feet bls) (b)	Annular Seal Interval (feet bls) (c)
<u>Regional Groundwater System Monitor Wells, Extraction Wells and Piezometer:</u>												
MW-06	1/16/1997	185.0	184.70	190.9	149.6 - 189.6	0.010	8.5	2	145.4 - 190.9	#2/16	139.4 - 145.4 (d)	0 - 139.4
MW-08	1/22/1997	156.6	155.91	167.2	126.1 - 166.1	0.010	8.5	2	120.7 - 167.2	#2/16	115.7 - 120.7	0 - 115.7
MW-09	3/21/1997	180.5	180.10	194.2	152.2 - 192.2	0.010	8.5	2	146.2 - 194.2	#2/16	141.2 - 146.2	0 - 141.2
MW-13	4/16/1997	142.5	141.84	159.6	120.6 - 159.6	0.010	8.5	2	114.6 - 159.6	#2/16	109.6 - 114.6	0 - 109.6
MW-15	5/18/1998	145.6	144.95	174.8	120.8 - 170.8	0.010	8.5	2	115.8 - 174.8	#2/16	112.8 - 115.8	0 - 112.8
MW-16	11/20/1999	143.0	142.40	179.5	148.5 - 178.5	0.010	11.0	4	144.5 - 179.5	#2/16	134.5 - 144.5 (e)	0 - 134.5
MW-17	5/31/2000	142.8	142.70	203.7	173.1 - 193.1 (i)	0.020	10.0	4	159.7 - 193.1	#2/16	156.2 - 159.7 193.1 - 203.7 (j)	0 - 156.2
MW-18	5/24/2000	142.4	142.32	195.6	164.1 - 194.1	0.020	10.0	4	158.9 - 194.5	#2/16	154.2 - 158.9	0 - 154.2
MW-19	5/26/2000	142.7	142.06	205.5	184.9 - 204.9	0.020	10.0	4	177.0 - 205.3	#2/16	171.5 - 177.0	0 - 171.5
MW-20	6/26/2003	184.4	184.19	200.0	158.6 - 198.2	0.020	11.0	4 (f)	158.0 - 200.0	#2/12	151.0 - 158.0 (g)	0 - 151.1 (h)
MW-21	7/17/2003	143.3	141.18	238.3	212.1 - 232.1	0.010	8.0	4 (k)	205.0 - 234.5	#2/16	202.0 - 205.0 234.5 - 238 (j)	0 - 202.0 (h)
MW-22	8/13/2003	139.4	138.65	245.0	217.4 - 237.4	0.020	8.0	4 (l)	215.0 - 238.0	#2/12	208.0 - 215.0 (m)	0 - 208.0 (h)
MW-23	8/18/2003	137.8	137.33	235.6	215.2 - 235.2	0.020	8.0	4 (n)	209.4 - 235.6	#2/12	203.5 - 209.4 (m)	0 - 203.5 (h)
MW-24	9/15/2004	143.1	142.83	338.0	310.3 - 330.3	0.030	10.6	4 (o)	306 - 330	#3	301 - 306 (p)	0 - 301 (h)
MW-25	9/10/2004	143.0	142.64	805	449.4 - 479.8	0.010	8.5 (q)	2 (r)	429 - 485	#2/16	418 - 429	0 - 418 (h)
MW-26A (s)	10/1/2004	137.6	137.04	805	279 - 309	0.020	12.25 (q)	2 (t)	274 - 315	#2/12	266 - 274	0 - 266 (h)
MW-26B (s)	10/1/2004	137.6	137.05	805	339 - 379	0.020	12.25 (q)	2 (u)	334 - 387	#2/12	266 - 274	0 - 266 (h)
MW-26C (s)	10/1/2004	137.6	137.22	805	459 - 499	0.020	12.25 (q)	2 (v)	435 - 499	#2/12	387 - 435 (w)	0 - 266 (h)
MW-27	4/22/2008	137.6	137.16	550	475 - 505.2 (cc)	0.030	11.25 (q)	4 (z)	468 - 520	#3	457.5 - 468	0 - 457.5 (h)
MW-28	5/5/2008	141.4	140.77	425	335 - 375	0.040	12.25 (q)	4 (z)	325.4 - 377	#8	318 - 325.4	0 - 318 (h)
MW-29	8/15/2008	142.7	142.34	265.7	200 - 240	0.020	10.0 (aa)	4 (z)	185 - 246	#2/12	176 - 185	0 - 176 (h)
MW-30A(s)	11/26/2008	130.2	129.44	635 (j)	524-564	0.020	14.25	3 (y)	515.9-570.5	#2/12	495.5-515.9	0-495.5 (bb)
MW-30B(s)	11/26/2008	130.2	129.39	635 (j)	596-616	0.020	14.25	3 (y)	586.8-625	#2/12	586.8-570.5	0-495.5 (bb)
MW-31	10/2/2009	120.3	119.60	1,100 (jj)	946-996	0.020	13	6(kk)	922-1,006	#2/12	904-922	0-904
MW-32A(s)	12/10/2009	93.4	92.88	1,153 (gg)	890-905	0.020	18.5	4(dd)	880-910	#2/12	832-880	0-832
MW-32B(s)	12/10/2009	93.4	92.89	1,153 (gg)	969-999	0.020	18.5	4(dd)	960-1,004.5	#2/12	910-960	0-832
MW-32C(s)	12/10/2009	93.4	92.88	1,153 (gg)	1,070-1,090	0.020	18.5	4(dd)	1,054-1,100	#2/12	1,004.5-1,054	0-832
MW-33	7/2/2010	83.8	83.19	1,080 (hh)	980-1,020	0.020	11	4(dd)	970-1,025	#2/12	924-970	0-924 (ii)
MW-34A	2/3/2011	154.0	153.25	290	220 - 280	0.020	12.25	4(dd)	211 - 290	#2/12	175 - 211	0 - 175
MW-34B	2/1/2011	153.9	153.11	540	486 - 536	0.020	12.25	4(dd)	475 - 540	#2/12	449 - 475	0 - 449
MW-34C	1/19/2011	154.1	153.29	709 (ll)	556 - 576	0.020	12.25	4(dd)	551 - 582	#2/12	530 - 551	0 - 530
MW-35A	12/20/2010	94.3	93.57	1,101	420 - 470	0.020	18	4(dd)	401 - 482	#2/12	376 - 401	0 - 376
MW-35B	12/20/2010	94.3	93.56	1,101	745 - 805	0.020	18	4(dd)	725 - 816	#2/12	482 - 725	0 - 376
MW-35C	12/20/2010	94.3	93.55	1101 (ll)	990 - 1,040	0.020	12.25	4(dd)	980 - 1048	#2/12	816 - 980	0 - 376
MW-36	1/3/2012	87.19	86.65	1030 (mm)	934 - 954 974 - 994	0.020	12.25	4(dd)	914 - 1003	#2/12	95 - 853 (oo), 853 - 914 (pp)	0 - 95 (qq)
MW-37	10/17/2012	156.02	155.60	916	770-820	0.020	12.25	4(dd)	755-834	#2/12	724-755 (pp) 229-724 (rr)	0-229 (ss)
EW-01	5/16/2005	143.3	141.07	195	138.1-188.1	0.020	7.6	4 (x)	134.1-195	#2/12	129-134.1 (m)	0-129 (h)
EW-02	10/20/2009	136.0	132.97	473 (ee)	410-460	0.030	17.0	8 (ff)	400-465	#3	384-400	0-384
<u>Perched Zone Piezometers</u>												
P-07	6/6/1997	142.7	142.31	116.8	107.7 - 117.7	0.010	8.5	2	104.7 - 117.7	#2/16	101.7 - 104.7	0 - 101.7
P-09	6/30/2003	184.3	183.86	130.0	109.6 - 129.6	0.010	11.0	4	114.0 - 130.0	#2/16	101.0 - 108.0 (g)	0 - 101.0 (h)

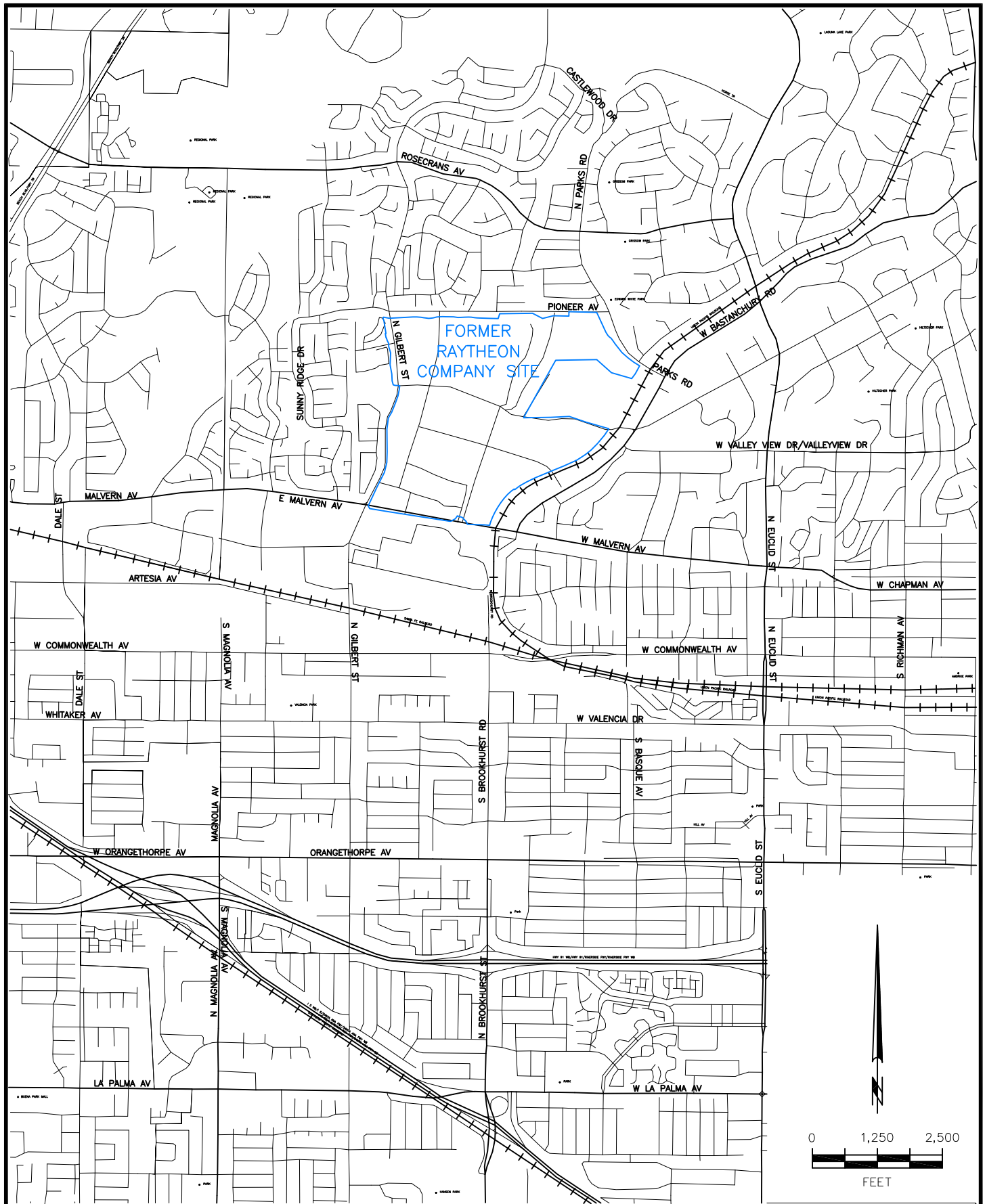
NOTE: Refer to page 2 of this table for footnotes.

TABLE 2
WELL CONSTRUCTION SUMMARY

FOOTNOTES

- msl = Mean sea level, City of Fullerton datum
 bls = Below current land surface (October 2004)
- (a) = Schedule 40 polyvinyl chloride (PVC) screen and casing, unless otherwise indicated
 (b) = Medium bentonite chip seal, unless otherwise indicated
 (c) = Bentonite grout annular seal unless otherwise indicated, completed at surface with vault set in concrete
 (d) = No. 60 silica sand
 (e) = Includes 2.0 feet of No. 60 silica sand placed above filter pack
 (f) = Schedule 80 polyvinyl chloride screen and casing
 (g) = Includes 2.5 to 3.0 feet of No. 60 silica sand placed above bentonite chip seal
 (h) = Cement/bentonite grout, Type I/II Portland, less than 5% bentonite
 (i) = Well plug, approximately 0.5-foot length, set at bottom of perforated interval
 (j) = Bottom of borehole backfilled with bentonite chips
 (k) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 122.0 - 212.1 feet bls; Schedule 40 mild steel casing 0 - 122.0 feet bls
 (l) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 112.4 - 217.4 feet bls; Schedule 40 mild steel casing 0 - 112.4 feet bls
 (m) = 1/4-inch coated bentonite pellets
 (n) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 110.1 - 215.2 feet bls; Schedule 40 mild steel casing 0 - 110.1 feet bls
 (o) = Mild steel wire wrap screen and Schedule 40 mild steel well casing
 (p) = Includes 1 to 2 feet of #2/16 sand placed above bentonite chip seal
 (q) = Below filter pack, diameter of the original pilot borehole is 5 to 6.25 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
 (r) = Stainless steel wire wrap screen, Schedule 10 stainless steel casing 429.4 - 449.4 feet bls, Schedule 80 polyvinylchloride casing 429.0 - 429.4 feet bls, Schedule 40 mild steel casing 0 - 429.0 feet bls
 (s) = Nested wells MW-26A, MW-26B, MW-26C, and MW-32A, MW-32B, MW-32C are constructed with three separate well casings in a single borehole; nested well MW-30A and MW-30B is constructed with two separate casings in a single borehole.
 (t) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 259 - 279 feet bls and 0 - 19 feet bls; Schedule 40 mild steel casing 19 - 259 feet bls
 (u) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 319 - 339 feet bls; Schedule 40 mild steel casing 0 - 319 feet bls
 (v) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 439 - 459 feet bls; Schedule 40 mild steel casing 0 - 439 feet bls
 (w) = #8 granular bentonite with exception of heavy mud/formational caving filling annular interval from 417 to 428 feet bls
 (x) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 118.1-138.1 feet bls; Schedule 40 mild steel casing 0-118.1 feet bls
 (y) = Schedule 40 Stainless steel endcaps; Schedule 10 stainless steel casing; Stainless steel wire wrap screen
 (z) = Schedule 80 PVC blank and screen casing
 (aa) = Below filter pack, diameter of the original pilot borehole is 8 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
 (bb) = Neat cement
 (cc) = Depth of screen interval adjusted to account for loss at bottom of casing due to breakage in casing wall. Original casing (515 ft bls) was sealed at 505.2 ft bls
 (dd) = Schedule 40 Stainless steel endcaps; Schedule 80 polyvinyl chloride casing; Stainless steel wire wrap screen
 (ee) = Pilot borehole drilled to a total depth of 493 feet bls and backfilled with 5% bentonite-cement grout seal to 465 feet bls
 (ff) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 2.5-foot stainless steel sump
 (gg) = Pilot borehole drilled to a total depth of 1,153 feet bls and backfilled with 5% bentonite-cement grout seal to 1,100 feet bls
 (hh) = Pilot borehole drilled to a total depth of 1,080 feet bls and backfilled with 5% bentonite-cement grout seal to 1,025 feet bls
 (ii) = Annular seal interval is composed of cement grout with approximately 5% bentonite from 720 to 924 feet bls and bentonite grout from near land surface to 720 feet bls
 (jj) = Pilot borehole drilled to a total depth of 1,100 feet bls and backfilled with 5% bentonite-cement grout seal to 1,006 feet bls
 (kk) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 5-foot stainless steel sump
 (ll) = Bottom of borehole backfilled with approximately 5% bentonite-cement grout
 (mm) = Bottom of borehole backfilled with bentonite pellets
 (oo) = High solids bentonite grout
 (pp) = Bentonite chips
 (qq) = Portland cement with approximately 5% bentonite
 (rr) = Medium bentonite chips and #2/12 Sand; 1:1 dry volume mix
 (ss) = Portland cement with approximately 2.5% bentonite

May 11, 2011 - 10:09am ADE - T: \2011\500-599\532 Raytheon\Hydrogeology\H+A Base\410-8281.dwg



HARGIS+ASSOCIATES, INC.
Hydrogeology/Engineering

FIGURE 1. SITE LOCATION

5/11 | RPT NO. 532.31 | 410-8281 | A

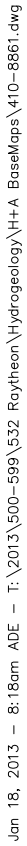
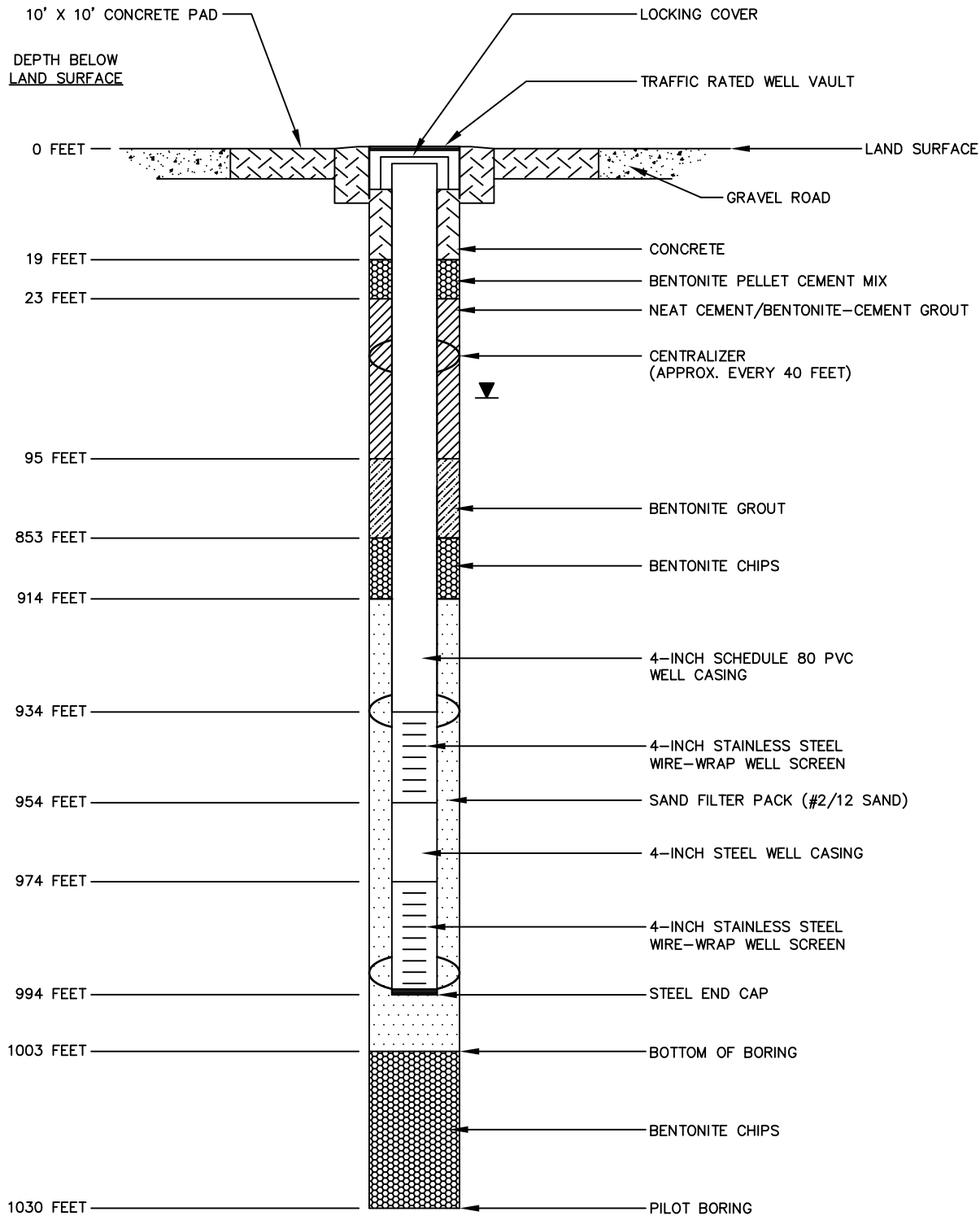


FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

May 01, 2013 - 2:03pm ADE - T:\2013\500-599\532 Raytheon\Hydrogeology\WellDiag\710-0789.dwg

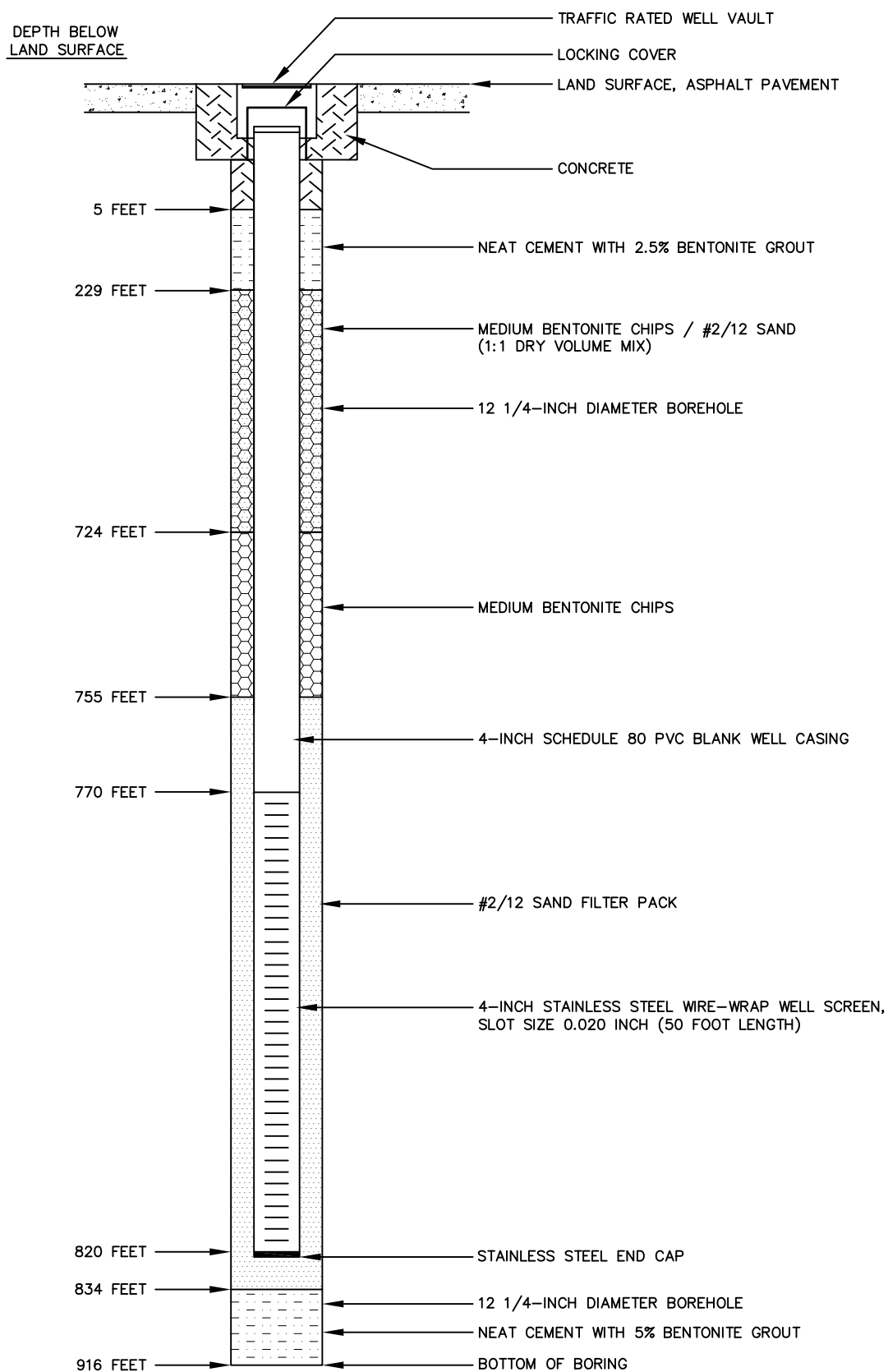


NOT TO SCALE



HARGIS+ASSOCIATES, INC.
Hydrogeology/Engineering

FIGURE 3.
SCHEMATIC CONSTRUCTION DIAGRAM
MONITOR WELL MW-36



NOT TO SCALE

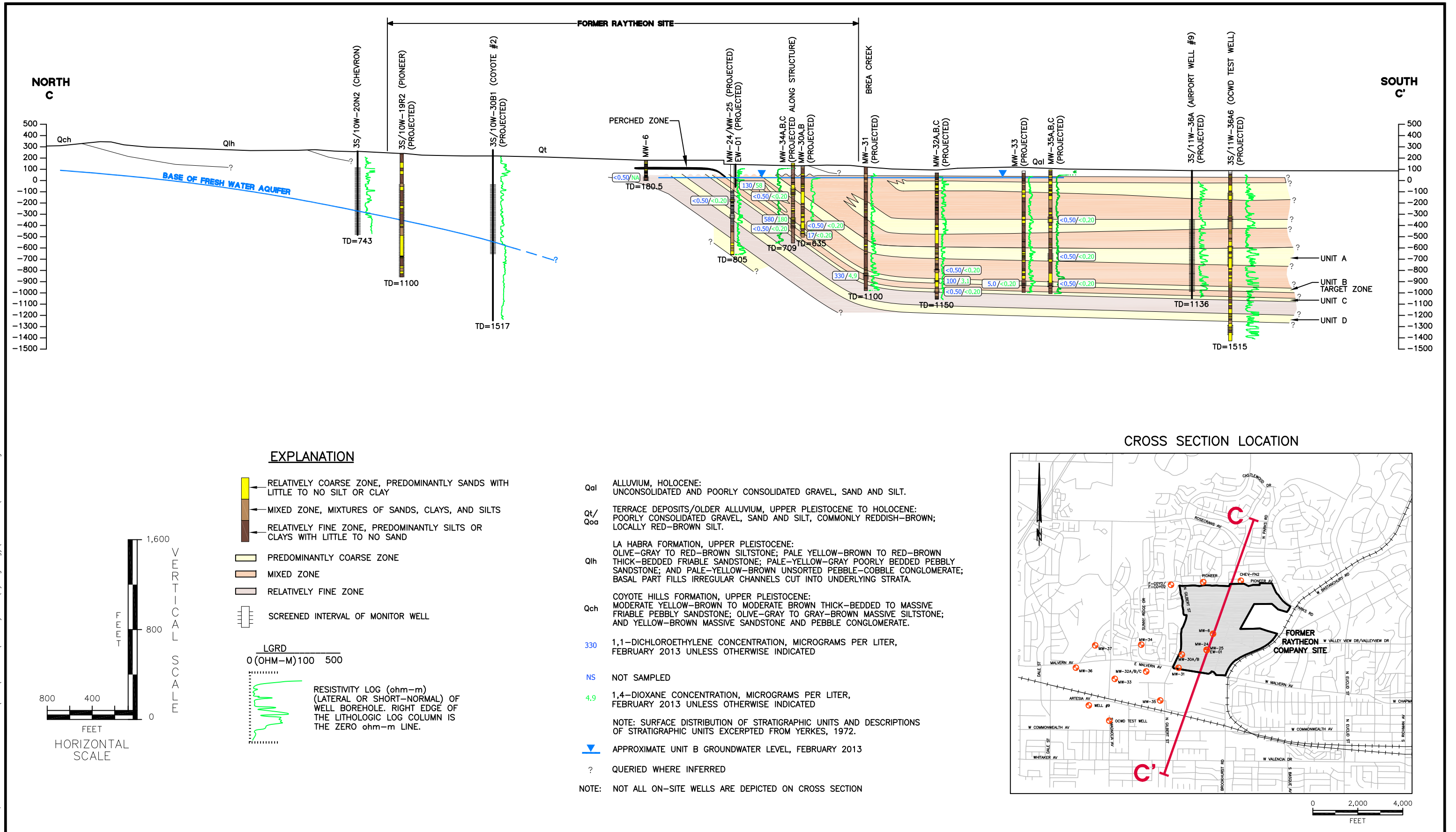
May 02, 2013 - 10:00am ade - T: \2013\500-599\532 Roytheon\Hydrogeology\WellDiag\710-0790.dwg



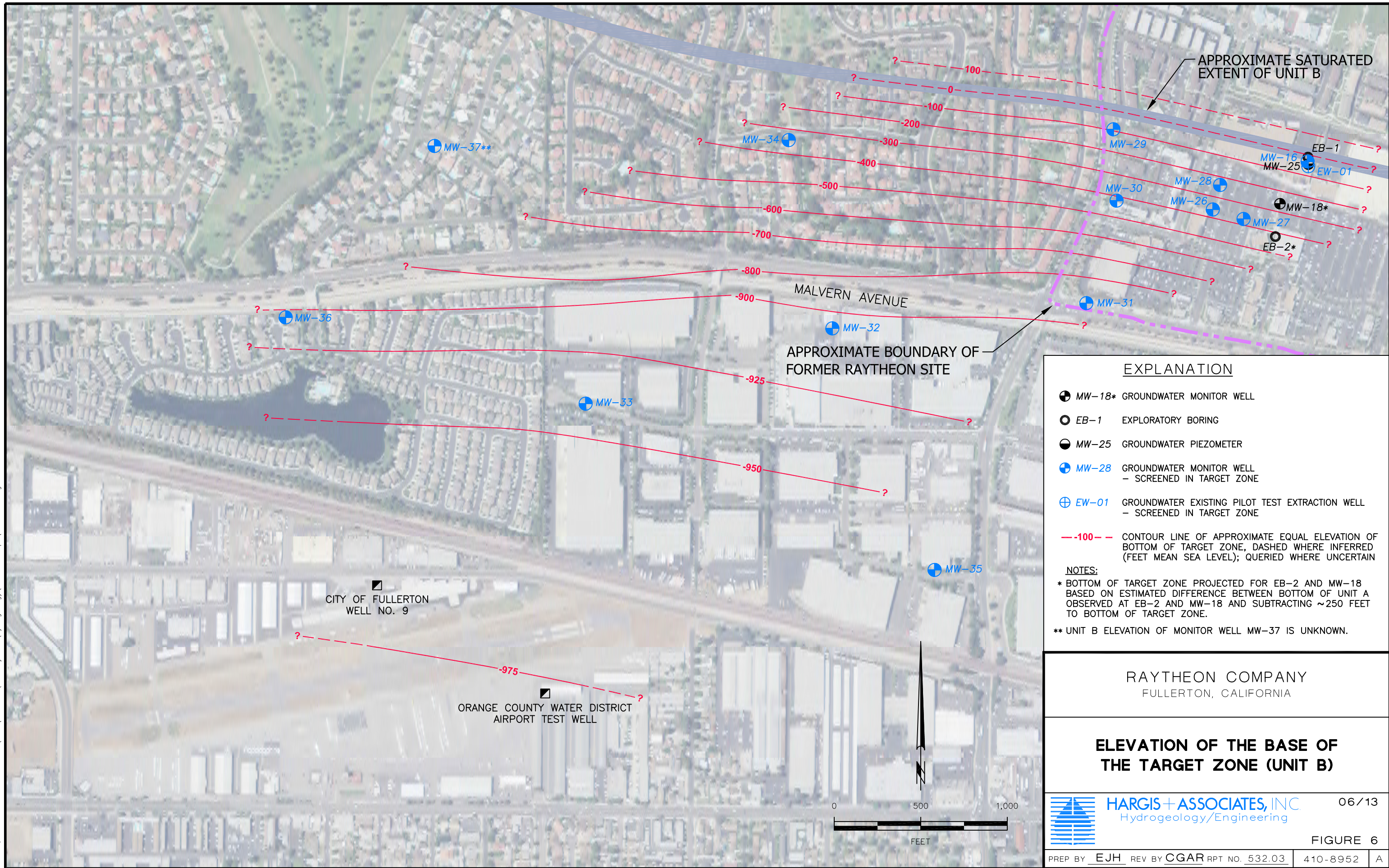
HARGIS+ASSOCIATES, INC.
Hydrogeology/Engineering

5/13 | RPT NO. 532.03 | 710-0790 | A

FIGURE 4.
SCHEMATIC CONSTRUCTION DIAGRAM
MONITOR WELL MW-37



Jun 12, 2013 - 8:44am ADE - T:\2013\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-8952.dwg





HARGIS + ASSOCIATES, INC.

APPENDIX A
WASTE MANIFESTS



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>HARGIS & ASS.</u>		JOB # <u>31700</u>		DATE: <u>11/23/11</u>	
JOBSITE: <u>ON SIDE OF CANAL</u>				CONTACT: <u>KENETH</u>	
ADDRESS: <u>MALVERN & BRIDGEPORT</u>				CUSTOMER P.O.:	
CITY: <u>FULLERTON</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>KW</u> TRAILER # _____			
Bin #:		Pickup / <u>Deliver</u> ✓		Return / <u>Destination</u> ✓	
<u>PT 3145</u>		<u>RELOCATE</u>		<u>MALVERN & BRIDGEPORT</u>	
<u>PT 1089</u>					
<u>R29180PL</u>					
				BIN LINERS:	
				<input checked="" type="checkbox"/> USED <input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
<u>0800</u>	<u>1100</u>	<u>HELPED GREG TEAM & INSTALL LINERS</u>			
		<u>DELIVER BIN</u>			
		<u>RELOCATE 2 BINS TO JOB SITE</u>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<u>0530</u>	<u>1:330</u>	<u>8</u>	<u>1/2</u>	<u>7 1/2</u>	

X RM

DRIVER

X

CUSTOMER SIGNATURE

White - Billing • Green - Time Sheet • Yellow - Office • Pink - Driver • Gold - Customer



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Hargis Associates</u>		JOB # <u>31100</u>	DATE: <u>12/6/11</u>
JOBSITE: <u>MAVERICK & DATE</u> <u>Fullerton, CA.</u>		CONTACT: <u>Gregg Waggle</u>	
ADDRESS:		CUSTOMER P.O.:	
CITY:			
EQUIPMENT:		Manifest# :	Disposal Location:
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>KW</u>	
		TRAILER # _____	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS:
<u>DT 3133</u>	<u>DEL</u>	<u>Fullerton CA</u>	<input checked="" type="checkbox"/> USED How many
			<input type="checkbox"/> NOT USED
			Tarps:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No
On Site		DESCRIPTION	
Start	Stop		
		<u>Delivered close to Bin with liner</u>	
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME
<u>1530</u>	<u>1900</u>	<u>3.5</u>	<u>.5</u>
		NET TIME	
		<u>3</u>	

X FRANCISCO Sanchez
DRIVER

X
CUSTOMER SIGNATURE



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Hargis + Associates</u>		JOB # <u>31100</u>		DATE: <u>12-9-11</u>	
JOBSITE: <u>Malven Ave + DAIR Adjacent TO Brea creek</u>				CONTACT: <u>Ken Simon</u>	
ADDRESS: <u>9171 Towne Centre Dr Suite 357</u>				619-917-4735	
CITY: <u>San Diego CA 92122</u>				CUSTOMER P.O.:	
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>513</u> TRAILER # _____ <u>0300452</u>		<u>LAKE Land processing</u>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS:	
				<input type="checkbox"/> USED ___ How many	
				<input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
08:00	10:00	provide VACUUM TRUCK service via 42 BBL			
		TAKE WASTE TO LAKE Land of Load WASH OUT			
		* H+A# 764-532.03			
REPORTING TIME		ENDING TIME		TOTAL TIME	
06:30		13:30		7	
				DEDUCTIBLE TIME	
				.5	
				NET TIME	
				6.5	

Benny Gargulo
X DRIVER

[Signature]
X CUSTOMER SIGNATURE

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

888-423-6060

4. Waste Tracking Number

0300452

5. Generator's Name and Mailing Address

Raytheon Company

1801 Hughes Drive Bld. 676 MSF216

Fullerton, CA 92633

Generator's Site Address (if different than mailing address)

2638 Franklin Hills Drive

Fullerton, CA

6. Transporter 1 Company Name

American Integrated Services, Inc.

U.S. EPA ID Number

CAR000146338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Lakeland Processing Company

12345 Lakeland Road

U.S. EPA ID Number

Facility's Phone:

Santa Fe Springs, CA 9070 (562) 944-8111

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1. Non-Hazardous Drilling Mud (Drilling Liquid)

1

TIT

650

91

2.

3.

4.

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatcher).

C-27568

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Paul Brewer

[Signature]

12/9/11

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Benny Angulo

[Signature]

12/09/11

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b: Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Nick Patterson

[Signature]

12/9/11



P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Hargis & Associates</u>		JOB # <u>31100</u>		DATE: <u>12-19-11</u>	
JOBSITE: <u>Malvern Ave + Dale St</u>				CONTACT:	
ADDRESS:				CUSTOMER P.O.:	
CITY:					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY		TRUCK # <u>KW</u>		WASTE Management-AZUSC	
<input checked="" type="checkbox"/> ROLL - OFF		TRAILER # _____			
<input type="checkbox"/> BOX VAN					
<input type="checkbox"/> VAC TRUCK					
<input type="checkbox"/> STAKE BED					
<input type="checkbox"/>					
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS:	
<u>PT 2759</u>	<u>↓</u>	<u>Job Site</u>		<input checked="" type="checkbox"/> USED How many	
				<input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes	
				<input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
<u>12:30</u>	<u>18:00</u>	<u>Deliver 1-16yd Bin# PT 2759 With Liner</u>			
		<u>And Foam Ready for use.</u>			
		<u>pick up 1 Loaded Bin# B-16003 TAKE TO yard</u>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<u>11:30</u>	<u>19:30</u>	<u>7</u>	<u>.5</u>	<u>6.5</u>	

X Benny Angulo
DRIVER

X Mark Stern
CUSTOMER SIGNATURE

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Hargis</u>		JOB # <u>31100</u>		DATE: <u>12-19-11</u>	
JOBSITE:				CONTACT:	
ADDRESS: <u>MALVERN & Bridgeport</u>				CUSTOMER P.O.:	
CITY: <u>Fulerton, CA 92833</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> <u>70 BBL</u>		TRUCK # <u>519</u> TRAILER # _____		<u>0300453</u> <u>LAKELAND PROCESSING</u> <u>12345 LAKELAND RD.</u> <u>SANTA FE SPRINGS CA</u>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS:		
			<input type="checkbox"/> USED How many		
			<input type="checkbox"/> NOT USED		
			Tarps:		
			<input type="checkbox"/> Yes <input type="checkbox"/> No		
On Site		DESCRIPTION			
Start	Stop				
<u>16:30</u>	<u>18:00</u>	<u>PUMP DRILLING MUD FROM 16 YARD BINS</u>			
		<u>AND TRANSPORT IT TO LAKELAND</u>			
		<u>PROCESSING FOR DISPOSAL</u>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<u>15:00</u>	<u>20:30</u>	<u>5.5</u>	<u>0</u>	<u>5.5</u>	

X [Signature]
DRIVER

X [Signature]
CUSTOMER SIGNATURE

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

888-423-6080

4. Waste Tracking Number

0300453

5. Generator's Name and Mailing Address

Raytheon Company
1801 Hughes Drive Bld. 678 MSF216
Ft. Belvoir, CA 92633

Generator's Site Address (if different than mailing address)

2635 Franklin Hills Drive Bridgeport, Malvern
Fullerton, CA

6. Transporter 1 Company Name

American Integrated Services, Inc.

U.S. EPA ID Number

CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Lakeland Processing Company
12345 Lakeland Road

U.S. EPA ID Number

Facility's Phone:

Santa Fe Springs, CA 90770 (562) 944-6111

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1.

Non-Hazardous Drilling Mud (Drilling Liquid)

001 TT

915 G

2.

3.

C-22569

4.

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are
approximate. 24 hour emergency number (888) 423-6080 (AHS
Dispatcher)14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged,
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year
12 19 11

INT'L

15. International Shipments

☐

Import to U.S.

☐

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year
12 19 11

Transporter 2 Printed/Typed Name

Signature

Month Day Year
12 19 11

TRANSPORTER

17. Discrepancy

17a. Discrepancy Indication Space

☐

Quantity

☐

Type

☐

Residue

☐

Partial Rejection

☐

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

DESIGNATED FACILITY

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year
12 19 11



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>HARGIS & ASSO.</u>		JOB # <u>31100</u>		DATE: <u>12/20/11</u>	
JOBSITE: <u>Malvern & Dale</u>				CONTACT:	
ADDRESS:				CUSTOMER P.O.:	
CITY: <u>Fullerton</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>589</u> TRAILER # <u>252T</u>		<u>0305135</u> <u>W.M. AZUSA.</u>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS:		
<u>PT 3346</u>	<u>P10</u>	<u>Destination</u>	<input type="checkbox"/> USED ___ How many		
<u>PT</u>	<u>P10</u>	<u>Destination</u>	<input type="checkbox"/> NOT USED		
<u>B16003</u>	<u>P10</u>	<u>Destination</u>	Tarps:		
			<input type="checkbox"/> Yes <input type="checkbox"/> No		
On Site		DESCRIPTION			
Start	Stop				
<u>09:15</u>	<u>10:00</u>	<u>OFF load Bin B16003 AT W.M. AZUSA.</u>			
<u>12:00</u>	<u>13:00</u>	<u>P10 16 16yd Bin FROM Drive site</u>			
<u>14:30</u>	<u>15:15</u>	<u>OFF load Bin AT W.M. AZUSA</u>			
REPORTING TIME		ENDING TIME		TOTAL TIME	
<u>06:30</u>		<u>18:00</u>		<u>11.5</u>	
				DEDUCTIBLE TIME	
				<u>1.5</u>	
				NET TIME	
				<u>11</u>	

X DAVID OLIVER
DRIVER

X [Signature]
CUSTOMER SIGNATURE



Drivers Signatures: _____

Azusa Land Reclamation

Origin

1211 W. Gladstone St.
Azusa, CA, 91702
Ph: 626-334-0719

Ticket# 124633

Customer Name AMERINTEGRATED AMERICAN INTEG Carrier AMERICAN INTEGRATED AMERICAN INTEGRA
Ticket Date 12/20/2011 Vehicle# 529 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000075
State Waste Code Gen EPA ID
Manifest 0305135 Vehicle License MP35303
Destination Generator 144-RAYTHEON FULLERTON RAYTHEON
PO 31100 Profile 607017CA (C3 Cover RGC-AMERICAN)

Type	Scale	Scale Attendant	Inbound	Gross	55180 lb
In 12/20/2011 09:16:31	Scale 1	Janett Jimenez		Tare	39720 lb
Out 12/20/2011 12:02:56	Scale 2	Janett Jimenez		Net	19460 lb
				Tons	9.73

Comments

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1	03 Cover RGC-Tons	100	9.73	Tons			Fullerton
2	FUEL-Fuel Surchang	100		X			
3	EVE-L Standard Env	100	1	Load			

Total Tax
Total Ticket

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

888-423-8080

4. Waste Tracking Number

0305135

5. Generator's Name and Mailing Address

Raytheon Company

1801 Hughes Drive Bld. 676 MSF216

Generator's Phone:

Fullerton, CA 92634

Generator's Site Address (if different than mailing address)

Malvern Avenue & Bridgeport Drive

Fullerton, CA 92632

6. Transporter 1 Company Name

U.S. EPA ID Number

American Integrated Services, Inc.

CAR000148388

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Waste Management-Azusa

1211 W. Gladstone

Facility's Phone:

Azusa, CA 91702 (922) 334-0710

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1.

Non-Hazardous Waste Solid (Drill Cuttings)

001 CM

16 yd

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-8080 (AIS)

Bin# B-16003

Profile #: 607017CA

Project #: 31100

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year
12 19 11

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year
12 19 11

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year
12 20 11

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



Drivers Signature: _____

Azusa Land Reclamation

Origin

1211 W. Gladstone St.
Azusa, CA, 91702
Ph: 626-334-0719

Ticket# 404571

Customer Name AMERINTEGRATED AMERICAN INTEG Carrier AMERICAN INTEGRATED AMERICAN INTEGRA
Ticket Date 12/20/2011 Vehicle# 529 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000175
State Waste Code Gen EPA ID
Manifest 0305138 Vehicle License: VP35303
Destination Generator 144-RAYTHEON FULLERTON RAYTHEON
PO 31100 Profile 607017CA C3 Cover RGC*AMERICAN

Time	Scale	Scale Attendant	Inbound	Gross	68680 lb
In 12/20/2011 14:35:33	Scale 1	Janett Jimenez		Tare	40940 lb
Out 12/20/2011 15:10:58	Scale 2	Janett Jimenez		Net	27840 lb
				Tons	13.92

Comment:

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 C3 Cover RGC-Tons	100	13.92	Tons				Fullerton
2 FUEL-Fuel Surcharg	100		%				Fullerton
3 EVF-L-Standard Env	100	1	Load				Fullerton

Total Tax
Total Ticket

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

888-423-6060

4. Waste Tracking Number

0305138

5. Generator's Name and Mailing Address

Raytheon Company

1801 Hughes Drive Bld. 676 MSF216

Generator's Phone:

Fullerton, CA 92634

Generator's Site Address (if different than mailing address)

Malvern Avenue & Bridgeport Drive

Fullerton, CA 92632

6. Transporter 1 Company Name

American Integrated Services, Inc.

U.S. EPA ID Number

CAR000148336

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Waste Management-Azusa

1211 W. Gladstone

Facility's Phone:

Azusa, CA 91702 (909) 884-0710

U.S. EPA ID Number

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1.

Non-Hazardous Waste Solid (Drill Cuttings)

1

CM 16

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS)

Bin PT 33416

Profile #: 607017CA

Project #: 31100

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

Paul Brown

12 20 11

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

David Brown

12 20 11

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

Paul Brown

12 20 11

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Hargis</u>		JOB # <u>31100</u>		DATE: <u>12-21-11</u>	
JOBSITE:				CONTACT:	
ADDRESS: <u>Matuon & Bridgeport</u>				CUSTOMER P.O.:	
CITY: <u>Fulterton, CA 92833</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input checked="" type="checkbox"/> <u>70 BBL</u>		TRUCK # <u>519</u> TRAILER # _____ <u>0306461</u>		<u>LAKELAND PROCESSING</u> <u>12345 LAKELAND RD</u> <u>SANTA FE SPRINGS, CA 90670</u>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS:		
			<input type="checkbox"/> USED How many		
			<input type="checkbox"/> NOT USED		
			Tarps:		
			<input type="checkbox"/> Yes <input type="checkbox"/> No		
On Site		DESCRIPTION			
Start	Stop				
<u>12:15</u>	<u>13:30</u>	<u>PUMP A DRILLING MUD LOAD AND -</u>			
		<u>TRANSPORT IT TO LAKELAND PROCESSING.</u>			
		<u>SANTA FE SPRINGS, CA FOR DISPOSAL</u>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<u>11:00</u>	<u>17:00</u>	<u>6</u>	<u>0.5</u>	<u>5.5</u>	

X [Signature]
DRIVER

X [Signature]
CUSTOMER SIGNATURE

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

866-423-6060

4. Waste Tracking Number

0300461

5. Generator's Name and Mailing Address

Raytheon Company
1301 Hughes Drive Bld. 676 MSF212

Generator's Site Address (if different than mailing address)

Bridge Port of Malibu Ave.
2838 Eureka Hills Drive
Burlington, CA Buena Park

Generator's Phone: CA 92663

6. Transporter 1 Company Name

American Integrated Services, Inc.

U.S. EPA ID Number

CAR000145398

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Lakeland Processing Company
12345 Lakeland Road

U.S. EPA ID Number

Facility's Phone:

Santa Fe Springs, CA 90770 (562) 944-9111

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total

Quantity

12. Unit

Wt./Vol.

1.

Non-Hazardous Drilling Mud (Drilling Liquid)

001

TT

1650

G

2.

3.

4.

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are
approximate. 24 hour emergency number (866) 423-6060 (A/E
Disaster)

C-22799

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

TAU BREWIK

12/21/11

INT'L

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Victor Sabado

12/21/11

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

BEN CORRAL

12/21/11

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>Hargis</i>		JOB #: <i>31100</i>		DATE: <i>12-22-11</i>	
JOBSITE:				CONTACT:	
ADDRESS: <i>MALVERN & Bridgeport</i>				CUSTOMER P.O.:	
CITY: <i>Fullerton, CA 92833</i>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input checked="" type="checkbox"/> <i>ROCKET LAUNCHER</i>		TRUCK # <i>527</i> TRAILER # <i>240T</i>		<i>0305137</i> <i>waste management</i> <i>1211 W GLADSTONE</i> <i>AZUSA CA</i>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS:	
<i>PT 3342</i>				<input type="checkbox"/> USED How many <input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
<i>09:00</i>	<i>10:00</i>	<i>PICK UP A FULL BIN FROM FULLERTON, CA</i>			
		<i>AND TRANSPORT IT TO AZUSA, CA LAND FILL</i>			
		<i>FOR DISPOSAL</i>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<i>08:00</i>	<i>14:30</i>	<i>6.5</i>	<i>0.5</i>	<i>6</i>	

X 

DRIVER

X 

CUSTOMER SIGNATURE



Azusa Land Reclamation

Origin

1211 W. Gladstone St.
Azusa, CA, 91702
Ph: 626-334-0719

Ticket# 404852

Customer Name AMERINTEGRATED AMERICAN INTEG Carrier AMERICAN INTEGRATED AMERICAN INTEGRA
Ticket Date 12/22/2011 Vehicle# 527 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000175
State Waste Code Gen EPA ID
Manifest 0305137 VehicleLicense: VP31634
Destination Generator 144-RAYTHEON FULLERTON RAYTHEON
PO 31100 Profile 607017CA (C3 Cover RBC*AMERICAN

	Time	Scale	Scale Attendant	Inbound	Gross	
In	12/22/2011 11:19:28	Scale 1	Janett Jimenez		Tare	64880 lb
Out	12/22/2011 11:56:27	Scale 2	CLAUDIA FELIX		Net	40700 lb
					Tons	24180 lb
						12.09

Comments

Product	LD%	Dty	UDM	Rate	Tax	Amount	Origin
1 C3 Cover RBC-Tons-	100	12.09	Tons				Fullerton
2 FUEL-Fuel Surcharg	100		X				Fullerton
3 EVF-L-Standard Env	100	1	Load				Fullerton

Total Tax
Total Ticket

403/YM Drivers Signature: 

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

NOT REQUIRED

2. Page 1 of

1

3. Emergency Response Phone

888-423-6060

4. Waste Tracking Number

0305137

5. Generator's Name and Mailing Address

Raytheon Company

1801 Hughes Drive SW, 675 MSF216

Generator's Phone:

Fullerton, CA 92634

Generator's Site Address (if different than mailing address)

Malvern Avenue & Bridgeport Drive

Fullerton, CA 92630

6. Transporter 1 Company Name

American International Services Inc.

U.S. EPA ID Number

U.S. EPA ID Number

7. Transporter 2 Company Name

8. Designated Facility Name and Site Address

Waste Management-Azusa

1211 W. Gladstone

Facility's Phone:

Azusa, CA 91701 (909) 951-0710

U.S. EPA ID Number

9. Waste Shipping Name and Description

1.

Non-Hazardous Waste Solid (Drill Cuttings)

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.

1 CM

16

Y

13. Special Handling Instructions and Additional Information

BIN # 3342

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS)

Profile #: 607017CA

Project #: 31100

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



TRANSPORTATION WORK ORDER

X
DRIVER

X 
CUSTOMER SIGNATURE

White - Billing • Green - Time Sheet • Yellow - Office • Pink - Driver • Gold - Customer



Drivers Signature: _____

[Signature]

Azusa Land Reclamation

Origin

1211 W. Gladstone St.
Azusa, CA, 91702
Ph: 626-334-0719

Ticket# 404917

Customer Name	AMERINTEGRATED AMERICAN INTEG	Carrier	AMERICAN INTEGRATED AMERICAN INTEGRA
Ticket Date	12/22/2011	Vehicle#	540 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000175
State Waste Code		Gen EPA ID	
Manifest	0305136	VehicleLicense:	VP72128
Destination		Generator	144-RAYTHEON FULLERTON RAYTHEON
PQ	31100	Profile	607017CA (C3 Cover RGC*AMERICAN

	Time	Scale	Scale Attendant	Inbound	Gross	
In	12/22/2011 15:10:15	Scale 1	Janett Jimenez		Tare	64820 lb
Out	12/22/2011 16:03:33	Scale 2	Janett Jimenez		Net	41180 lb
					Tons	23640 lb
						11.82

Comments

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 C3 Cover RGC-Tons-	100	11.82	Tons				Fullerton
2 FUEL-Fuel Surcharg	100		%				Fullerton
3 EVF-L-Standard Env	100	1	Load				Fullerton

Total Tax
Total Ticket



GENERATOR

INT'L

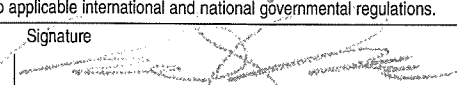
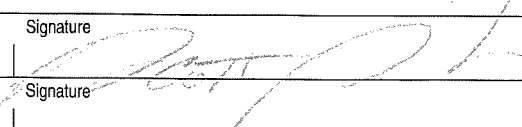
TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 888-423-6860	4. Waste Tracking Number 0305136
5. Generator's Name and Mailing Address Raytheon Company 1201 Hughes Drive Bld. 676 MSF216 Generator's Phone: Fullerton, CA 92634			Generator's Site Address (if different than mailing address) Matern Avenue & Bridgeport Drive Fullerton, CA 92630		
6. Transporter 1 Company Name American International Services, Inc.				U.S. EPA ID Number CAS00M145338	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address Waste Management-Acure 1211 W. Gladstone Facility's Phone: Anaheim, CA 91702 (951) 934-0740				U.S. EPA ID Number	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Hazardous Waste Solid (Drill Cuttings)		1	CM	14	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Bin # P73133 Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6860 (AIS) Profile #: 007017CA Project #: 31100					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name Raytheon			Signature 		Month Day Year 12 22 11
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Fred Flores			Signature 		Month Day Year 12 22 11
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature		Month Day Year

<div style="display: flex; flex-direction: column; align-items: center;"> <div>↑</div> <div>GENERATOR</div> <div>↓</div> </div>	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>NOT REQUIRED</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>800-400-6000</i>	4. Waste Tracking Number <i>0309094</i>		
	5. Generator's Name and Mailing Address <i>Daytron Company</i> <i>1001 Huguenot Drive NW, #100 NW 210</i>		Generator's Site Address (if different than mailing address) <i>5500 Westchester Way</i> <i>Pharr, TX 77460</i>				
	Generator's Phone: <i>214-400-1111</i>						
	6. Transporter 1 Company Name <i>American International Services, Inc.</i>				U.S. EPA ID Number <i>15-0000000000</i>		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address <i>Lakehead Processing Company</i> <i>10040 Lakehead Road</i>				U.S. EPA ID Number		
	Facility's Phone: <i>800-PO-BAKERS (722-7227) 844-8777</i>						
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1.						
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information <i>Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number: (800) 400-6000 (A15) (B000000000)</i>							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offor's Printed/Typed Name				Signature		Month Day Year	
<div style="display: flex; flex-direction: column; align-items: center;"> <div>↑</div> <div>INT'L</div> <div>↓</div> </div>	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date leaving U.S.: _____						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name				Signature		Month Day Year
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
<div style="display: flex; flex-direction: column; align-items: center;"> <div>↑</div> <div>TRANSPORTER</div> <div>↓</div> </div>	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: _____						
	17b. Alternate Facility (or Generator)				U.S. EPA ID Number		
<div style="display: flex; flex-direction: column; align-items: center;"> <div>↑</div> <div>DESIGNATED FACILITY</div> <div>↓</div> </div>	Facility's Phone: _____						
	17c. Signature of Alternate Facility (or Generator)				Month Day Year		
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name				Signature		Month Day Year	

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 888-423-6050	4. Waste Tracking Number 0309097	
	5. Generator's Name and Mailing Address Raytheon Company 1801 Hughes Drive Bld. 676 MSF216 Generator's Phone: CA 92633				Generator's Site Address (if different than mailing address) 5120 Meadowbrook Way Ft. Meade Park CA		
	6. Transporter 1 Company Name American Integrated Services, Inc.				U.S. EPA ID Number CA0000148338		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address Lakeland Processing Company 12345 Lakeland Road Facility's Phone: Santa Fe Springs, CA 90707 (562) 944-0111				U.S. EPA ID Number		
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non-Hazardous Drilling Mud (Drilling Liquid)		101	7/4	3200	6.	
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6050 (AIS) <i>(Signature)</i> 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
INT'L	Generator's/Offoror's Printed/Typed Name <i>John J. [Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 10/13/12		
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <i>Scott Sullivan</i>		Signature <i>[Signature]</i>		Month Day Year 10/13/12		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:						
17b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator) Month Day Year							
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name		Signature		Month Day Year			

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 888-423-8060	4. Waste Tracking Number 0309096	
	5. Generator's Name and Mailing Address Raytheon Company 1201 Hughes Drive Bld. 676 MSF216 Generator's Phone: CA 92683				Generator's Site Address (if different than mailing address) 8820 Meadowbrook Way Buena Park CA.		
	6. Transporter 1 Company Name American Integrated Services, Inc.				U.S. EPA ID Number CAR000148338		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address Lakeland Processing Company 12245 Lakeland Road Facility's Phone: Santa Fe Springs, CA 90701 (562) 944-8111				U.S. EPA ID Number		
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non-Hazardous Drilling Fluid (Drilling Liquid)		051	7/7	2400	G.	
	2.						
	3.						
4.							
TRANSPORTER	13. Special Handling Instructions and Additional Information Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-8060 (AIS /Hazardous) 11-3789						
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
	Generator's/Offor's Printed/Typed Name PAUL D. SANCHEZ				Signature 		Month Day Year 10 08 12
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name SCOTT SILVAS				Signature 		Month Day Year 10 16 12
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	DESIGNATED FACILITY	Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)						Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name				Signature		Month Day Year	

GENERATOR ↓ INT'L ↓ TRANSPORTER ↓ DESIGNATED FACILITY ↓	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 800-423-6060	4. Waste Tracking Number 0309095		
	5. Generator's Name and Mailing Address Raytheon Company 1801 Hughes Drive Bld. 670 MSF216				Generator's Site Address (if different than mailing address) 5520 Macmillanbrook Way Thermal Park CA			
	Generator's Phone: CA 9563							
	6. Transporter 1 Company Name American International Services, Inc.				U.S. EPA ID Number CARD00146391			
	7. Transporter 2 Company Name				U.S. EPA ID Number			
	8. Designated Facility Name and Site Address Lakeview Processing Company 12345 Lakeview Road				U.S. EPA ID Number			
	Facility's Phone: San Jose, CA 95131 (408) 944-8112							
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
			No.	Type				
	1. Non-Hazardous Drilling Fluid (Drilling Liquid)		001	1/4	2400	Gal.		
2.								
3.								
4.								
13. Special Handling Instructions and Additional Information Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatch). <div style="float: right; text-align: right;">C-25128 11-34-9</div>								
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
Generator's/Offor's Printed/Typed Name Paul J. ...				Signature <i>[Signature]</i>		Month Day Year 10/18/12		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
16. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Paul J. ...				Signature <i>[Signature]</i>		Month Day Year 10/18/12		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
17. Discrepancy								
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
17b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone: _____								
17c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
Printed/Typed Name				Signature		Month Day Year		

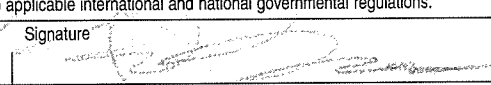
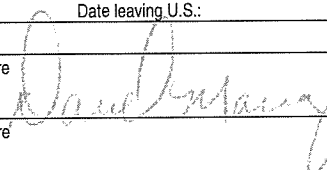
GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

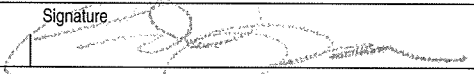
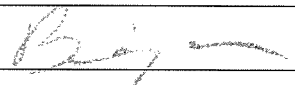
↓

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 888-423-8060	4. Waste Tracking Number 0309090	
5. Generator's Name and Mailing Address Raytheon Company 1601 Hughes Drive Bld. 676 MSF216			Generator's Site Address (if different than mailing address) 8820 Meadowbrook Way Duona Park CA			
Generators Phone: CA 9283			U.S. EPA ID Number CAR000148398			
6. Transporter 1 Company Name American Industrial Services, Inc.			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Lakeland Processing Company 12345 Lakeland Road			U.S. EPA ID Number			
Facility's Phone: Santa Fe Springs, CA 90701 (562) 944-8111						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non-Hazardous Drilling Mud (Drilling Liquid)		1	++	4000	G	
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information 7515-331 Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-8060 (AIS) (Generator) JOB # 32030-4						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Officer's Printed/Typed Name Paul J. Brown			Signature 		Month 10	Day 11 Year 12
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name David MARRUTO			Signature 		Month 10	Day 23 Year 12
Transporter 2 Printed/Typed Name			Signature		Month	Day Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name			Signature		Month	Day Year

GENERATOR	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>NOT ORIGINATED</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>214-402-0150</i>	4. Waste Tracking Number <i>0309001</i>		
	5. Generator's Name and Mailing Address <i>Raytheon Company</i> <i>2801 Hughes Drive Bld. 670 MSFC 16</i>		Generator's Site Address (if different than mailing address) <i>1520 Mainstreet Way</i> <i>Dallas TX 75244</i>				
	6. Transporter 1 Company Name <i>American International Services, Inc.</i>		U.S. EPA ID Number <i>PA9000142206</i>				
	7. Transporter 2 Company Name		U.S. EPA ID Number				
TRANSPORTER	8. Designated Facility Name and Site Address <i>Isolant Processing Company</i> <i>17046 Lohman Road</i>		U.S. EPA ID Number				
	Facility's Phone: <i>214-244-4111</i>						
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1.		<i>01</i>	<i>IT</i>	<i>870</i>		
	2.						
	3.						
	4.						
DESIGNATED FACILITY	13. Special Handling Instructions and Additional Information <i>Please protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (214) 422-6000 (403) 712-228</i>						
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
	Generator's/Offor's Printed/Typed Name <i>Paul J. ...</i>		Signature <i>[Signature]</i>			Month Day Year <i>10 11 12</i>	
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
DESIGNATED FACILITY	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>			Month Day Year <i>10 21 12</i>	
	Transporter 2 Printed/Typed Name		Signature			Month Day Year	
	17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
17b. Alternate Facility (or Generator)		U.S. EPA ID Number					
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)		Signature			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name		Signature			Month Day Year		

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>0001</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>800-424-9303</i>	4. Waste Tracking Number <i>0303002</i>		
	5. Generator's Name and Mailing Address <i>Playhouse Company</i> <i>4001 Hughes Lane #100, 070 07000</i>				Generator's Site Address (if different than mailing address) <i>2000 Woodlawn Way</i> <i>Green Park, CA</i>			
	Generator's Phone: <i>73 5400</i>							
	6. Transporter 1 Company Name <i>Aradine International Services, Inc.</i>				U.S. EPA ID Number <i>CA000045300</i>			
	7. Transporter 2 Company Name				U.S. EPA ID Number			
	8. Designated Facility Name and Site Address <i>Lakeland Processing Company</i> <i>12000 Lakeland Road</i>				U.S. EPA ID Number			
	Facility's Phone: <i>800 760 0000 400 900 0000</i>							
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
			No.	Type				
		1.	<i>Non-Hazardous Soluble Liquid</i>					
	2.							
	3.							
	4.							
TRANSPORTER	13. Special Handling Instructions and Additional Information <i>Use proper equipment while handling. Weighs or volume are approximate. 24 hour emergency number (P.D.) 829-0300 (P.S.) 800-424-9303</i>							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
DESIGNATED FACILITY	Generator's/Offor's Printed/Typed Name		Signature		Month Day Year			
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date leaving U.S.: _____							
	16. Transporter Acknowledgment of Receipt of Materials							
DESIGNATED FACILITY	Transporter 1 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	17. Discrepancy							
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone: _____							
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)				Month Day Year			
DESIGNATED FACILITY	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
	Printed/Typed Name		Signature		Month Day Year			

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>NOT RECORDED</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>800-471-0300</i>	4. Waste Tracking Number <i>0309088</i>		
	5. Generator's Name and Mailing Address <i>Flagbom Company</i> <i>1601 Highway Three East, Box 10000</i>				Generator's Site Address (if different than mailing address) <i>6500 Mountainview Way</i> <i>Brush Park, GA</i>			
	Generator's Phone: <i>706-266-1000</i>							
	6. Transporter 1 Company Name <i>Advanced International Services, Inc.</i>				U.S. EPA ID Number <i>GA0000000000</i>			
	7. Transporter 2 Company Name				U.S. EPA ID Number			
	8. Designated Facility Name and Site Address <i>Waste Management - Murray</i> <i>15610 Two Oak Way</i>				U.S. EPA ID Number			
	Facility's Phone: <i>706-441-7000</i>							
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
			No.	Type				
		1.						
	2.							
	3.							
	4.							
TRANSPORTER	13. Special Handling Instructions and Additional Information <i>Bin 16025</i> <i>Use proper equipment while handling. Weight or volume are approximate. 24 hour emergency number (PDS) 403-6450 (AHS)</i> <i>Disposal</i>							
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
DESIGNATED FACILITY	Generator's/Offeror's Printed/Typed Name <i>W. H. Brown</i>			Signature <i>[Signature]</i>		Month Day Year <i>10 5 12</i>		
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
DESIGNATED FACILITY	16. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name <i>Gregg Marshall</i>			Signature <i>[Signature]</i>		Month Day Year <i>10 05 12</i>		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name			Signature		Month Day Year		
	17. Discrepancy							
DESIGNATED FACILITY	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Manifest Reference Number:							
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)				Month Day Year			
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
DESIGNATED FACILITY	Printed/Typed Name			Signature		Month Day Year		

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 888-423-6080	4. Waste Tracking Number 0309087		
	5. Generator's Name and Mailing Address Raytheon Company 1801 Hughes Drive Bld. 678 MSF216 Generators Phone: CA 92693				Generator's Site Address (if different than mailing address) 8820 Meadowbrook Way Pleasanton, CA			
	6. Transporter 1 Company Name American Integrated Services, Inc.				U.S. EPA ID Number CAR000146338			
	7. Transporter 2 Company Name				U.S. EPA ID Number			
	8. Designated Facility Name and Site Address Waste Management - Murray 13620 Live Oak Way Facility's Phone: Irwindale, CA. 91708				U.S. EPA ID Number			
	9. Waste Shipping Name and Description		10. Containers		11. Total	12. Unit		
			No.	Type	Quantity	Wt./Vol.		
	1. Non-Hazardous Drilling Solids (Drill Cuttings)		1	CM	16	Y		
	2.							
	3.							
4.								
13. Special Handling Instructions and Additional Information Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6080 (AIS Dispatcher) Profile #:								
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
Generator's/Offor's Printed/Typed Name TAL BROWN				Signature 		Month Day Year 10 03 12		
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
	Transporter Signature (for exports only):							
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name B/M Mariscal		Signature 		Month Day Year 10 5 12			
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month Day Year			
	17. Discrepancy							
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number			
	Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)				Month Day Year				
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
Printed/Typed Name				Signature		Month Day Year		

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>0000000000</i>		2. Page 1 of <i>1</i>		3. Emergency Response Phone <i>800-424-0000</i>		4. Waste Tracking Number <i>0000000000</i>		
		5. Generator's Name and Mailing Address <i>Regiment Company</i> <i>1000 Highway 1000, WFO 100000</i> Generator's Site Address (if different than mailing address) <i>1000 Highway 1000, WFO 100000</i> Generator's Phone: <i>800-424-0000</i>								
GENERATOR		6. Transporter 1 Company Name <i>Environmental Services, Inc.</i>						U.S. EPA ID Number <i>0000000000</i>		
		7. Transporter 2 Company Name						U.S. EPA ID Number		
DESIGNATED FACILITY		8. Designated Facility Name and Site Address <i>Lakeland Chemical Company</i> <i>10000 Lakeland Road</i>						U.S. EPA ID Number		
		Facility's Phone: <i>800-424-0000</i>								
TRANSPORTER		9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
				No.	Type					
		1.	<i>100 Gallons of Oil (Kerosene)</i>		<i>1</i>	<i>100</i>	<i>1</i>			
		2.								
		3.								
		4.								
INT'L		13. Special Handling Instructions and Additional Information <i>Wear protective equipment while handling. Weights or volume are approximate. 24 hour emergency response (800) 424-0000</i>								
		14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
TRANSPORTER		Generator's/Officer's Printed/Typed Name <i>John Doe</i>				Signature <i>[Signature]</i>		Month Day Year <i>10 10 00</i>		
		15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:				
TRANSPORTER		16. Transporter Acknowledgment of Receipt of Materials								
		Transporter 1 Printed/Typed Name <i>John Doe</i>				Signature <i>[Signature]</i>		Month Day Year <i>10 10 00</i>		
DESIGNATED FACILITY		Transporter 2 Printed/Typed Name				Signature		Month Day Year		
		17. Discrepancy								
DESIGNATED FACILITY		17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
		Manifest Reference Number:								
DESIGNATED FACILITY		17b. Alternate Facility (or Generator)						U.S. EPA ID Number		
		Facility's Phone:								
DESIGNATED FACILITY		17c. Signature of Alternate Facility (or Generator)						Month Day Year		
DESIGNATED FACILITY		18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
		Printed/Typed Name				Signature		Month Day Year		

<div style="writing-mode: vertical-rl; transform: rotate(180deg);">GENERATOR</div>	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number <i>169-11977</i>	2. Page 1 of <i>1</i>	3. Emergency Response Phone <i>800-424-6340</i>	4. Waste Tracking Number <i>0309050</i>				
	5. Generator's Name and Mailing Address <i>Hydrex Company</i> <i>1407 Hughes Drive Bldg 570 West 10</i>		Generator's Site Address (if different than mailing address) <i>555 Woodbrook Way</i> <i>Beacon Park, CA</i>						
	Generator's Phone: <i>916-972-3333</i>								
	6. Transporter 1 Company Name <i>American International Services, Inc.</i>				U.S. EPA ID Number <i>CA050544000</i>				
	7. Transporter 2 Company Name				U.S. EPA ID Number				
<div style="writing-mode: vertical-rl; transform: rotate(180deg);">TRANSPORTER</div>	8. Designated Facility Name and Site Address <i>Waste Management - Sunny</i> <i>15020 Leno Oak Way</i>		U.S. EPA ID Number						
	Facility's Phone: <i>714-941-6700</i>								
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
			No.	Type					
	1. <i>Non-Hazardous Drilling Solids (DMS Cuttings)</i>			<i>001</i>					
	2.								
	3.								
	4.								
	13. Special Handling Instructions and Additional Information <i>Wear protective equipment while handling. Weights or volumes are approximate. 24 hrs emergency number (800) 424-6000 (415) 424-6000</i> <i>Don't touch</i>								
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
Generator's/Offoror's Printed/Typed Name <i>John J. ...</i>				Signature <i>[Signature]</i>		Month <i>12</i>	Day <i>12</i>	Year <i>12</i>	
<div style="writing-mode: vertical-rl; transform: rotate(180deg);">DESIGNATED FACILITY</div>	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	16. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name <i>...</i>				Signature <i>[Signature]</i>		Month <i>12</i>	Day <i>12</i>	Year <i>12</i>
	Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
	17. Discrepancy								
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: _____									
17b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone: _____									
17c. Signature of Alternate Facility (or Generator)									
Month _____ Day _____ Year _____									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name				Signature		Month	Day	Year	

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 828-423-6080	4. Waste Tracking Number 0309081
5. Generator's Name and Mailing Address Raytheon Company 1001 Hughes Drive Bld. 070 MSF216 Generator's Phone: CA 9083		Generator's Site Address (if different than mailing address) 8820 Meadowbrook Way Plano Park, CA		
6. Transporter 1 Company Name American Integrated Services, Inc.		U.S. EPA ID Number CA000140330		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Waste Management - Hurray 13620 Live Oak Way Facility's Phone: Irwindale, CA 91706		U.S. EPA ID Number		
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity
		No.	Type	12. Unit Wt./Vol.
	1. Non-Hazardous Drilling Solids (Drill Cuttings)	21	CH	36 18
	2.			
	3.			
	4.			
13. Special Handling Instructions and Additional Information <div style="text-align: center; font-size: 1.2em;">Bin # B-16085 PT 2975</div> Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6080 (AIS) (Manufacturer) <div style="text-align: right;">Profile #:</div>				
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Generator's/Offeror's Printed/Typed Name: Raytheon Company Signature: _____ Month: 10 Day: 27 Year: 12				
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____			
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Ramon Hernandez Signature: _____ Month: 10 Day: 26 Year: 12			
	Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____			
TRANSPORTER	17. Discrepancy			
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection			
	17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____			
	17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____			
DESIGNATED FACILITY	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____			

10105



P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>11/10/17</i>		JOB #: <i>10080-4</i>		DATE: <i>10-1-17</i>	
JOBSITE:				CONTACT:	
ADDRESS: <i>3320 11/10/17</i>				CUSTOMER P.O.:	
CITY: <i>Bayview Blvd</i>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # _____ TRAILER # _____			
Bin #:		Pickup / Deliver ✓		Return / Destination ✓	
<i>11057</i>					
<i>16005</i>					
On Site		DESCRIPTION			
Start	Stop				
		<i>DEL 2- Bin 10 Job Site</i>			
		<i>W/Incr 1st Foam</i>			
REPORTING TIME		ENDING TIME		TOTAL TIME	
<i>0500</i>					
				DEDUCTIBLE TIME	
				NET TIME	

X

DRIVER

X

CUSTOMER SIGNATURE


American Integrated Services, Inc.

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

X 6-10-89

DRIVER _____


CUSTOMER SIGNATURE

White - Billing • Green - Payroll • Yellow - Office • Pink - Driver • Gold - Customer



American Integrated Services, Inc.

10109

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Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>112915 & 1050</i>		JOB # <i>21120-4</i>	DATE: <i>10/3/12</i>		
JOBSITE: <i>8000 Harbor Park Way</i>			CONTACT:		
ADDRESS:			CUSTOMER P.O.:		
CITY: <i>Porter Ranch</i>					
EQUIPMENT: <input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> VAC TRUCK <input type="checkbox"/>		TRUCK # <i>524</i> TRAILER # <i>236</i>	Manifest# :	Disposal Location:	
Bin #:		Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS: <input type="checkbox"/> USED How many <input type="checkbox"/> NOT USED	
<i>RT 2975</i>		<i>RT 2975</i>		Tarps: <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>11605</i>					
On Site Start Stop		DESCRIPTION			
		<i>DELIV. FULL BIN 16405</i>			
<i>9:15</i>		<i>1030 Unltd Full 10' WHEELER:</i>			
		<i>TRANSPORTE (10) FULL BIN</i>			
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME
<i>0700</i>					

X

DRIVER

X

CUSTOMER SIGNATURE

White - Billing • Green - Payroll • Yellow - Office • Pink - Driver • Gold - Customer

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Horne & Associates</u>		JOB # <u>224-0</u>		DATE: <u>10-3-10</u>	
JOBSITE:				CONTACT: CUSTOMER P.O.: <u>54203 Mv 37</u>	
ADDRESS: <u>2520 Medina Park Ln</u>					
CITY: <u>San Jose CA</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>420</u> TRAILER # _____ 			
Bin #:		Pickup / Deliver <input checked="" type="checkbox"/>		Return / Destination <input checked="" type="checkbox"/>	
<u>6166</u>		<u>✓</u>			
On Site		DESCRIPTION			
Start	Stop				
<u>10:4</u>		<u>5/6 1110 Bin brought to disposal</u>			
REPORTING TIME		ENDING TIME		TOTAL TIME	
<u>10:50</u>					

X John Doe
DRIVER


CUSTOMER SIGNATURE



7199

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>Amgen Corp.</u>		JOB # <u>920204</u>		DATE: <u>10/9/12</u>	
JOBSITE:				CONTACT:	
ADDRESS: <u>7121 11th Ave. Suite 100</u>				CUSTOMER P.O.:	
CITY: <u>Long Beach CA 90801</u>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # <u>624</u> TRAILER # <u>796T</u>		<u>91079</u> <u>NU-404</u>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS:	
<u>PT 3904</u>	<u>Deliver</u>			<input checked="" type="checkbox"/> USED <u>1</u> How many	
<u>PT 1006</u>	<u>ADUIC</u>			<input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
<u>8:00</u>	<u>12:00</u>	<u>DIV. 1/2 yd. Am. Tilt. Dump. unit</u>			
		<u>1.1401 on job from 3 miles</u>			
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<u>1.50</u>					

X

DRIVER

X

CUSTOMER SIGNATURE



24 Hour Emergency Hotline 888-423-6060

White - Billing • Green - Payroll • Yellow - Office • Pink - Driver • Gold - Customer

10620



P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>Hargis & Associates</i>		JOB # <i>92030-1</i>		DATE: <i>11-11-11</i>		
JOBSITE:				CONTACT:		
ADDRESS: <i>5126 Apple Creek Blvd</i>				CUSTOMER P.O.:		
CITY: <i>Long Beach</i>						
EQUIPMENT: <input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____			TRUCK # _____ TRAILER # _____		Manifest# : _____ _____ _____	Disposal Location: _____ _____ _____
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS: <input type="checkbox"/> USED ____ How many <input checked="" type="checkbox"/> NOT USED			
<i>10-10-11</i>	✓					
<i>11-11-11</i>	✓					
			Tarps: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
On Site Start Stop		DESCRIPTION				
<i>11-11-11</i>	<i>11-11-11</i>	<i>Load 11-11-11 to 11-11-11 91 11-11-11</i>				
<i>11-11-11</i>	<i>11-11-11</i>	<i>11-11-11 11-11-11 11-11-11 11-11-11</i>				
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	
<i>11-11-11</i>						

X

DRIVER

X

CUSTOMER SIGNATURE

White - Billing • Green - Payroll • Yellow - Office • Pink - Driver • Gold - Customer



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: HARRIS ASSOC.		JOB # 39030-1	DATE: 11-12-12	
JOBSITE:			CONTACT:	
ADDRESS: 320 ALABAMA ST NW BIRMINGHAM AL 35201			CUSTOMER P.O.:	
CITY:				
EQUIPMENT: <input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/>		TRUCK # TRAILER #		Manifest# : DISPOSAL LOCATION:
Bin #:		Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS: <input type="checkbox"/> USED How many <input type="checkbox"/> NOT USED
On Site Start Stop		DESCRIPTION		
12:00 1:30		PUMP DOWNING, REMOVAL OF MILLER LIFT IT UP AND TRANSPORT TO THE T. CRANE FOR THE 3RD TIME (REMOVED)		
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME
1:00				1:00

DRIVER

CUSTOMER SIGNATURE

White - Billing • Green - Time Sheet • Yellow - Office • Pink - Driver • Gold - Customer



5689

P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: 149415 / Assoc.		JOB # 321504		DATE: 10-16-12	
JOB SITE:				CONTACT:	
ADDRESS: 8876 MEADOWLARK WAY				CUSTOMER P.O.:	
CITY: DUBLIN PARK CA 94568					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # 325 TRAILER # 215		0701046 LAKELAND	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS: <input type="checkbox"/> USED ___ How many <input type="checkbox"/> NOT USED	
On Site		DESCRIPTION			
Start	Stop				
1230		PUMP OUT WITH NO - 100% OF PUMP			
		TANK FILLING AND TRANSFER TO			
		TO LAKELAND AND LAKELAND			
		DISPOSAL			
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME
11/2					

X
DRIVER

X
CUSTOMER SIGNATURE



P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME:		JOB #	DATE:	
JOBSITE:			CONTACT:	
ADDRESS:			CUSTOMER P.O.:	
CITY:			532.03 Mn: 37	
EQUIPMENT: <input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/>		TRUCK # TRAILER #	Manifest# :	Disposal Location:
Bin #:		Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS: <input type="checkbox"/> USED How many <input type="checkbox"/> NOT USED
On Site Start Stop		DESCRIPTION		
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME

X

DRIVER

X

CUSTOMER SIGNATURE



10155

P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>10111111111111111111</i>		JOB # <i>10111111111111111111</i>		DATE: <i>10-11-17</i>	
JOB SITE:				CONTACT:	
ADDRESS: <i>10111111111111111111</i>				CUSTOMER P.O.:	
CITY: <i>10111111111111111111</i>					
EQUIPMENT:		Manifest# :		Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> BOX VAN <input type="checkbox"/> STAKE BED		TRUCK # <i>10111111111111111111</i> TRAILER # <i>10111111111111111111</i>		<i>10111111111111111111</i> <i>10111111111111111111</i> <i>10111111111111111111</i> <i>10111111111111111111</i>	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS:	
				<input type="checkbox"/> USED ___ How many	
				<input type="checkbox"/> NOT USED	
				Tarps:	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site		DESCRIPTION			
Start	Stop				
<i>11:30</i>	<i>12:30</i>	<i>10111111111111111111</i>			
		<i>10111111111111111111</i>			
		<i>10111111111111111111</i>			
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME
<i>11:30</i>				<i>1:00</i>	

X

DRIVER

X

CUSTOMER SIGNATURE

White - Billing • Green - Payroll • Yellow - Office • Pink - Driver • Gold - Customer

10583



P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: HARGIS ASSOCIATES		JOB # 32030-4	DATE: 10-23-12	
JOBSITE: RAYTHEON COMPANY			CONTACT: KENNETH SIMON	
ADDRESS: 8820 MEADOWBROOK WAY			CUSTOMER P.O.: ST. LOUIS, MISSOURI	
CITY: BUREAU PARK				
EQUIPMENT:		Manifest# :	Disposal Location:	
<input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____		TRUCK # 515 TRAILER # 221 0309090	LAKE LAND PRODUCE	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS: <input type="checkbox"/> USED ___ How many <input type="checkbox"/> NOT USED
				Tarps: <input type="checkbox"/> Yes <input type="checkbox"/> No
On Site		DESCRIPTION		
Start	Stop			
1430	1630	Provide 120 GALLON VACUUM, DRAIN & PUMP OUT AIS AND ADLER BINS WITH Muddy water ON SITE. TRANSPORT WATER TO LAKE LAND PRODUCE		
REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME
1400				

X

DRIVER

X

CUSTOMER SIGNATURE

10433



P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <i>Hegins + Associates</i>		JOB # <i>32030-4</i>		DATE: <i>10-24-12</i>	
JOBSITE: <i>8870 Meadowbrook way Brea park, CA 90621</i>				CONTACT: <i>Kenneth Simon</i>	
ADDRESS: <i>9171 Towne Centre Dr. Suite 375</i>				<i>619-917-4735</i>	
CITY:				CUSTOMER P.O.: <i>612 - 5th Ave SW</i>	
EQUIPMENT:			Manifest# :		Disposal Location:
<input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED <input type="checkbox"/> _____			TRUCK # <i>538</i> TRAILER # _____		<i>0309 091</i> <i>Landfill processing</i>
Bin #:	Pickup / Deliver ✓	Return / Destination ✓	BIN LINERS:		
<i>A5538</i>	<i>Auto yard</i>	<i>San site</i>	<input type="checkbox"/> USED _____ How many		
			<input type="checkbox"/> NOT USED		
			Tarps: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
On Site		DESCRIPTION			
Start	Stop				
<i>08:00</i>	<i>08:30</i>	<i>pick up 1# FRAC TANK # ADLEC-A5538</i>			
<i>08:30</i>	<i>09:00</i>	<i>Depart TO San site</i>			
<i>10:00</i>	<i>11:30</i>	<i>Depart TO yard pick up 120 BBL</i>			
<i>12:30</i>	<i>14:00</i>	<i>Arrived Set GO pump out 2# Land Bin + Frac Tank</i>			
<i>14:00</i>		<i>Depart TO WASTE SITE b/c Load Wash out</i>			
<i>Note: Customer Provided #4 2" Hose</i>					
REPORTING TIME		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME
<i>07:30</i>				<i>.5</i>	

 X *Benny Longanti*
 DRIVER

 X *[Signature]*
 CUSTOMER SIGNATURE



12481

P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: <u>United</u>		JOB # <u>37030-4</u>		DATE: <u>10/26/12</u>	
JOBSITE:				CONTACT:	
ADDRESS: <u>8720 Northwood Road</u>				<u>Kenetha Smith</u>	
CITY: <u>Long Beach, CA</u>				CUSTOMER P.O.: <u>1001 E. 1st St.</u>	
EQUIPMENT: <input type="checkbox"/> LOWBOY <input type="checkbox"/> ROLL - OFF <input checked="" type="checkbox"/> VAC TRUCK <input type="checkbox"/> BOX VAN <input type="checkbox"/> STAKE BED		Manifest# :		Disposal Location:	
TRUCK # <u>522</u>					
TRAILER # <u>722</u>					
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS: <input type="checkbox"/> USED <u> </u> How many <input type="checkbox"/> NOT USED	
				Tarps: <input type="checkbox"/> Yes <input type="checkbox"/> No	
On Site Start Stop		DESCRIPTION			
		<u>1/2 ton 1000 lbs. waste in metal</u>			
REPORTING TIME <u>09:50</u>		ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME

X

DRIVER

X

CUSTOMER SIGNATURE



10856

P.O. BOX 92316 LONG BEACH, CA. 90809

Office 310-522-1168 Fax 310-522-1182

24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: Hargis Associates		JOB # 32030-4		DATE: 10-26-12	
JOBSITE:				CONTACT:	
ADDRESS: 8820 Marlowbrook Way				CUSTOMER P.O.:	
CITY: Buena Park CA 90621					
EQUIPMENT: <input type="checkbox"/> LOWBOY <input checked="" type="checkbox"/> ROLL - OFF <input type="checkbox"/> BOX VAN <input type="checkbox"/> VAC TRUCK <input type="checkbox"/> STAKE BED		TRUCK # 538 TRAILER #		Manifest #: 03591081 Disposal Location: Nuway	
Bin #:	Pickup / Deliver ✓	Return / Destination ✓		BIN LINERS: <input type="checkbox"/> USED How many <input checked="" type="checkbox"/> NOT USED	
B-16085	Buena Park	Wilmington		Tarps: <input type="checkbox"/> Yes <input type="checkbox"/> No	
PT 2975	11	11			
On Site Start Stop		DESCRIPTION			
		Pick up Bin # B 16085, Dump Mat. Nuway			
		Return to yard Wilmington			
REPORTING TIME 0900	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	

X

DRIVER

X

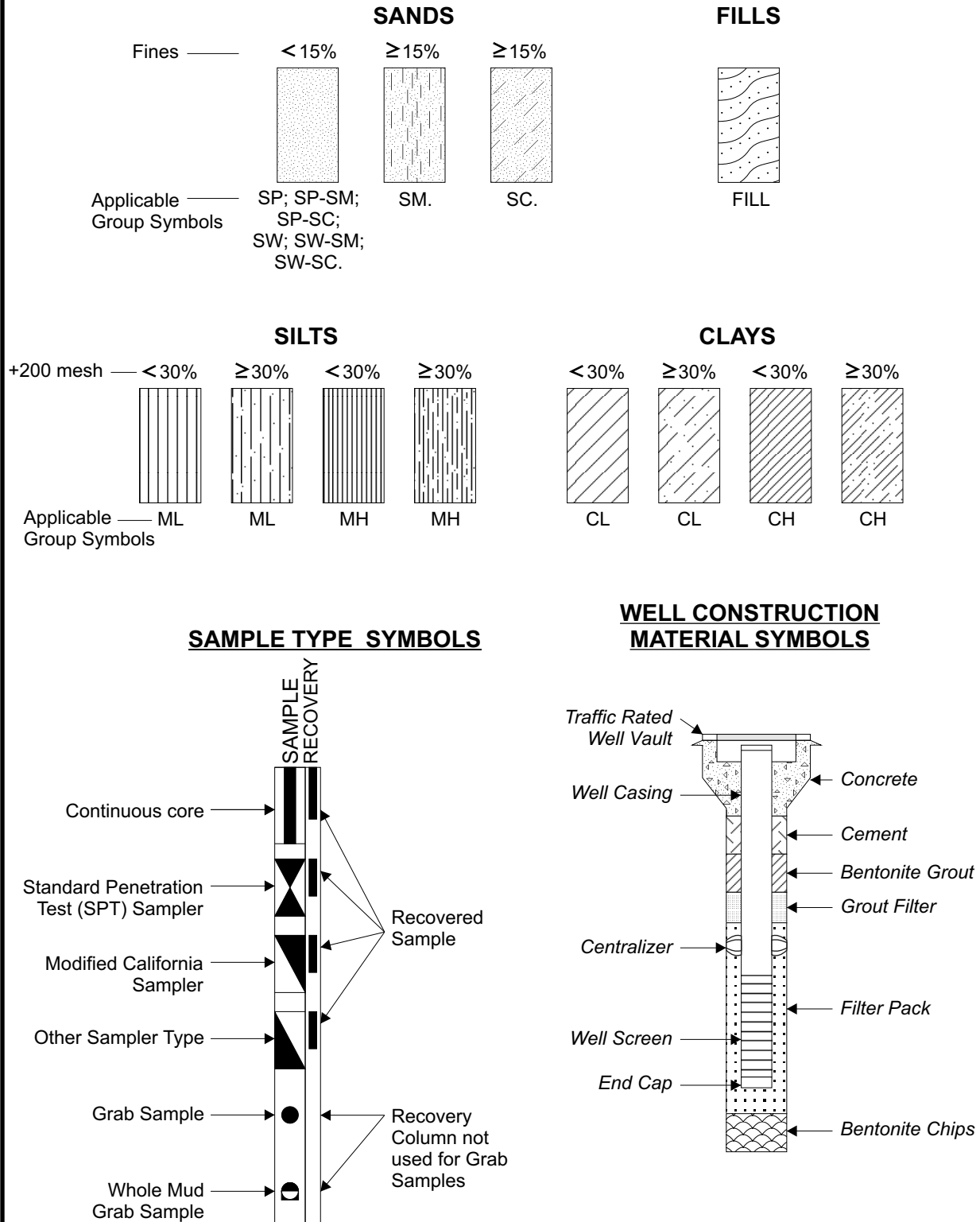
CUSTOMER SIGNATURE



HARGIS + ASSOCIATES, INC.

APPENDIX B
LITHOLOGIC LOGS

GRAPHIC LOG MATERIAL SYMBOLS



HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

01/09

RPT NO.532.40

Figure 1 Lithologic Log Symbols 532.40 2009_01.CDR

FIGURE B-1: CONSTRUCTION AND LITHOLOGIC LOG SYMBOLS

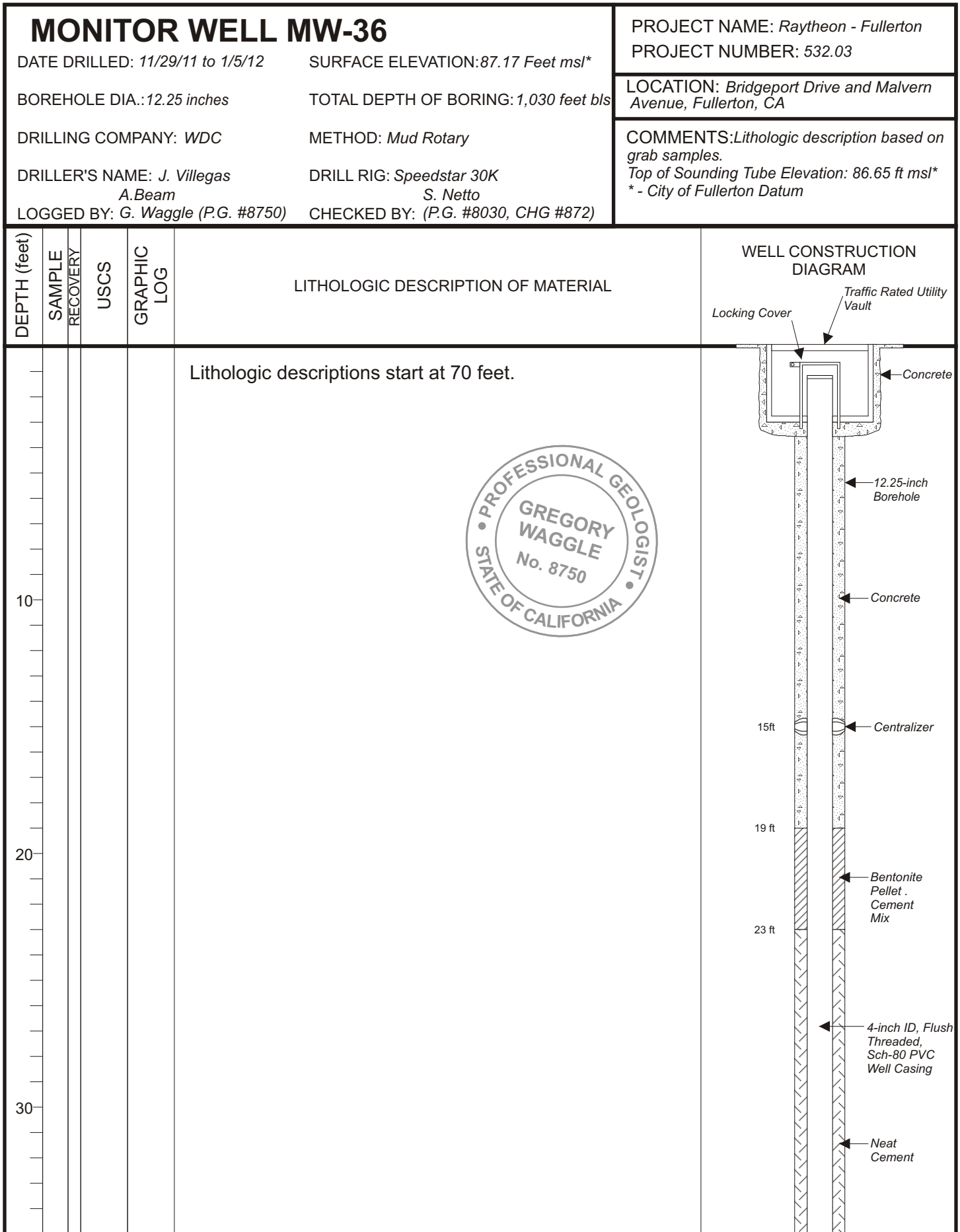


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

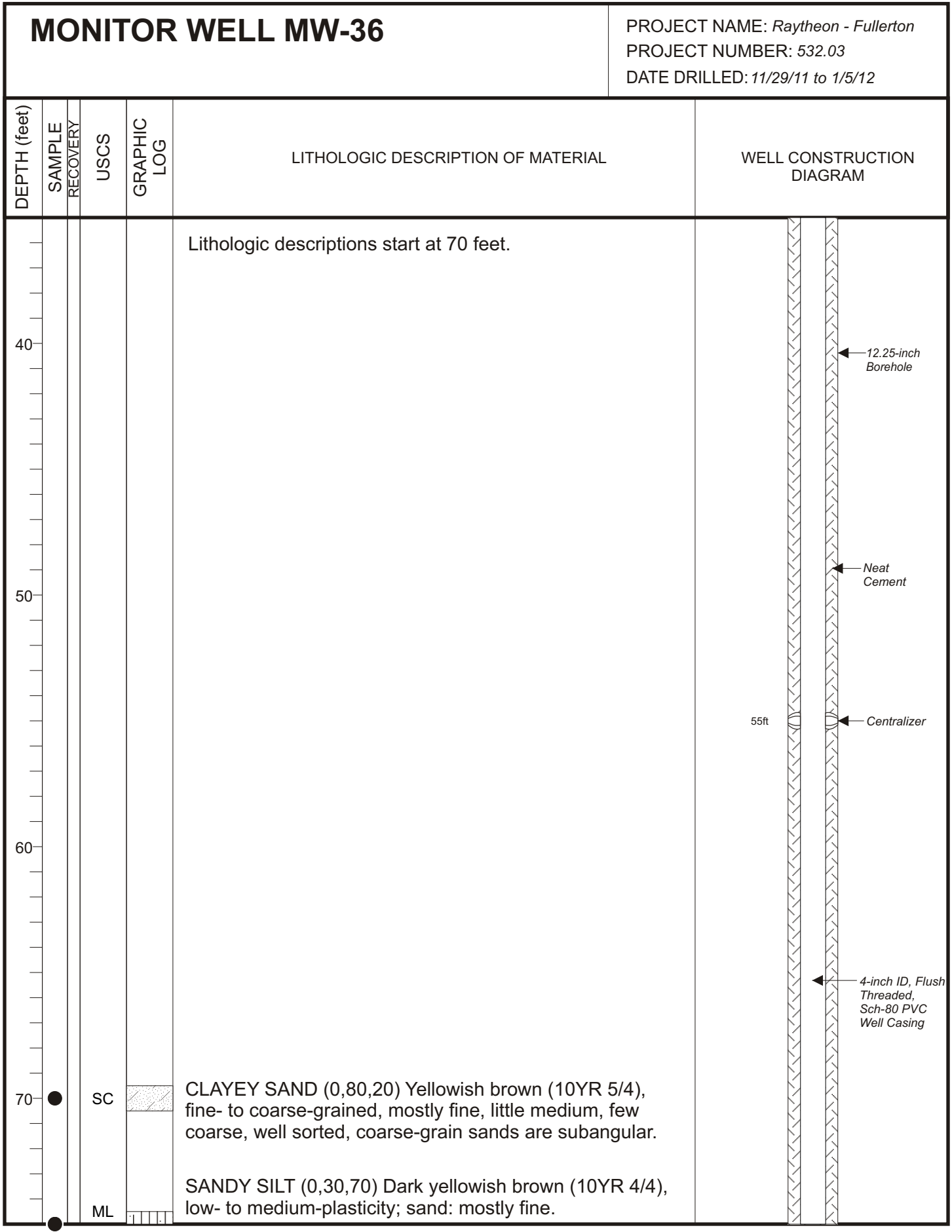


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

PROJECT NAME: *Raytheon - Fullerton*

PROJECT NUMBER: 532.03

DATE DRILLED: 11/29/11 to 1/5/12

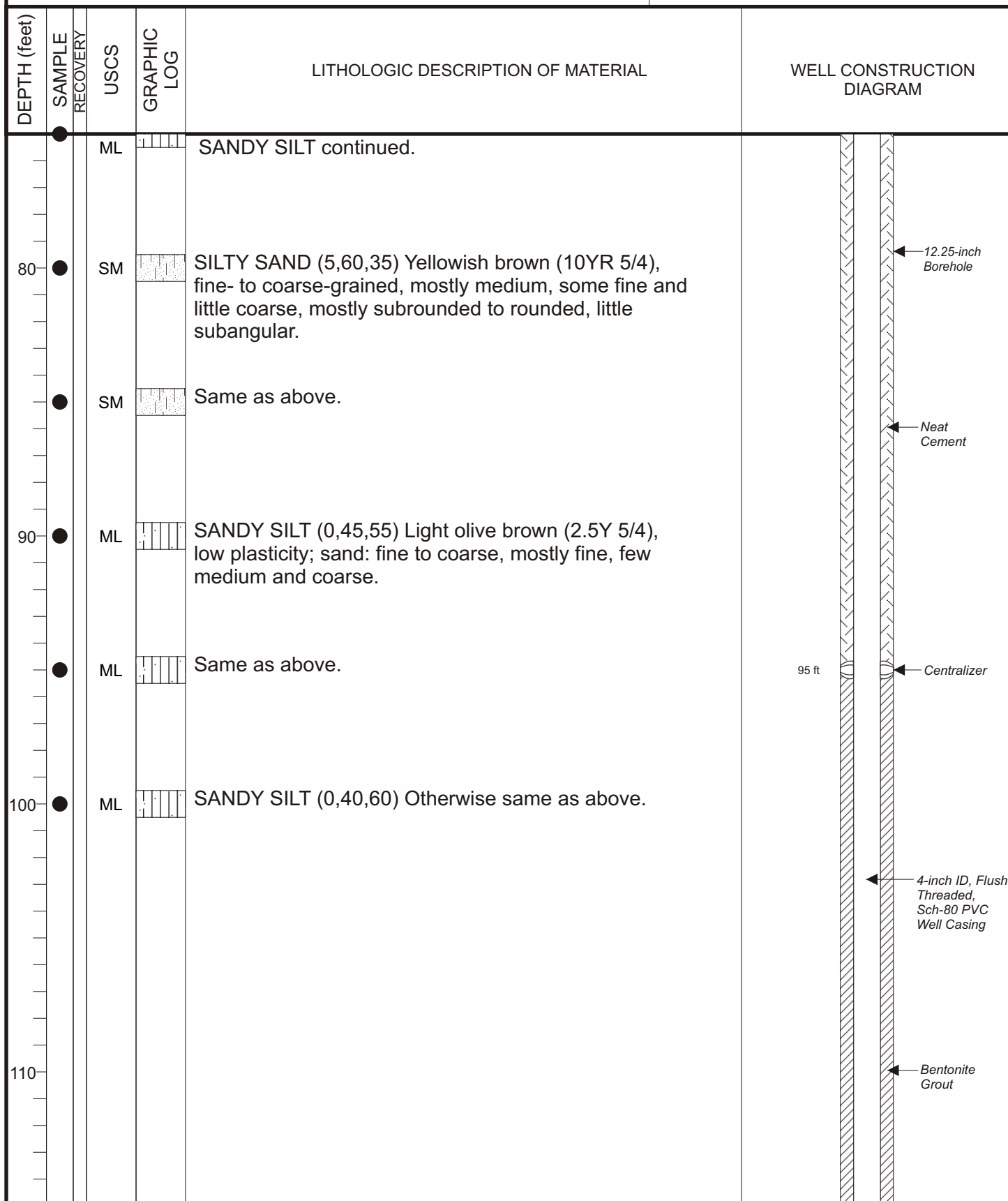


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

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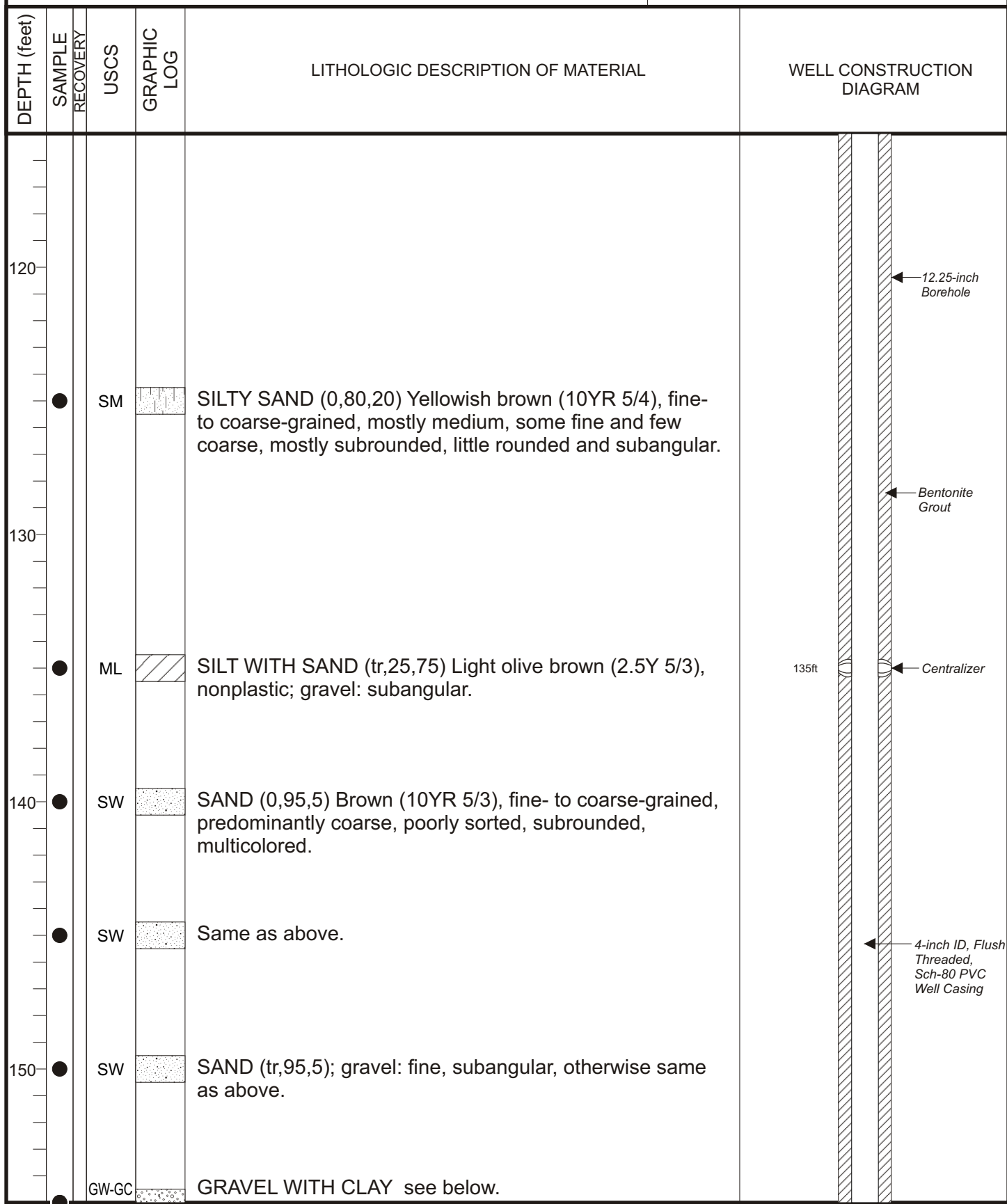


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

PROJECT NAME: Raytheon - Fullerton

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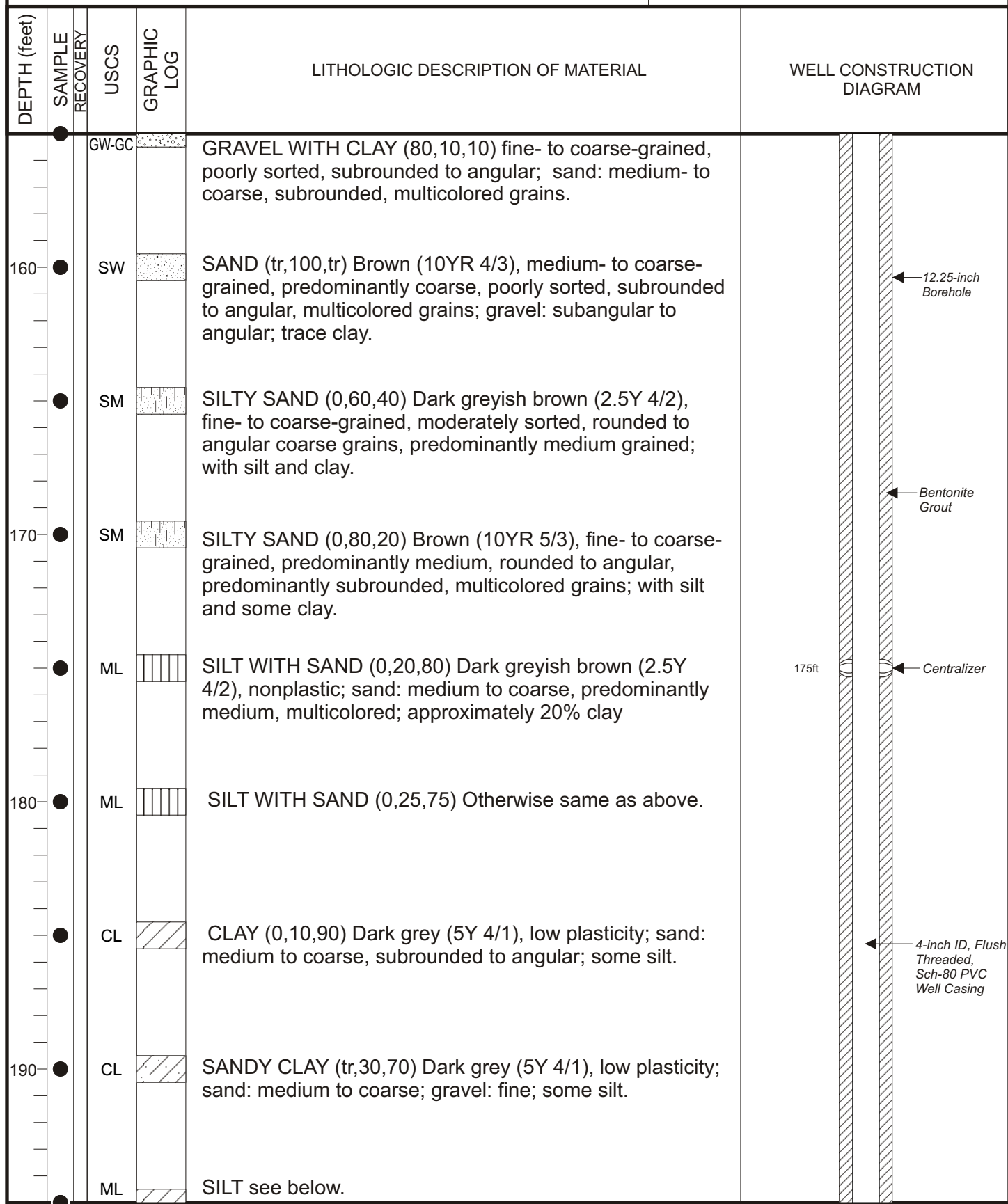


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MONITOR WELL MW-36

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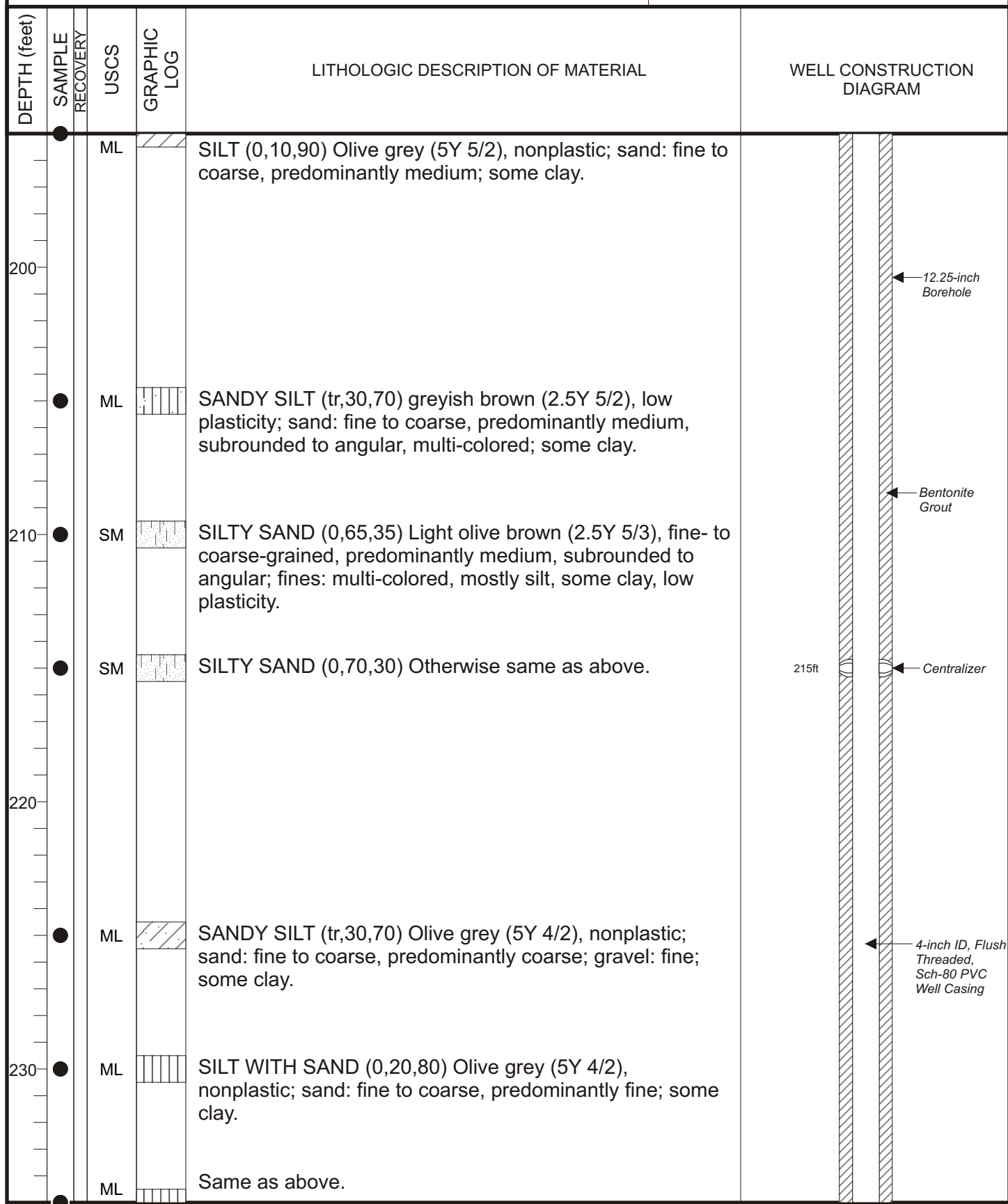


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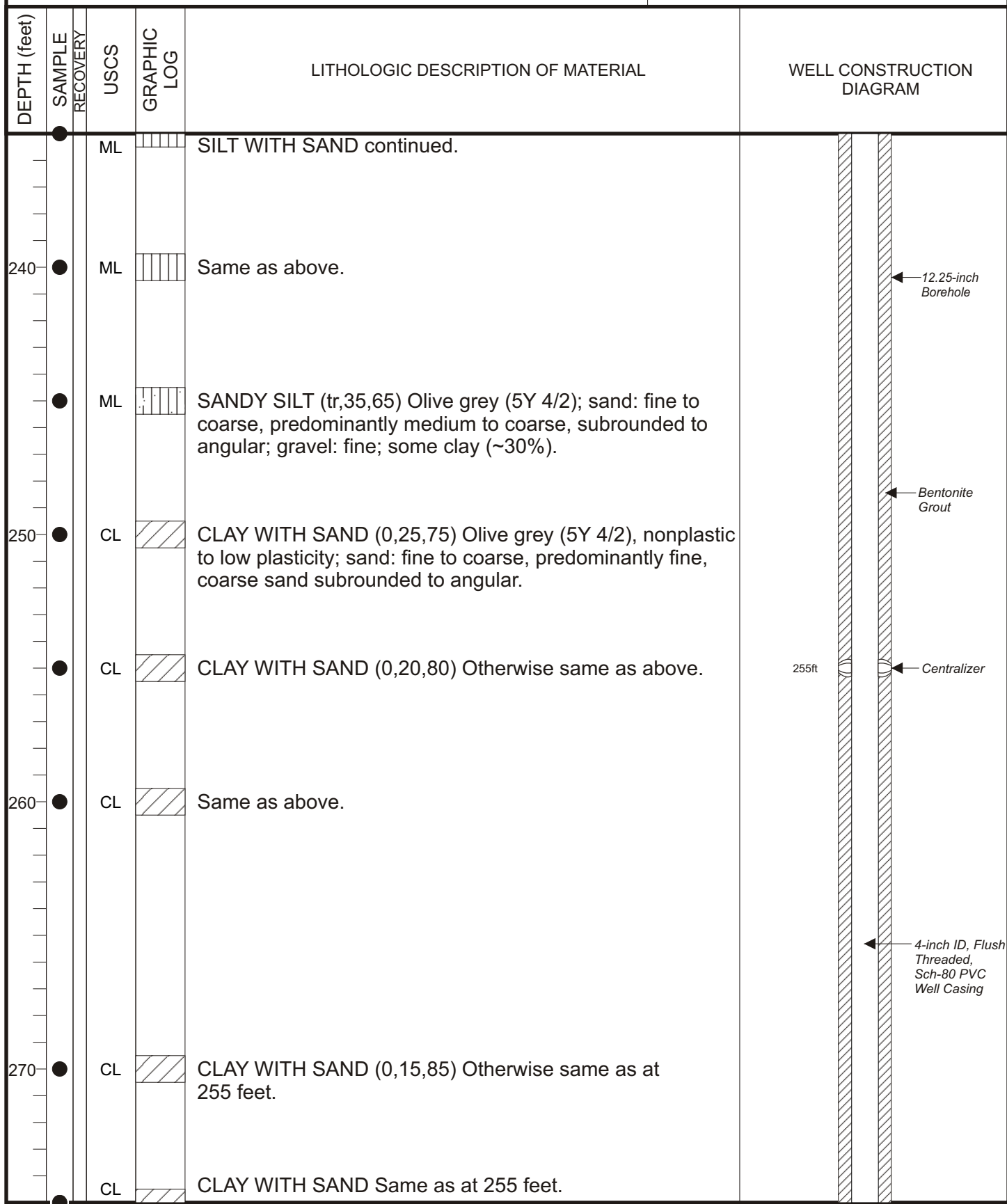


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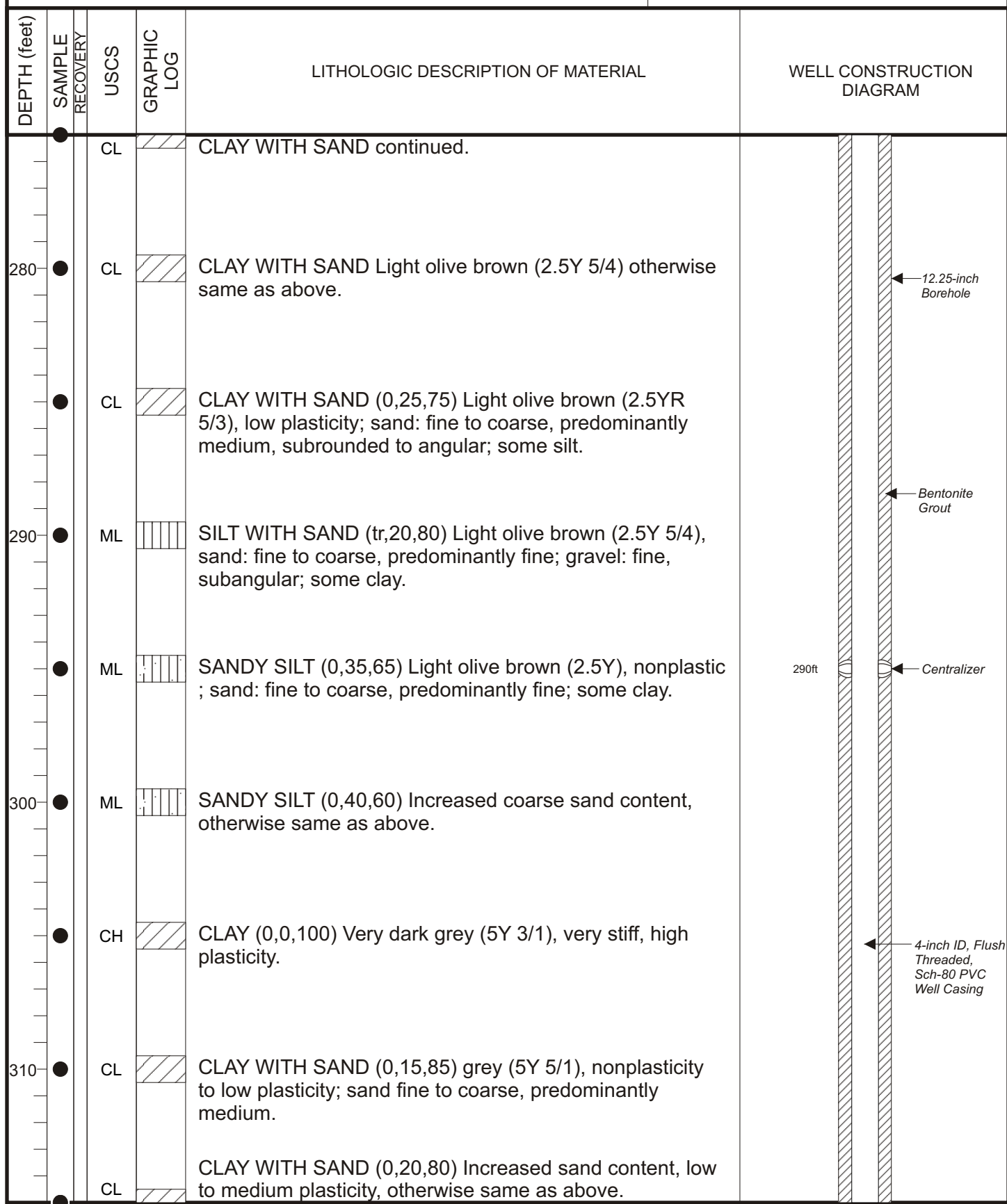


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

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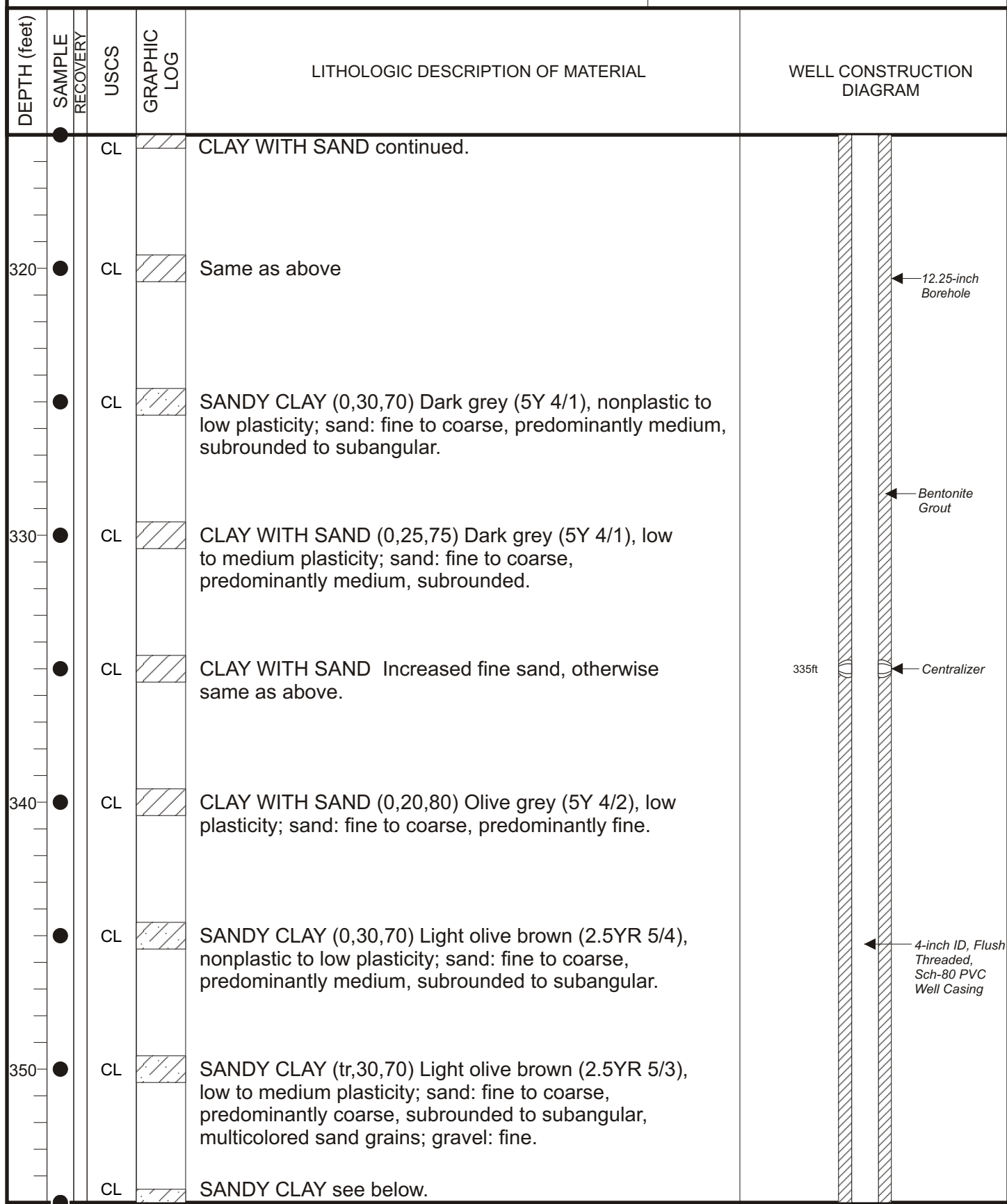


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DATE DRILLED: 11/29/11 to 1/5/12

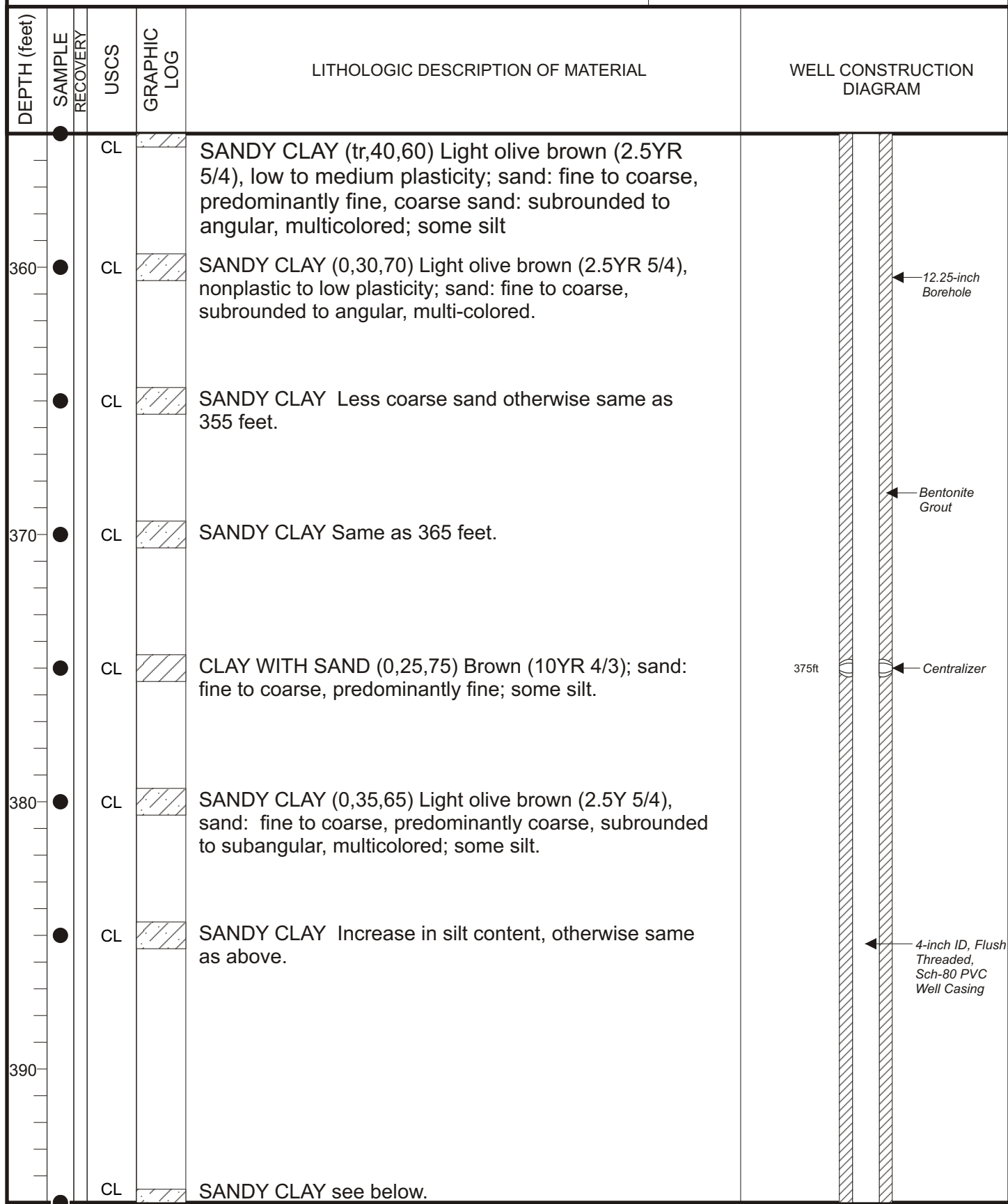


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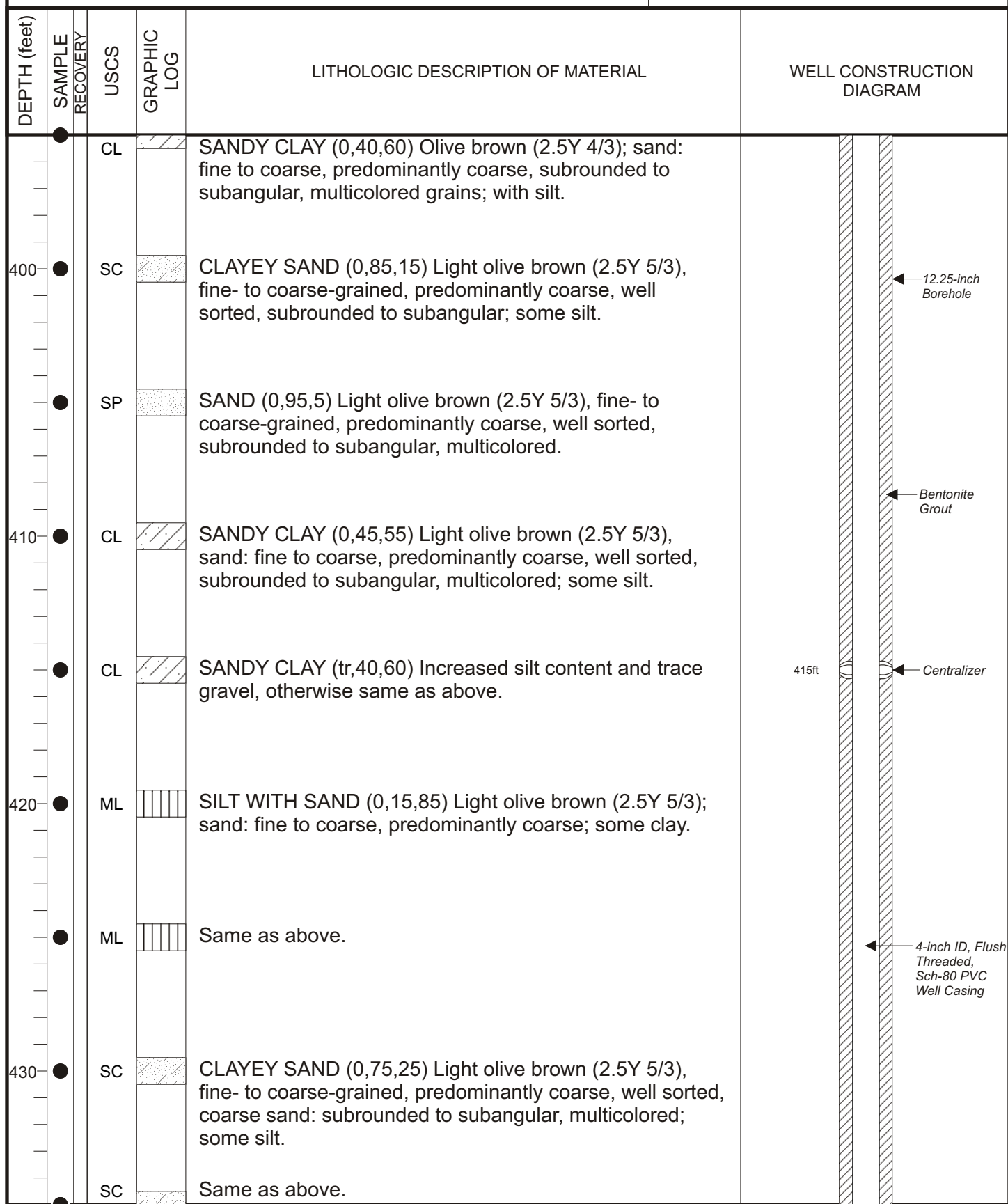


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PROJECT NAME: Raytheon - Fullerton

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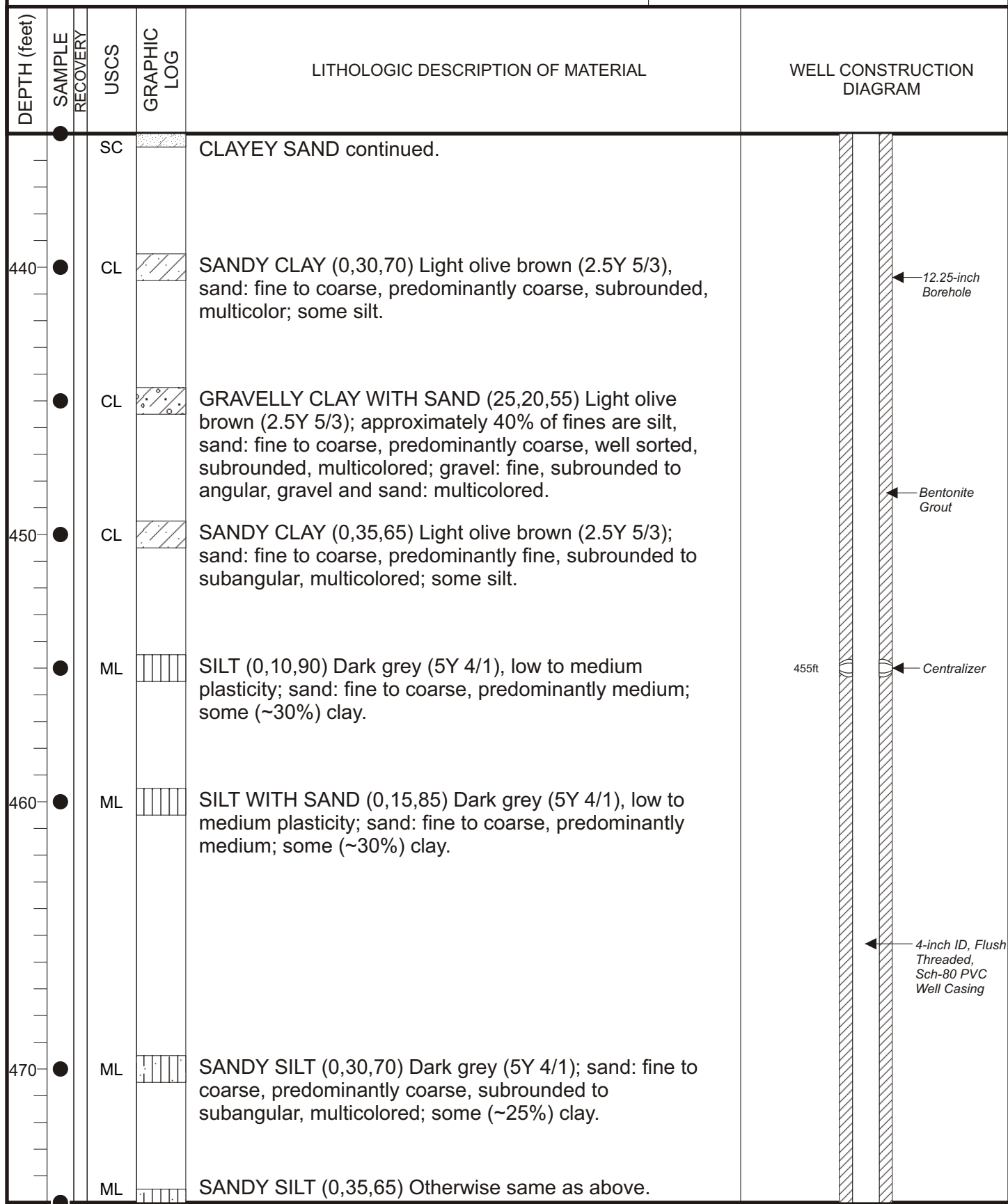


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DATE DRILLED: 11/29/11 to 1/5/12

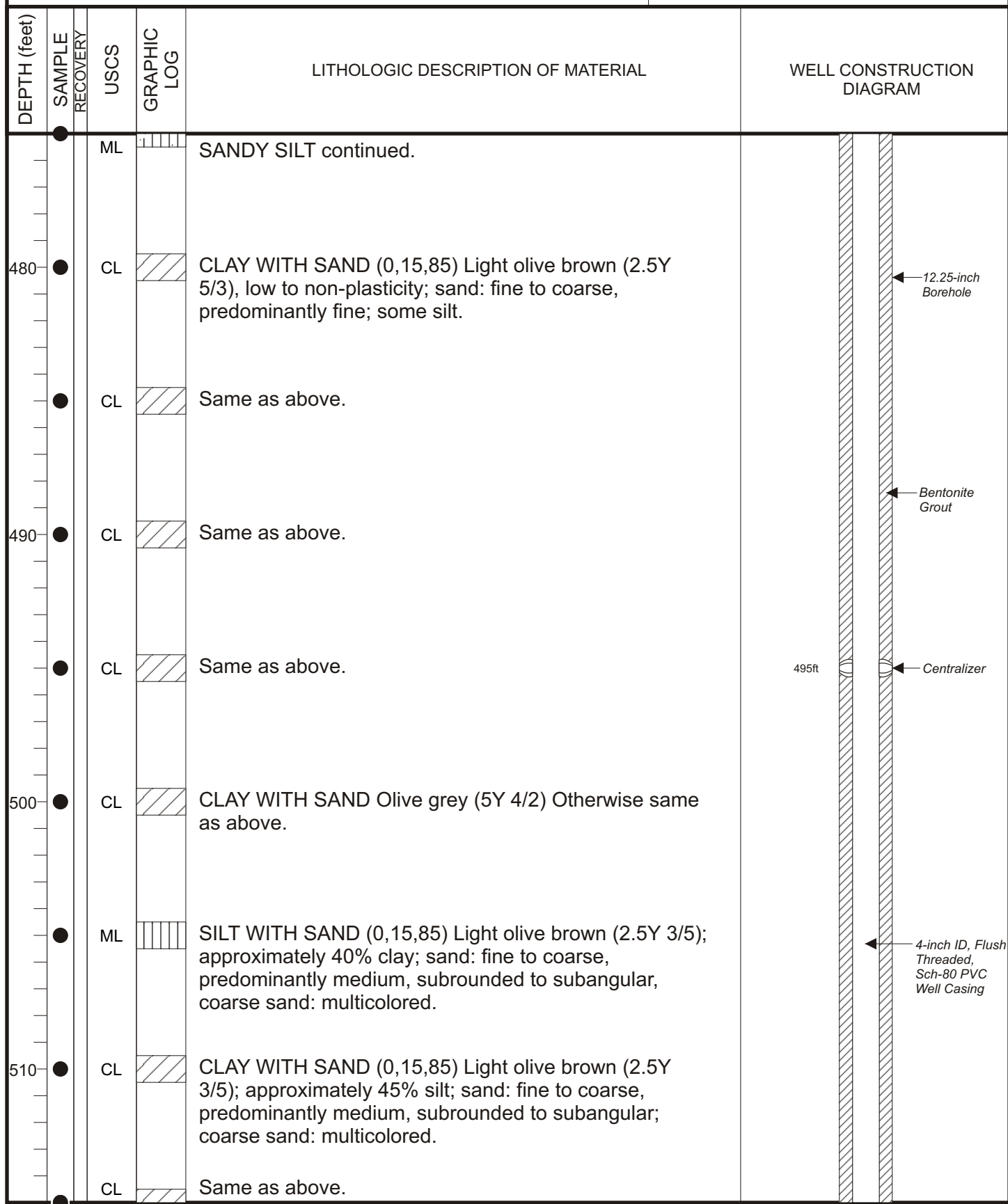


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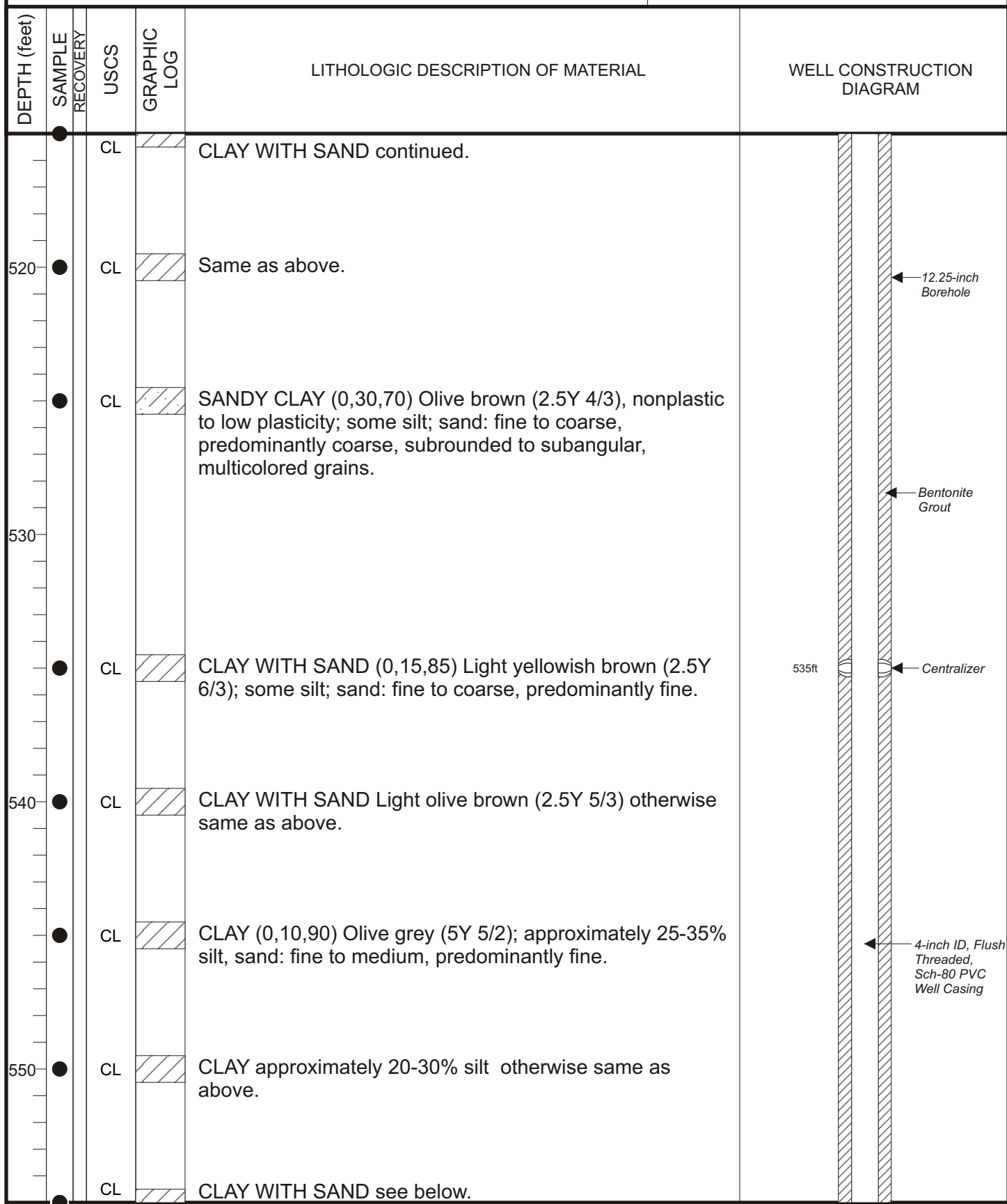


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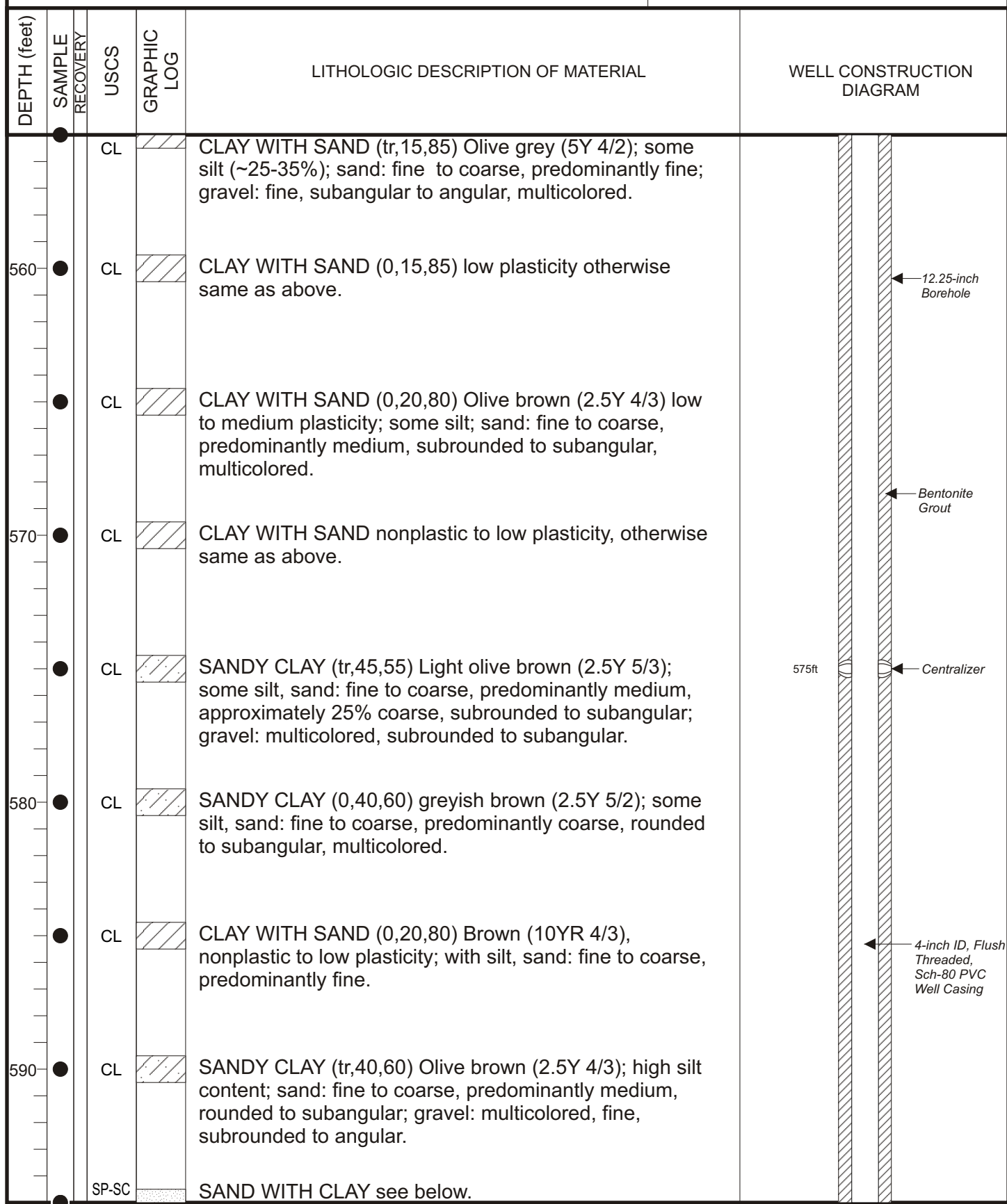


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

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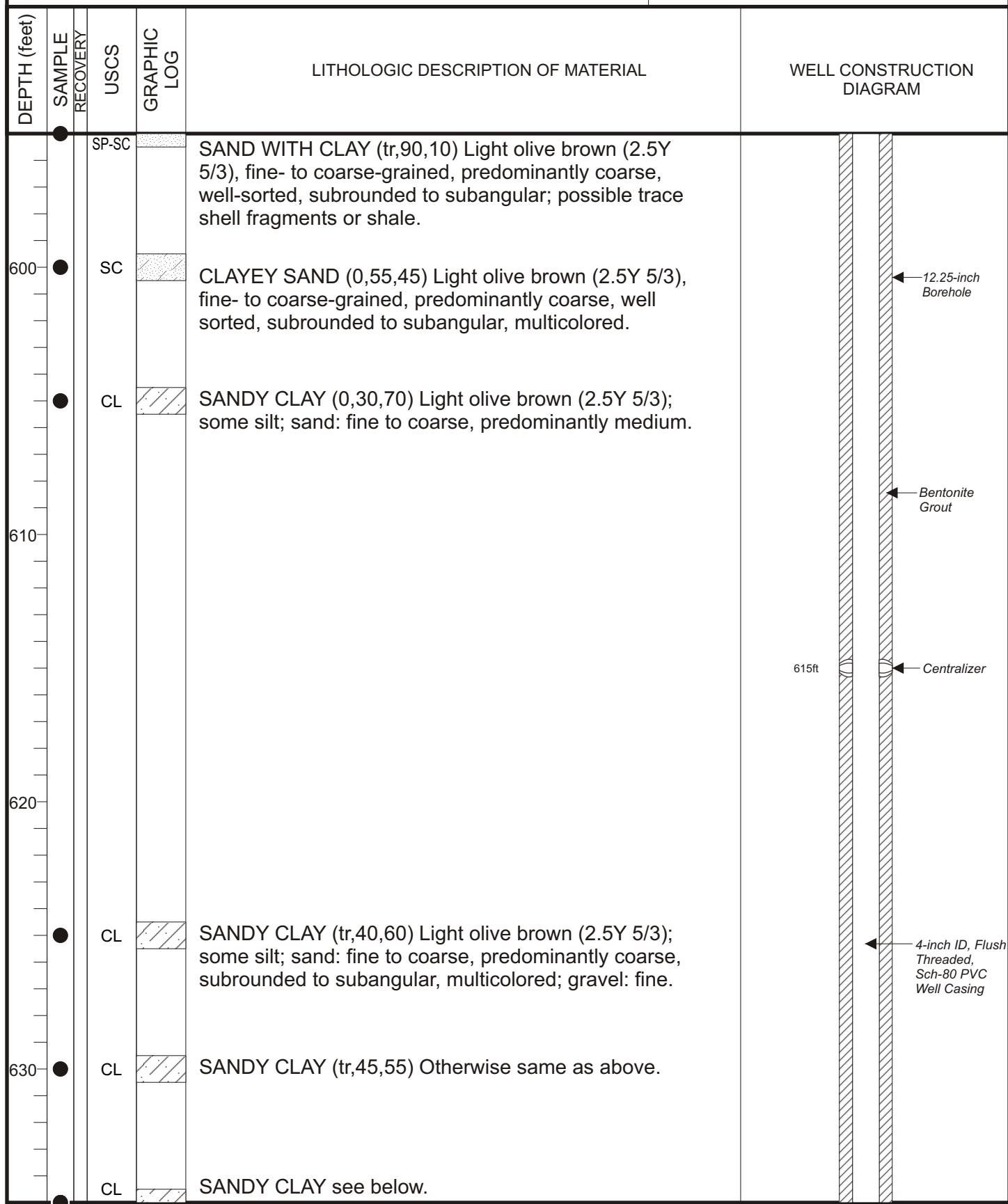


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

PROJECT NAME: Raytheon - Fullerton

PROJECT NUMBER: 532.03

DATE DRILLED: 11/29/11 to 1/5/12

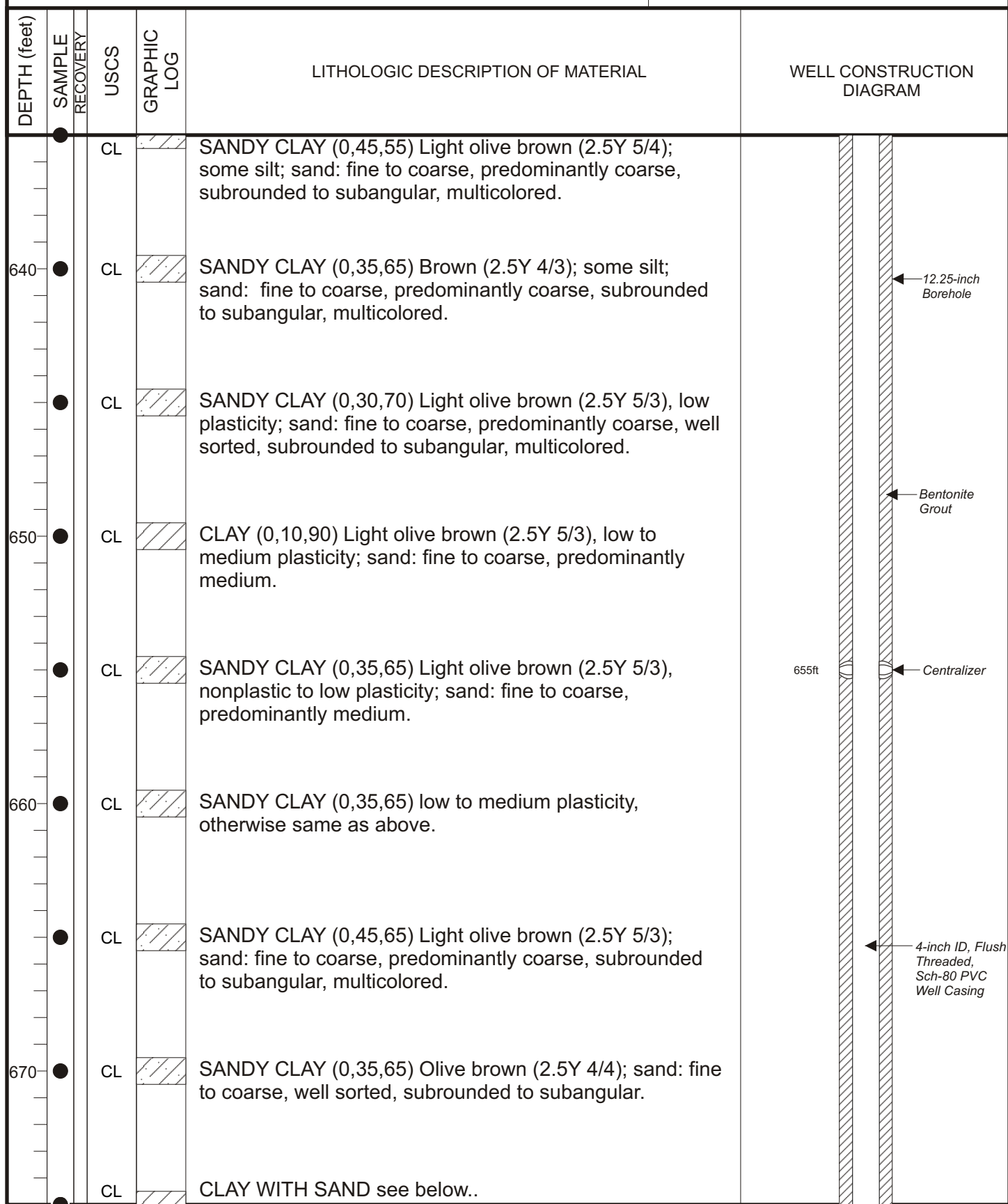


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PROJECT NAME: Raytheon - Fullerton

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DATE DRILLED: 11/29/11 to 1/5/12

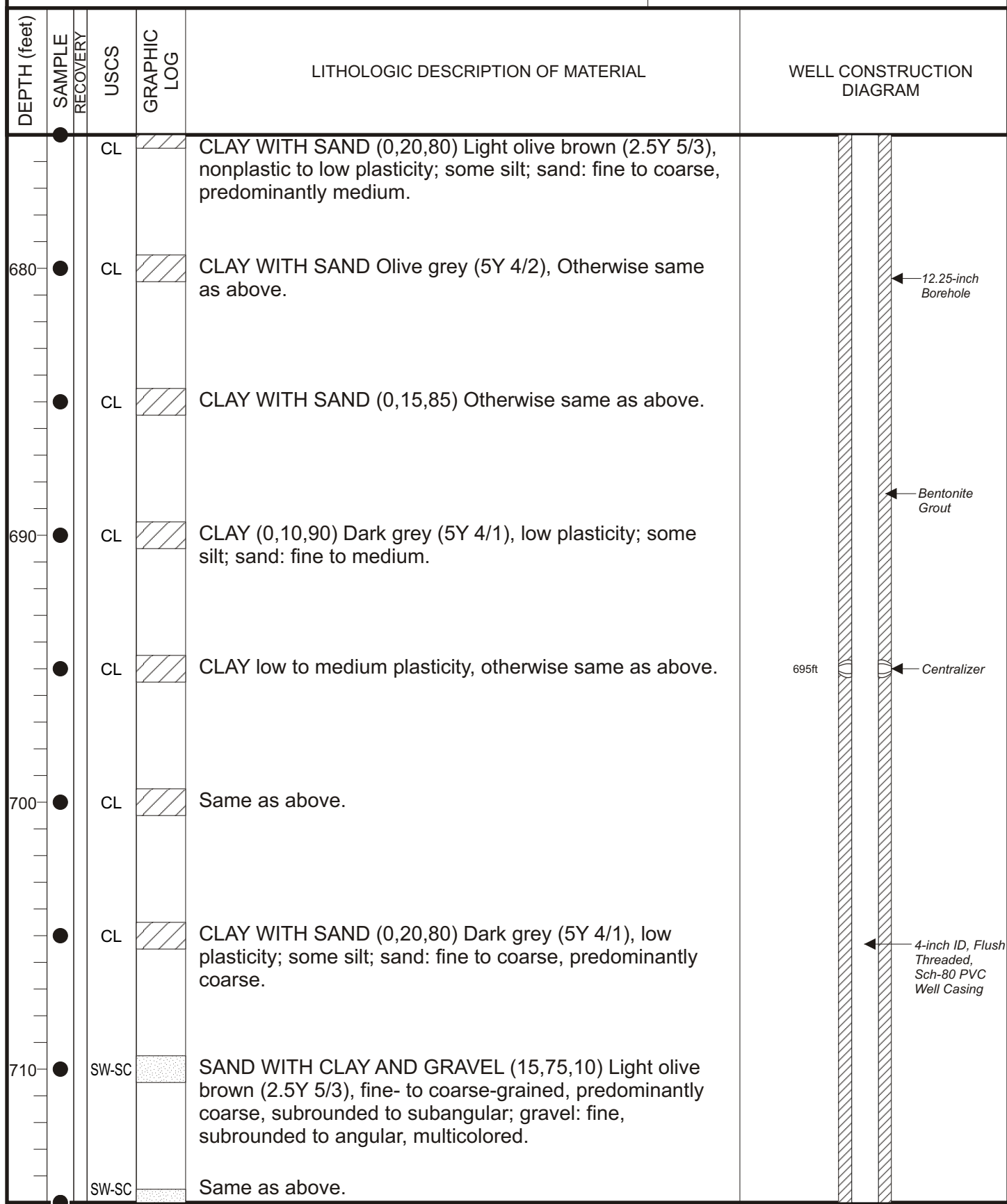


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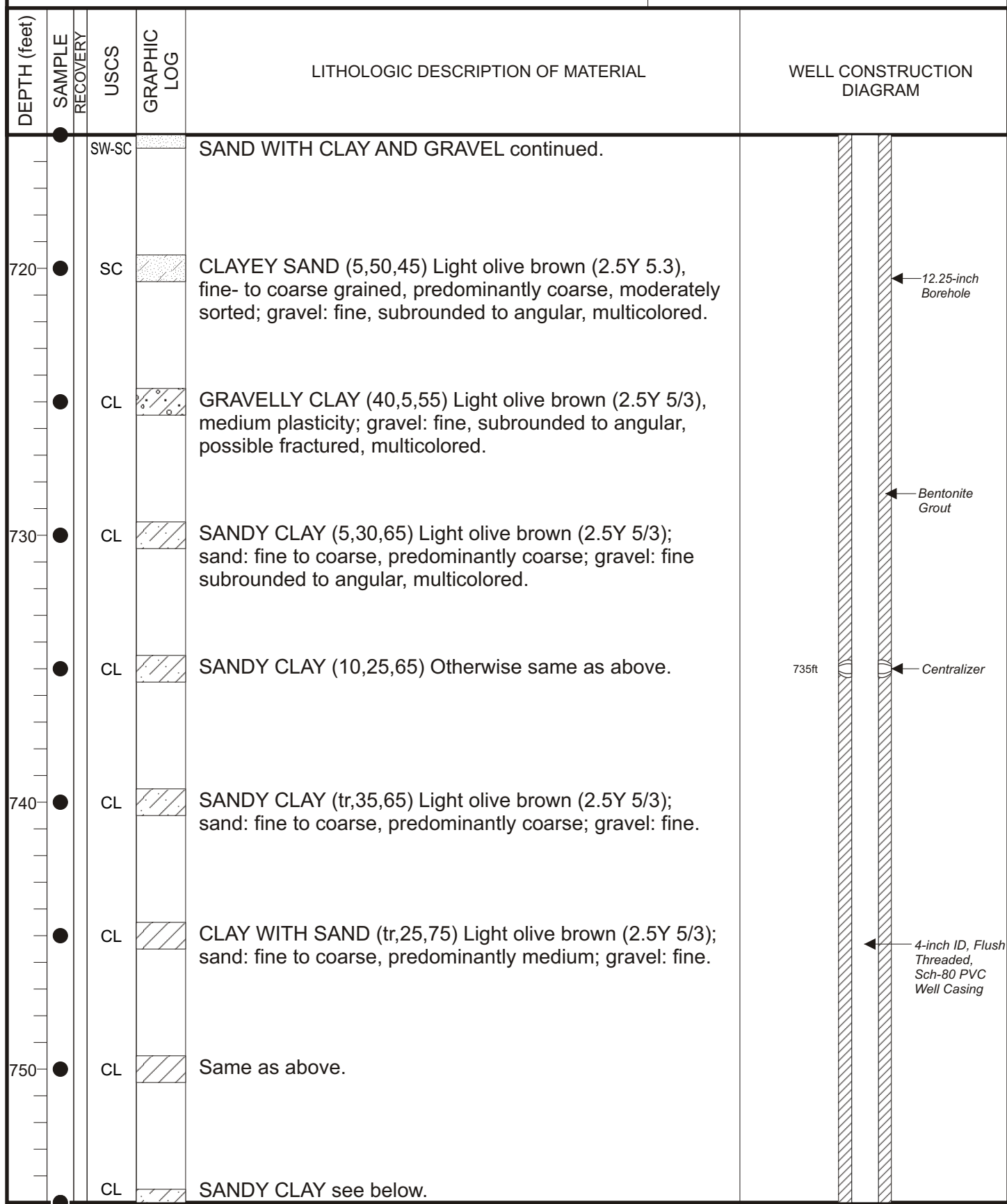


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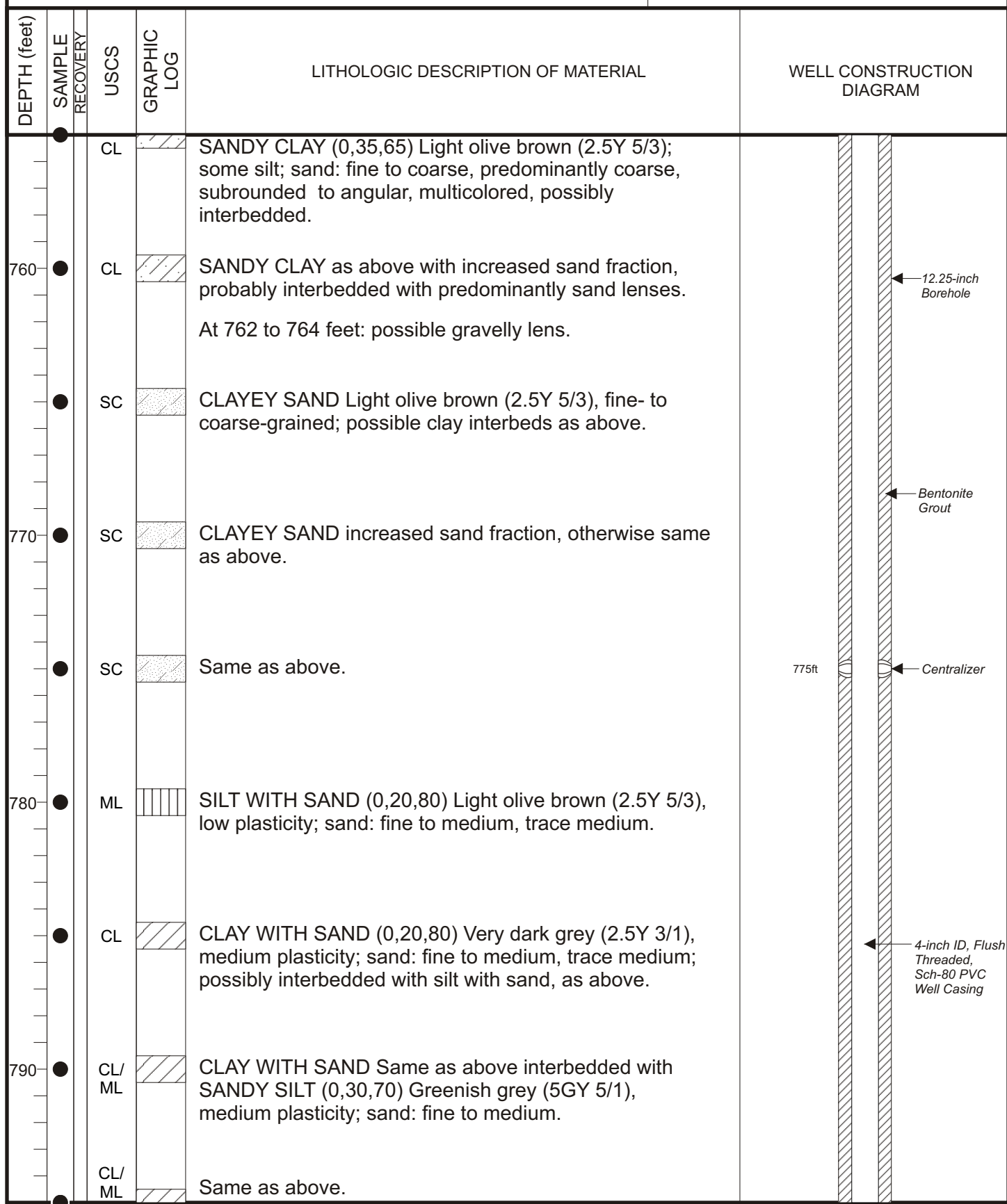


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

PROJECT NAME: *Raytheon - Fullerton*

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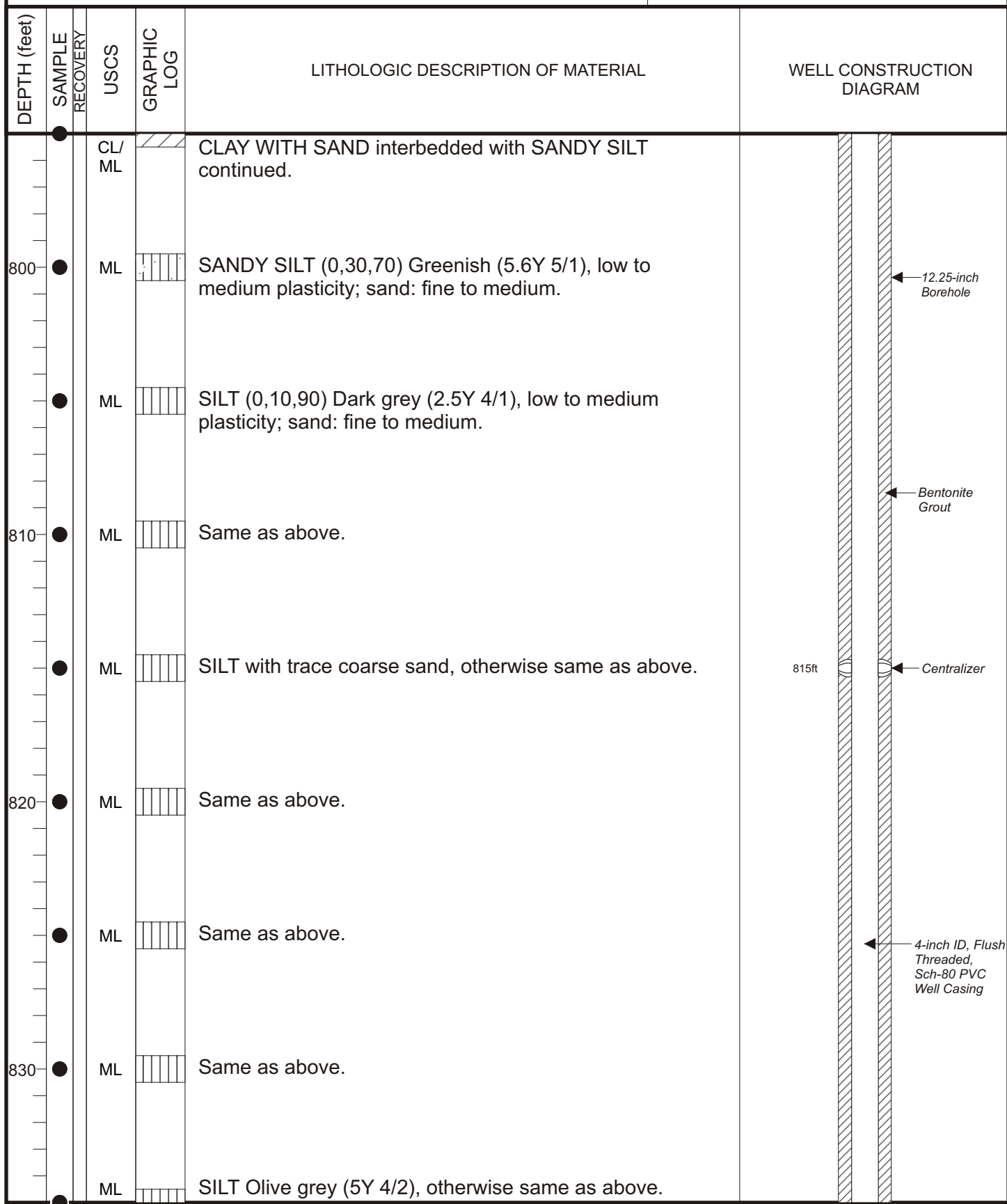


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

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PROJECT NAME: *Raytheon - Fullerton*

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DATE DRILLED: 11/29/11 to 1/5/12

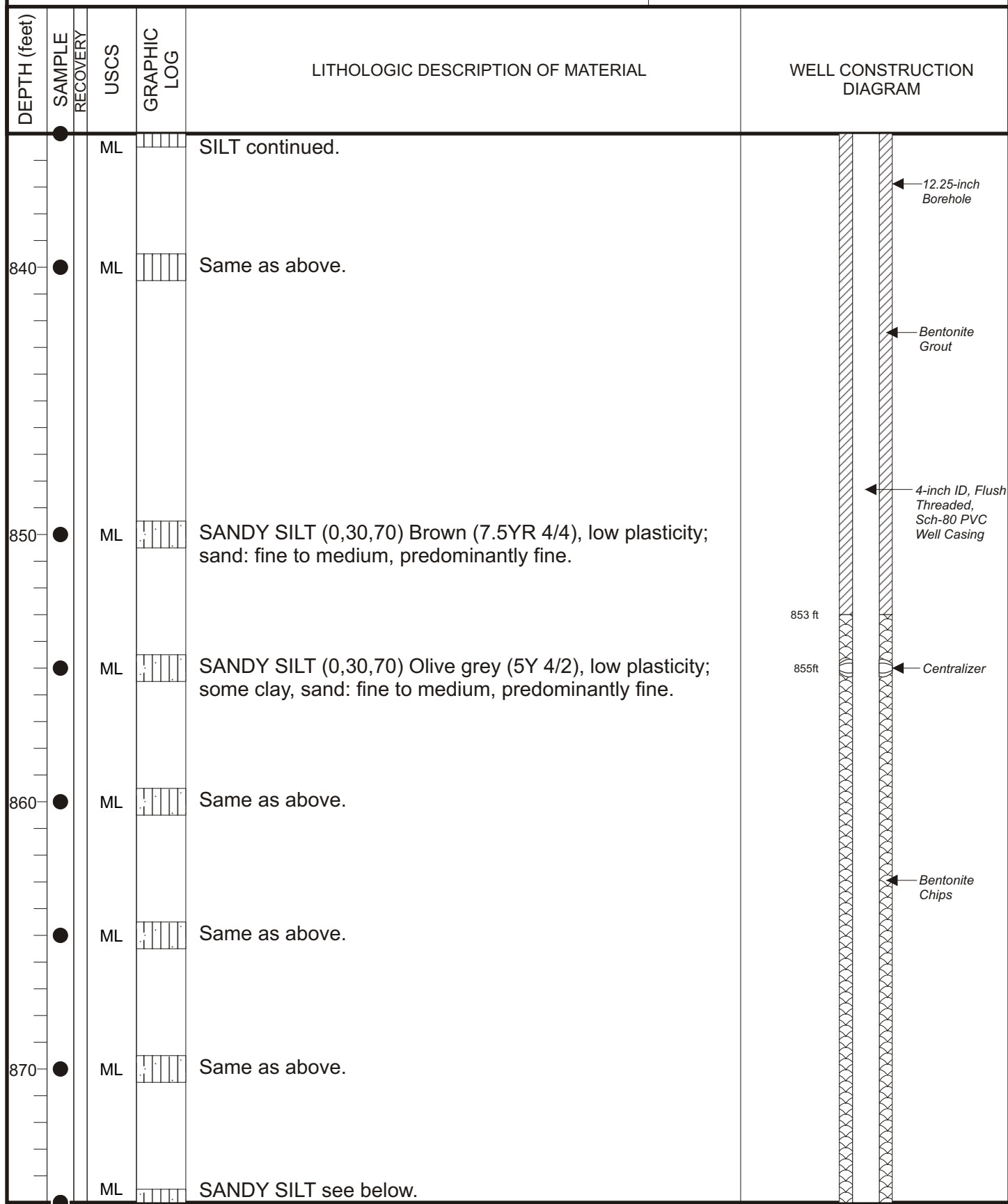


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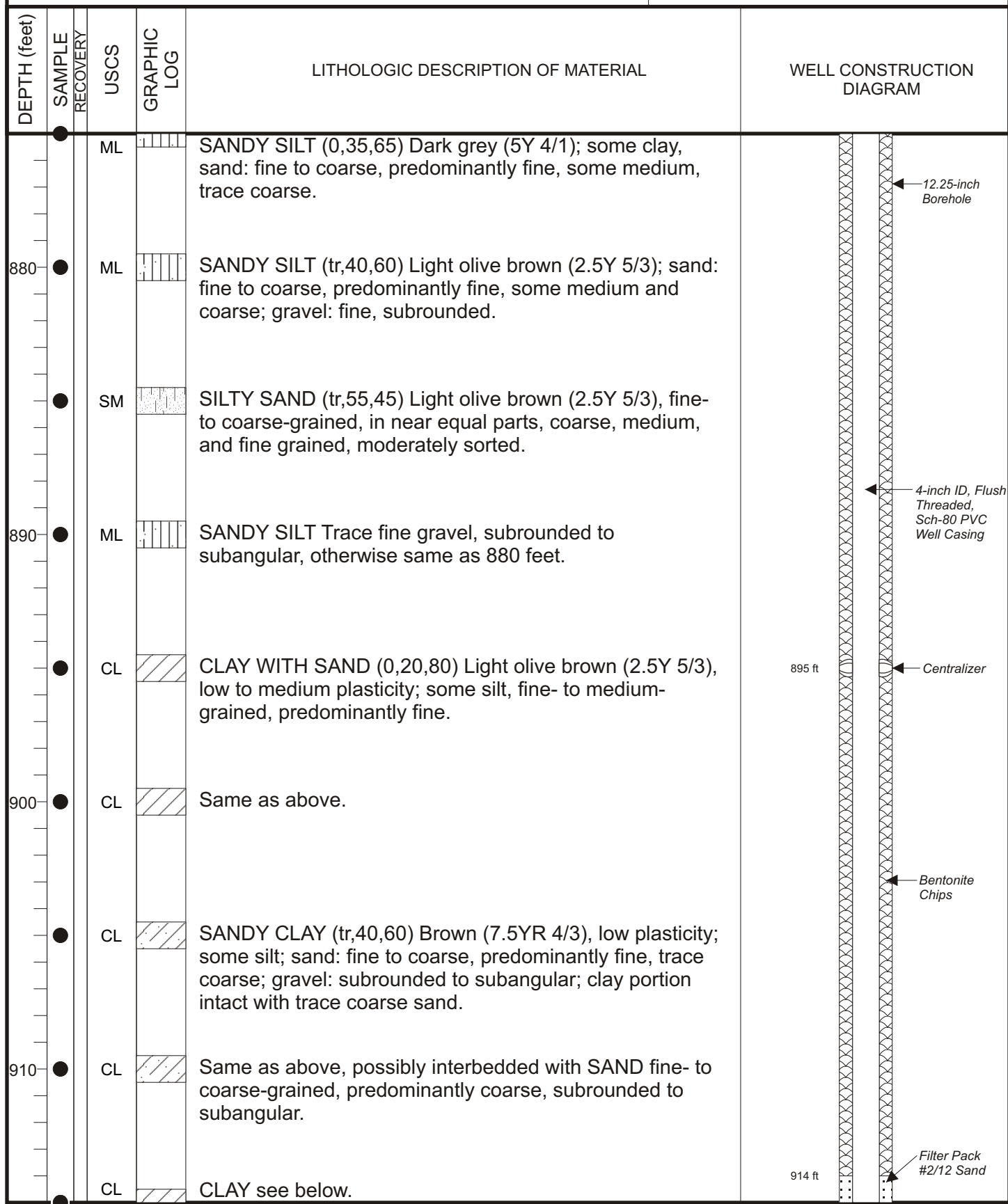


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

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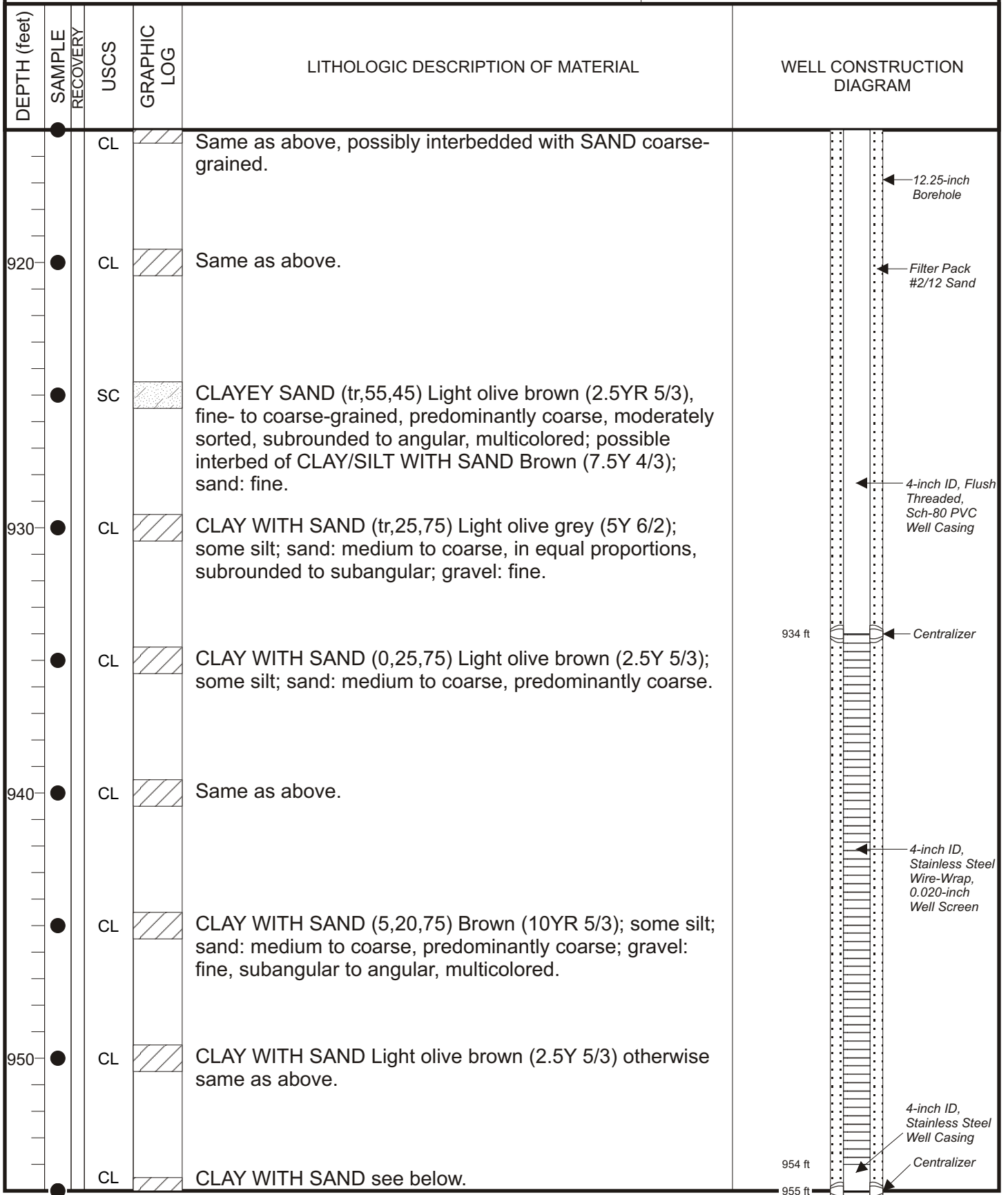


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

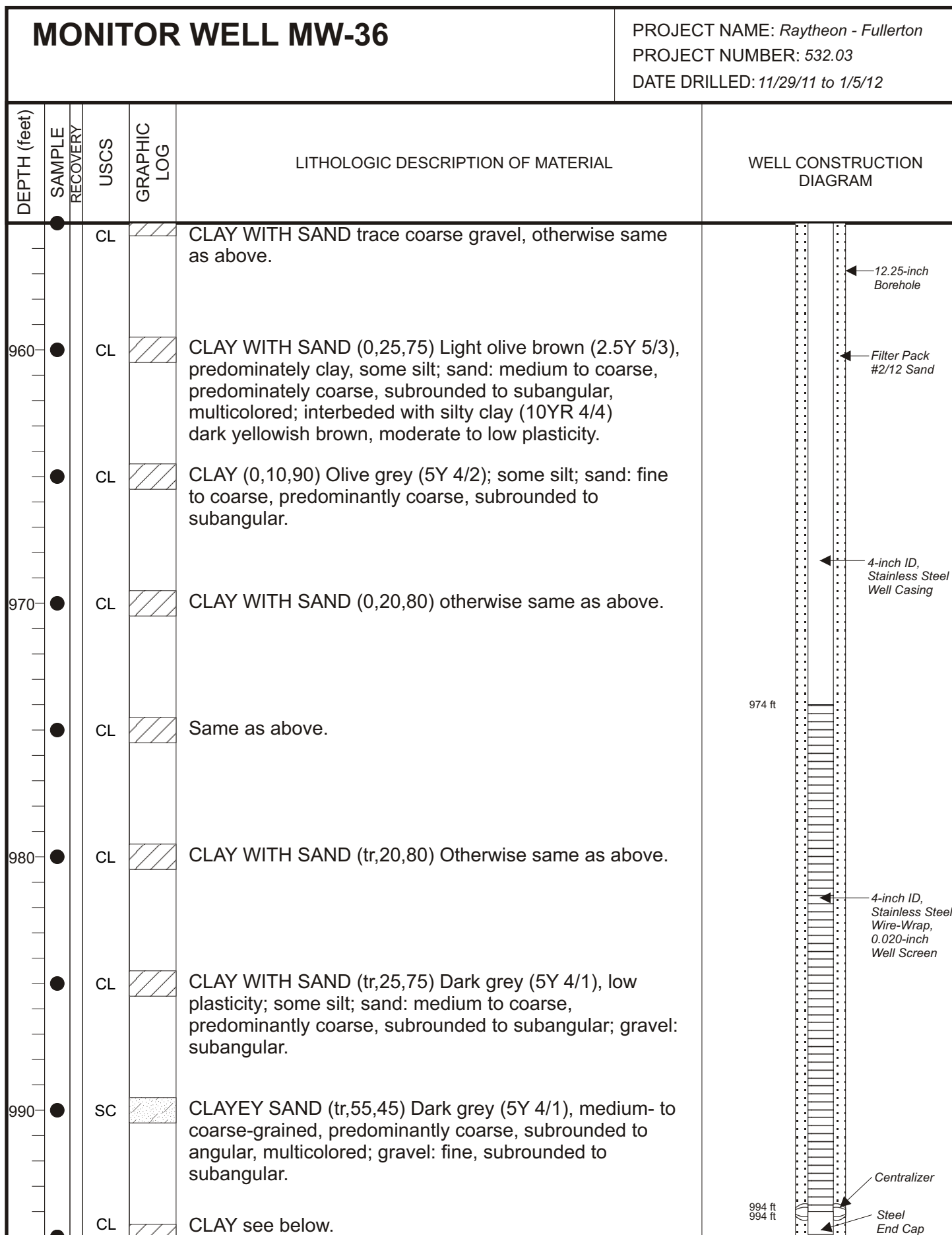


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

MONITOR WELL MW-36

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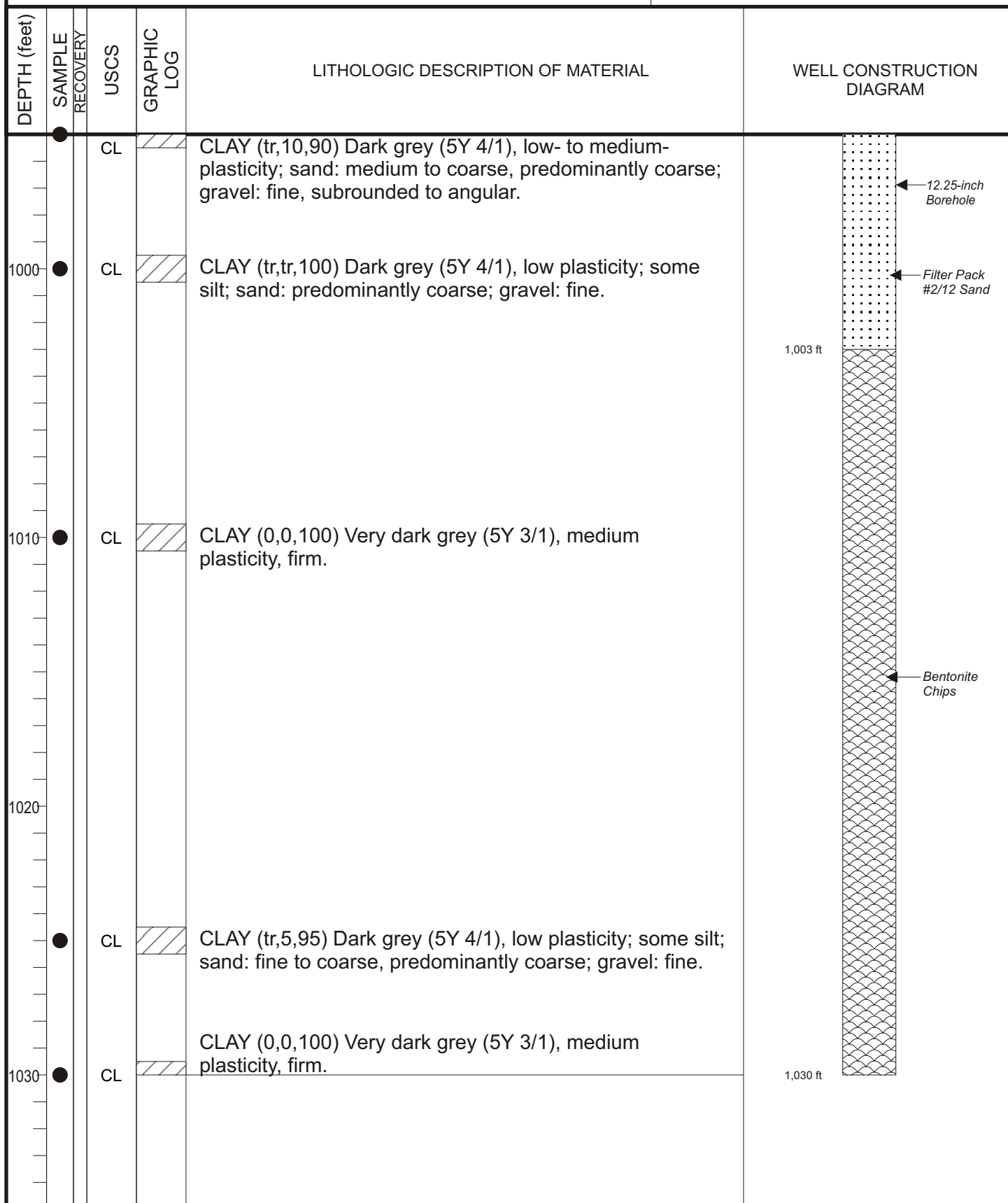


FIGURE B-2: LITHOLOGIC LOG FOR MONITOR WELL MW-36

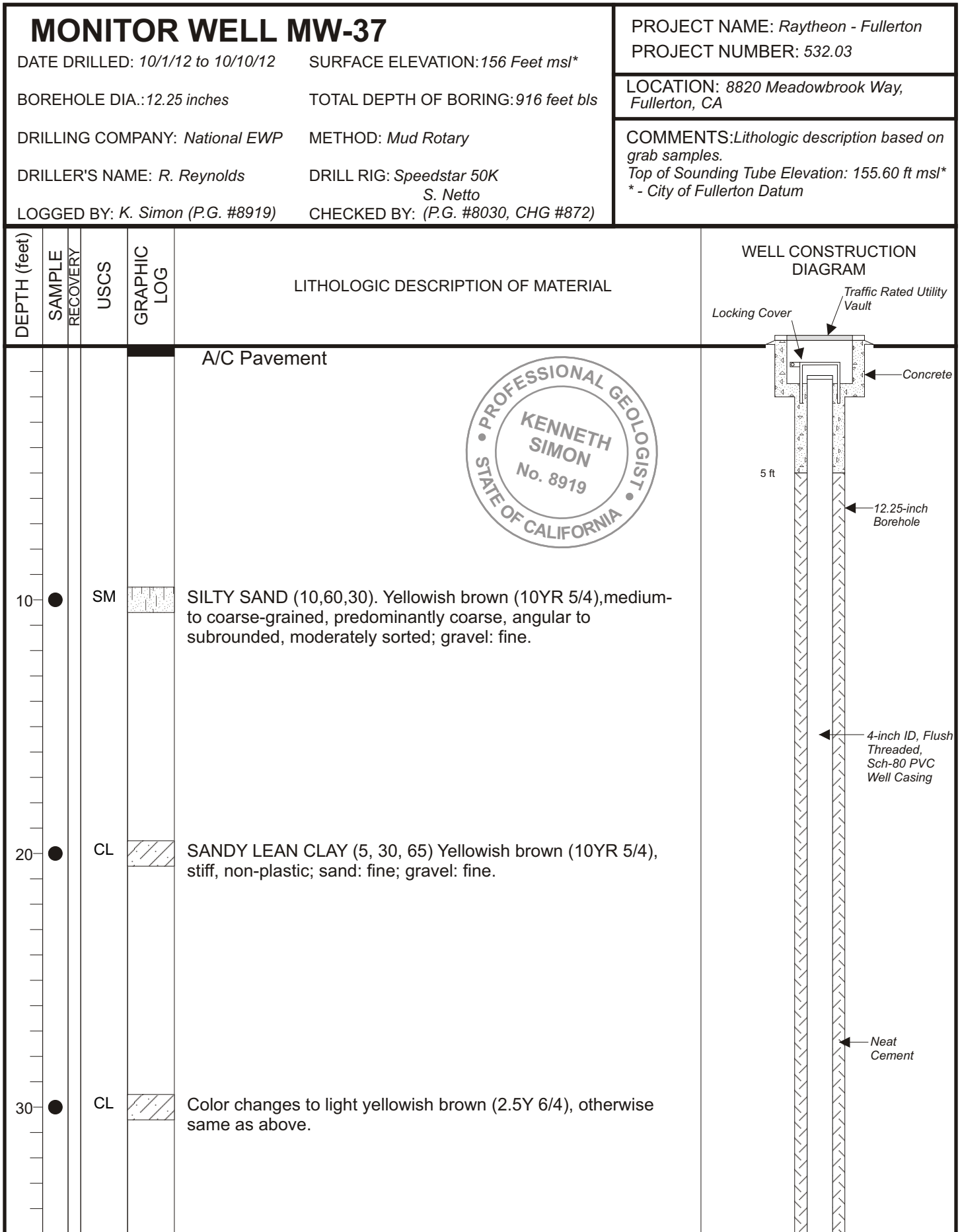


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

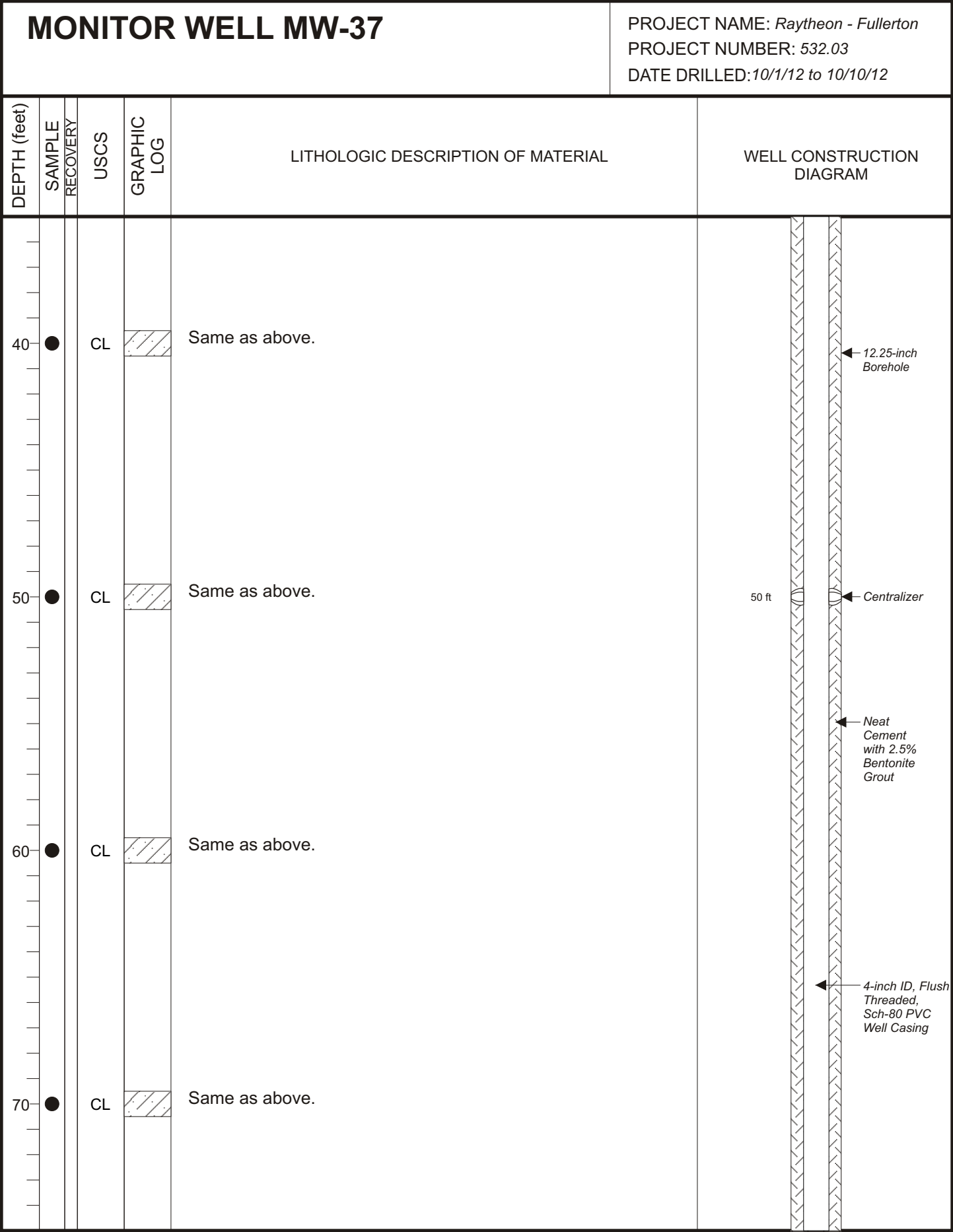


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

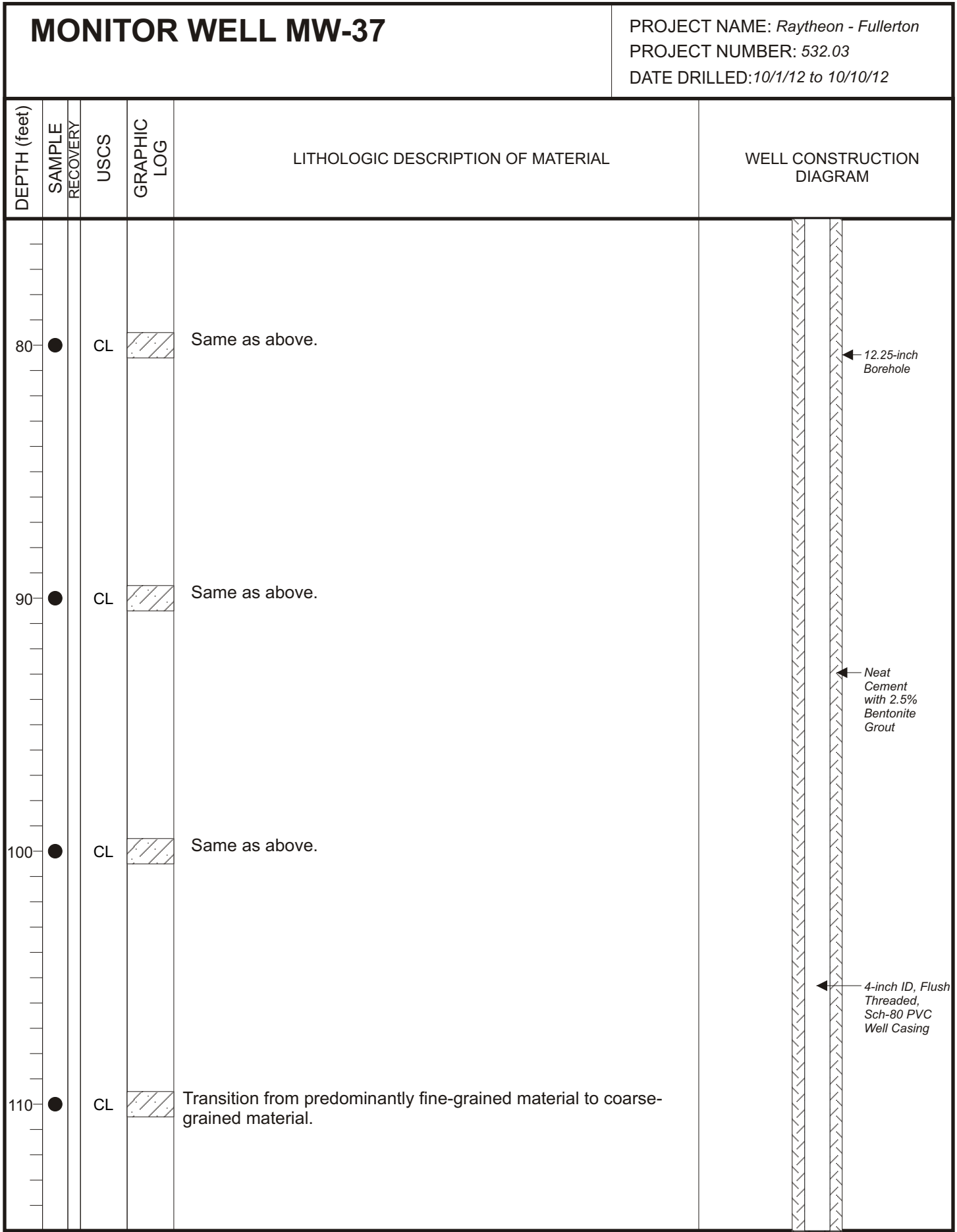


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

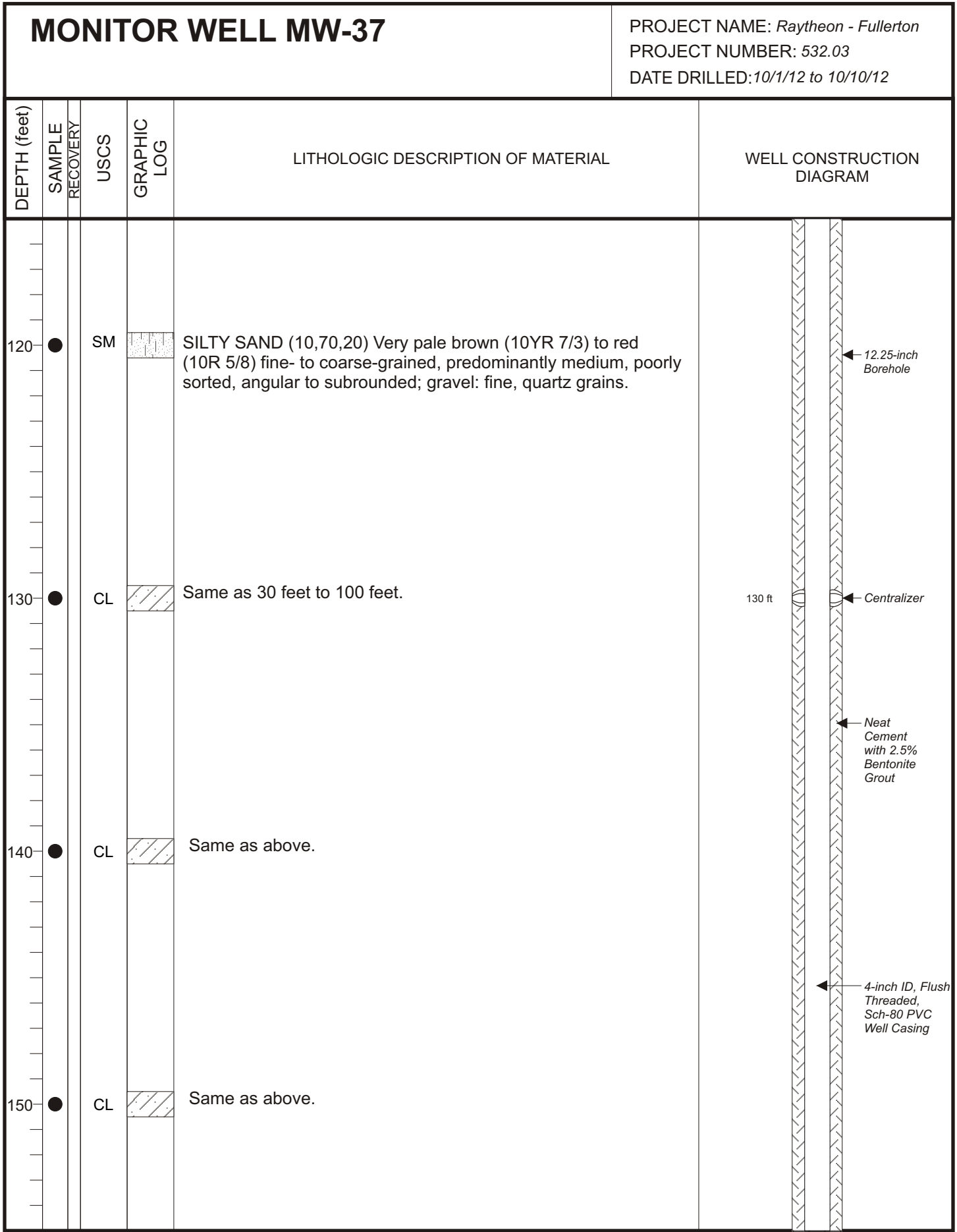


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

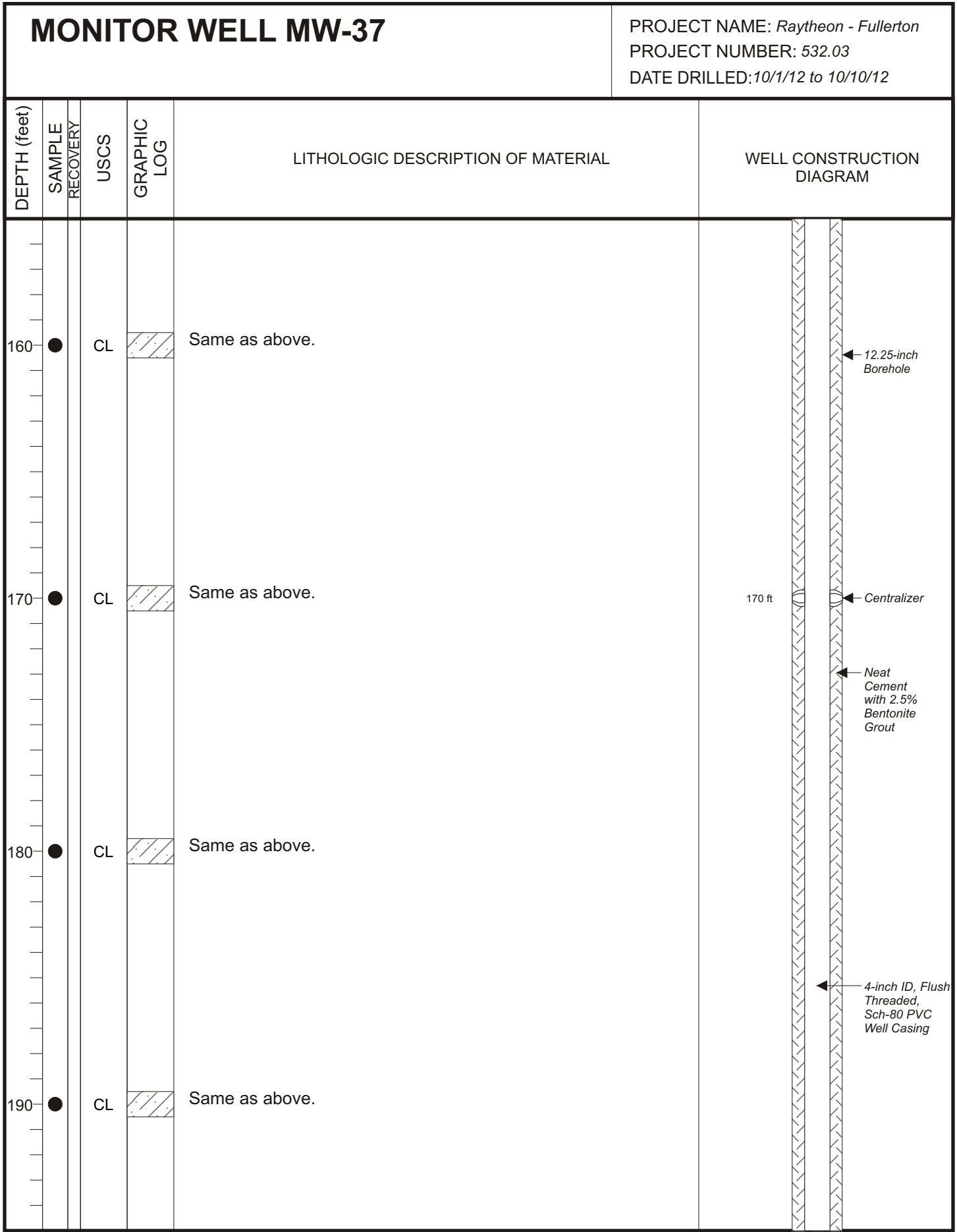


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

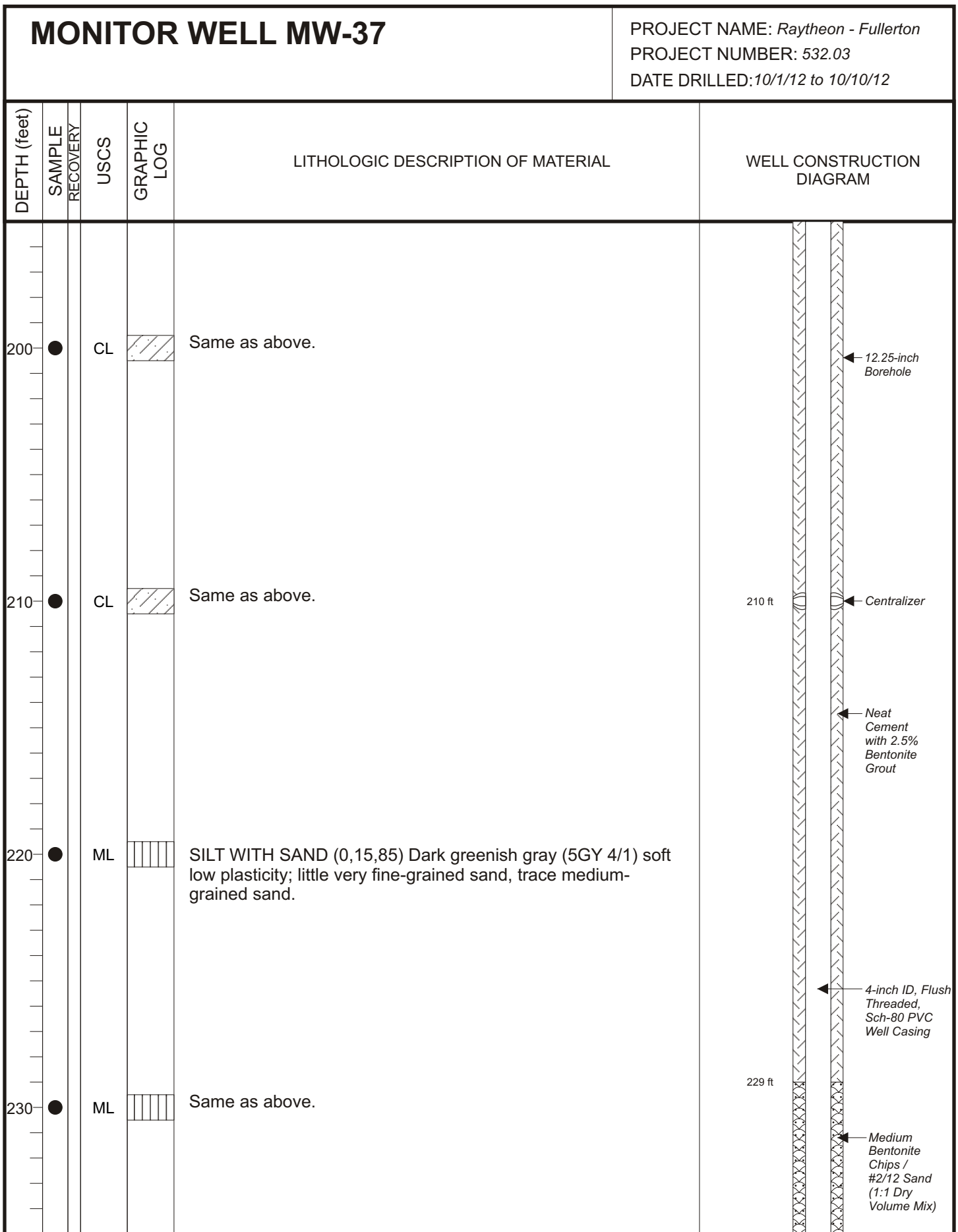


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

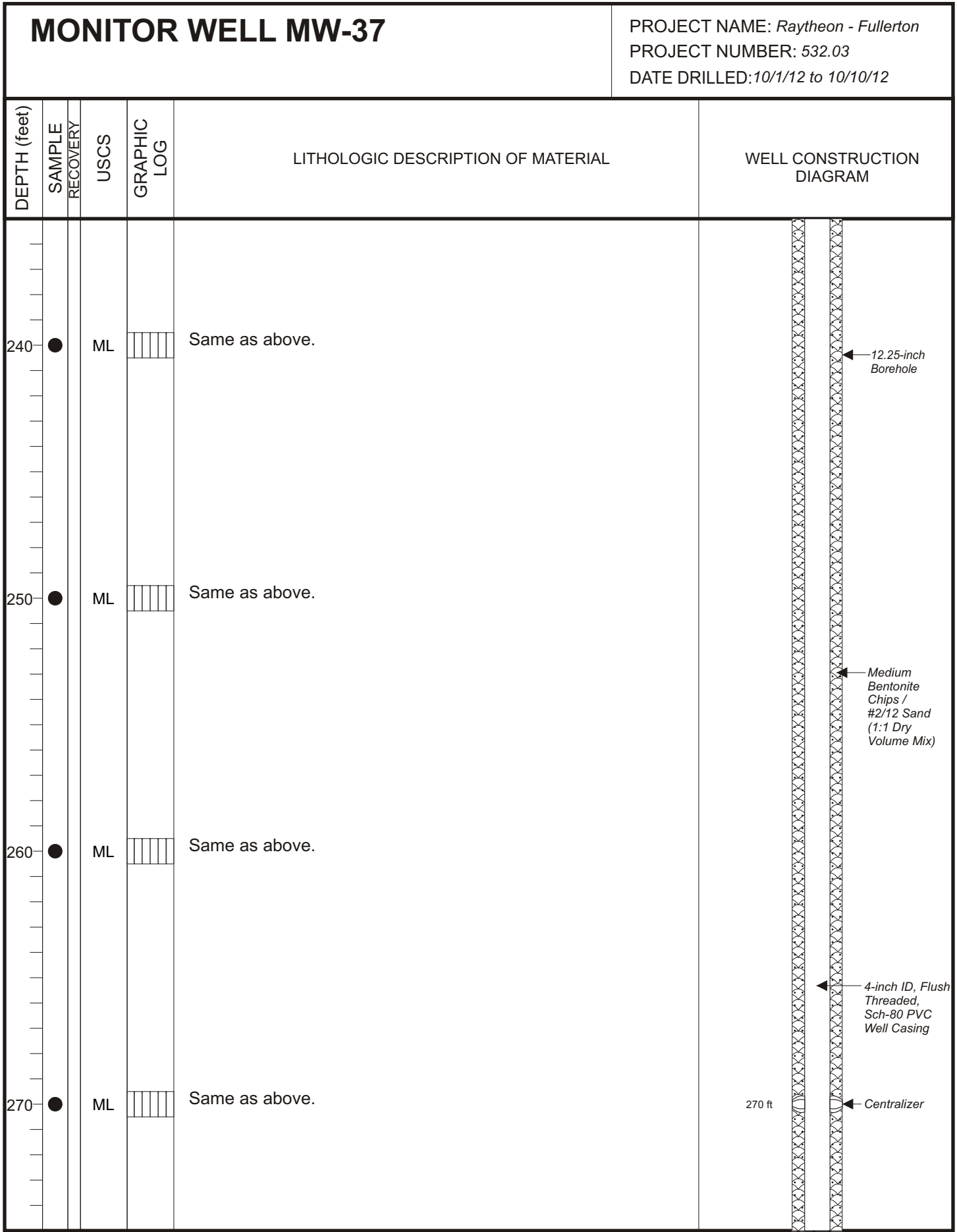


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

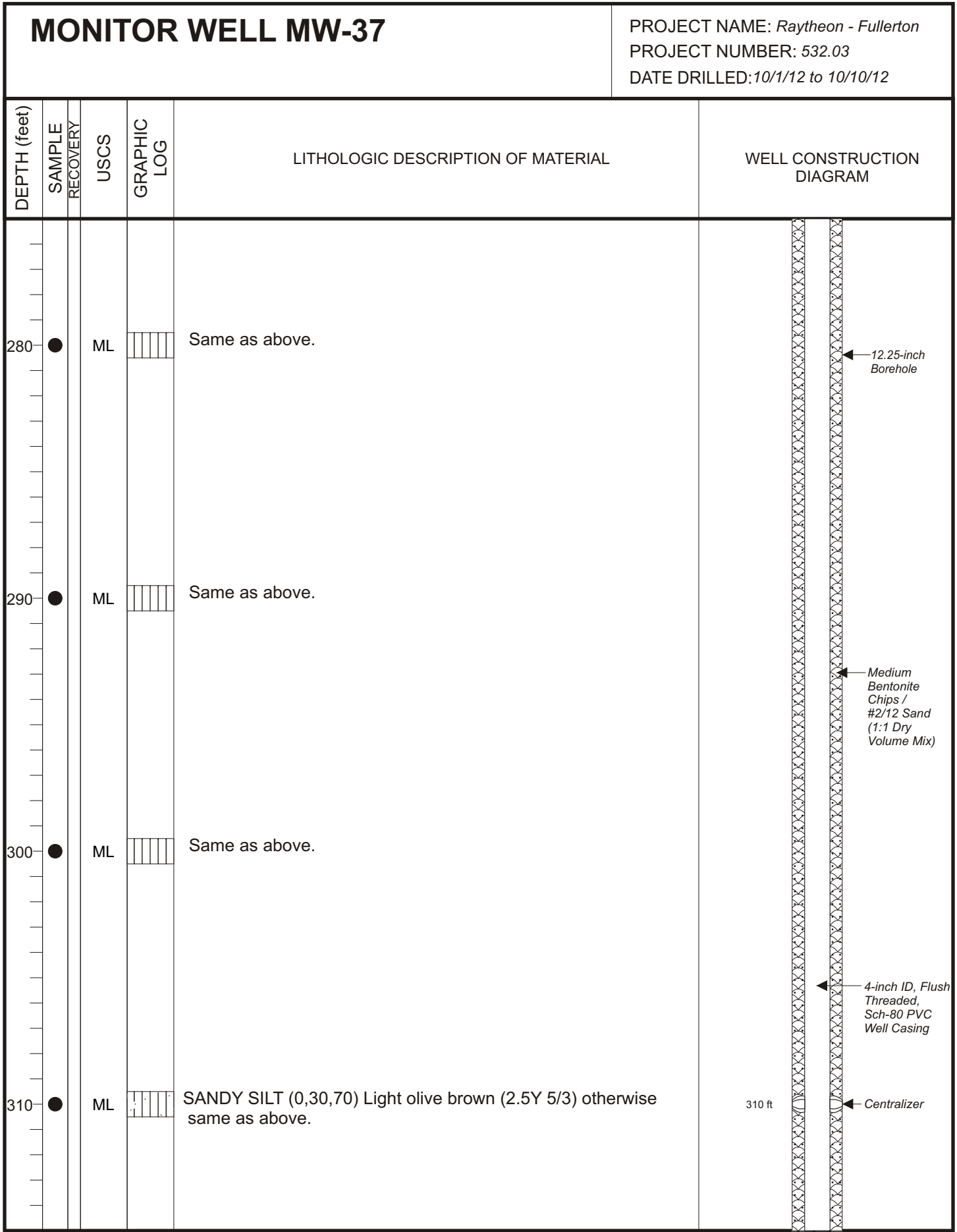


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

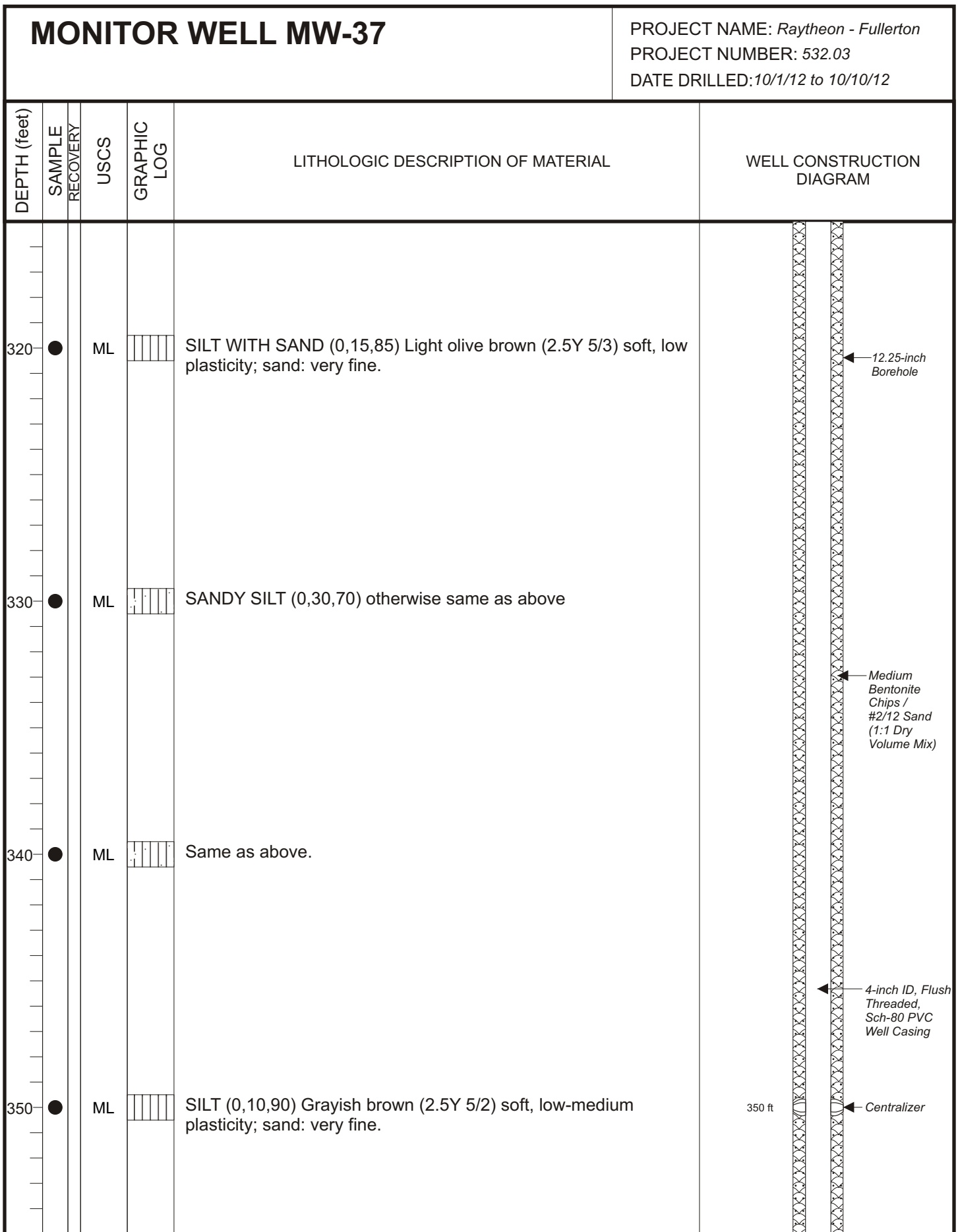


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

MONITOR WELL MW-37

PROJECT NAME: *Raytheon - Fullerton*

PROJECT NUMBER: 532.03

DATE DRILLED: 10/1/12 to 10/10/12

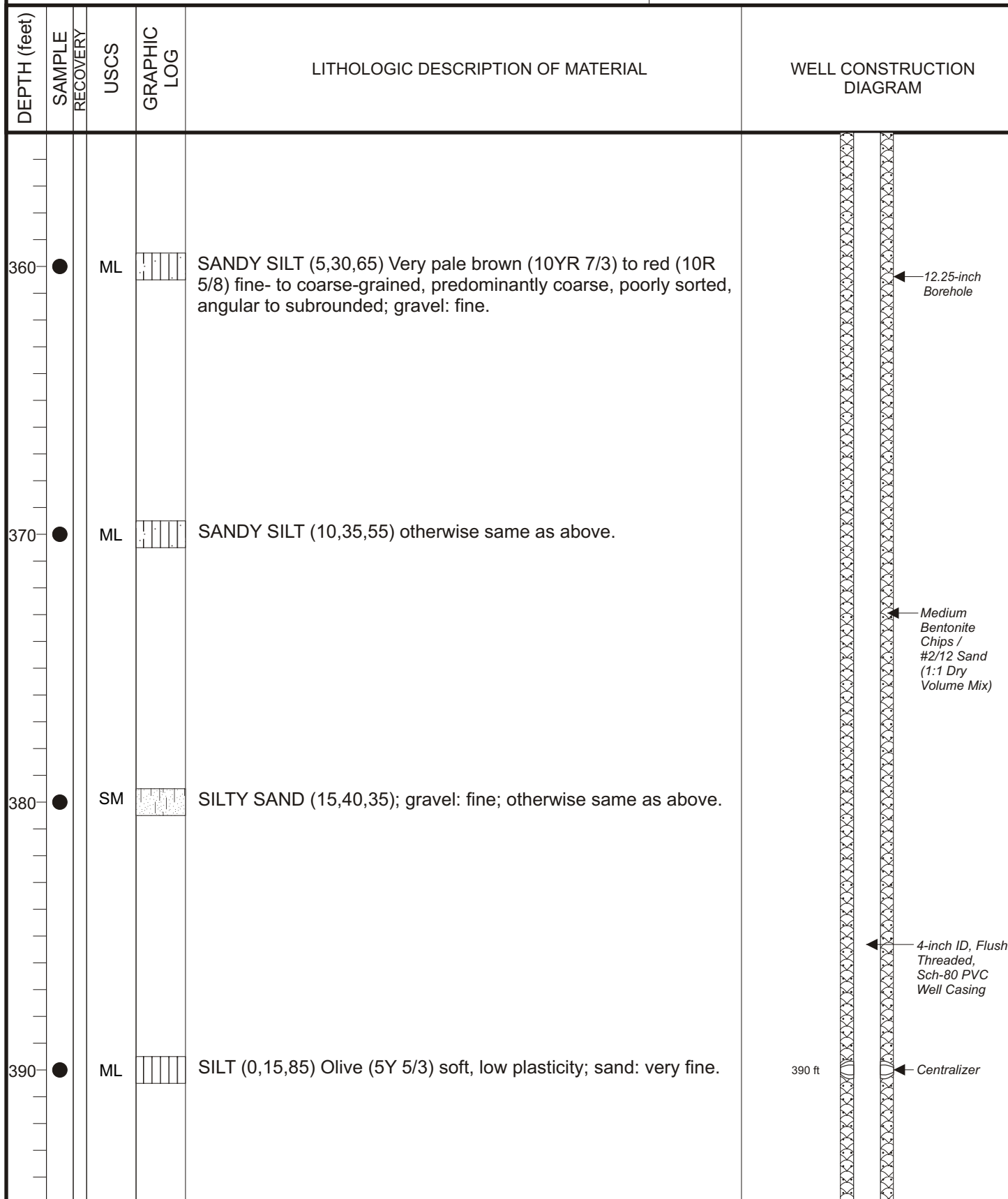


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

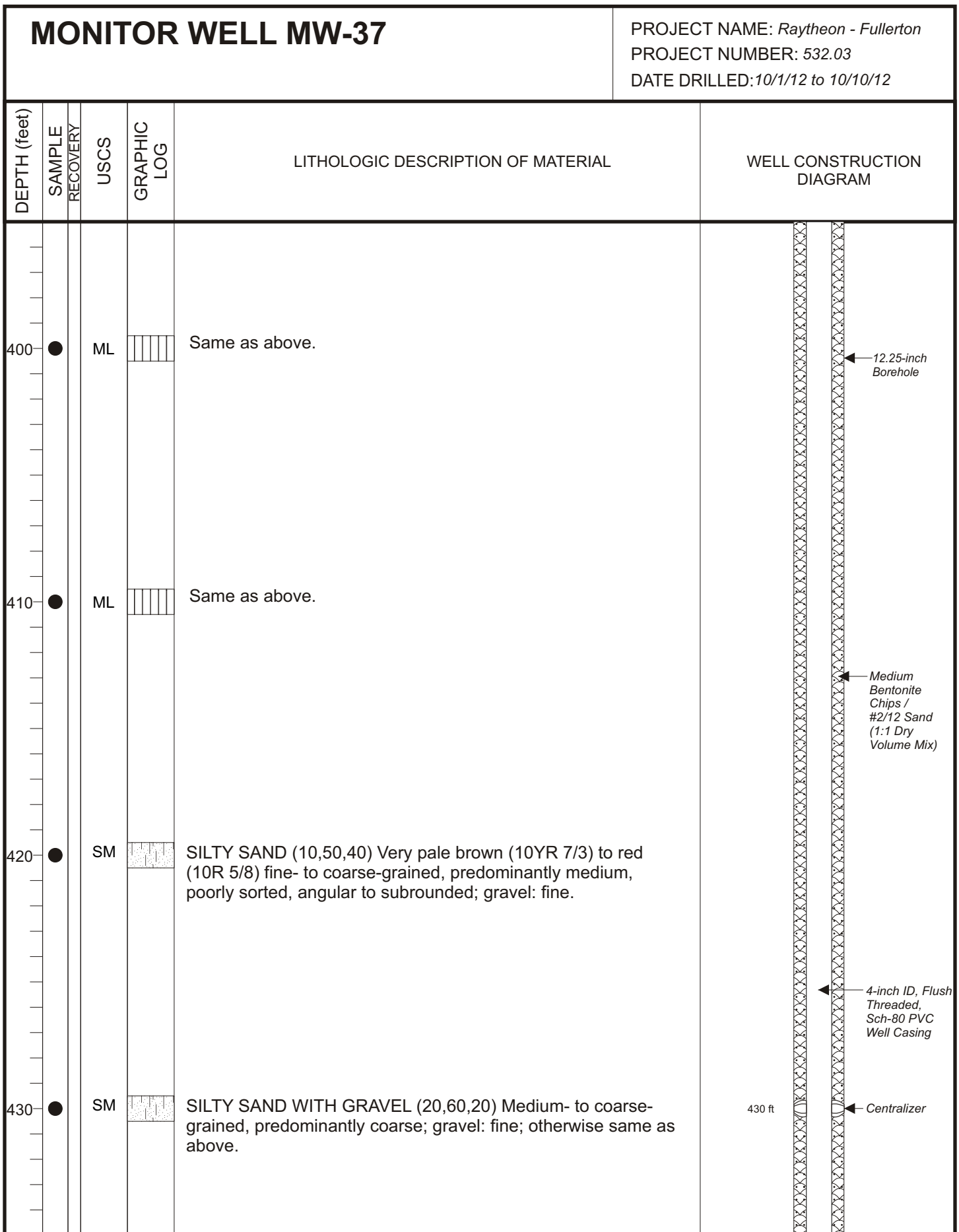


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

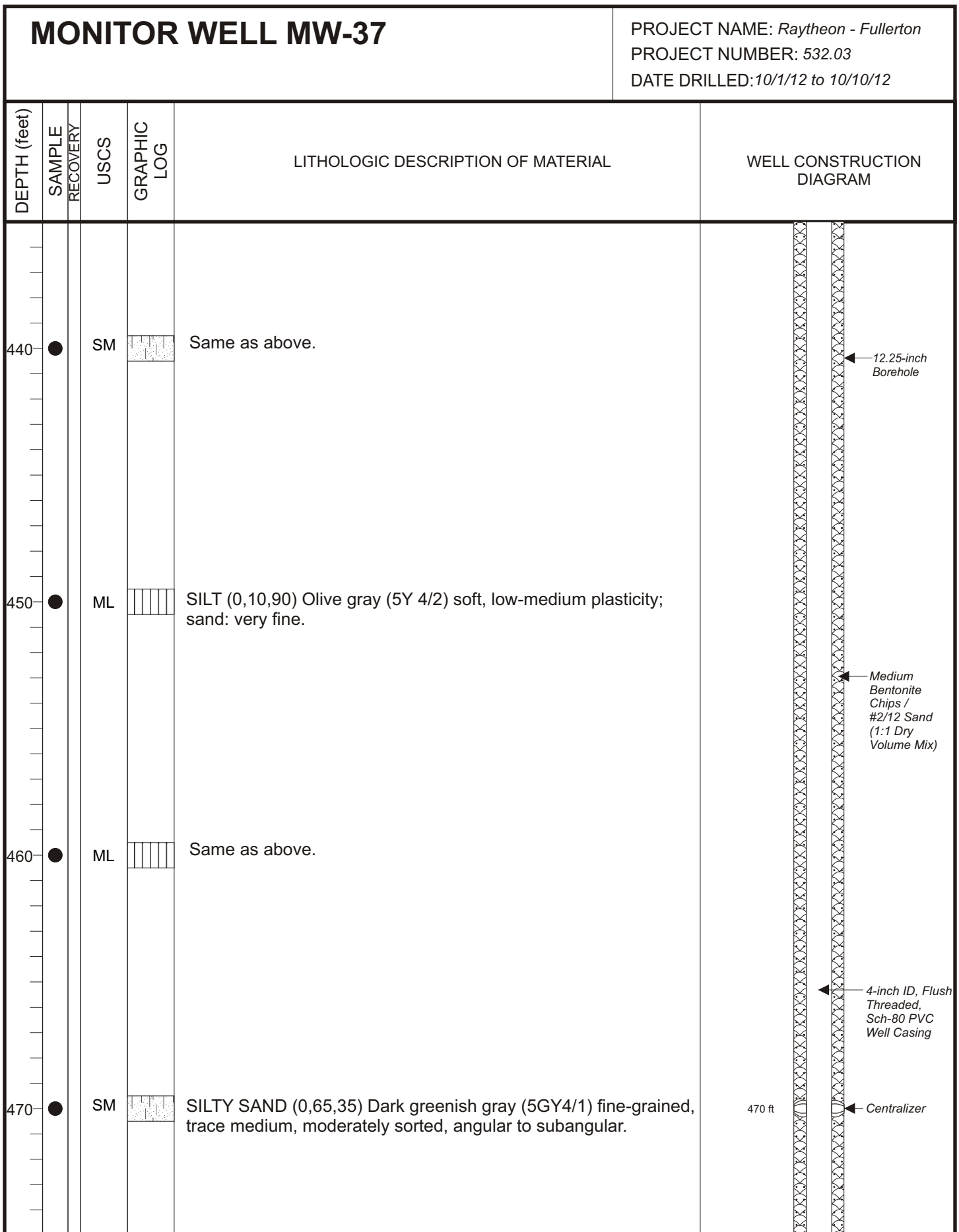


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

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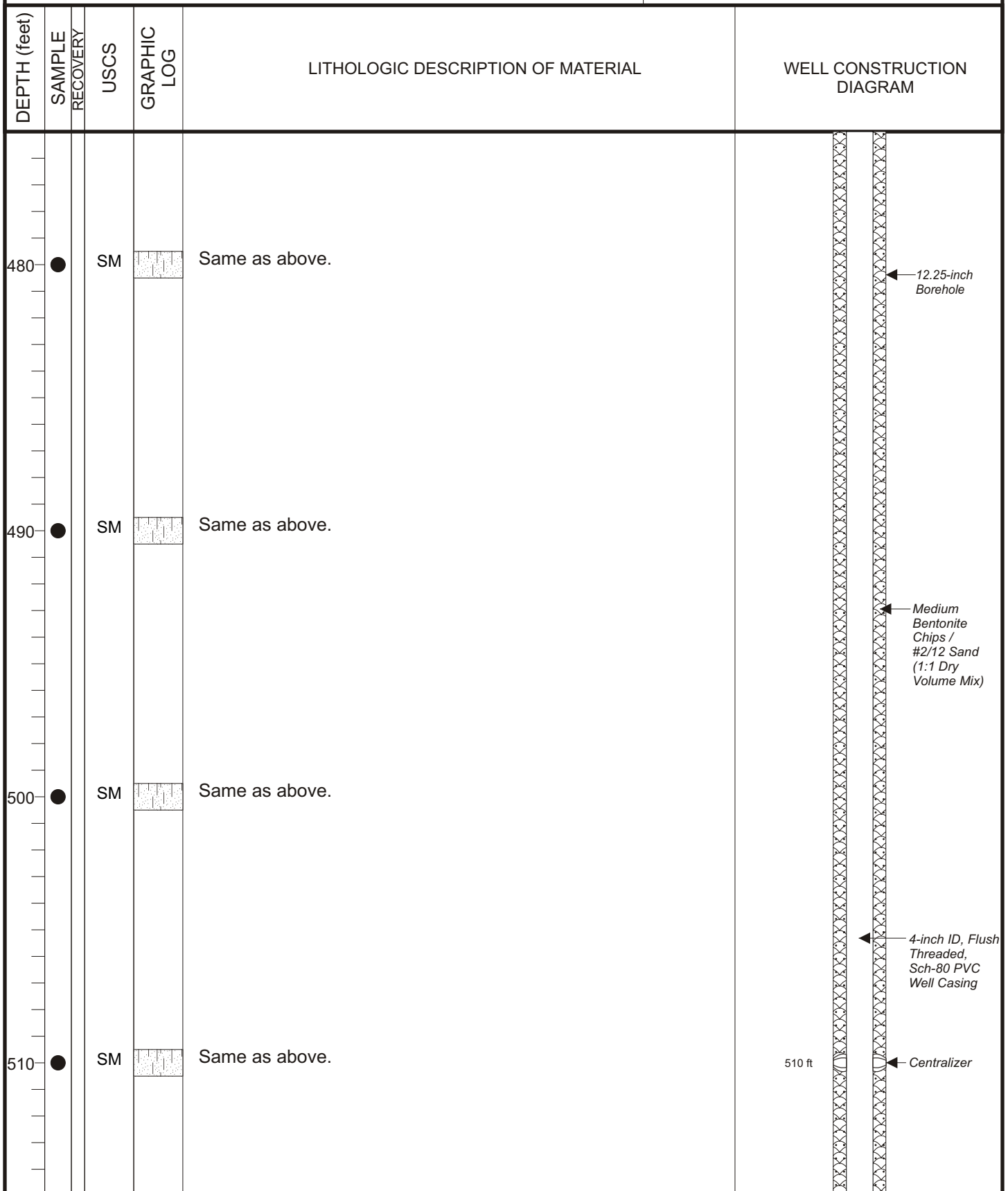


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

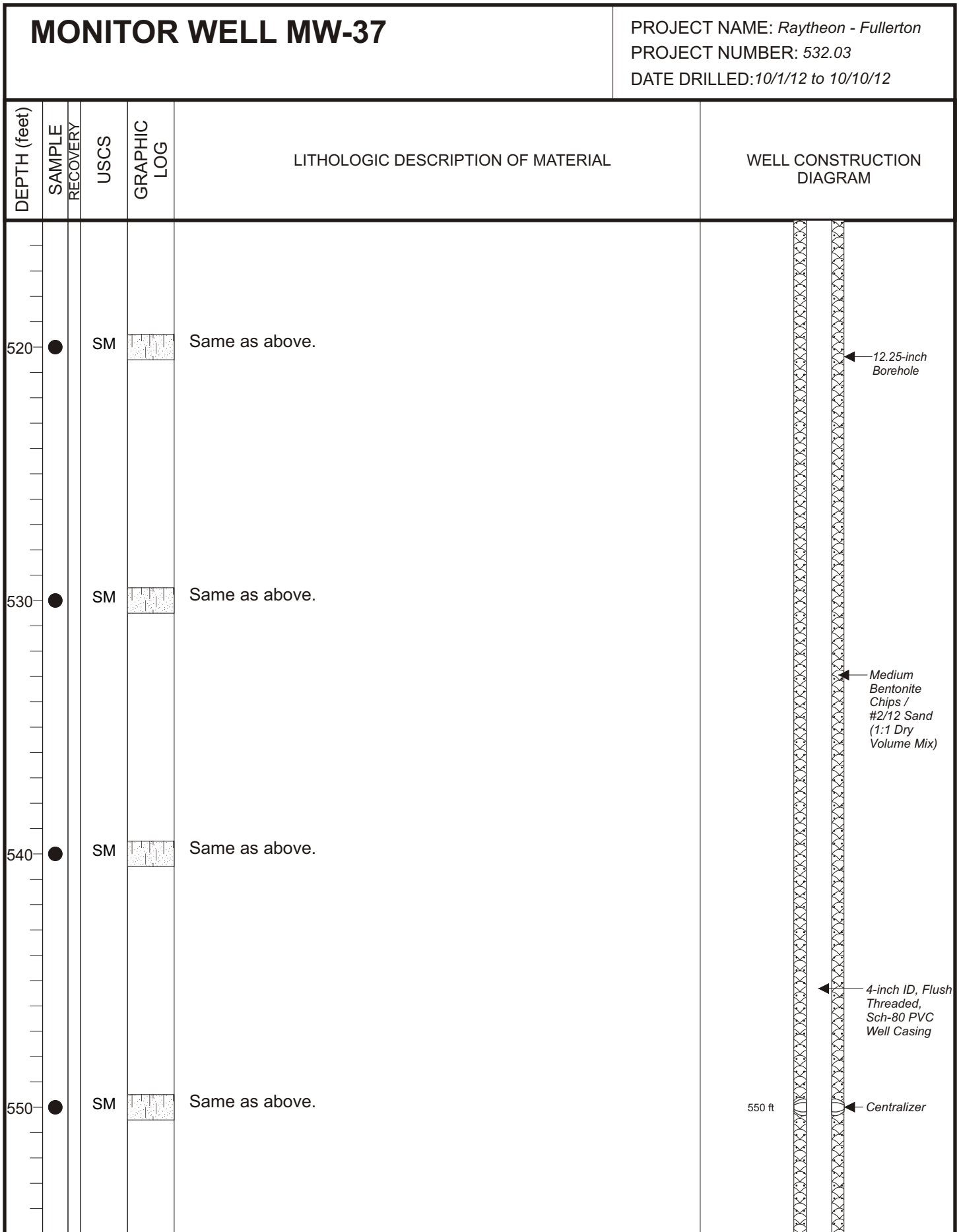


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

MONITOR WELL MW-37

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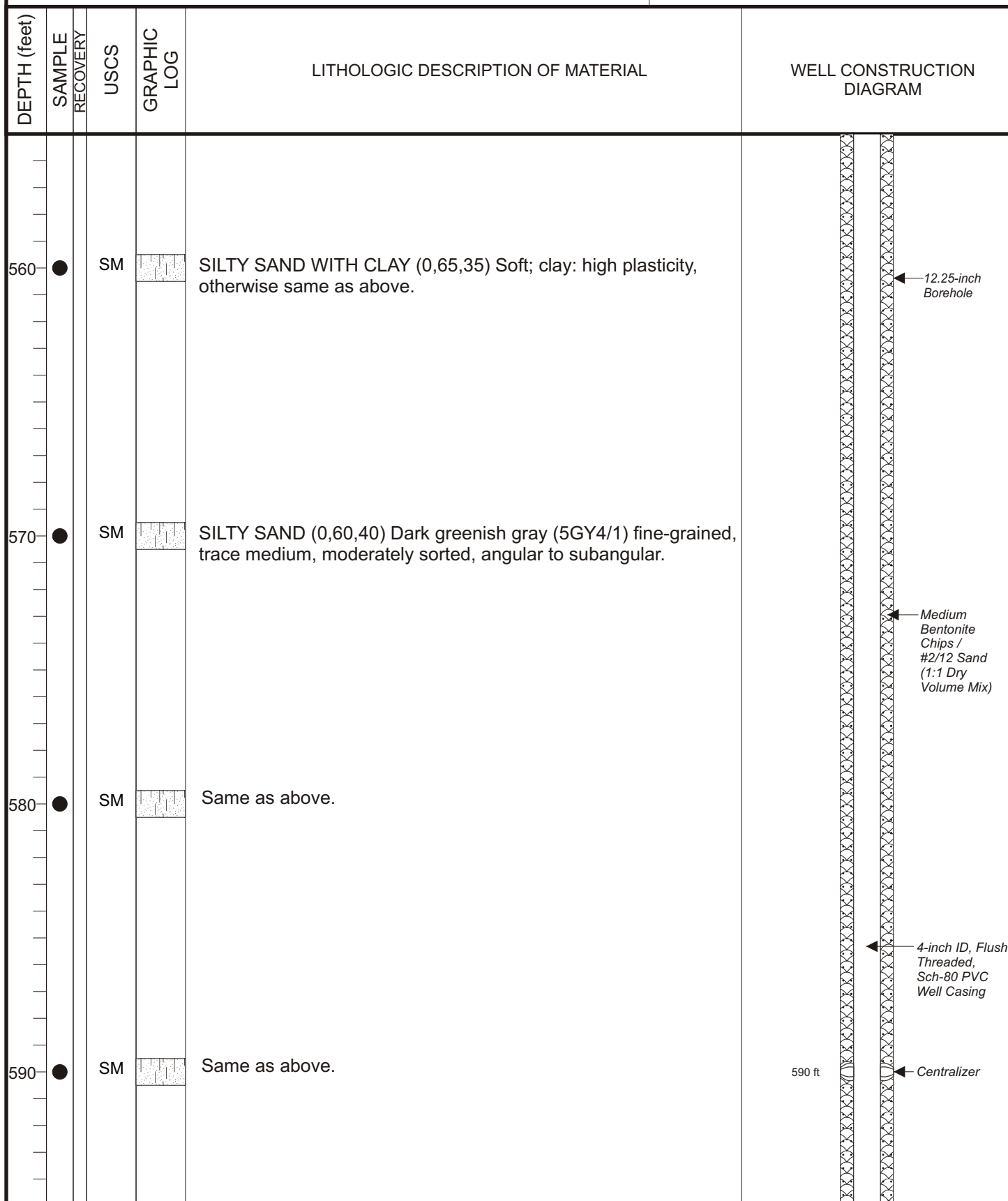


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

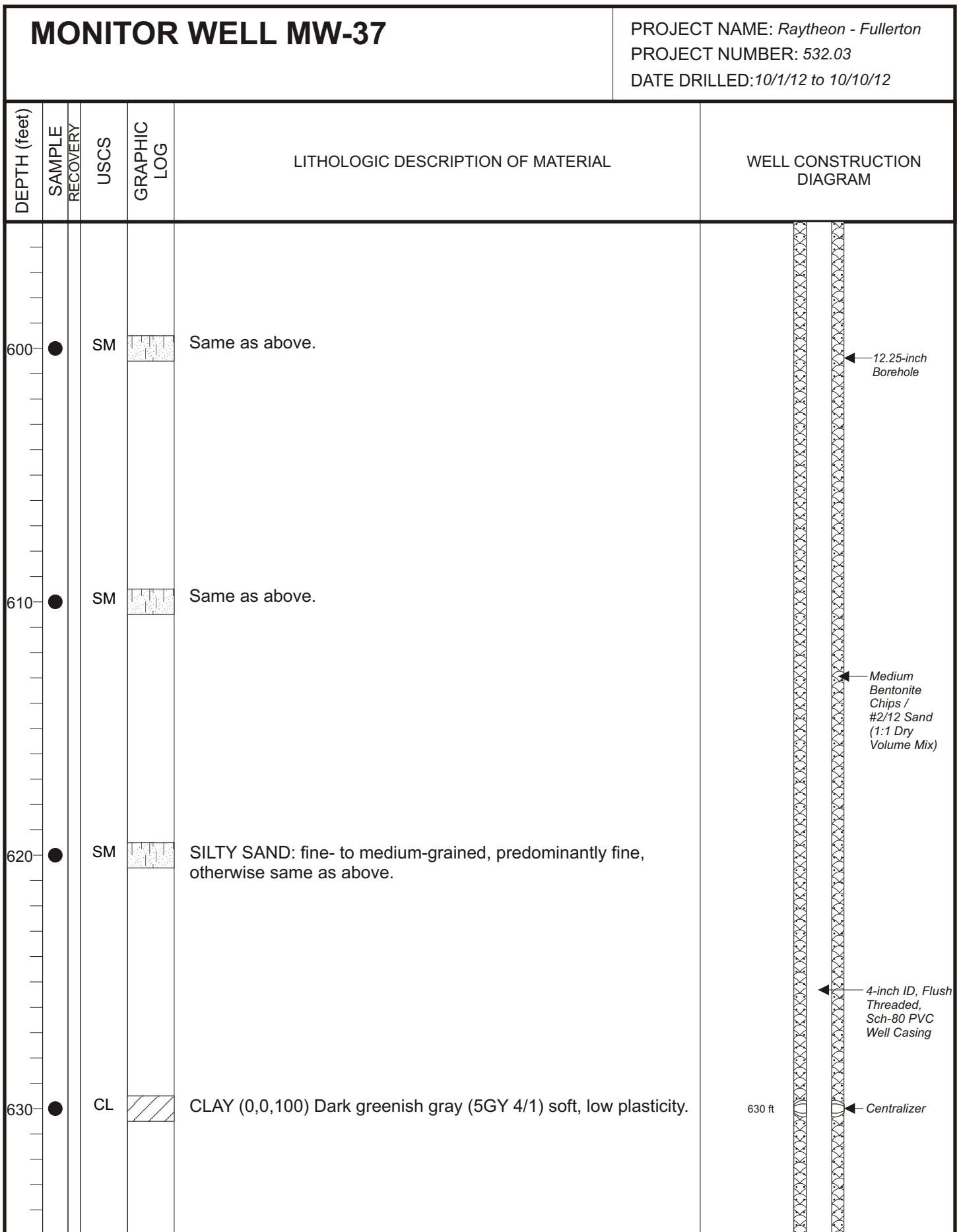


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

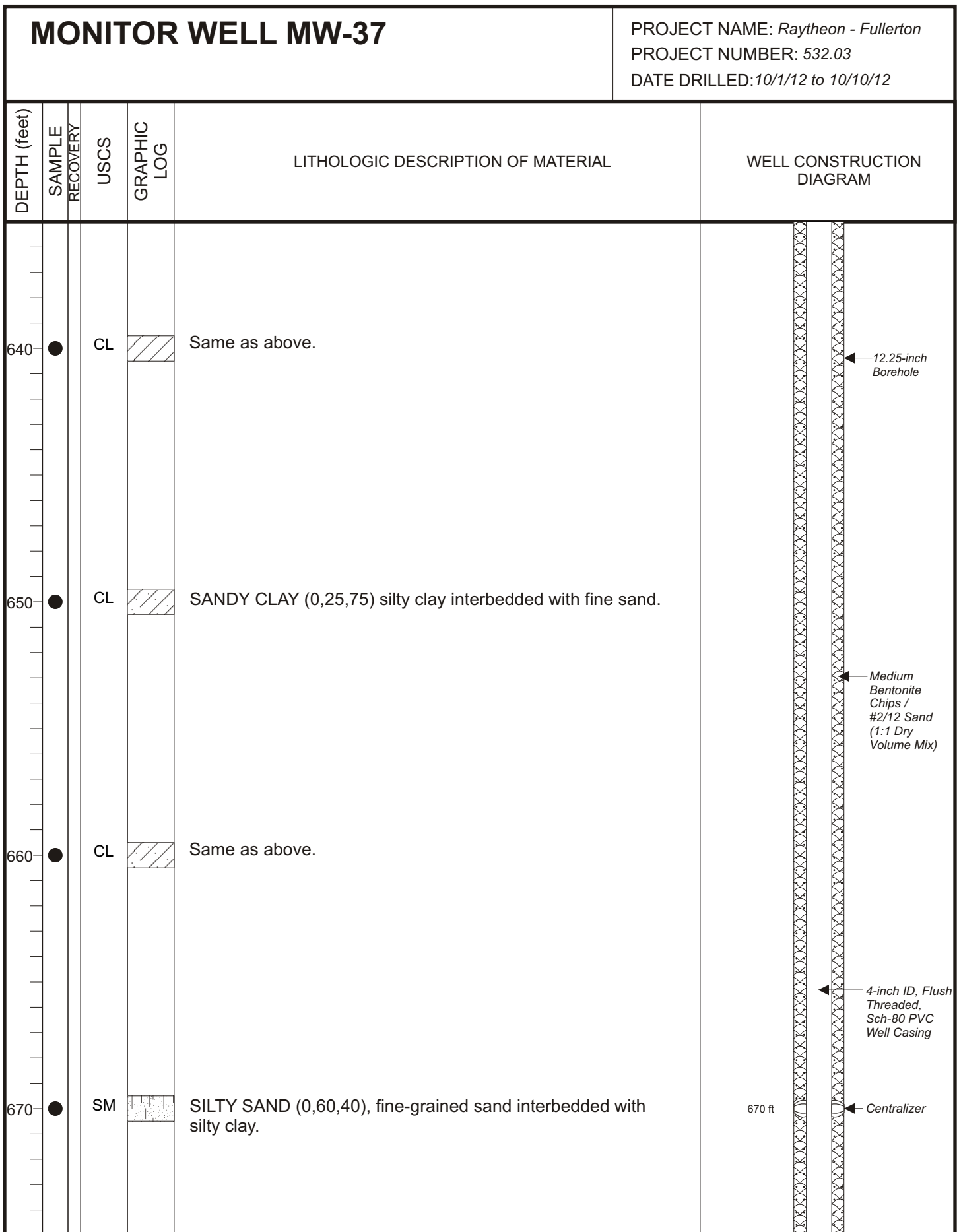


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

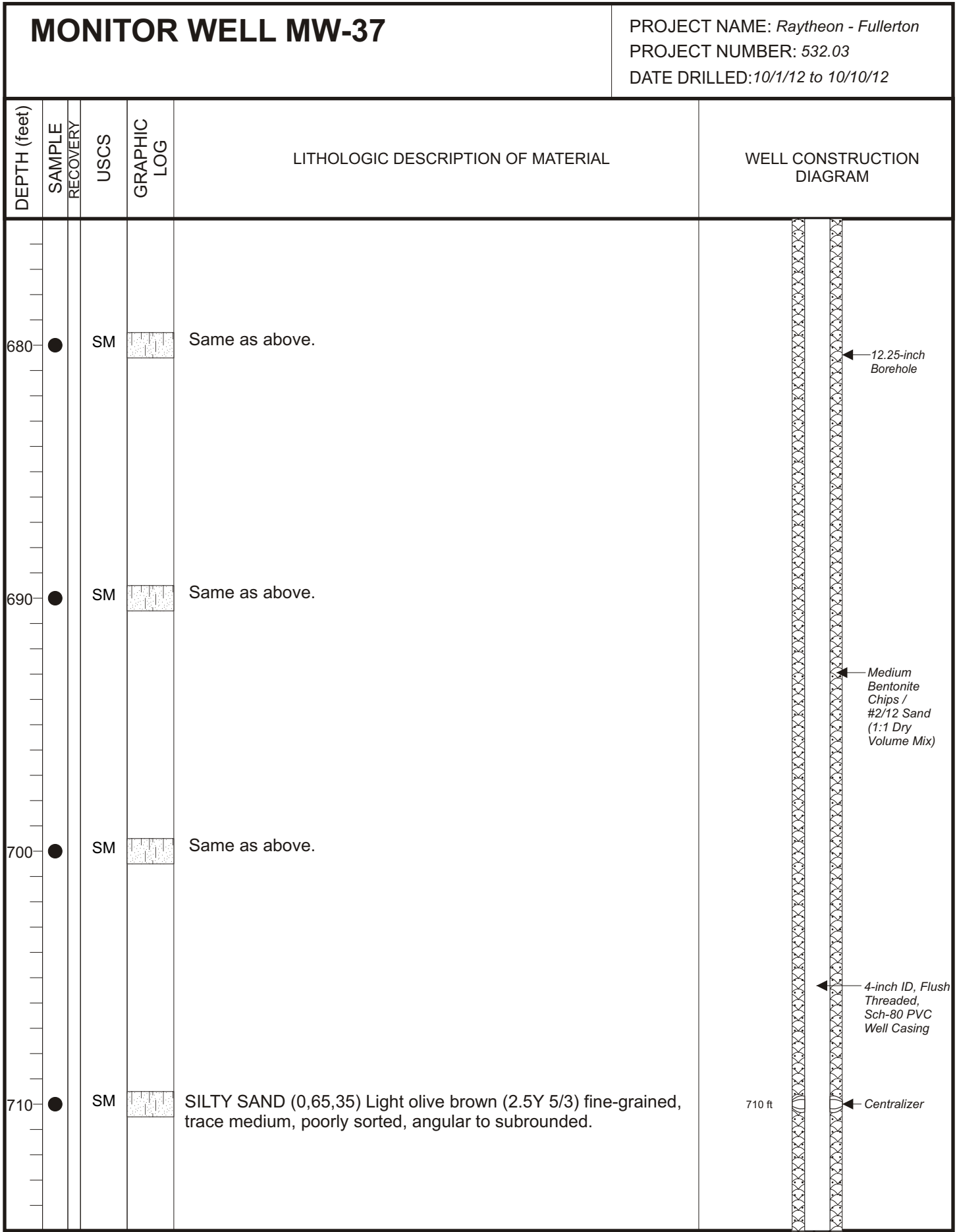


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

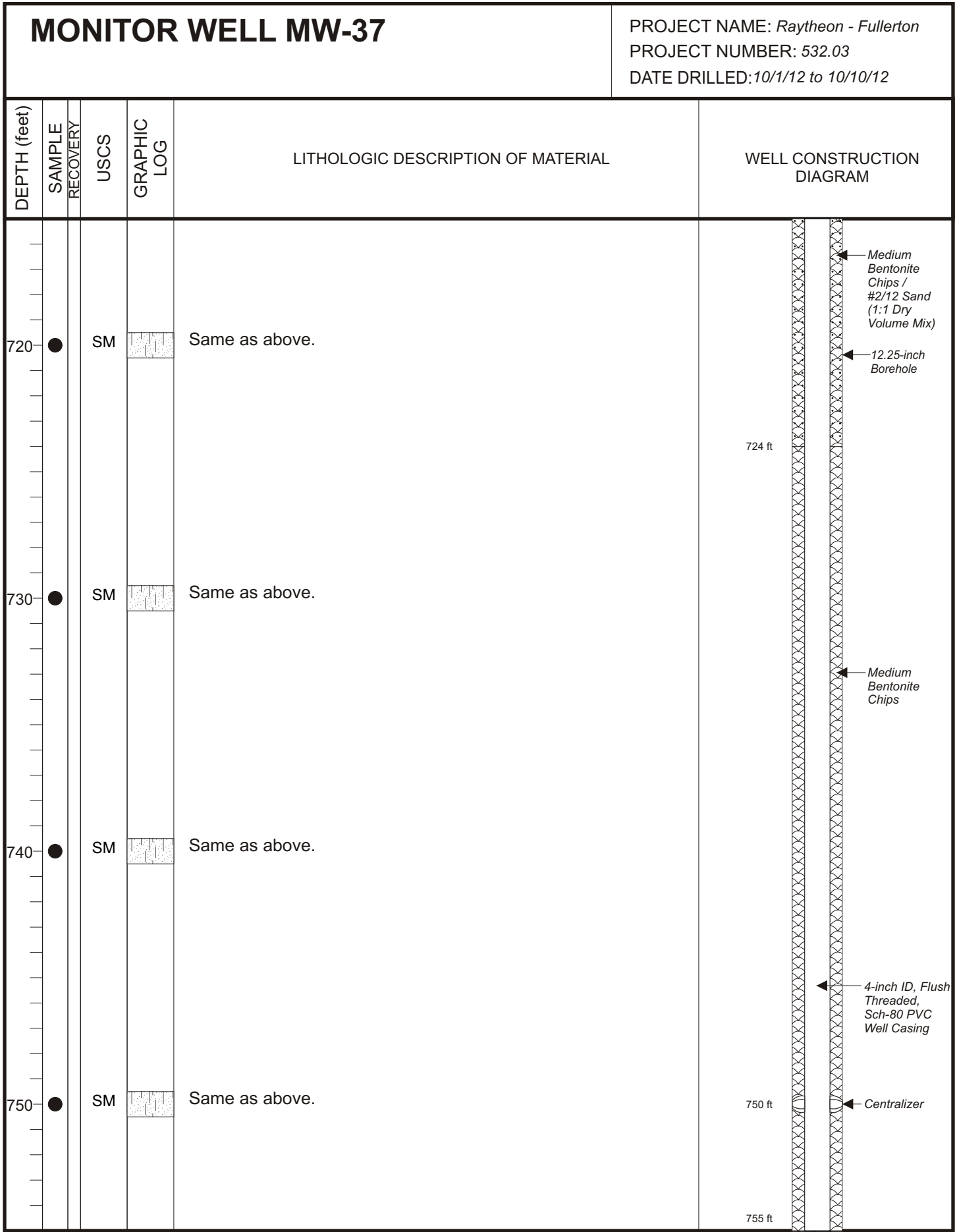


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PROJECT NAME: *Raytheon - Fullerton*

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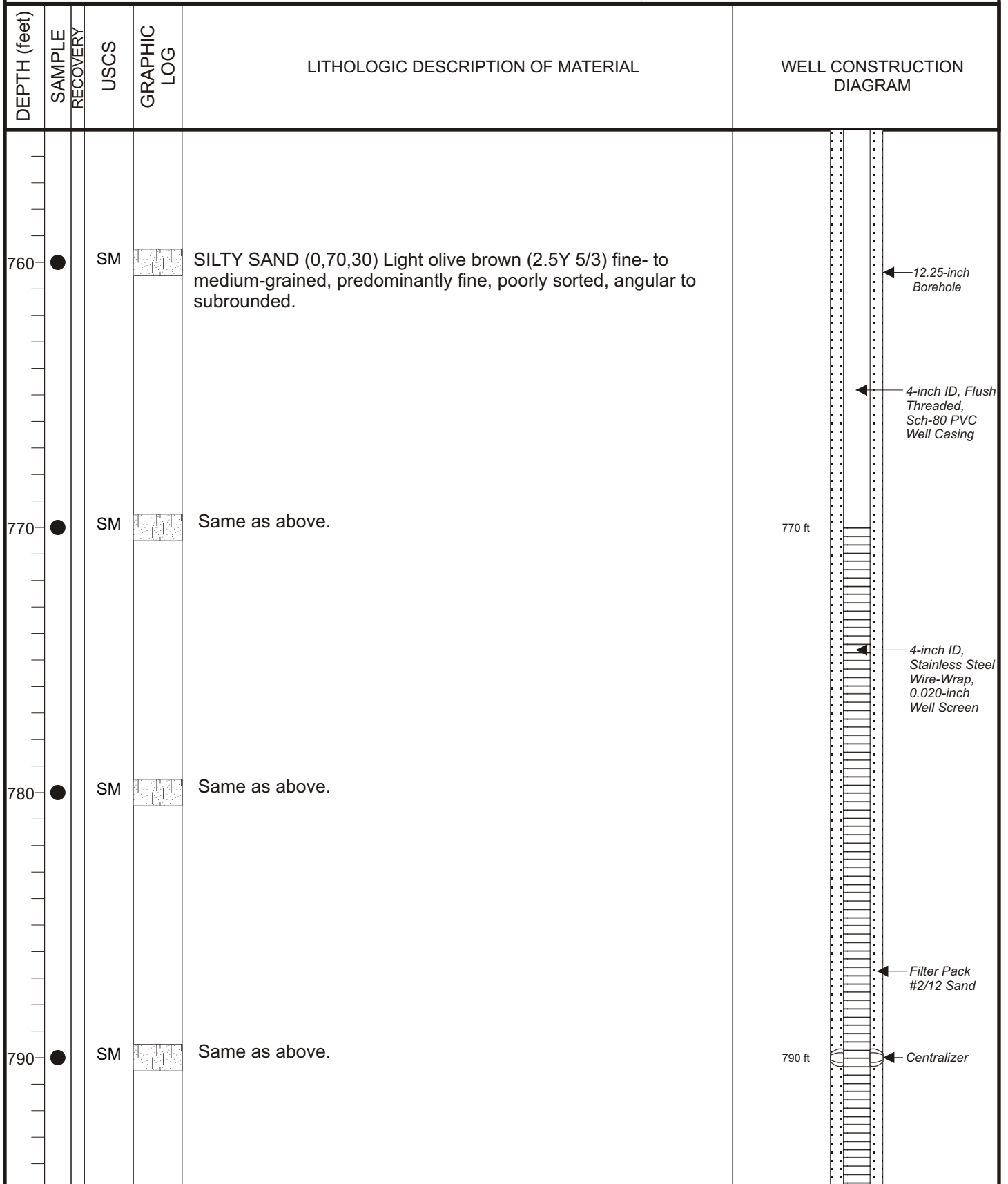


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

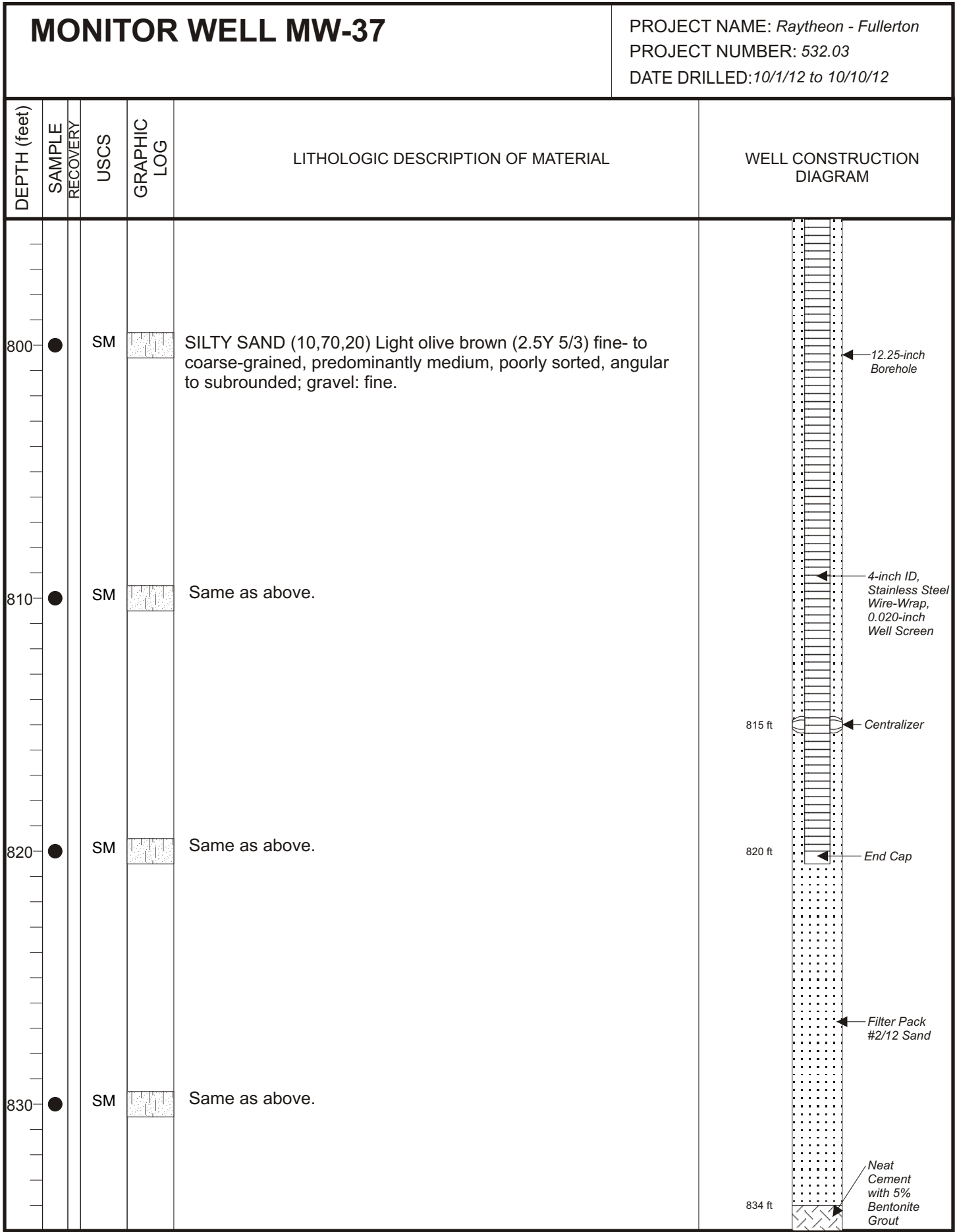


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

MONITOR WELL MW-37

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PROJECT NUMBER: 532.03

DATE DRILLED: 10/1/12 to 10/10/12

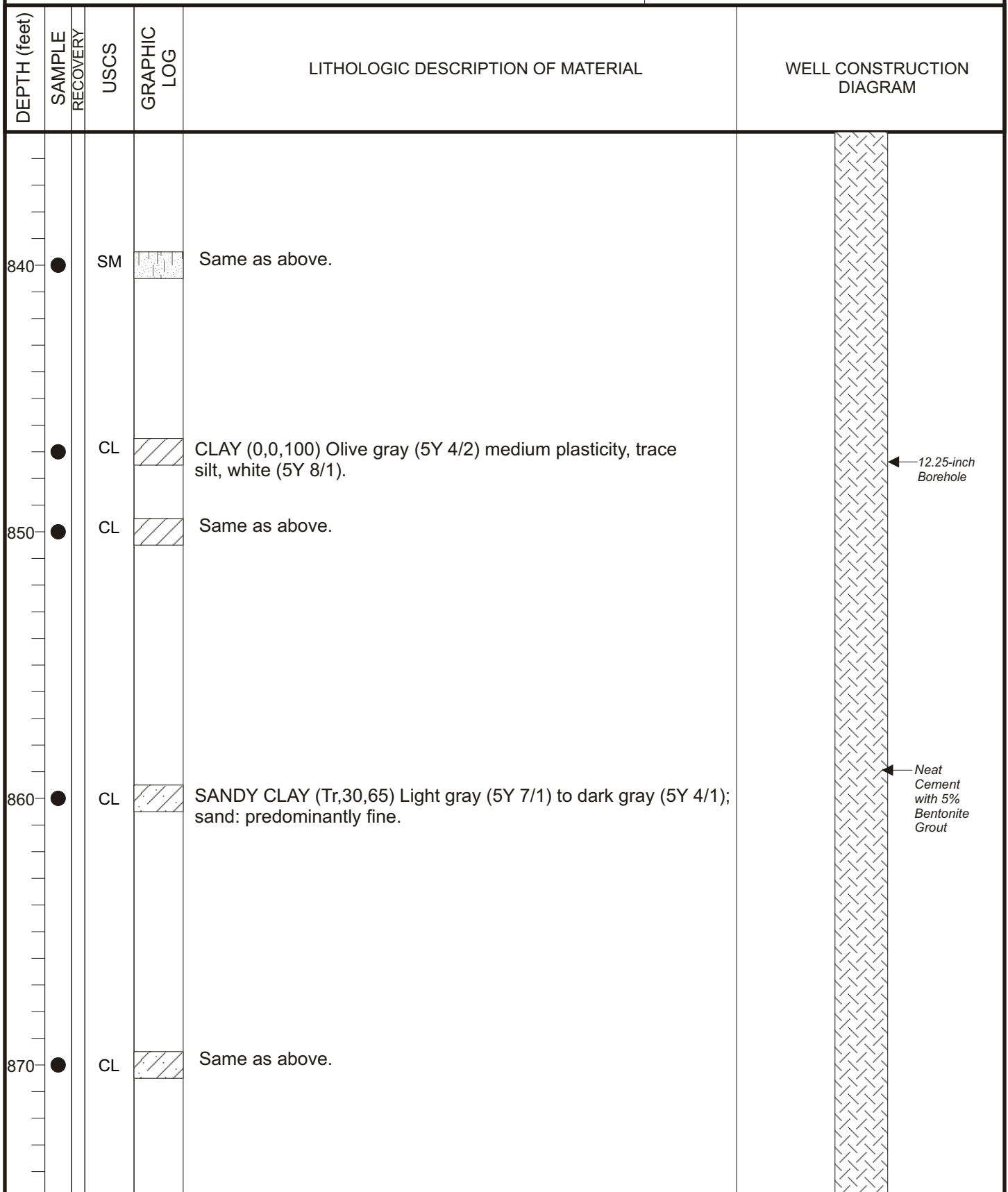


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

MONITOR WELL MW-37

PROJECT NAME: *Raytheon - Fullerton*

PROJECT NUMBER: 532.03

DATE DRILLED: 10/1/12 to 10/10/12

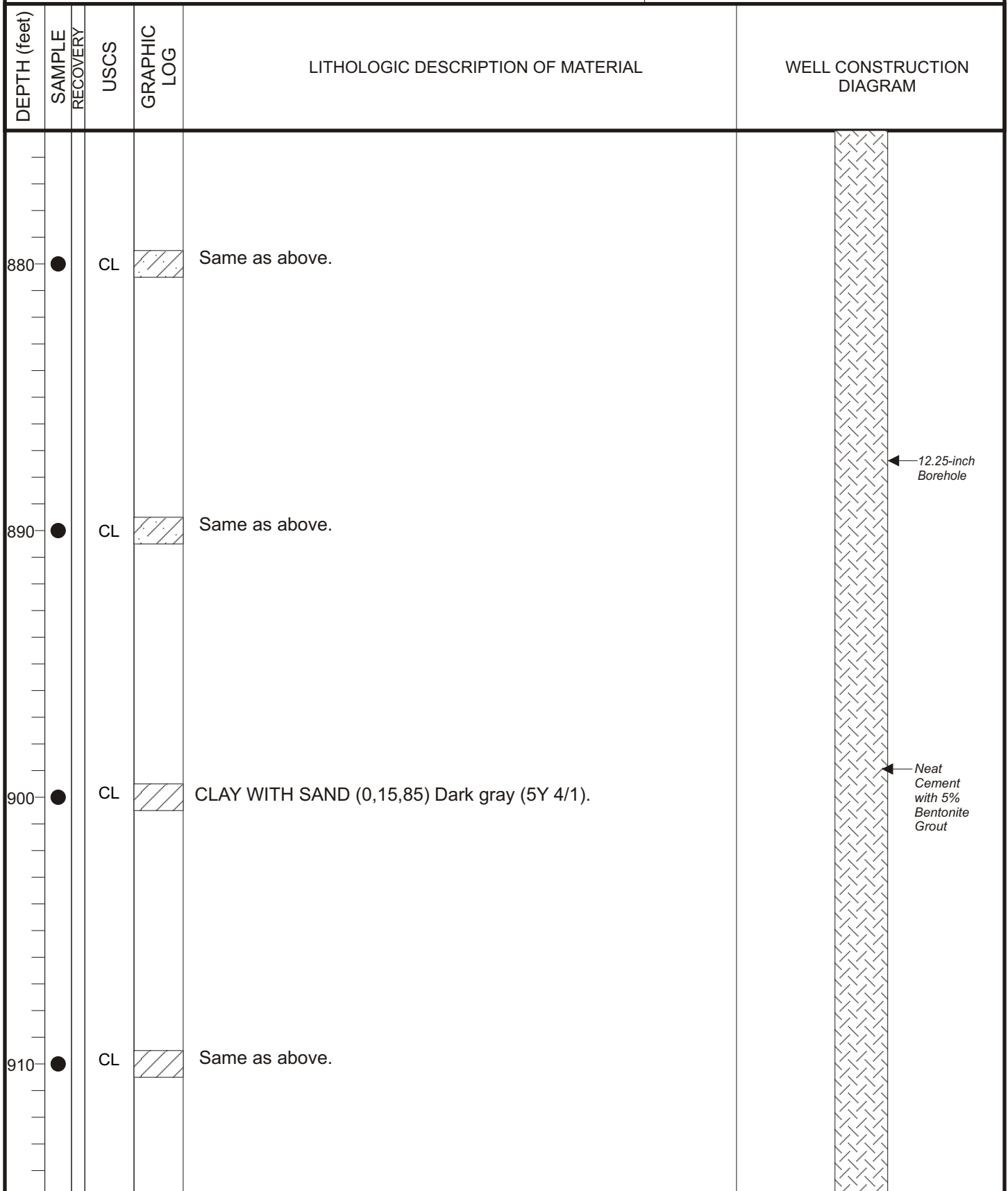


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37

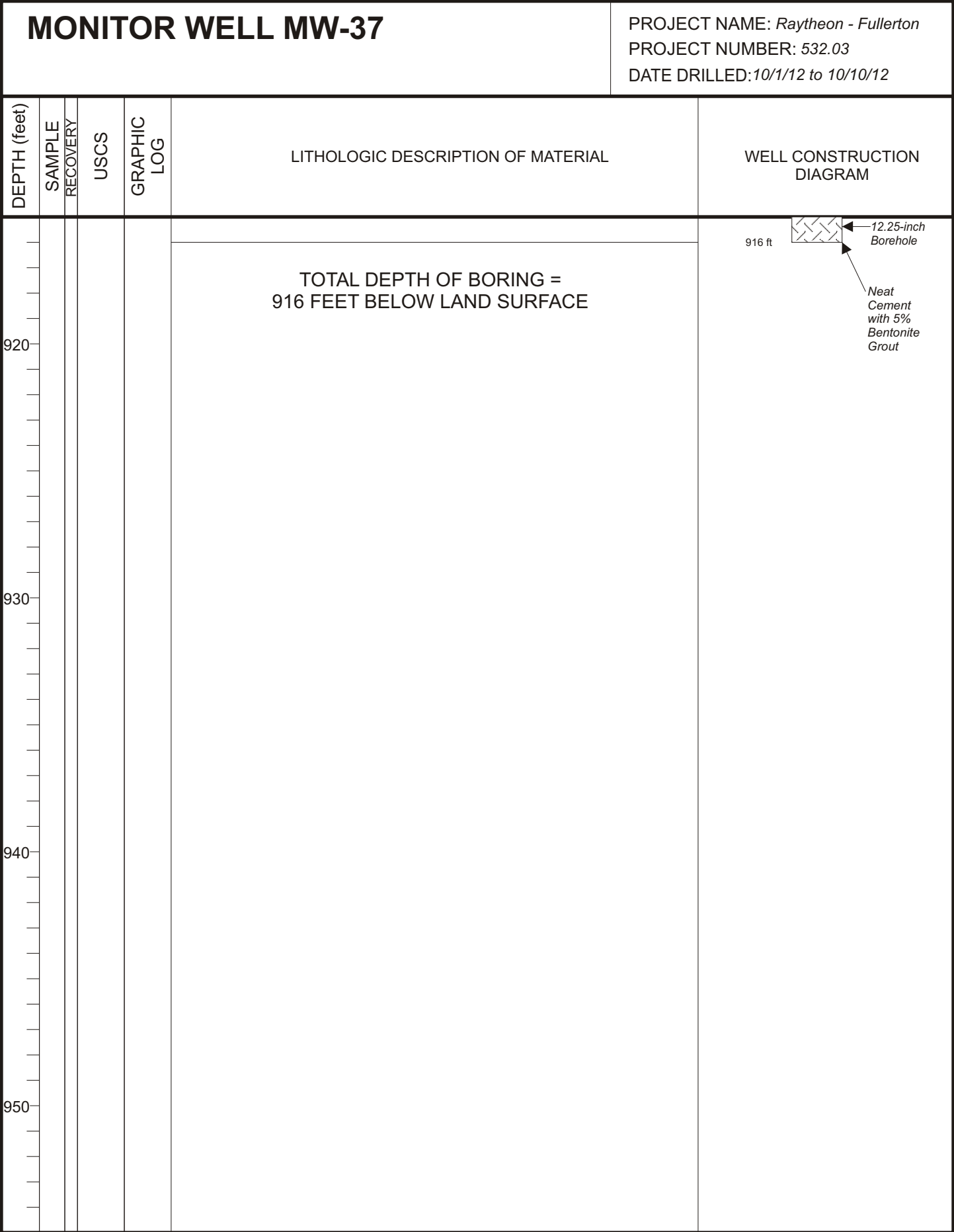


FIGURE B-3: LITHOLOGIC LOG FOR MONITOR WELL MW-37



HARGIS + ASSOCIATES, INC.

APPENDIX C

GEOPHYSICAL LOGS

PACIFIC SURVEYS

CALIPER BOREHOLE VOLUMES

Job No. 16297	Company HARGIS & ASSOCIATES	
Well MW-36		
Field BUENA PARK		
File No. County ORANGE	State CA	
Location: BRIDGEPORT AT MALVERN GPS: N33o 52.657' W117o 58.898'		Other Services: ELOG GR/L3
Sec. Twp. Rge.		
Permanent Datum Log Measured From Drilling Measured From	G.L. G.L. G.L.	Elevation above perm. datum K.B. D.F. G.L.
Date	12/20/2011	
Run Number	ONE	
Depth Driller	1029'	
Depth Logger	1027'	
Bottom Logged Interval	1027'	
Top Log Interval	40'	
Casing Driller	14" @ 40'	
Casing Logger	40'	
Bit Size	12.25"	
Type Fluid in Hole	BENTONITE	
Density / Viscosity	N/A	
pH / Fluid Loss	N/A	
Source of Sample	CIRC	
Rm @ Meas. Temp	5.4 @ 77F	
Rmf @ Meas. Temp	6.2 @ 77F	
Rmc @ Meas. Temp	N/A	
Source of Rmf / Rmc	MEASURE	
Rm @ BHT	N/A	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	11:15 AM	
Max. Recorded Temperature	N/A	
Equipment Number	PS-5	
Location	L.A.	
Recorded By	ABREAU	
Witnessed By	G. CRANHAM	

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Comments

Calibration Report

Database File: 16297.db
 Dataset Pathname: CAL
 Dataset Creation: Tue Dec 20 12:33:05 2011 by Log Open-Cased 100827

Temperature Calibration Report

Serial Number:
Tool Model:
Performed:

GRPH_SHORT
GRPH_CAL
Tue Jul 26 16:25:43 2011

Point #	Reading		Reference	
1	518.39	cps	2.00	degF
2	901.53	cps	4.00	degF
3	1093.48	cps	5.00	degF
4	1450.73	cps	7.00	degF
5	1822.41	cps	9.00	degF
6	2201.19	cps	11.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

XY Caliper Calibration Report

Serial Number/Model:
Performed:

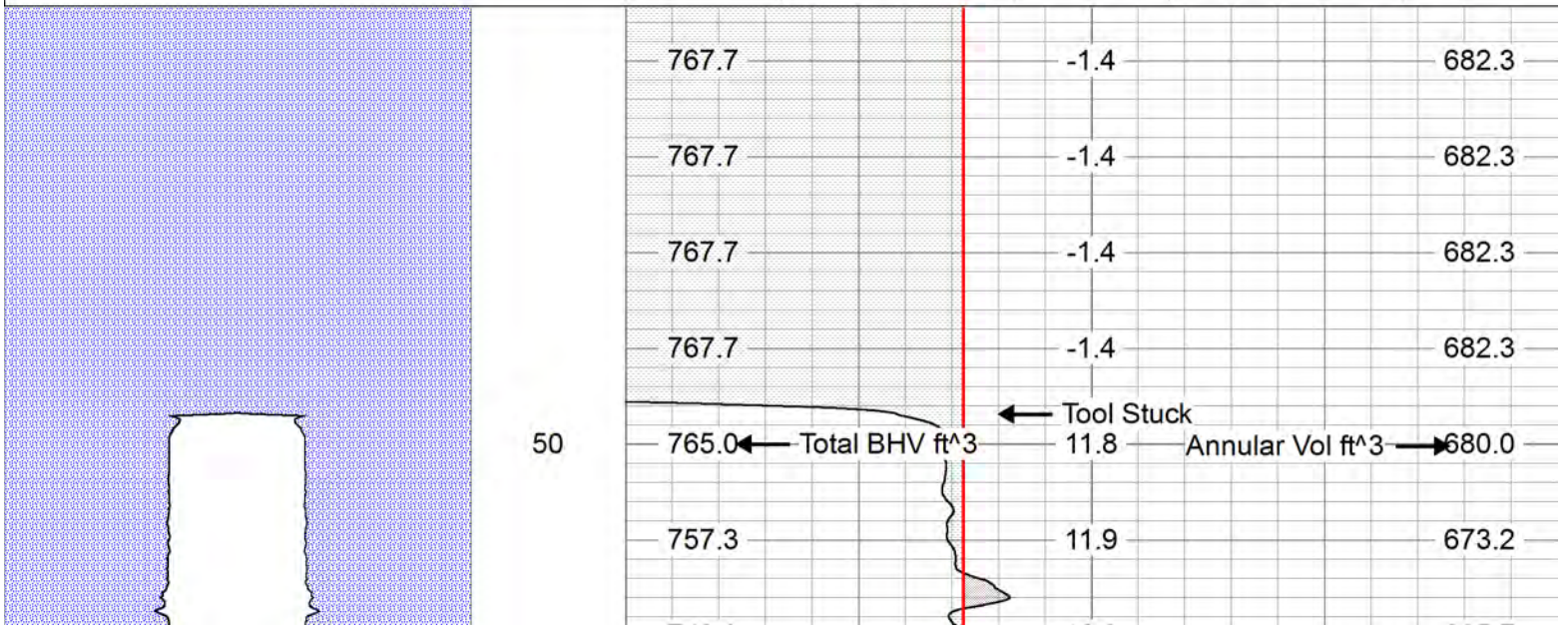
PS1_Short-Comprobe
Tue Jul 26 16:23:34 2011

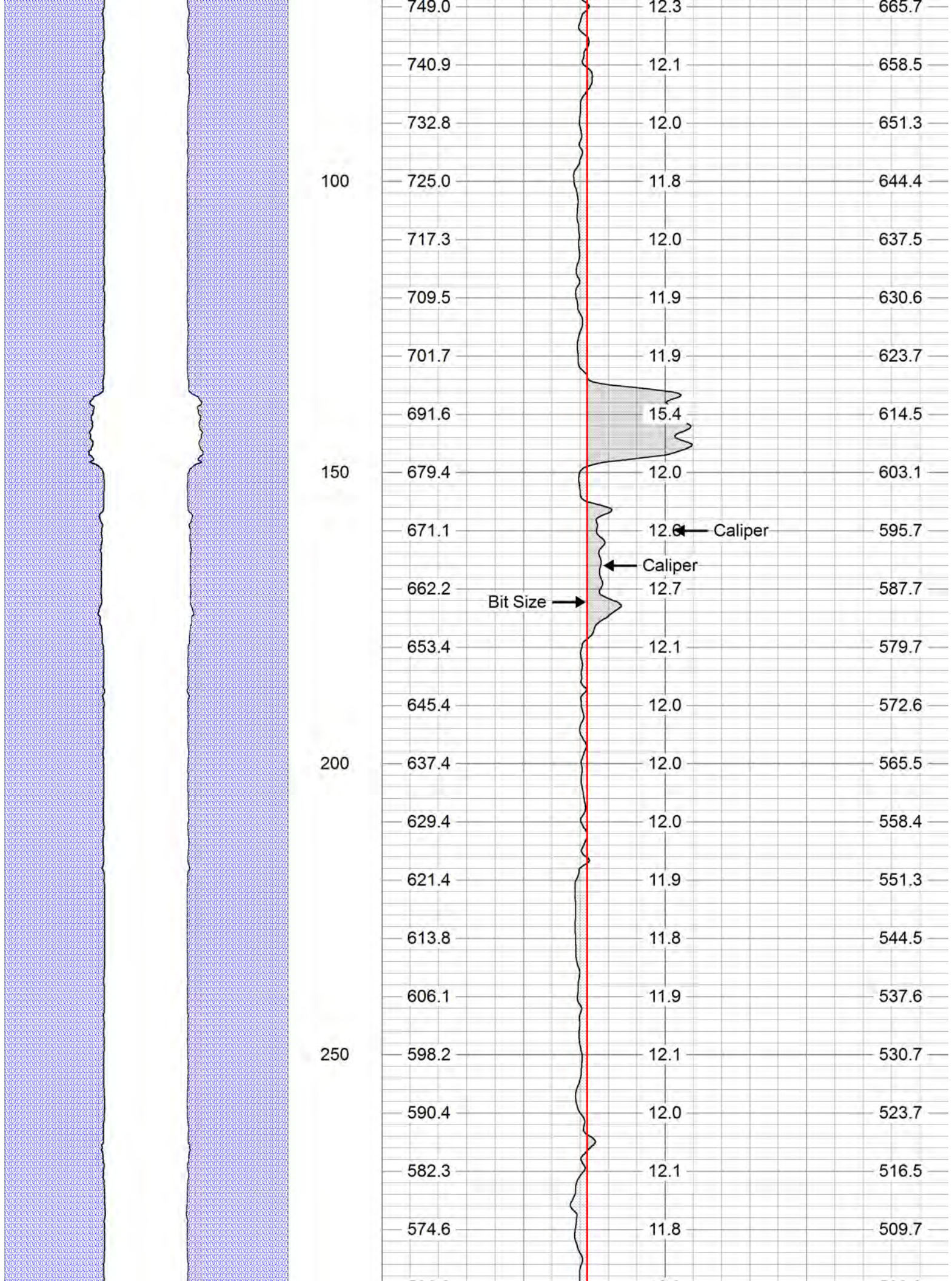
Ring	X Caliper	Y Caliper
1: 4 in	518.39 cps	518.39 cps
2: 8 in	901.528 cps	901.528 cps
3: 10 in	1093.48 cps	1093.48 cps
4: 14 in	1450.73 cps	1450.73 cps
5: 18 in	1822.41 cps	1822.41 cps
6: 22 in	2201.19 cps	2201.19 cps

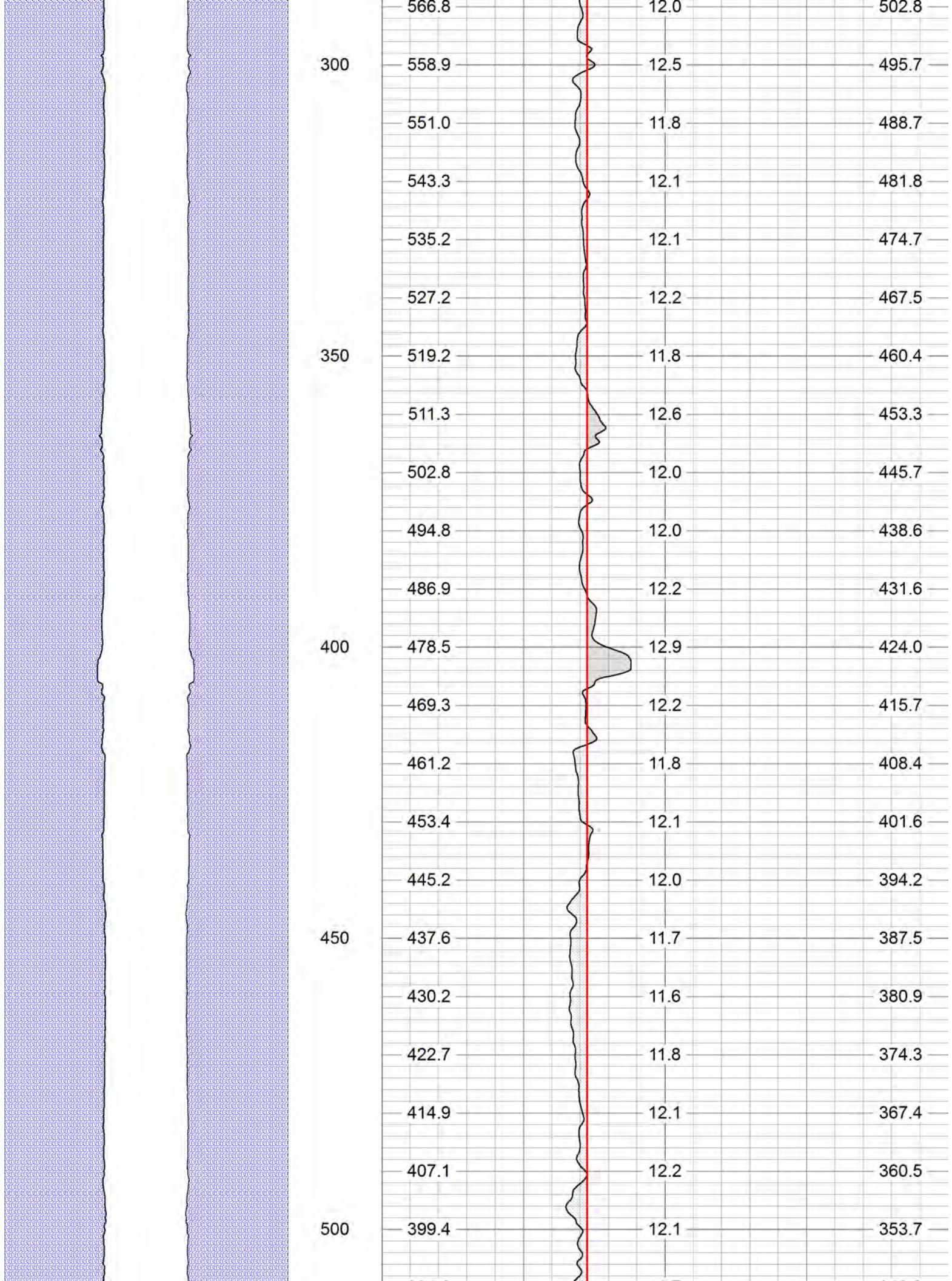
Database File: 16297.db
Dataset Pathname: CAL
Presentation Format: xyc_gph
Dataset Creation: Tue Dec 20 12:33:05 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

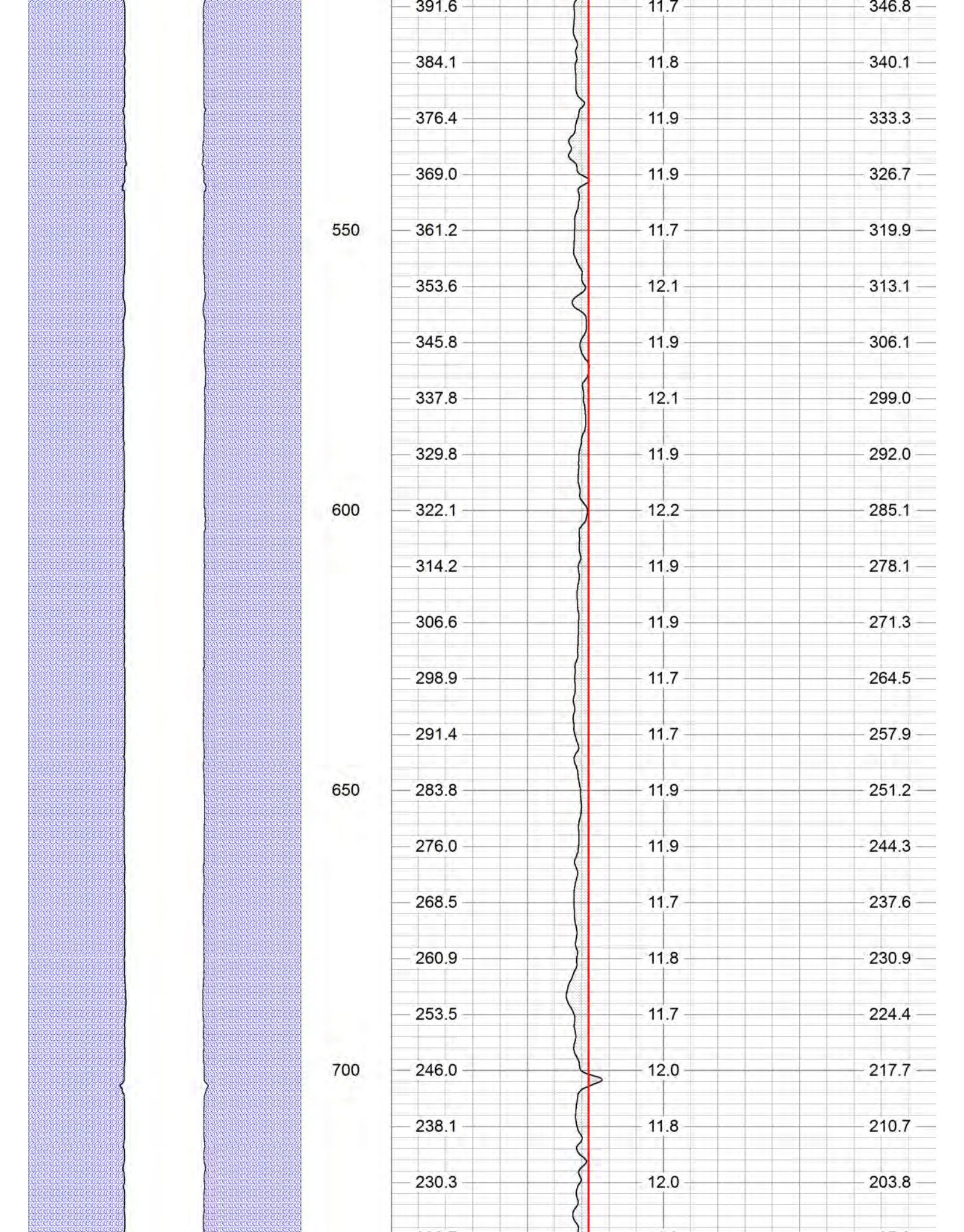
CSG SCHEDULE
Pipe(s) proportional to Hole Size

5	Caliper (in)	25
5	Bit Size (in)	25
Total BHV ft^3 (ft3)	Caliper (in)	Annular Vol ft^3 (ft3)

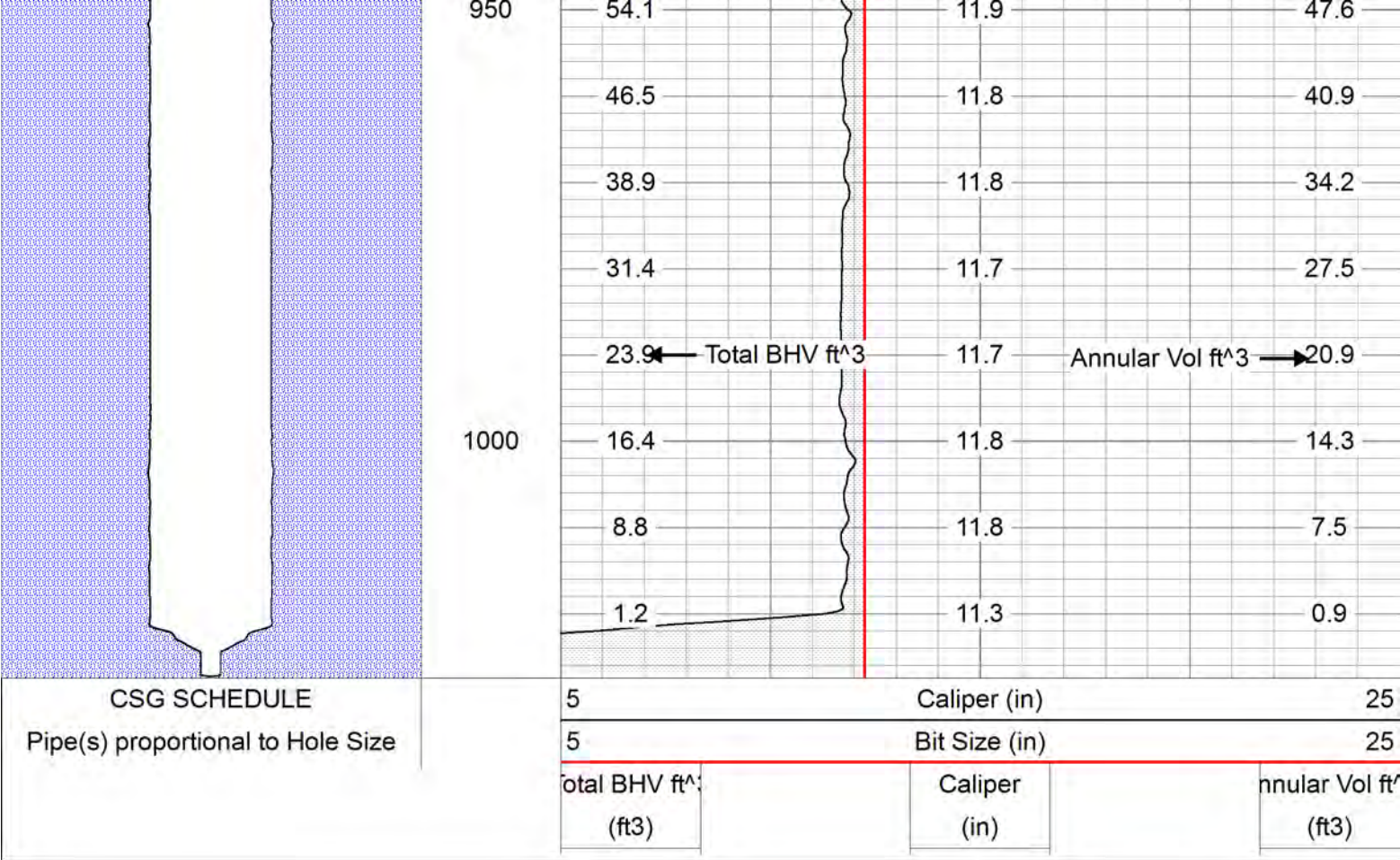












PACIFIC SURVEYS

ELECTRIC LOG LATEROLOG 3 GAMMA-RAY

Job No. 16297	Company HARGIS & ASSOCIATES	
Well MW-36	Field BUENA PARK	
File No.	County ORANGE	State CA
Location: BRIDGEPORT AT MALVERN GPS: N33o 52.657' W117o 58.898'		Other Services: GRILL3 CALIPER
Sec.	Twp.	Rge.
Permanent Datum Log Measured From Drilling Measured From	G.L. G.L. G.L.	Elevation above perm. datum K.B. D.F. G.L.
Date	12/20/2011	
Run Number	ONE	
Depth Driller	1029'	
Depth Logger	1027'	
Bottom Logged Interval	1027'	
Top Log Interval	40'	
Casing Driller	14" @ 40'	
Casing Logger	40'	
Bit Size	12.25"	
Type Fluid in Hole	BENTONITE	
Density / Viscosity	N/A	
pH / Fluid Loss	N/A	
Source of Sample	CIRC	
Rm @ Meas. Temp	5.4 @ 77F	
Rmf @ Meas. Temp	6.2 @ 77F	
Rmc @ Meas. Temp	N/A	
Source of Rmf / Rmc	MEASURE	
Rm @ BHT	N/A	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	11:15 AM	
Max. Recorded Temperature	N/A	
Equipment Number	PS-5	
Location	L.A.	
Recorded By	ABREAU	
Witnessed By	G. CRANHAM	

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Comments

Calibration Report

Database File: 16297.db
 Dataset Pathname: elog
 Dataset Creation: Tue Dec 20 11:09:31 2011 by Log Open-Cased 100827

ELOG Calibration Report

Serial:
Model:D1
DTQShop Calibration Performed:
Before Survey Verification Performed:
After Survey Verification Performed:Fri Sep 02 10:21:35 2011
Wed May 18 15:44:28 2011
Wed May 18 15:45:08 2011

Shop Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	8.723	99.406		10.200	102.200	Ohm-m	1.015	1.350
Long	7.680	96.048		10.200	102.200	Ohm-m	1.041	-17.600
IEE	52.920	3270.320	counts	0.058	3.579	A		
VSN	49.080	5373.320	counts	0.936	102.490	V		
VLN	204.820	45711.480	counts	3.907	871.891	V		

Before Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	80.215	146.194		82.548	146.243	Ohm-m	0.965	5.112
Long	1342.350	4974.190		4976.440	4976.440	Ohm-m	0.991	47.934
IEE	54.260	3251.500	counts	0.059	3.558	A		
VSN	48.900	5340.600	counts	0.933	101.865	V		
VLN	204.580	45427.860	counts	3.902	866.481	V		

After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	79.445	146.186		80.215	146.194	Ohm-m	0.989	1.677
Long	1341.850	4973.840		4974.190	4974.190	Ohm-m	1.000	0.554
IEE	54.360	3249.300	counts	0.059	3.556	A		
VSN	48.520	5336.700	counts	0.925	101.791	V		
VLN	204.880	45393.900	counts	3.908	865.833	V		

After Survey Verification compared to Before Survey Calibration

	Zero			Cal		
	Before	After		Before	After	
Short	82.548	80.215	Ohm-m	146.243	146.194	Ohm-m
Long	1377.960	1342.350	Ohm-m	4976.440	4974.190	Ohm-m

Gamma Ray Calibration Report

Serial Number:
Tool Model:
Performed:D4
ELOG
Sat Apr 09 12:21:07 2011

Calibrator Value:

162.0 GAPI

Background Reading:

212.4 cps

Calibrator Reading:

707.5 cps

Sensitivity:

0.3272

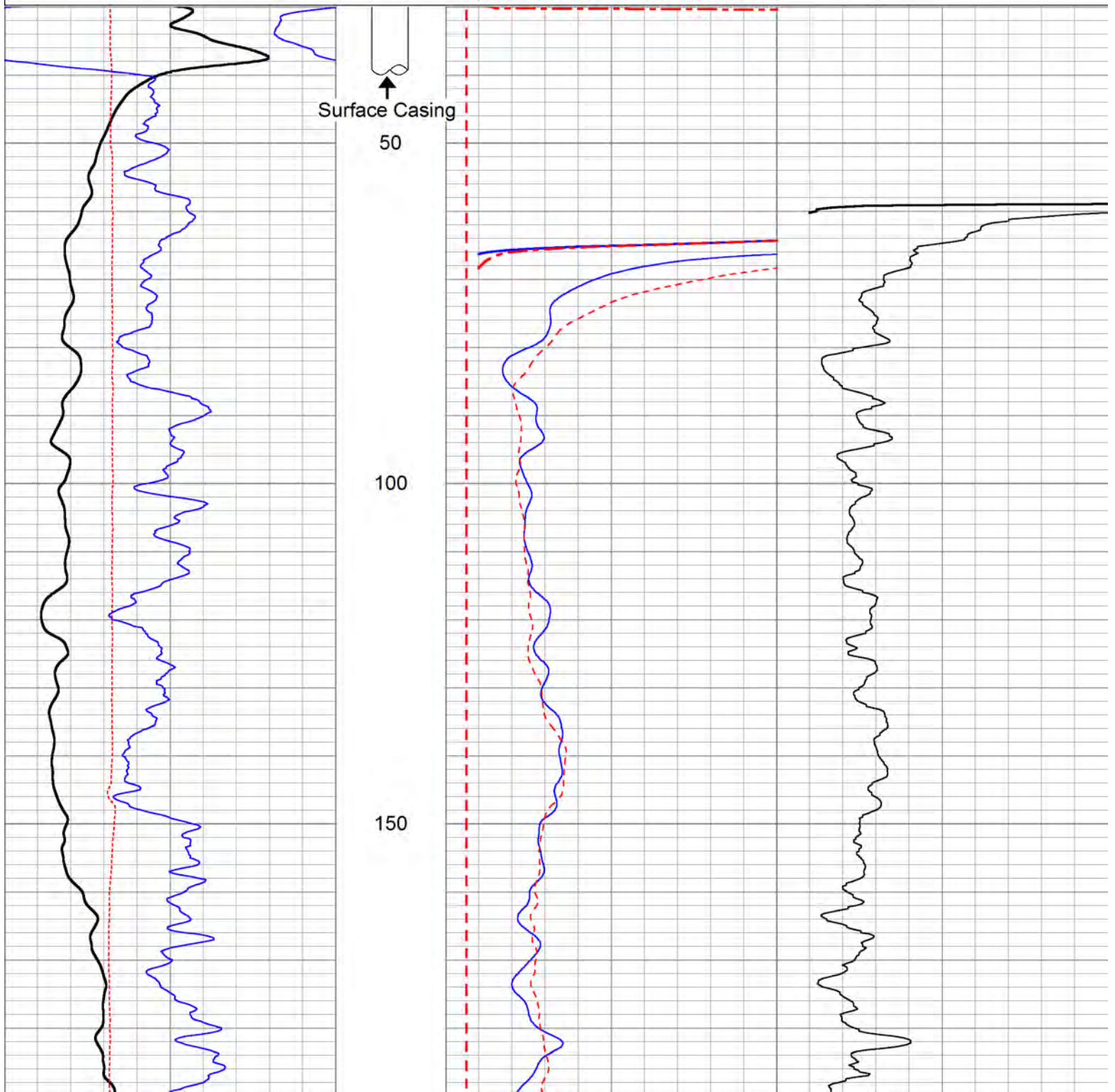
GAPI/cps

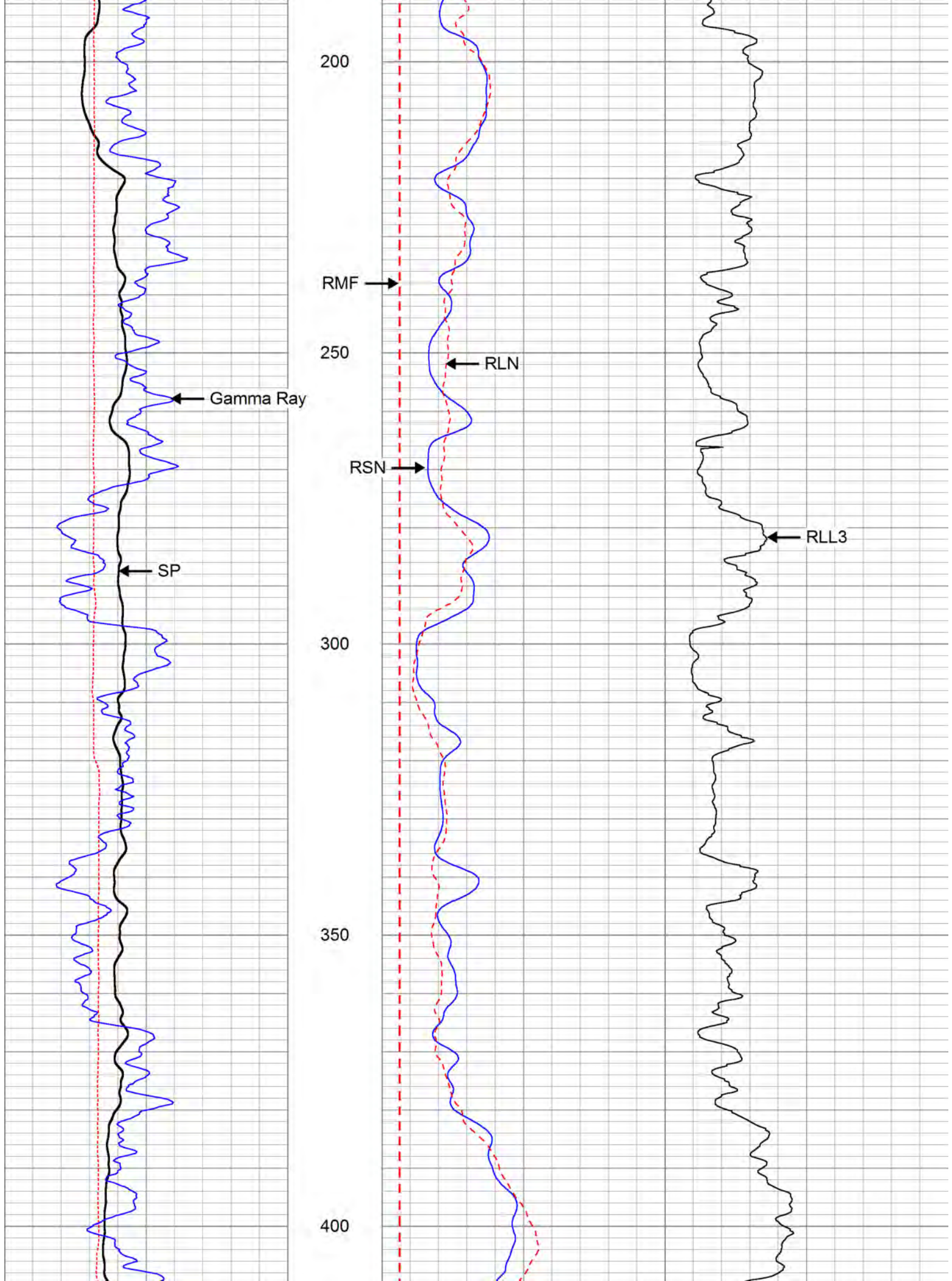
Database File: 16297.db
Dataset Pathname: elog
Presentation Format: elog
Dataset Creation: Tue Dec 20 11:09:31 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

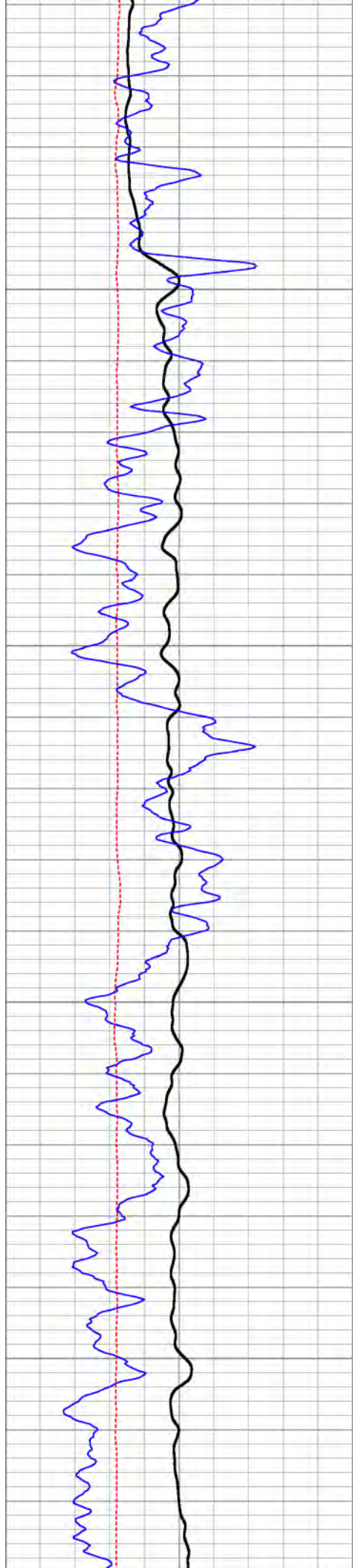
-70	SP (mV)	30
0	Line Speed (ft/min)	-100
40	Gamma Ray (GAPI)	140

0	RSN (Ohm-m)	100
0	RLN (Ohm-m)	100
0	RMF (Ohm-m)	100
100	RSN x 10 (Ohm-m)	1000
100	RLN x 10 (Ohm-m)	1000

0	RLL3 (Ohm-m)	100
100	RLL3 (Ohm-m)	1000







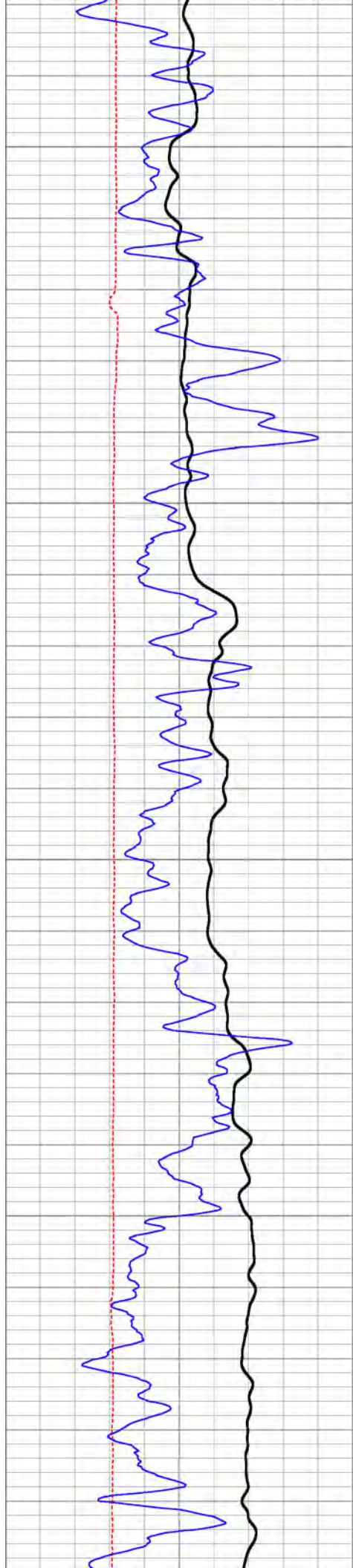
450

500

550

600





650

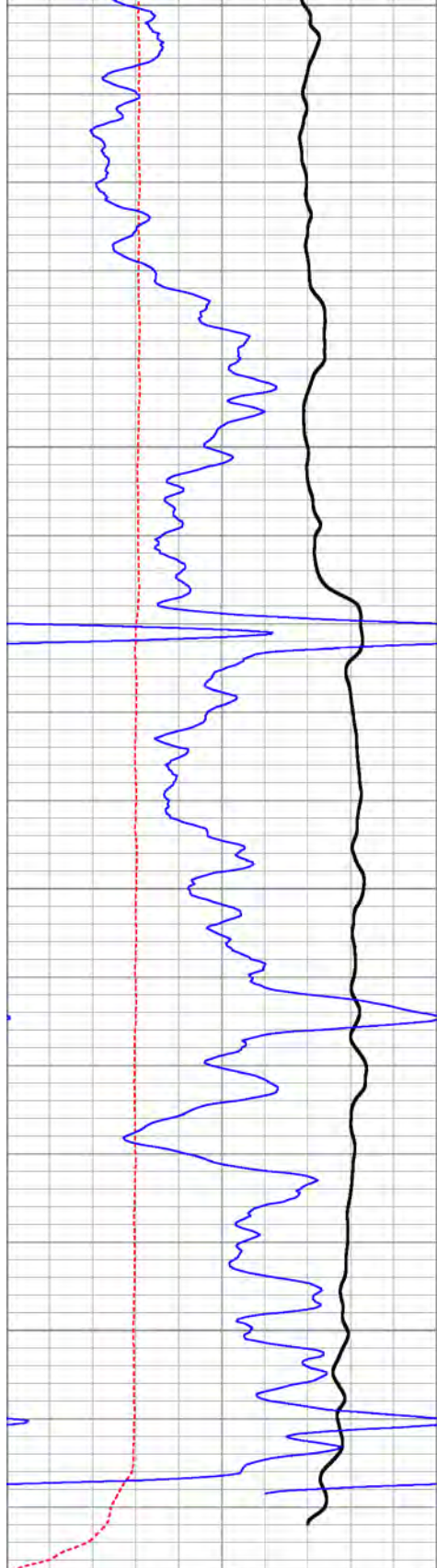
700

750

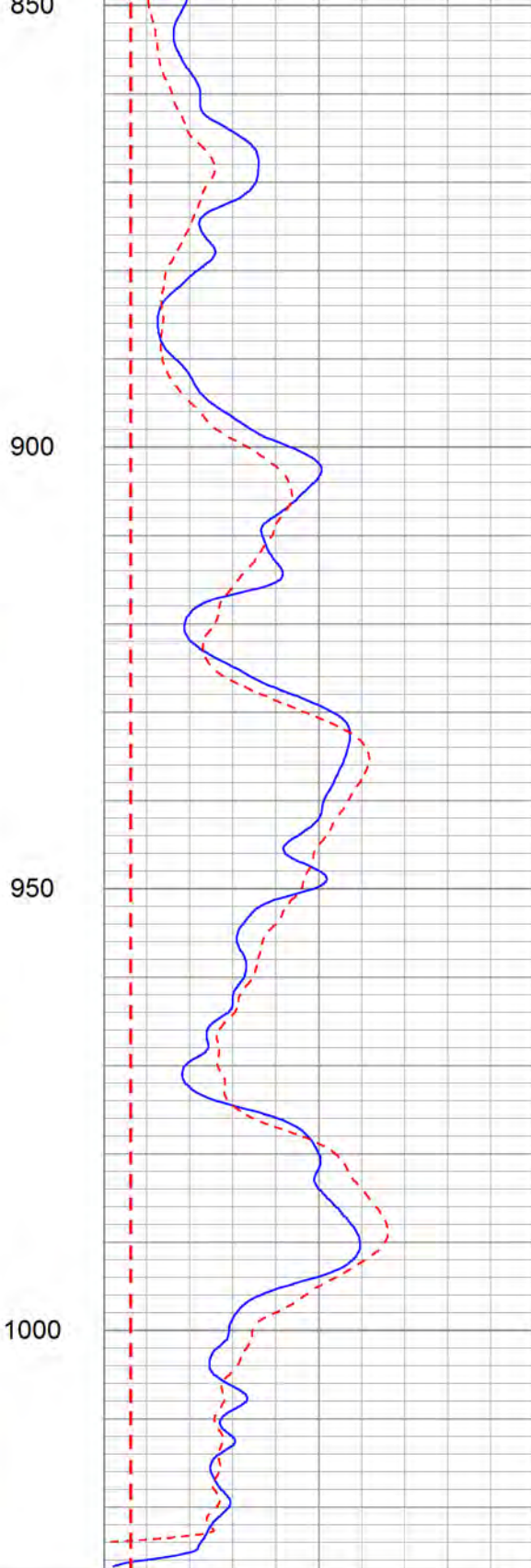
800

850

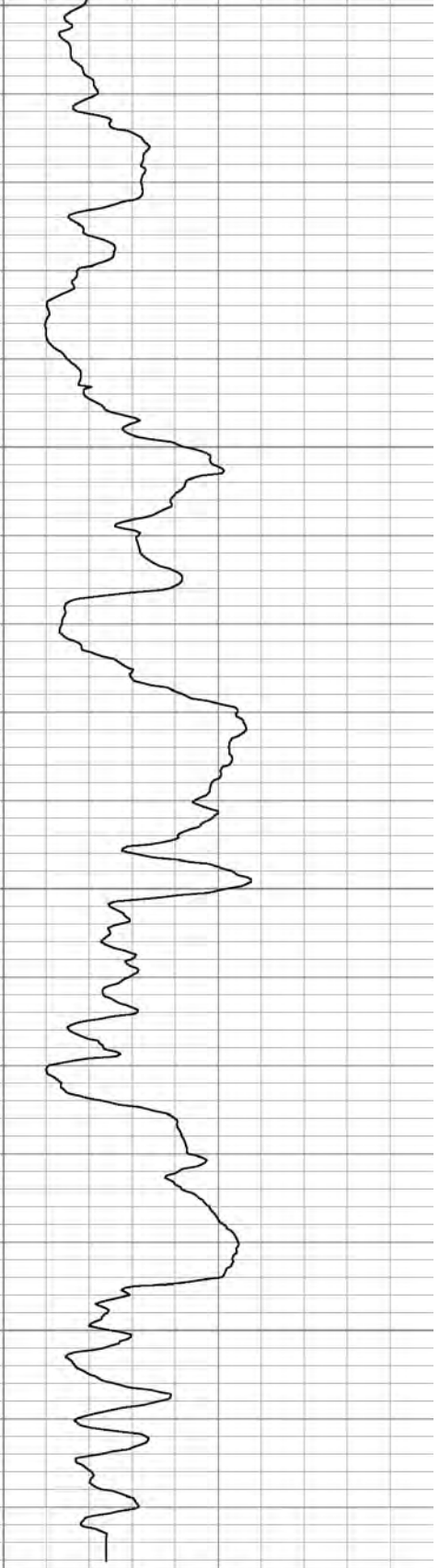




-70	SP (mV)	30
0	Line Speed (ft/min)	-100
40	Gamma Ray (GAPI)	140



0	RSN (Ohm-m)	100
0	RLN (Ohm-m)	100
0	RMF (Ohm-m)	100
100	RSN x 10 (Ohm-m)	1000
100	RLN x 10 (Ohm-m)	1000



0	RLL3 (Ohm-m)	100
100	RLL3 (Ohm-m)	1000

PACIFIC SURVEYS

LATEROLOG 3 GAMMA-RAY

Job No. 16297	Company HARGIS & ASSOCIATES	
Well MW-36		
Field BUENA PARK		
File No. County ORANGE	State CA	
Location: BRIDGEPORT AT MALVERN GPS: N33o 52.657' W117o 58.898'		Other Services: ELOG CALIPER
Sec. Twp. Rge.		
Permanent Datum Log Measured From Drilling Measured From	G.L. G.L. G.L.	Elevation above perm. datum K.B. D.F. G.L.
Date	12/20/2011	
Run Number	ONE	
Depth Driller	1029'	
Depth Logger	1027'	
Bottom Logged Interval	1027'	
Top Log Interval	40'	
Casing Driller	14" @ 40'	
Casing Logger	40'	
Bit Size	12.25"	
Type Fluid in Hole	BENTONITE	
Density / Viscosity	N/A	
pH / Fluid Loss	N/A	
Source of Sample	CIRC	
Rm @ Meas. Temp	5.4 @ 77F	
Rmf @ Meas. Temp	6.2 @ 77F	
Rmc @ Meas. Temp	N/A	
Source of Rmf / Rmc	MEASURE	
Rm @ BHT	N/A	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	11:15 AM	
Max. Recorded Temperature	N/A	
Equipment Number	PS-5	
Location	L.A.	
Recorded By	ABREAU	
Witnessed By	G. CRANHAM	

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Comments

Calibration Report

Database File: 16297.db
 Dataset Pathname: LL3
 Dataset Creation: Tue Dec 20 11:59:24 2011 by Log Open-Cased 100827

Gamma Ray Calibration Report

Serial Number: 12
 Tool Model: GROH
 Performed: Fri Apr 15 07:10:16 2011

 Calibrator Value: 162.0 GAPI

 Background Reading: 43.7
 Calibrator Reading: 168.2

 Sensitivity: 1.3020 GAPI/

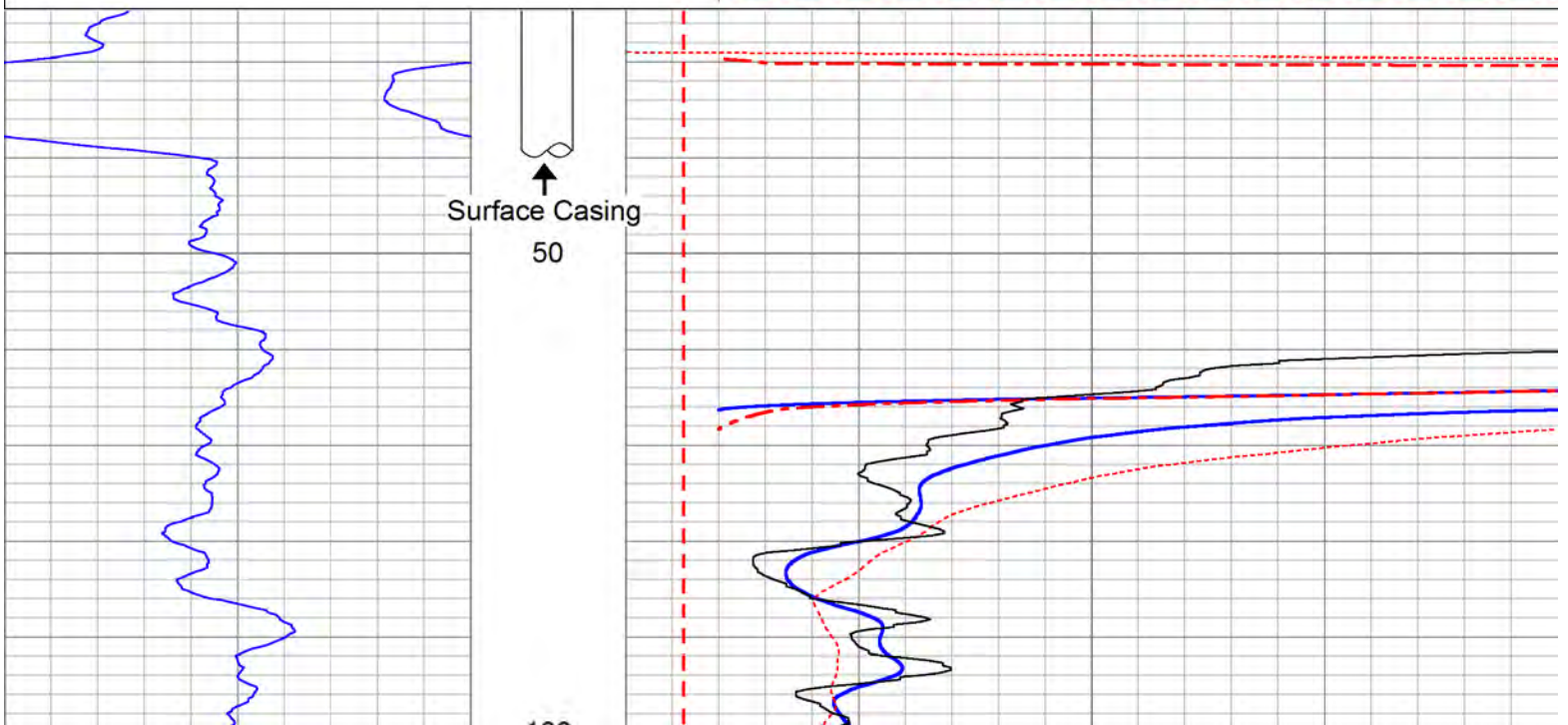
RLL3 (Resistivity Laterolog 3) Calibration Report:

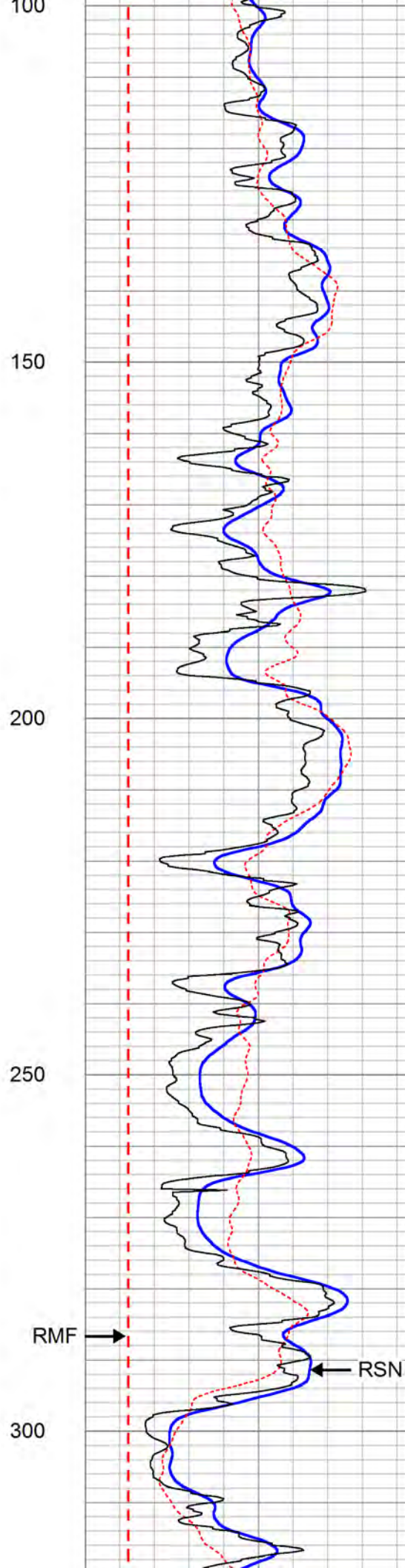
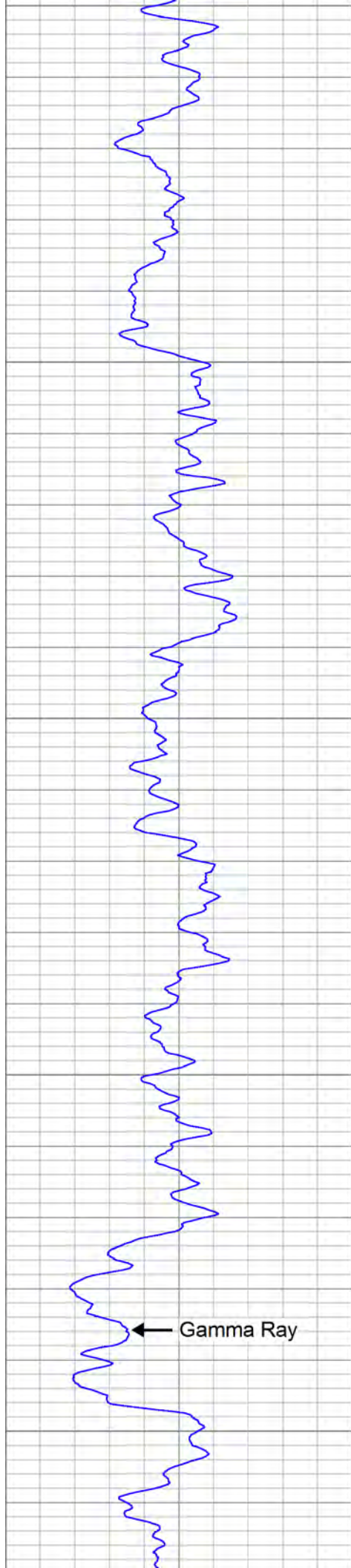
Serial Number: 130
 Tool Model: M&W
 Performed: Sat Apr 09 11:30:57 2011

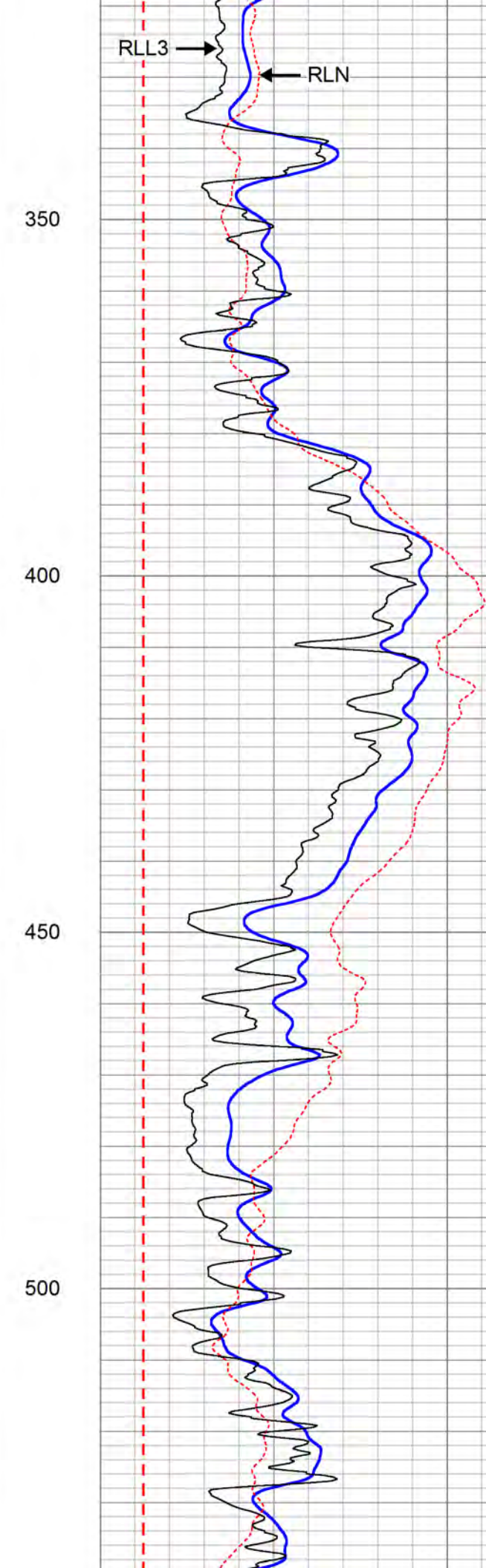
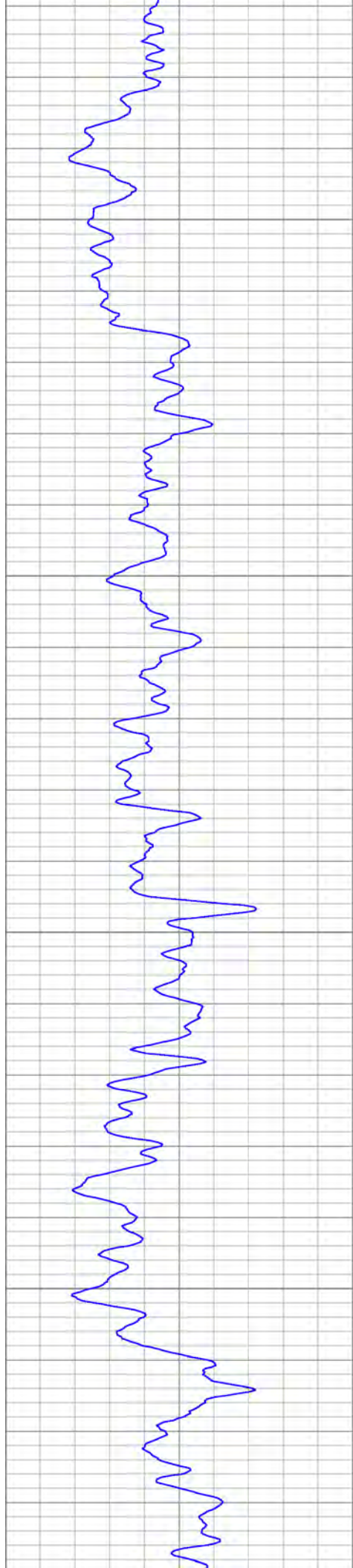
System Reading	Calibration Reference
0.004	2.500 Ohm-m
0.007	5.000
0.068	50.000
0.361	250.000
0.712	500.000

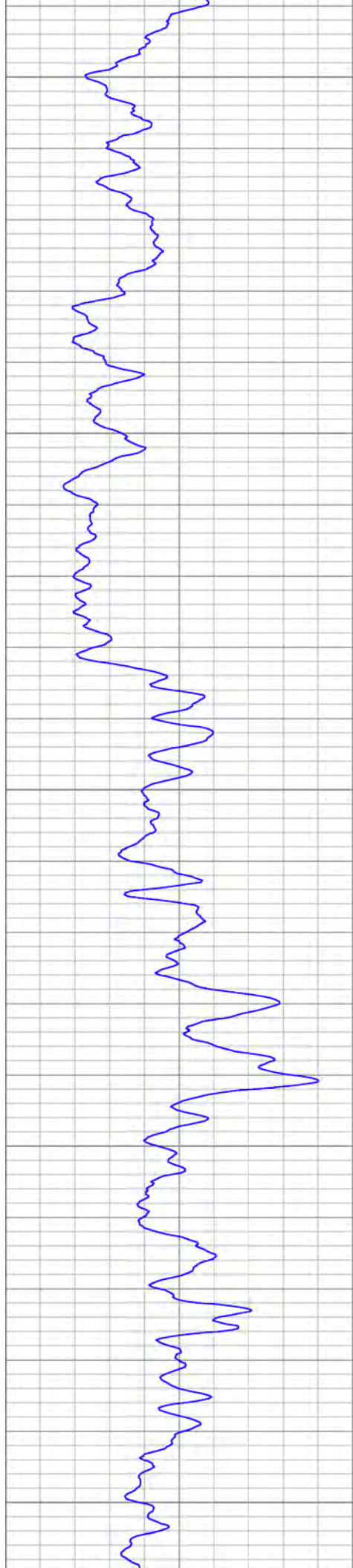
Database File: 16297.db
 Dataset Pathname: LL3
 Presentation Format: guard
 Dataset Creation: Tue Dec 20 11:59:24 2011 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

40	Gamma-Ray (GAPI)	140	0	RSN (Ohm-m)	100
			0	RLN (Ohm-m)	100
			0	RMF (Ohm-m)	100
			0	RLL3 (Ohm-m)	100
			100	RSN x 10 (Ohm-m)	1000
			100	RLN x 10 (Ohm-m)	1000









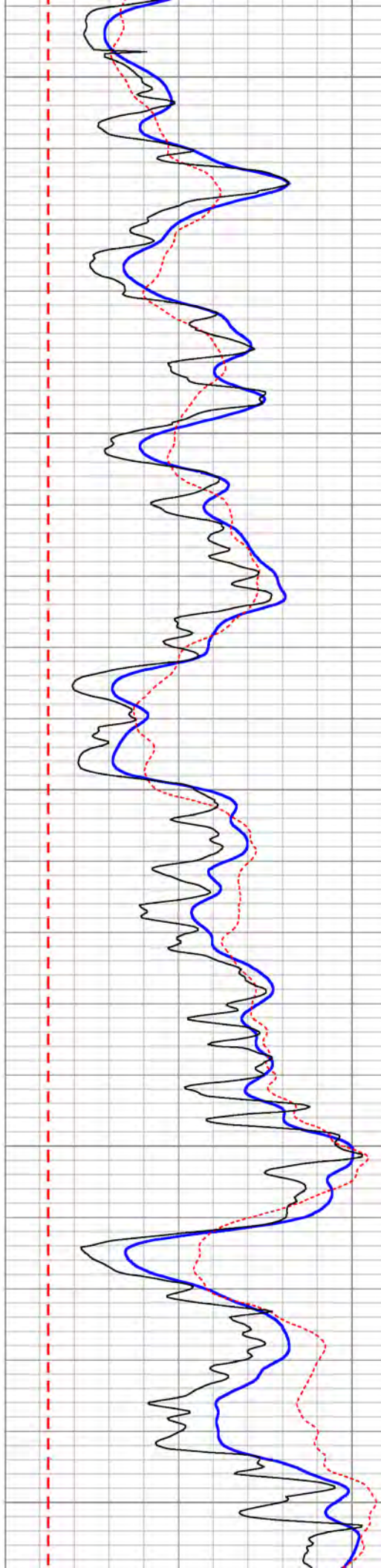
550

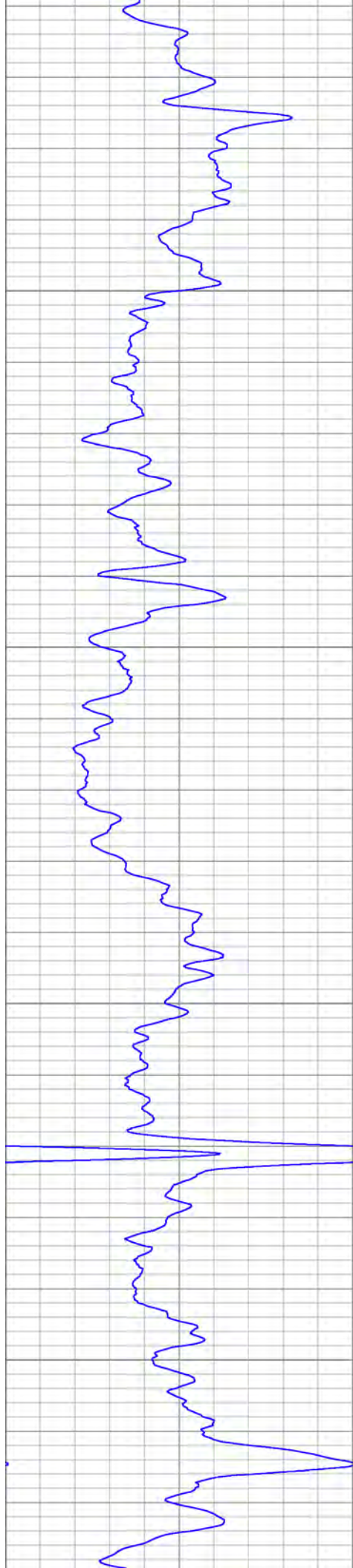
600

650

700

750



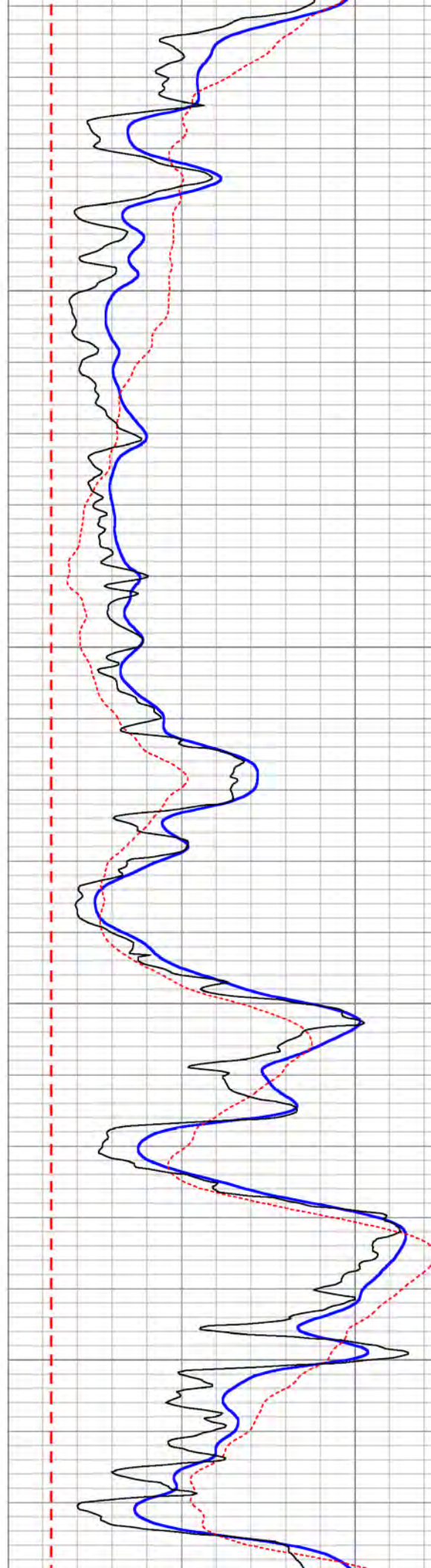


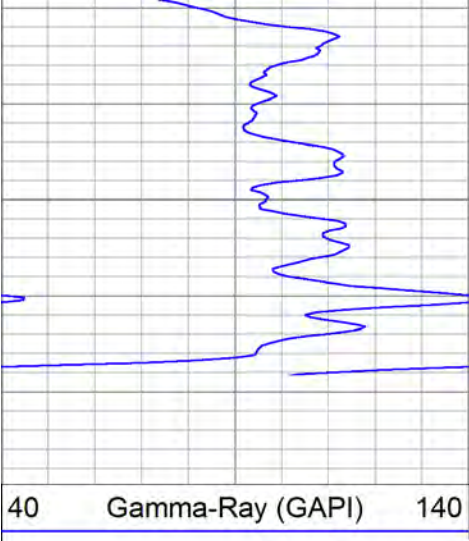
800

850

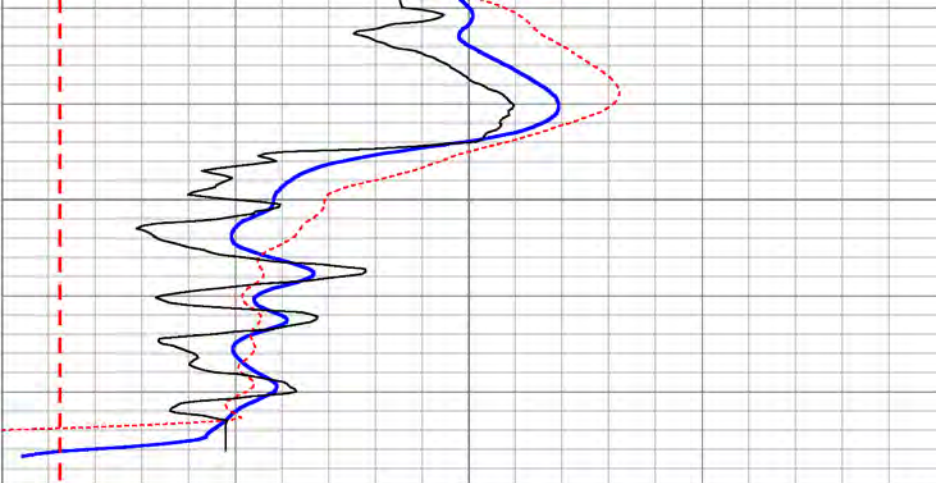
900

950





1000



0	RSN (Ohm-m)	100
0	RLN (Ohm-m)	100
0	RMF (Ohm-m)	100
0	RLL3 (Ohm-m)	100
100	RSN x 10 (Ohm-m)	1000
100	RLN x 10 (Ohm-m)	1000

CALIPER BOREHOLE VOLUMES

Job No. 16812		Company HARGIS & ASSOCIATES	
File No.		Well MW-37	
		Field BUENA PARK	
		County ORANGE	
		State CA	
Location: 8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'		Other Services: GRLL3	
Sec.	Twp.	Rge.	
Permanent Datum	G.L.	Elevation	
Log Measured From	G.L.	above perm. datum	
Drilling Measured From	G.L.		K.B. D.F. G.L.
Date	10-11-2012		
Run Number	ONE		
Depth Driller	916'		
Depth Logger	915'		
Bottom Logged Interval	913'		
Top Log Interval	0'		
Casing Driller	14" @ 20'		
Casing Logger	20'		
Bit Size	12.25"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	11.4 @ 77F		
Rmf @ Meas. Temp	12.3 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	1010		
Time Logger on Bottom	1210		
Max. Recorded Temperature	N/A		
Equipment Number	PS-3		
Location	LA		
Recorded By	SCHUMACHER		
Witnessed By	K. SIMON		

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Comments

Calibration Report

Database File 16812.db
 Dataset Pathname CAL/CAL.2
 Dataset Creation Thu Oct 11 15:14:12 2012

Temperature Calibration Report

Serial Number: PS-3_Short
 Tool Model: Short_GPH
 Performed: Thu Jun 07 15:23:13 2012

	Reference	Reading
Low Reference:	4.00 degF	446.36 cps
High Reference:	8.00 degF	703.01 cps
Gain:	0.02	
Offset:	-2.96	
Delta Spacing	1	

XY Caliper Calibration Report

Serial Number/Model: Short-Comprobe
 Performed: Thu Jun 07 15:17:39 2012

	Ring		X Caliper		Y Caliper	
1:	4	in	323.326	cps	323.326	cps
2:	8	in	446.363	cps	446.363	cps
3:	12	in	575.851	cps	575.851	cps
4:	16	in	703.014	cps	703.014	cps
5:	20	in	834.164	cps	834.164	cps
6:		in		cps		cps

Database File 16812.db
 Dataset Pathname CAL/CAL.2
 Presentation Format xyc_gph
 Dataset Creation Thu Oct 11 15:14:12 2012
 Charted by Depth in Feet scaled 1:240

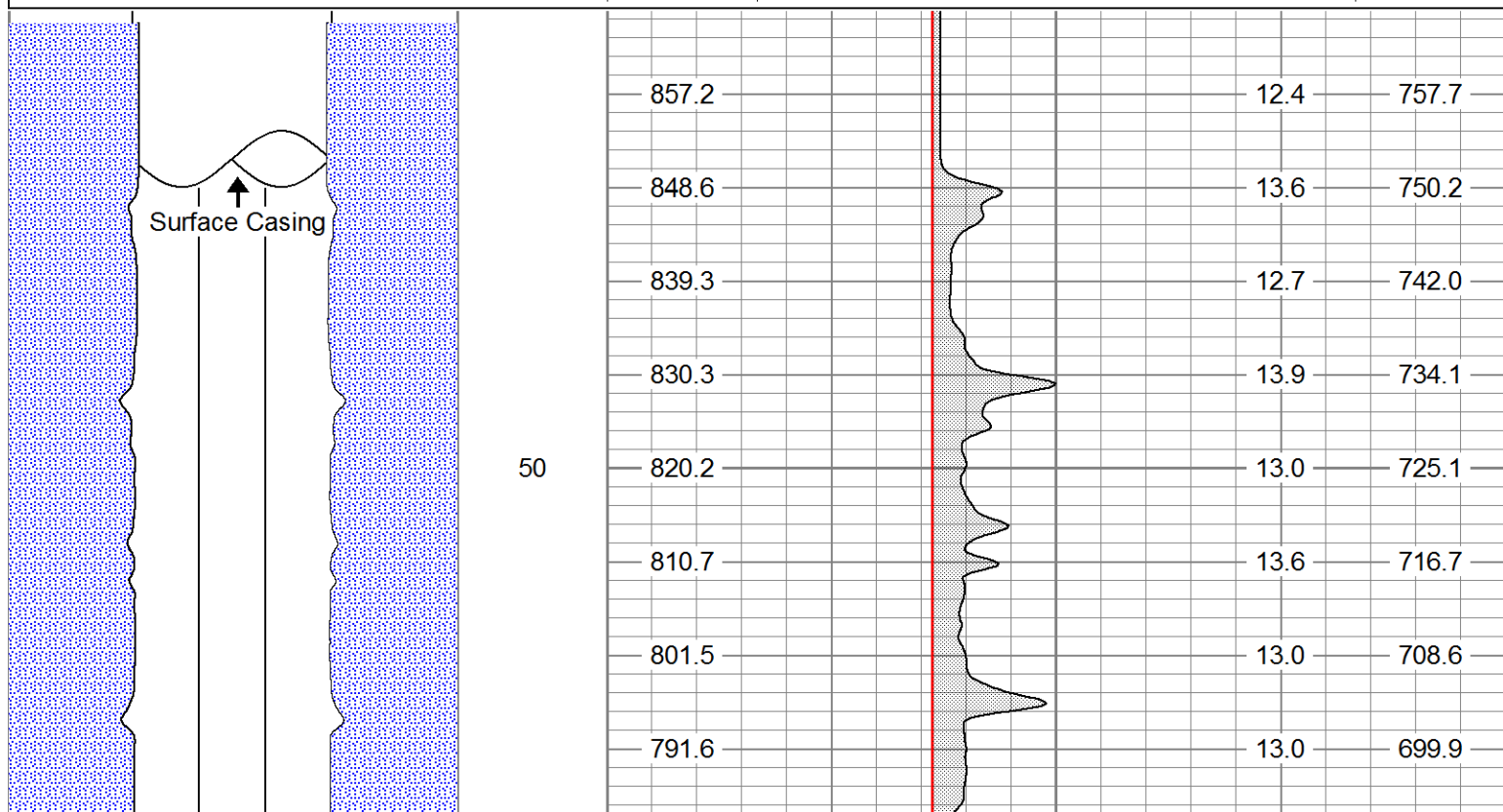
CSG SCHEDULE

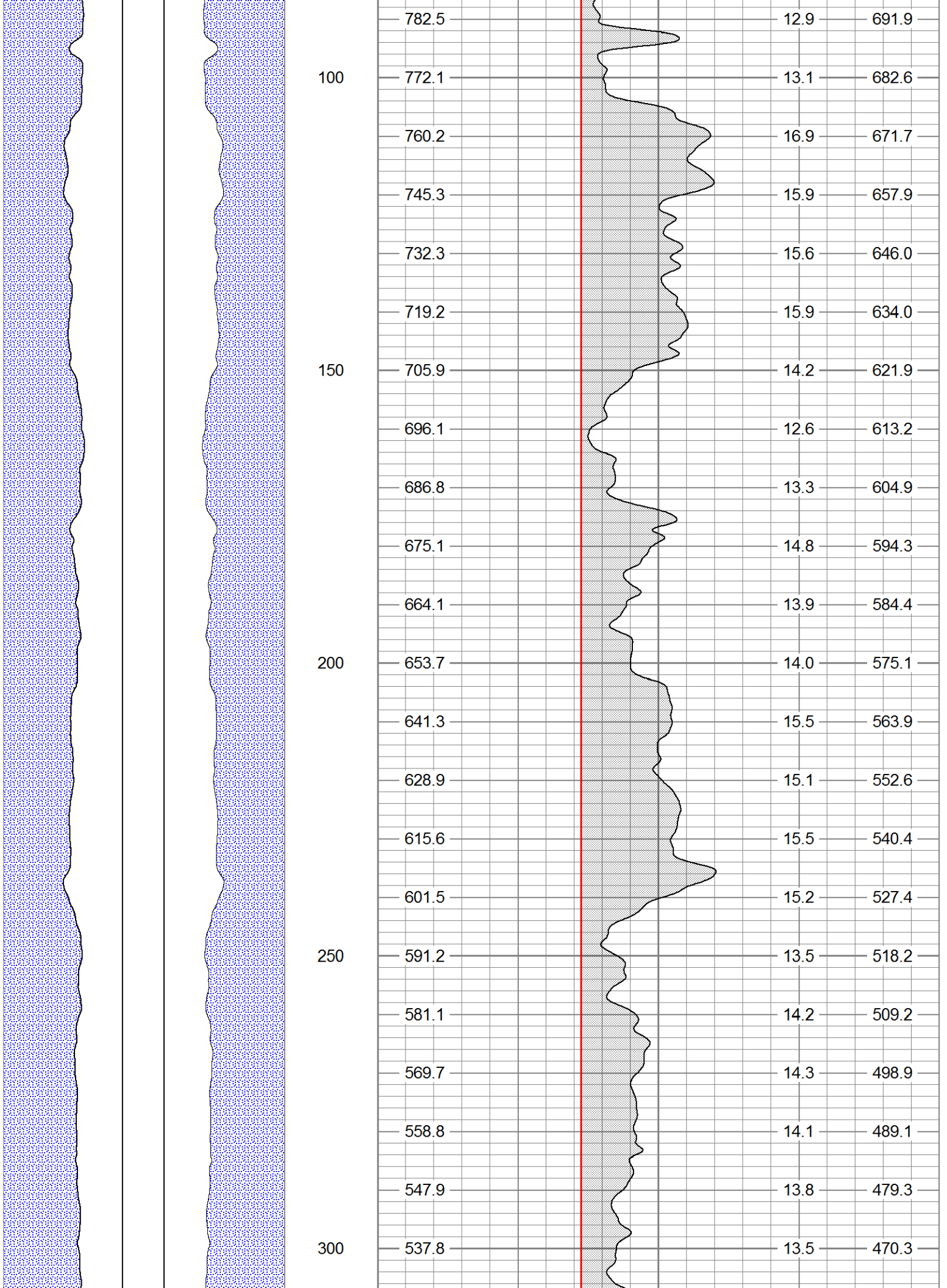
Pipe(s) proportional to Hole Size

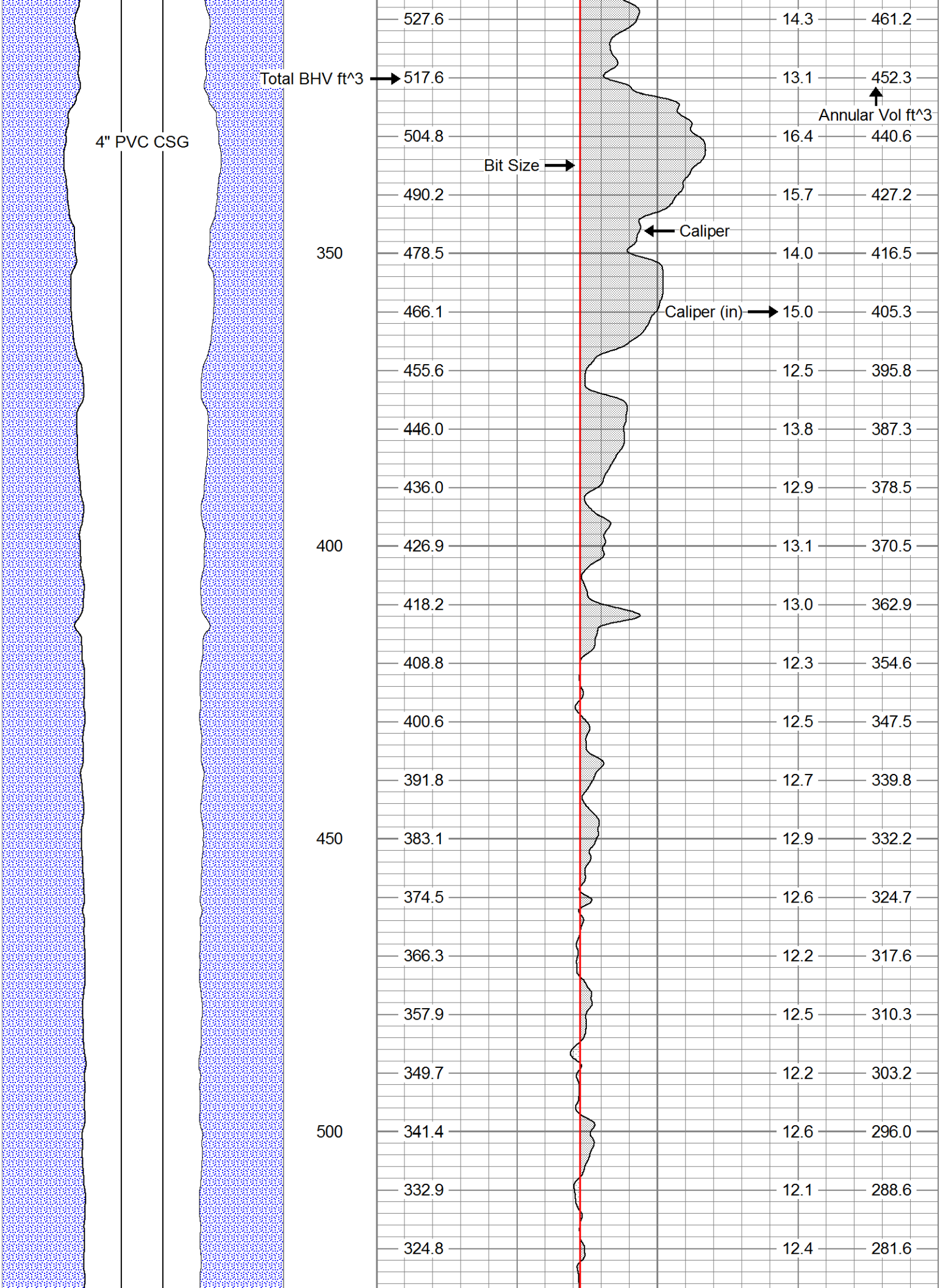
5 Caliper (in) 25

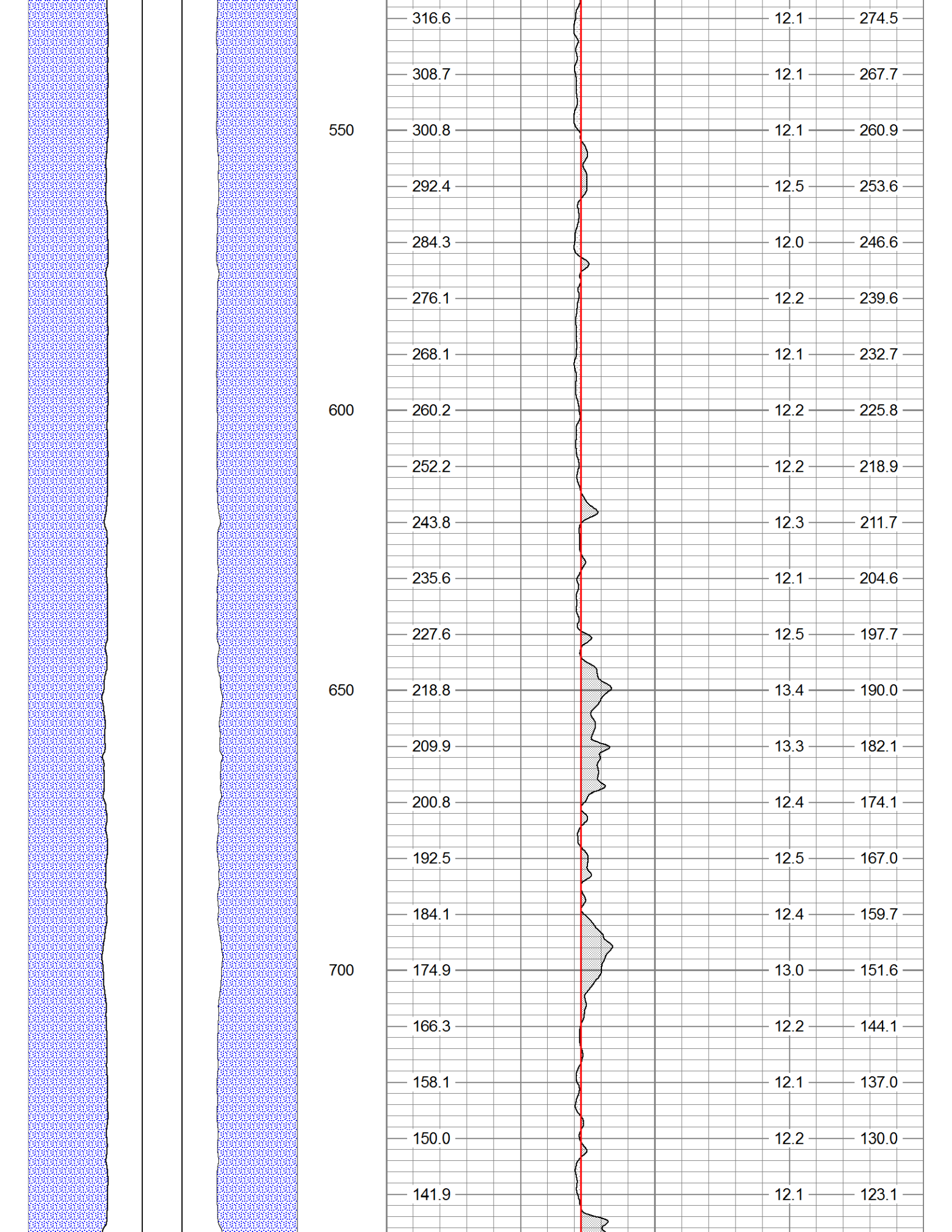
5 Bit Size (in) 25

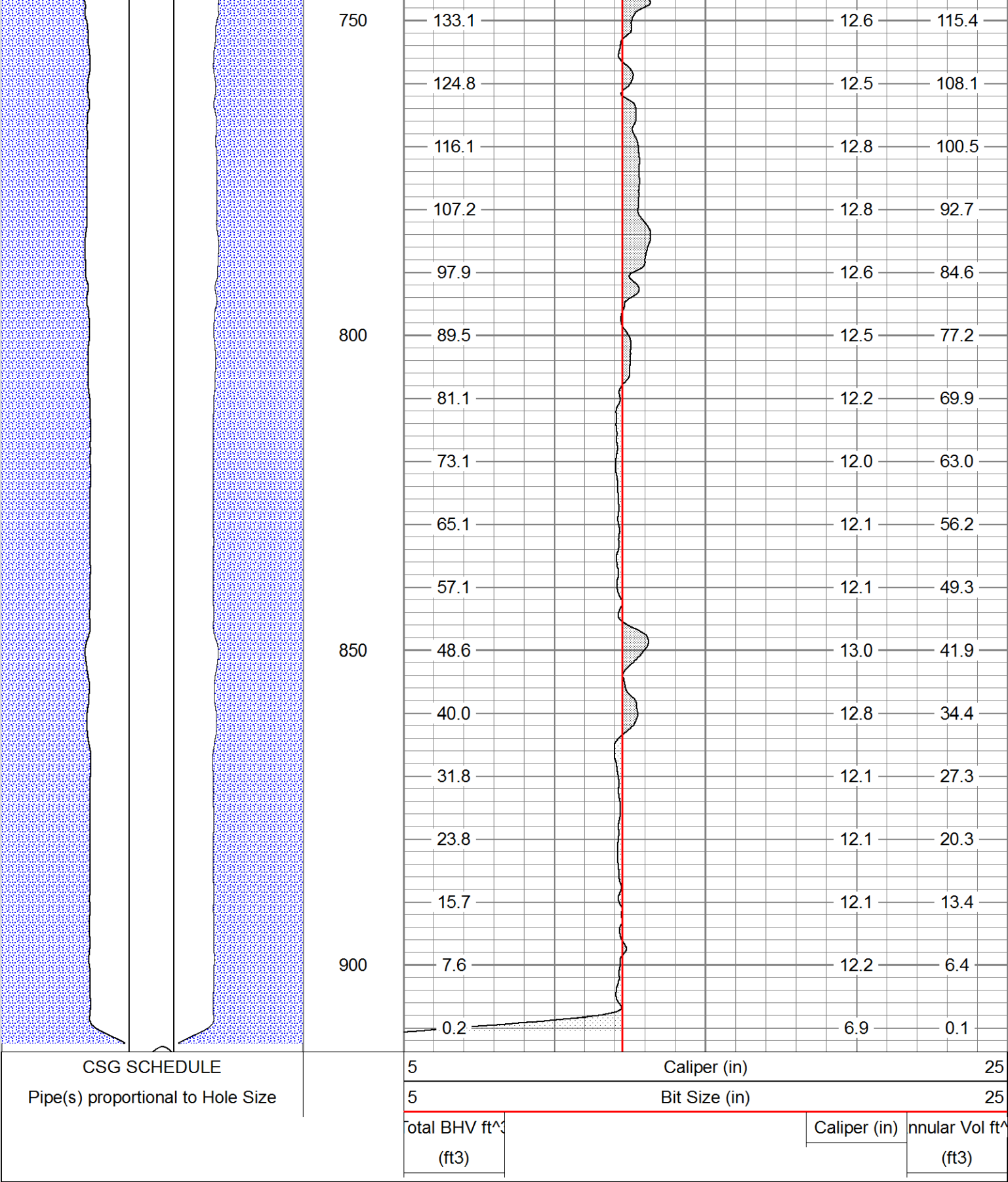
Total BHV ft^3 (ft3)	Caliper (in)	Annular Vol ft^3 (ft3)
-------------------------	--------------	---------------------------











**PACIFIC
SURVEYS**

ELECTRIC LOG
LATEROLOG 3
GAMMA-RAY

Job No. 16812	Company HARGIS & ASSOCIATES
	Well MW-37
	Field BUENA PARK
File No.	County ORANGE
	State CA

Job No. 16812	Company HARGIS & ASSOCIATES
	Well MW-37
	Field BUENA PARK
File No.	County ORANGE
	State CA

Job No. 16812	Company HARGIS & ASSOCIATES
	Well MW-37
	Field BUENA PARK
File No.	County ORANGE
	State CA

Job No. 16812	Company HARGIS & ASSOCIATES
	Well MW-37
	Field BUENA PARK
File No.	County ORANGE
	State CA

Job No. 16812	Company HARGIS & ASSOCIATES
	Well MW-37
	Field BUENA PARK
File No.	County ORANGE
	State CA

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Location:	8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'	Other Services:	GR/LL3 CALIPER
Sec.	Twp.	Rge.	

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

Permanent Datum Log Measured From	G.L.	0'	Elevation above perm. datum	Elevation K.B. D.F. G.L.
Drilling Measured From	G.L.			

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	Comments

Database File		16812.db	Calibration Report
Dataset Pathname		ELOG	
Dataset Creation		Thu Oct 11 12:15:38 2012	

Database File		16812.db	Calibration Report
Dataset Pathname		ELOG	
Dataset Creation		Thu Oct 11 12:15:38 2012	

Database File		16812.db	Calibration Report
Dataset Pathname		ELOG	
Dataset Creation		Thu Oct 11 12:15:38 2012	

Database File		16812.db	Calibration Report
Dataset Pathname		ELOG	
Dataset Creation		Thu Oct 11 12:15:38 2012	

ELOG Calibration Report

Serial:
Model:

D4
DTQ

Shop Calibration Performed:
Before Survey Verification Performed:
After Survey Verification Performed:

Fri Sep 02 15:34:18 2011
Sun Sep 09 13:17:43 2007
Sun Sep 09 13:17:48 2007

Shop Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	9.321	100.380		10.200	102.200	Ohm-m	1.010	0.782
Long	8.948	97.855		10.200	102.200	Ohm-m	1.035	-17.100
IEE	88.740	5882.980	counts	0.097	6.438	A		
VSN	104.920	6618.800	counts	2.001	126.246	V		
VLN	77.120	1684.980	counts	1.471	32.139	V		

Before Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	40.249	101.201		40.505	101.206	Ohm-m	0.996	0.422
Long	142.638	102.842		102.858	102.858	Ohm-m	1.024	-2.408
IEE	212.960	7070.960	counts	0.233	7.738	A		
VSN	96.300	8039.720	counts	1.837	153.348	V		
VLN	85.320	2042.520	counts	1.627	38.959	V		

After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	40.270	101.200		40.249	101.201	Ohm-m	1.000	-0.035
Long	142.491	102.843		102.842	102.842	Ohm-m	1.004	-0.383
IEE	213.380	7077.580	counts	0.234	7.746	A		
VSN	96.540	8047.160	counts	1.841	153.490	V		
VLN	85.400	2044.440	counts	1.629	38.995	V		

After Survey Verification compared to Before Survey Calibration

	Zero			Cal		
	Before	After		Before	After	
Short	40.505	40.249	Ohm-m	101.206	101.201	Ohm-m
Long	143.592	142.638	Ohm-m	102.858	102.842	Ohm-m

Gamma Ray Calibration Report

Serial Number: D4
Tool Model: ELOG
Performed: Tue Jul 15 15:58:21 2008

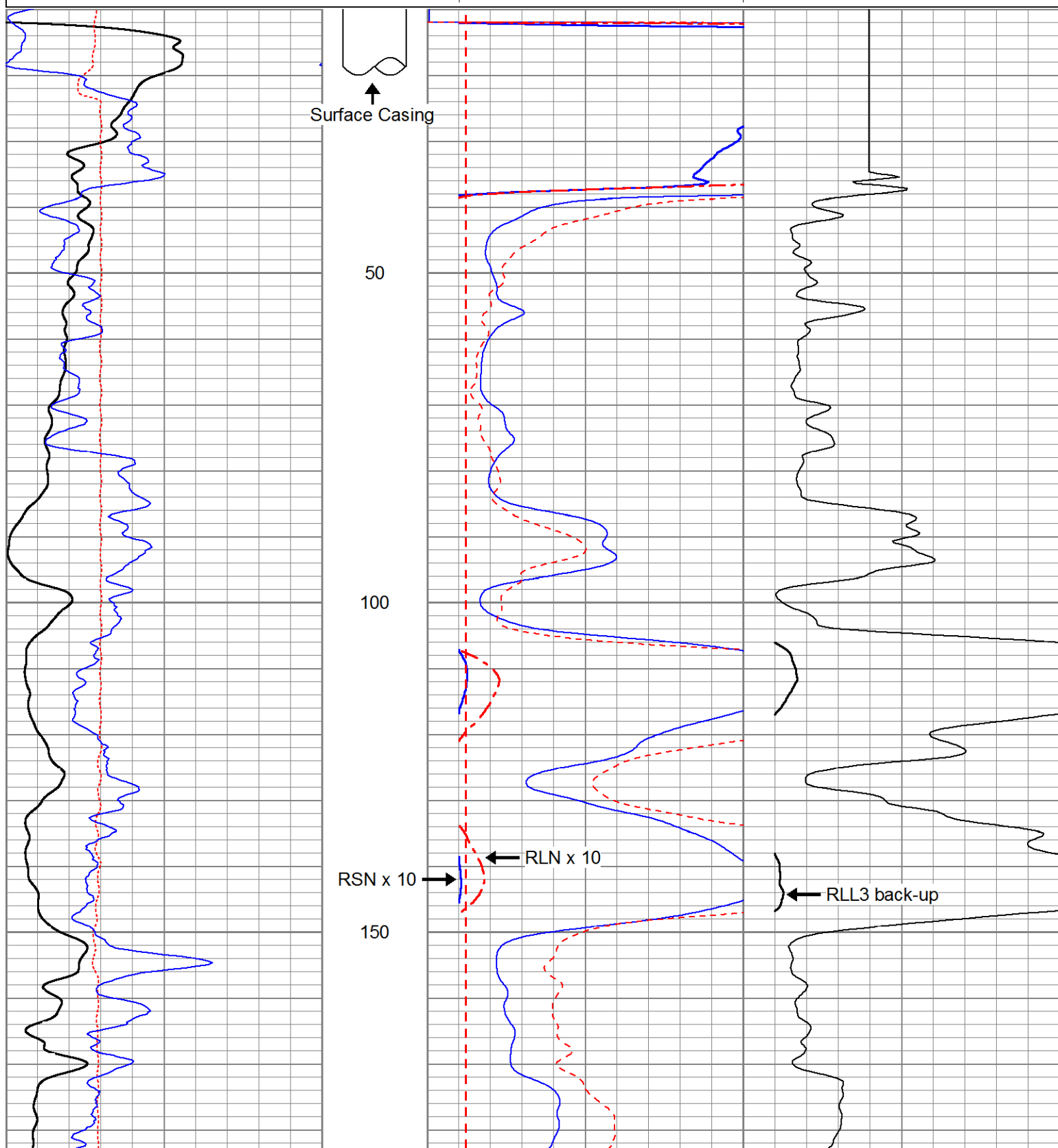
Calibrator Value: 162.0 GAPI

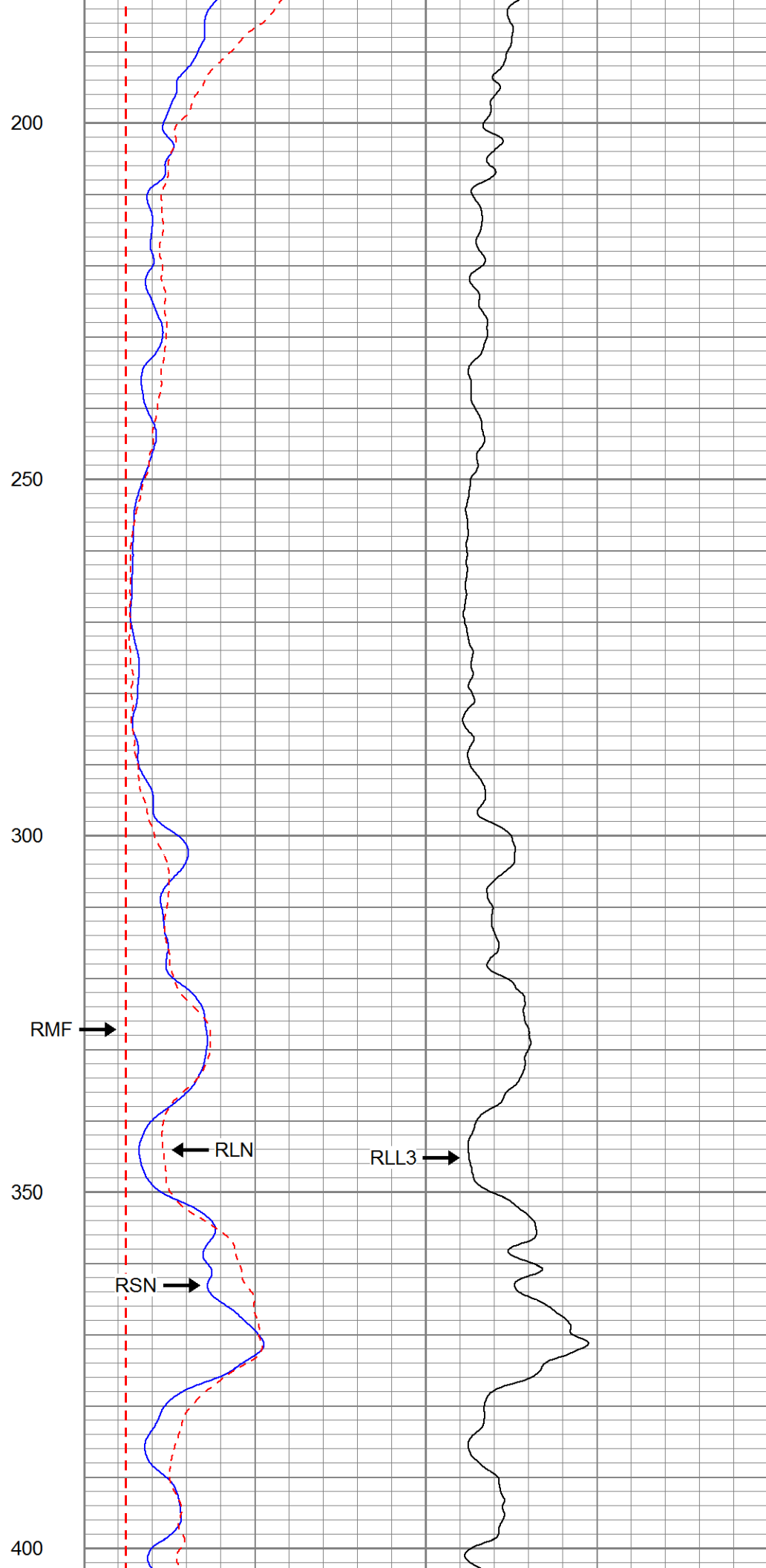
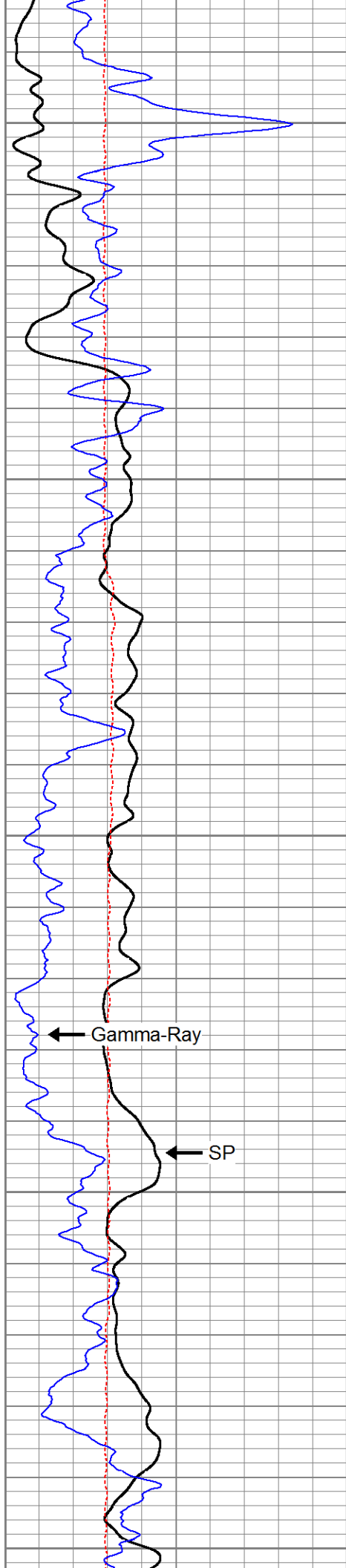
Background Reading: 198.6 cps
Calibrator Reading: 742.0 cps

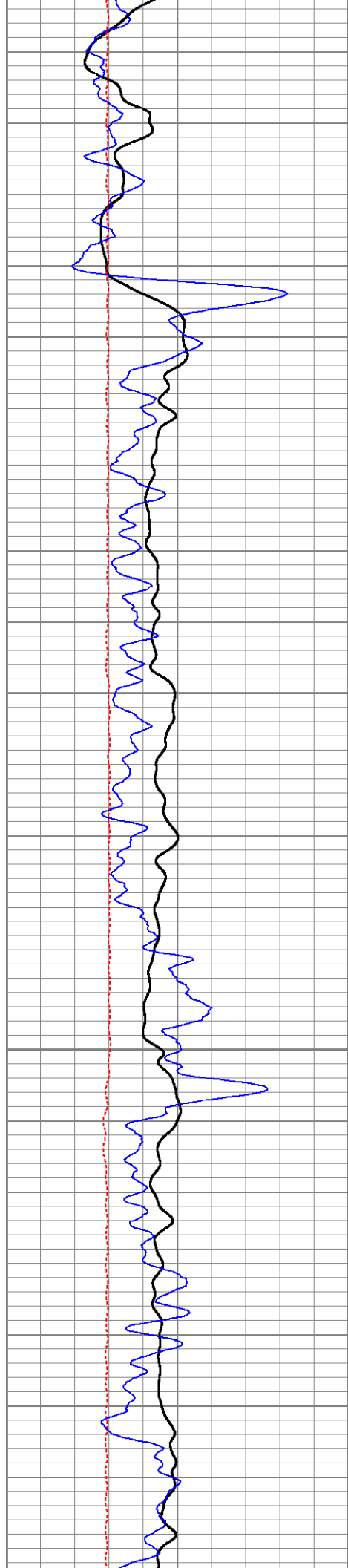
Sensitivity: 0.2982 GAPI/cps

Database File	16812.db
Dataset Pathname	ELOG
Presentation Format	elog
Dataset Creation	Thu Oct 11 12:15:38 2012
Charted by	Depth in Feet scaled 1:240

-58	SP (mV)	42	0	RSN (Ohm-m)	100	0	RLL3 (Ohm-m)	100
0	Line Speed (ft/min)	-100	0	RLN (Ohm-m)	100	100 RLL3 back-up (Ohm-m) 1000		
40	Gamma-Ray (GAPI)	140	0	RMF (Ohm-m)	100			
			100	RSN x 10 (Ohm-m)	1000			
			100	RLN x 10 (Ohm-m)	1000			





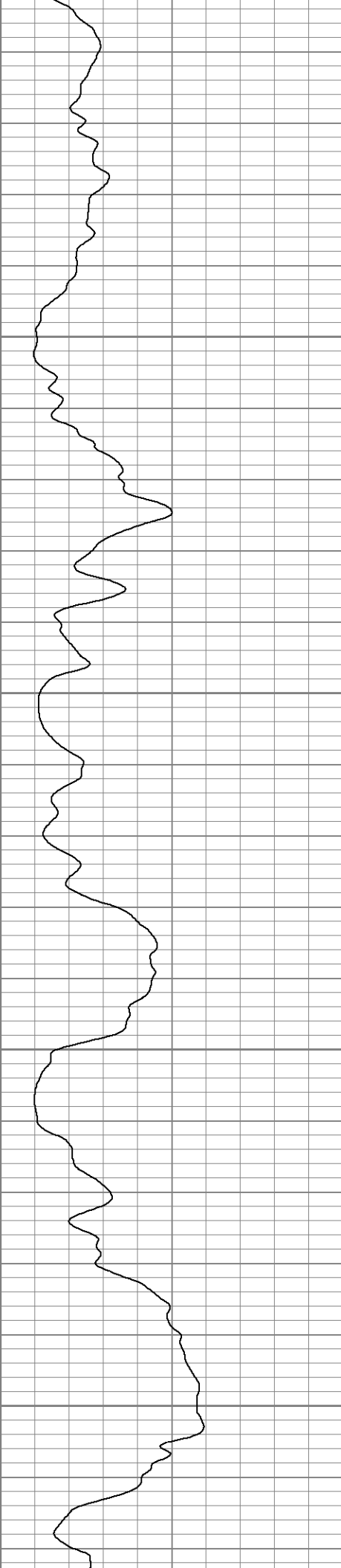
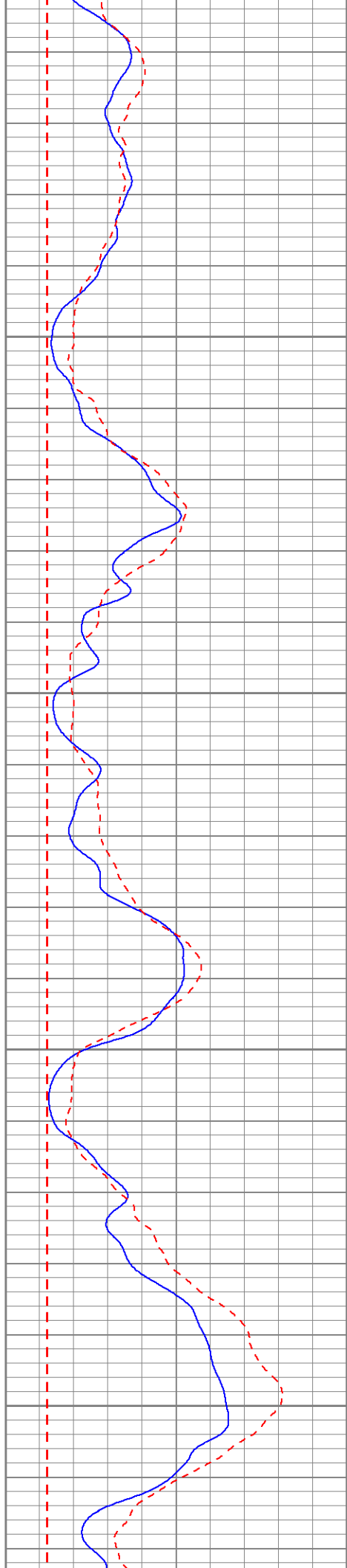


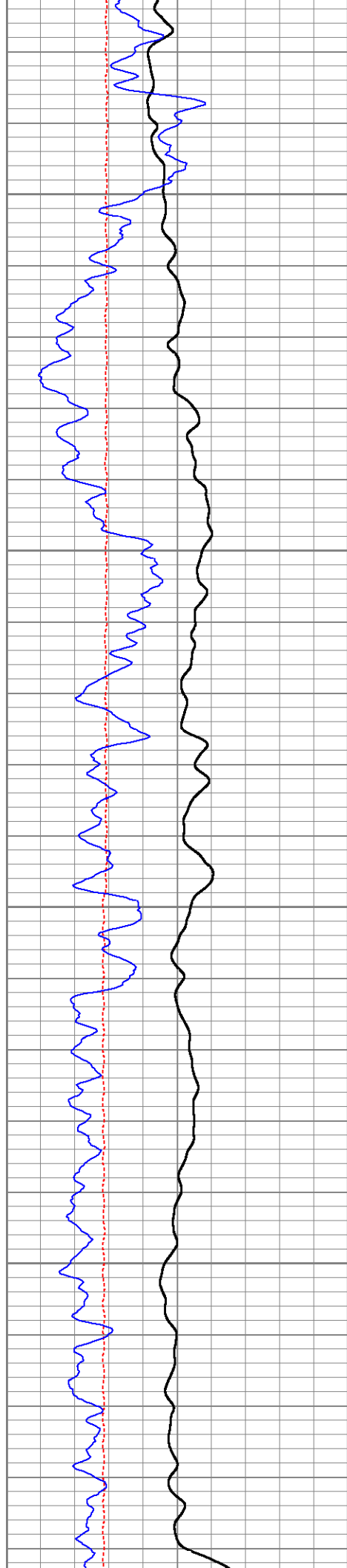
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500

550

600



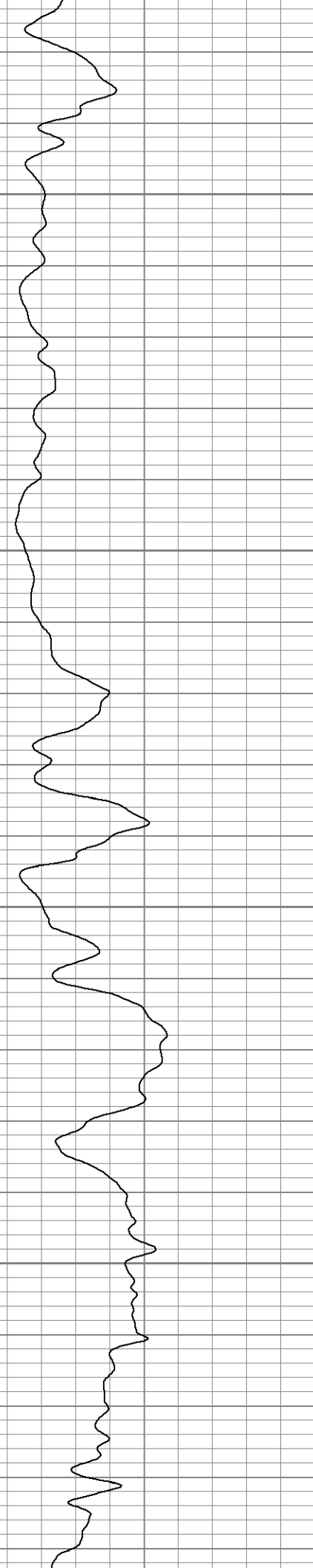
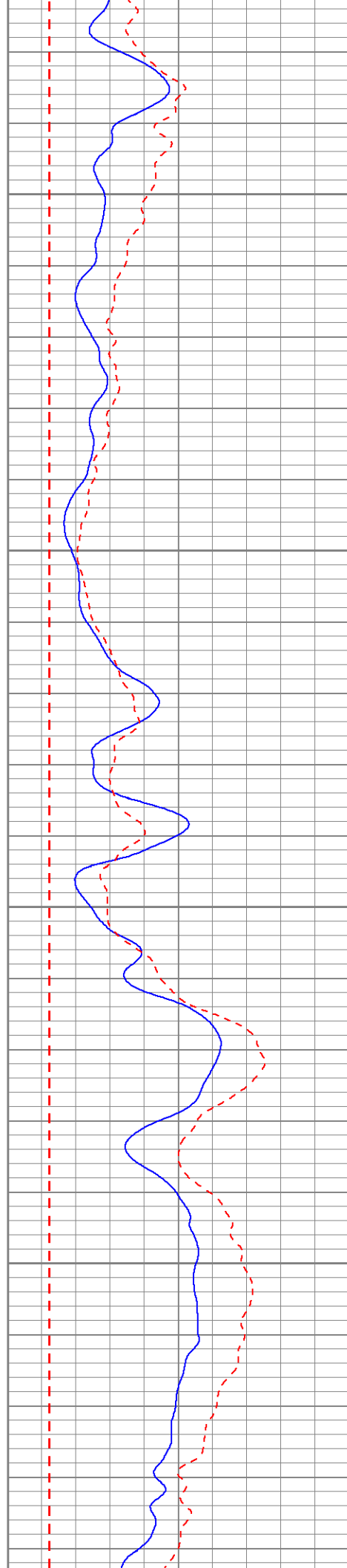


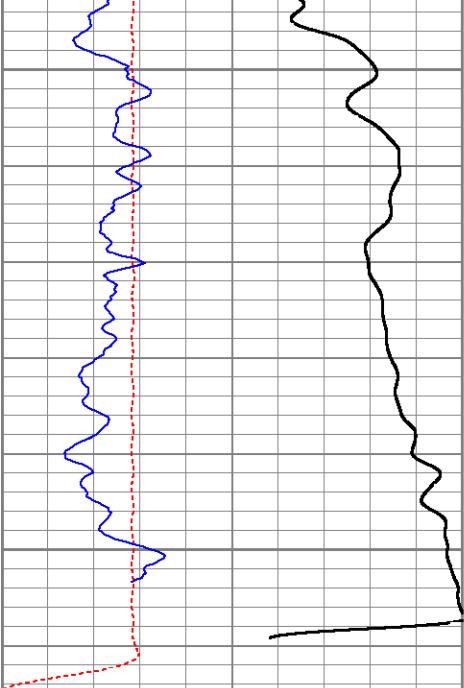
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700

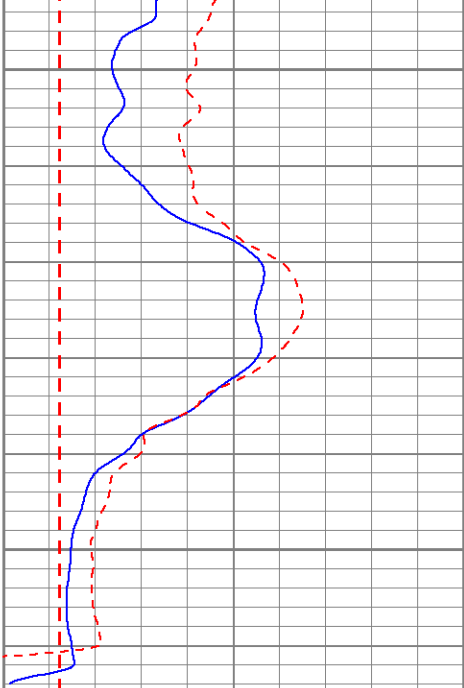
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800

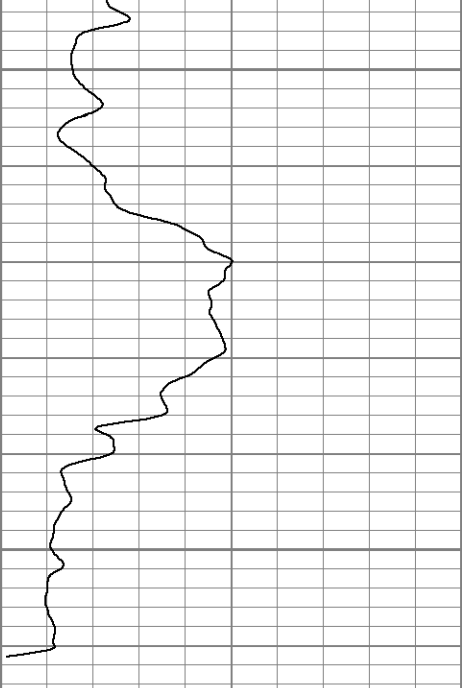




-58	SP (mV)	42
0	Line Speed (ft/min)	-100
40	Gamma-Ray (GAPI)	140



0	RSN (Ohm-m)	100
0	RLN (Ohm-m)	100
0	RMF (Ohm-m)	100
100	RSN x 10 (Ohm-m)	1000
100	RLN x 10 (Ohm-m)	1000



0	RLL3 (Ohm-m)	100
100	RLL3 back-up (Ohm-m)	1000

Job No. 16812		Company HARGIS & ASSOCIATES	
Well MW-37		Field BUENA PARK	
File No.		County ORANGE	State CA
Location: 8820 MEDOWBROOK GPS: N33o 52.824' W 117o 58.712'		Other Services: GR/ELOG CALIPER	
Sec.	Twp.	Rge.	
Permanent Datum Log Measured From Drilling Measured From	G.L. G.L. G.L.	0'	Elevation above perm. datum K.B. D.F. G.L.
Date	10-11-2012		
Run Number	ONE		
Depth Driller	916'		
Depth Logger	915'		
Bottom Logged Interval	915'		
Top Log Interval	0'		
Casing Driller	14" @ 20'		
Casing Logger	20'		
Bit Size	12.25"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	11.4 @ 77F		
Rmf @ Meas. Temp	12.3 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	1010		
Time Logger on Bottom	1210		
Max. Recorded Temperature	N/A		
Equipment Number	PS-3		
Location	LA		
Recorded By	SCHUMACHER		
Witnessed By	K. SIMON		

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Comments

Calibration Report

Database File 16812.db
 Dataset Pathname LL3
 Dataset Creation Thu Oct 11 13:05:22 2012

Serial Number:	12	
Tool Model:	GROH	
Performed:	Wed Aug 31 18:41:03 2011	
Calibrator Value:	162.0	GAPI
Background Reading:	41.2	
Calibrator Reading:	182.5	
Sensitivity:	1.1460	GAPI/

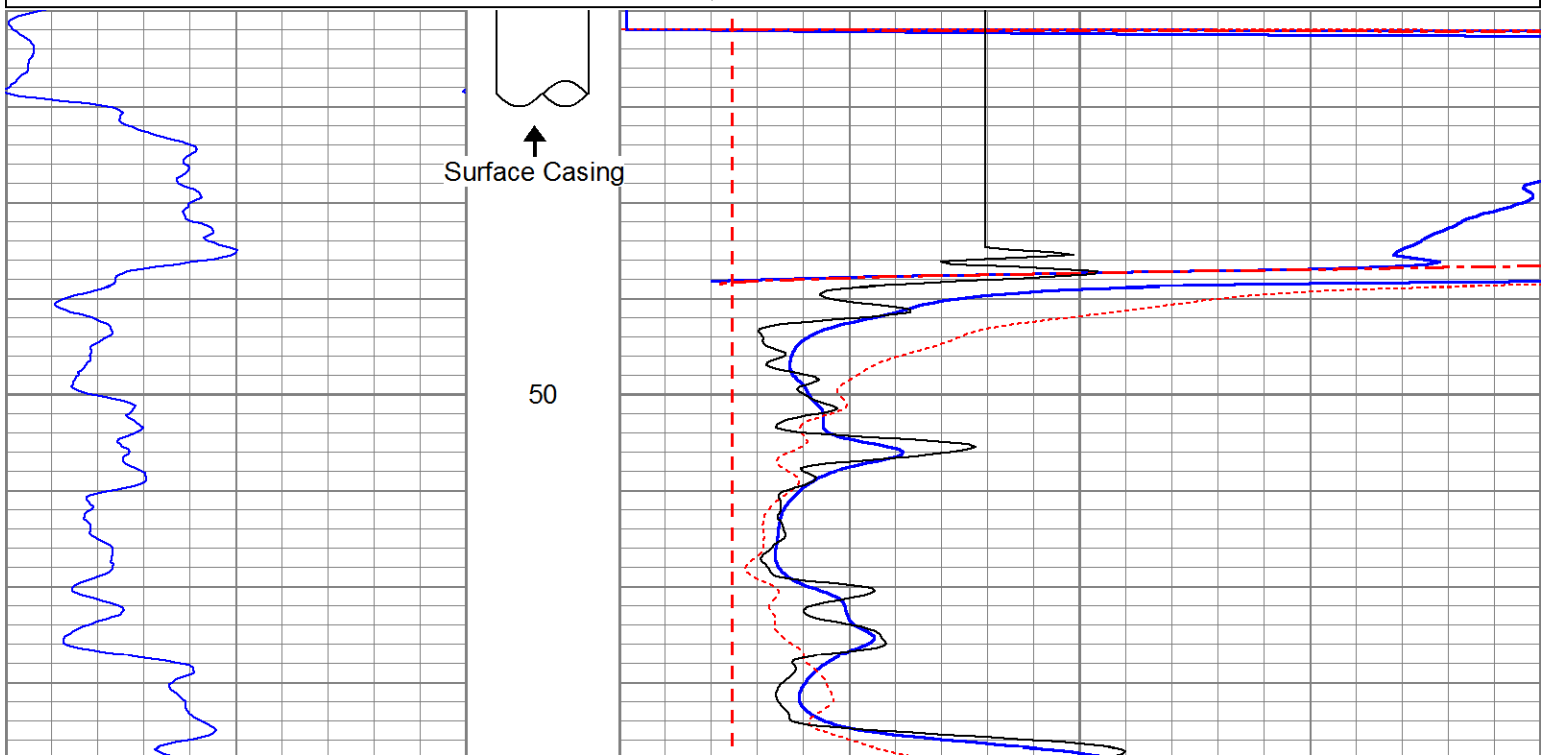
RLL3 (Resistivity Laterolog 3) Calibration Report:

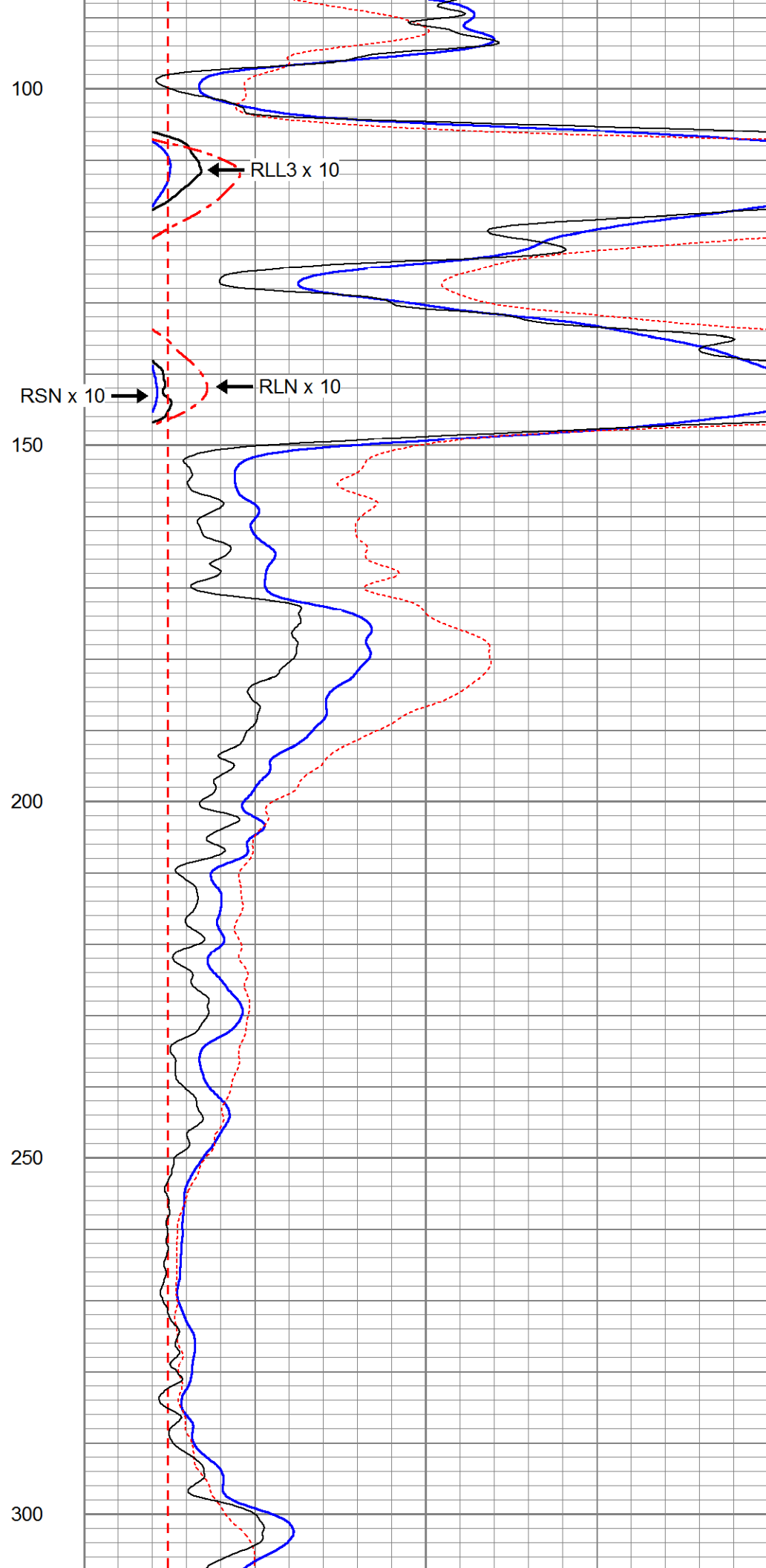
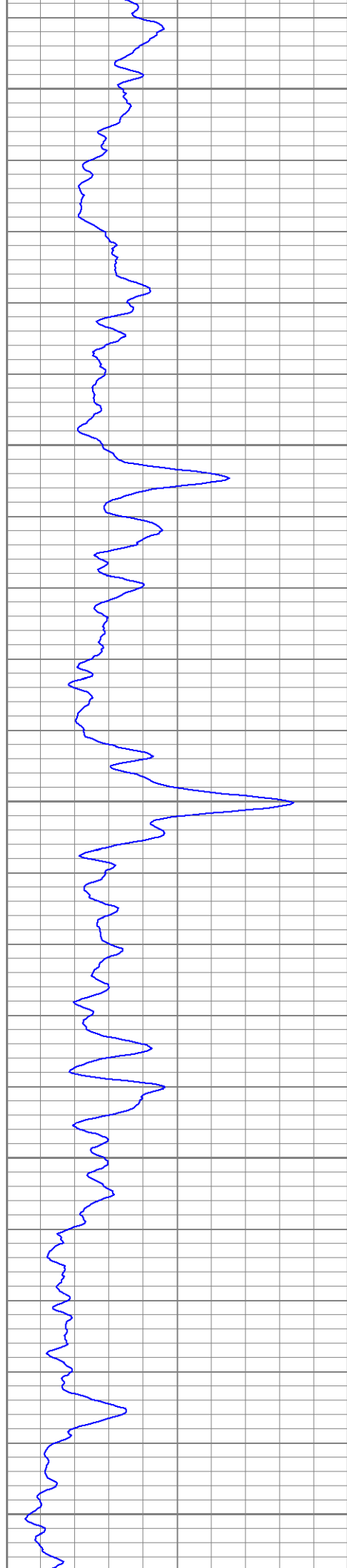
Serial Number:	231
Tool Model:	M&W
Performed:	Wed Aug 31 18:40:12 2011

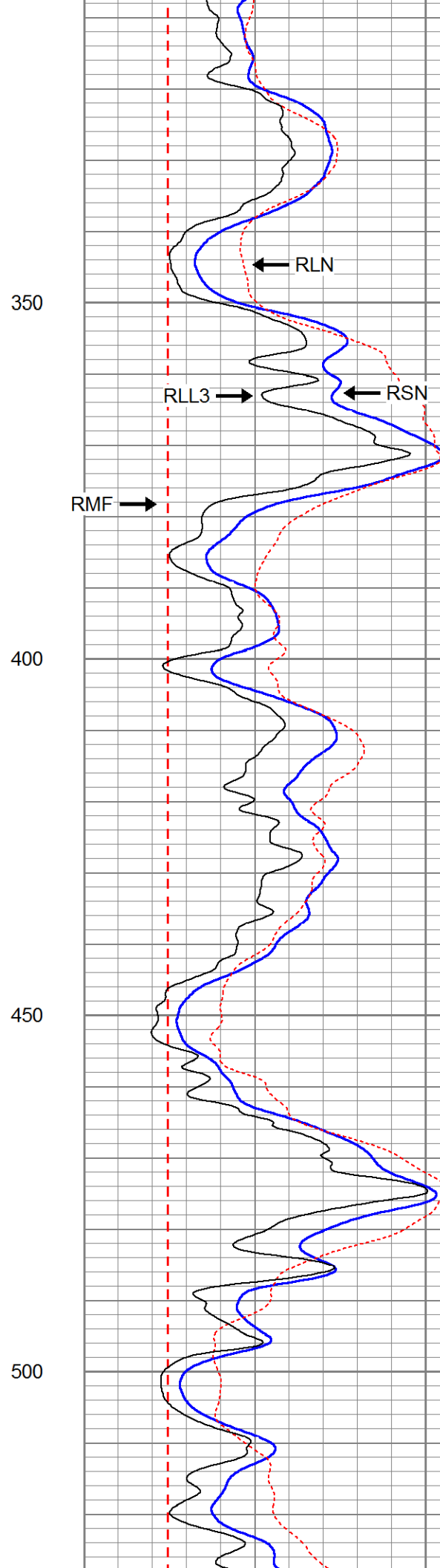
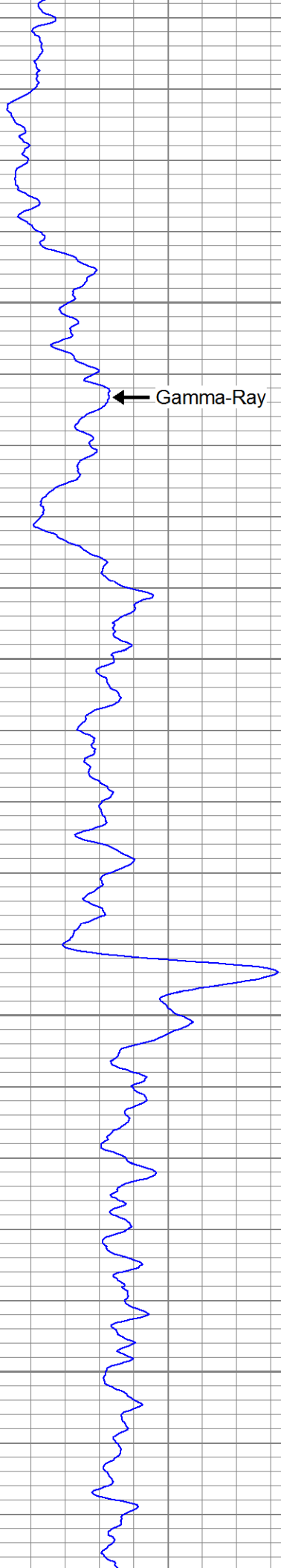
System Reading	Calibration Reference
0.005	2.500 Ohm-m
0.009	5.000
0.101	50.000
0.535	250.000
0.942	500.000

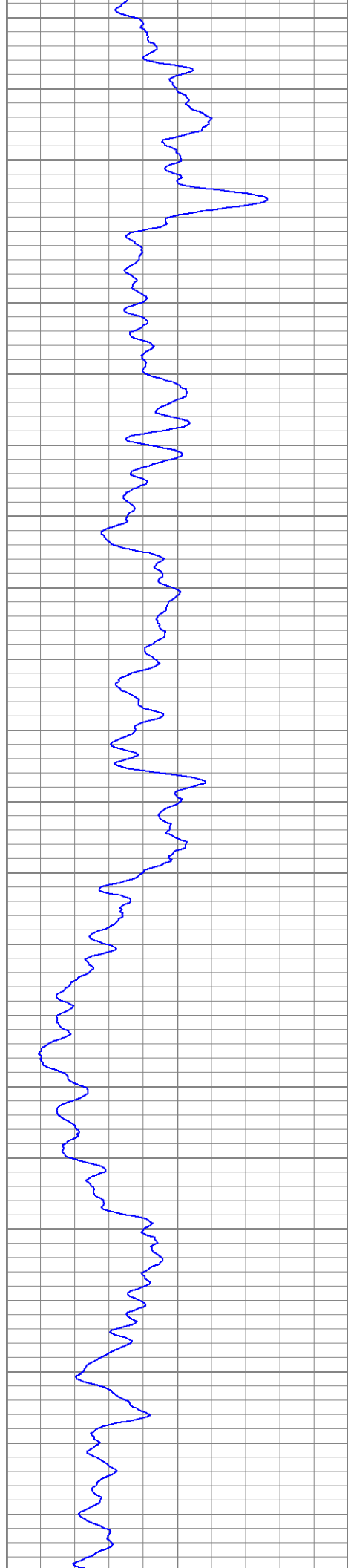
Database File	16812.db
Dataset Pathname	LL3
Presentation Format	guard
Dataset Creation	Thu Oct 11 13:05:22 2012
Charted by	Depth in Feet scaled 1:240

40	Gamma-Ray (GAPI)	140	0	RSN (Ohm-m)	100
			0	RLN (Ohm-m)	100
			0	RMF (Ohm-m)	100
			0	RLL3 (Ohm-m)	100
			100	RLL3 x 10 (Ohm-m)	1000
			100	RSN x 10 (Ohm-m)	1000
			100	RLN x 10 (Ohm-m)	1000







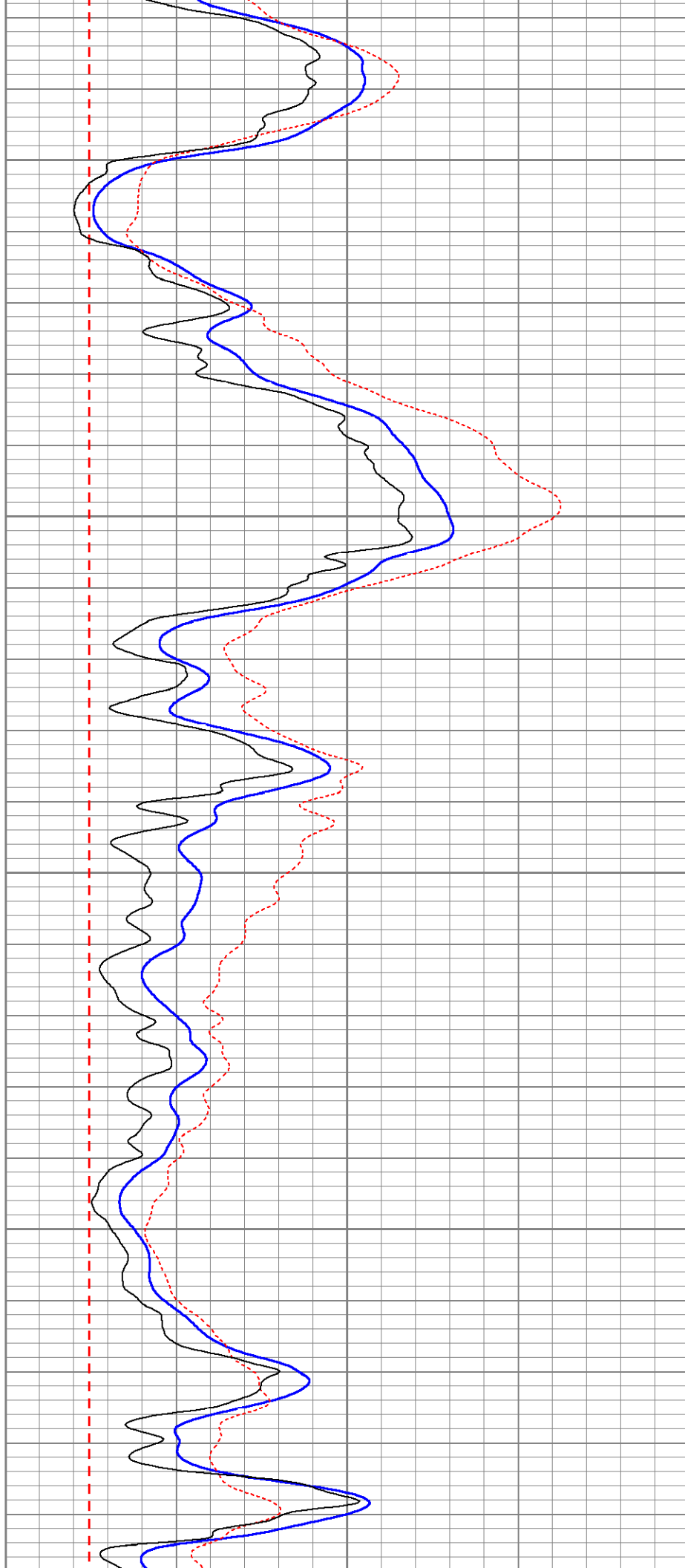


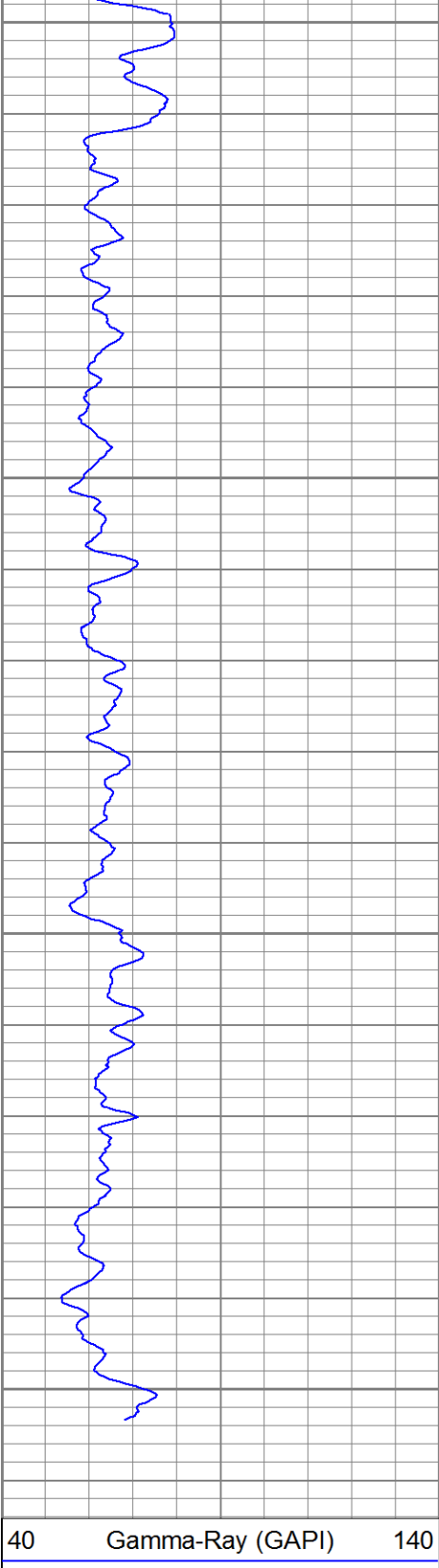
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600

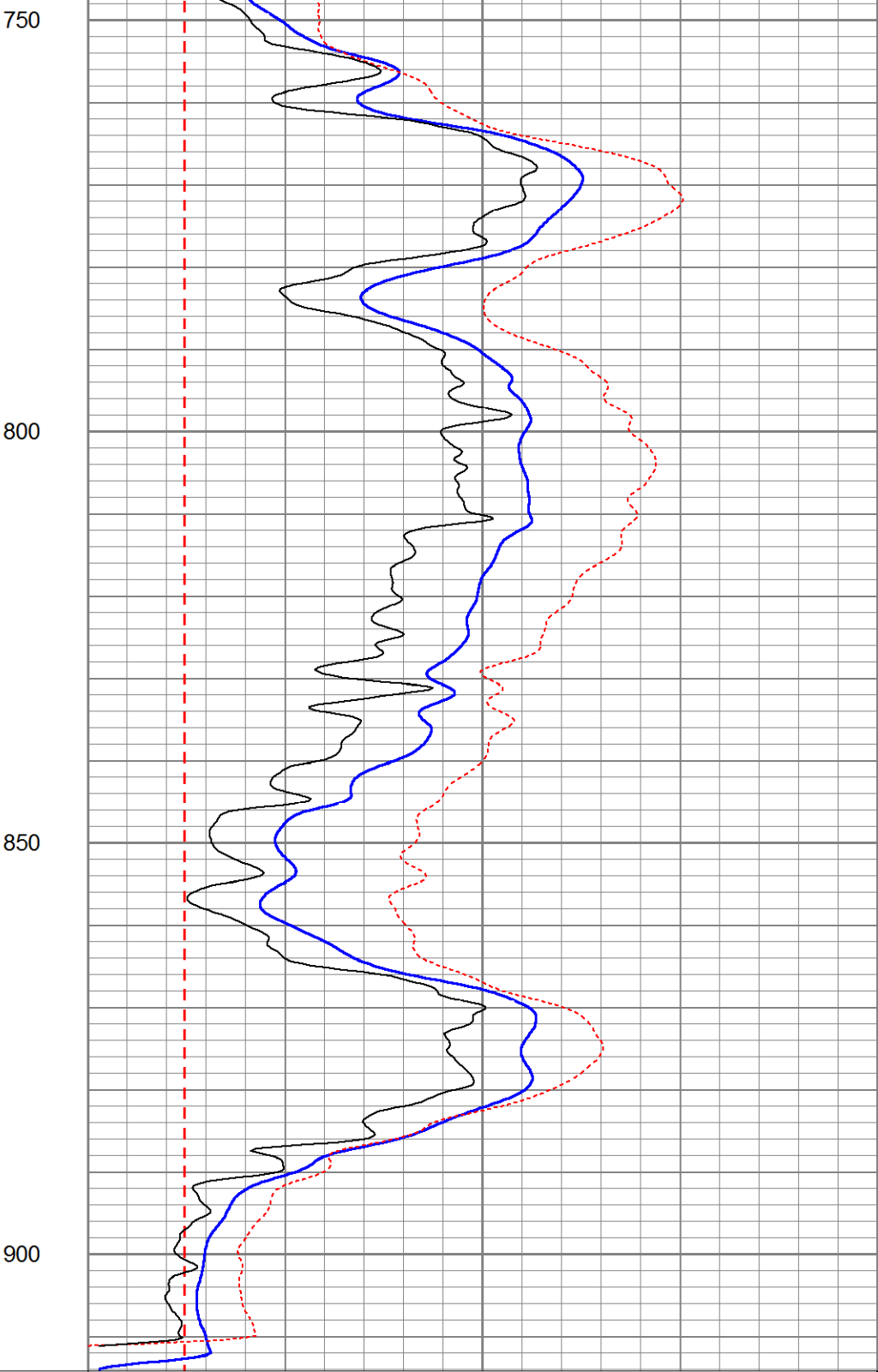
650

700





40 Gamma-Ray (GAPI) 140



0	RSN (Ohm-m)	100
0	RLN (Ohm-m)	100
0	RMF (Ohm-m)	100
0	RLL3 (Ohm-m)	100
100	RLL3 x 10 (Ohm-m)	1000
100	RSN x 10 (Ohm-m)	1000
100	RLN x 10 (Ohm-m)	1000