NEVADA DIVISION OF
ENVIRONMENTAL PROTECTION

STATE OF NEVADA
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May 13, 2015

Jason Reed
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Re: **NV Energy (NVE)**
Reid Gardner Station (RGS)
NDEP Facility ID #H-000530
Nevada Division of Environmental Protection (NDEP) Comments and Concurrence with:
Laser Induced Fluorescence Investigation Report

Dear Mr. Reed:

The NDEP has received and reviewed NVE's *Laser Induced Fluorescence Investigation Report*. The report, dated March 9, 2015, was received by the NDEP on March 10, 2015.

The report documents the results of a laser induced fluorescence (LIF) investigation completed at the petroleum source areas within the RGS plant in 2014. The LIF direct-push tool was used to investigate areas within the main plant that might be impacted by light non-aqueous phase liquid (LNAPL). The objectives of the investigation were to 1) delineate the vertical and horizontal extent of petroleum in the subsurface, and 2) establish an area that might undergo potential remediation in the future. A total of 138 LIF locations and 21 confirmation soil borings were evaluated.

The NDEP has the following observations to the LIF report, which do not need a formal response:

1. The NDEP concurs with the conclusion that the data indicate that the former Diesel AST (SA-12) was not a source.
2. The NDEP notes that the investigation was somewhat limited in the near surface by the fact that an air knife was used to a depth of 6 feet at each location tested to check for underground utilities. Evidence of surface spills that may have been extensive enough to reach groundwater may have been missed due to this methodology. The NDEP notes that NVE has acknowledged this limitation.
3. The distribution of NAPL is somewhat complex. Several factors affecting the occurrence of NAPL will need to be considered in developing a remedial strategy. On page 4-8 the report states that the presence of coarser grained materials would be expected to have lower TPH concentrations. This may be true in areas where NAPL may have moved through the coarser intervals leaving only residual hydrocarbons, but where LNAPL exists it can preferentially stay within larger pore spaces due to capillary forces restricting flow into smaller pores. Also, percent LNAPL saturation tends to be higher in coarse-grained

materials than in finer-grained materials, so a greater amount of mass can occur in the coarser sediments within NAPL zones.

The NDEP concurs with the conclusions presented in the report. Please contact me with any questions or comments about this letter at (775) 687-9396 or aoakley@ndep.nv.gov

Sincerely,

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Environmental Scientist III
Bureau of Corrective Actions
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Laser Induced Fluorescence Investigation Report

NV Energy
Reid Gardner Station

June, 2015
25535.01

Stanley Consultants INC.

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Certifications

NV Energy Certification

I certify that this document and all attachments submitted to the Division were prepared under the direction or supervision of NV Energy in accordance with a system designed to gather and evaluate the information by appropriately qualified personnel. Based on my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted and provided by NV Energy is, to the best of my knowledge and belief, true, accurate, and complete in all material respects. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____
Name: Kevin Geraghty
Title: Vice President Power Generation
Company: NV Energy
Date: _____

Certified Environmental Manager (CEM) Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

Signature:	
Name:	Rebecca L. Svatos
Title:	Project Manager
Company:	Stanley Consultants
Date:	
EM Certificate Number	EM-1931
EM Expiration Date:	9/30/2015

Section 1

Introduction

The Reid Gardner Generating Station (Station) is a coal-fired electric power generation facility that was developed in 1964 and became commercially operational in 1965. It previously produced approximately 557 megawatts of power from four generating units; only one unit is still operational. The Station is located approximately 45 miles northeast of Las Vegas, within the Moapa Valley. The Bureau of Land Management (BLM) manages land to the east of the Station, which is largely vacant. The privately-owned Hidden Valley Ranch owns land south east of the Station that is mainly used as cattle pasture.

NV Energy and the Nevada Division of Environmental Protection (NDEP) entered into an Administrative Order on Consent (AOC) for the Station on February 22, 2008 (NDEP and NV Energy, 2008). The AOC governs the performance and/or completion of environmental characterization, corrective actions, and long-term operations and maintenance as necessary to address soil and groundwater impacts at the Station.

The laser induced fluorescence (LIF) investigation using Ultra-Violet Optical Screening Tool (UVOST®) technology was completed from August 7 through December 5, 2014, to evaluate the nature and extent of petroleum contamination in the area of product piping associated with the former diesel 850,000-gallon above ground storage tank (AST) and historical underground storage tanks (USTs) reportedly connected to this piping. This area is identified as Potential Petroleum Source Area 14 (SA-14), "Former Underground Product Piping, Petroleum Tanks", in the *Preliminary Source Area Identification and Characterization Report* (PSAICR) approved by the NDEP on July 15, 2013 (Stanley Consultants, 2013).

NV Energy submitted the *Laser Induced Fluorescence Investigation Work Plan at Former Underground Product Piping, Petroleum Tanks (Source Area 14)* (Work Plan) (NV Energy, 2014) to NDEP in February, 2014. Approval of the Work Plan was received from NDEP, with

comments, on February 13, 2014. The comments were addressed by NV Energy on February 27, 2014. NDEP provided final approval on March 12, 2014.

1.1 Objective

The objectives for the LIF investigation outlined in the Work Plan are:

- Delineate the vertical and horizontal extent and distribution of light non-aqueous phase liquid (LNAPL) within the investigation boundary to support a review of corrective action approaches for LNAPL remediation in soil and groundwater.
- Establish a physical area within the investigation boundary that could undergo potential, future remediation activities by correlating groundwater and soil sampling data with UVOST response.
- Prepare and submit to the NDEP an Investigation Completion Report presenting the results of the investigation.

This report provides the results of the LIF investigation.

Section 2

Background

The PSAICR describes 35 potential source areas and includes available details on historical operations and investigations at each potential source area. The eight potential petroleum source areas are locations where a documented or suspected release of a petroleum-based product (diesel, gasoline, fuel oil, lubricating oil, and/or grease) occurred. The potential petroleum source areas are generally located on the northern portion of the Station near the warehouses, maintenance shops, and petroleum storage tanks. Figure 1 in Appendix A shows the locations of the eight potential petroleum source areas.

2.1 Potential Source Areas

As described in the Work Plan, the LIF investigation was focused on SA-14; however, the investigation footprint for SA-14 includes areas where other potential petroleum source areas are located. Contamination from other potential petroleum source areas may be comingled with the diesel contamination plume from SA-14. The following paragraphs summarize the potential petroleum source areas in the area of the LIF investigation (Site).

SA-14 Former Underground Product Piping, Petroleum Tanks

Approximately ten feet of diesel free product was discovered in 1986 near the vehicle maintenance building. Field investigations of the diesel release were conducted in 1986 and 1987. These investigations focused on identifying groundwater contamination and delineating the free product plume. These investigations suggested that approximately 400,000 gallons of fuel were released from leaking underground product piping associated with the 850,000-gallon diesel fuel AST. The piping connected the AST with at least three reported former USTs. Piping was added and likely modified over the operational life of the system; the exact locations of all former piping is not fully determined. The former underground product piping and associated former USTs are considered the sources of the diesel free product. The former USTs were reportedly removed, and the product piping was reportedly partially filled with concrete. An investigation of

the former 850,000-gallon diesel AST (SA-12) confirmed that the AST was not the source of the free product. Free product recovery efforts began in 1986 and are ongoing to date.

SA–10 Former Units 1, 2, 3 Lube Oil Rack

The lube oil rack was an outdoor metal frame rack that could hold up to 35, 55-gallon drums. The drums stored on this rack generally contained oils, greases, and cleaning solvents. Below the rack was a concrete pad with grated drainage curbs leading to a closed sump. Drums are no longer stored in this area. Petroleum products and volatile organic compounds (VOCs) including trichloroethene and vinyl chloride have been detected in groundwater near this source area.

SA-11 Former Gasoline UST and Warehouse 1

There is limited information on this potential source area. A 1998 Phase I Environmental Site Assessment (ESA) stated that a 1,000-gallon gasoline UST was removed from a location east of the warehouse behind Unit 1 prior to 1991. The location of this UST is unknown. Petroleum products and VOCs, including chlorinated compounds, have been detected in groundwater near this potential source area.

SA-12 Former 850,000-gallon Diesel AST

According to historic documents, the former 850,000-gallon diesel fuel AST was installed inside an earthen containment berm as part of the original Station construction in 1964. The fuel was originally used for startup, shutdown, and flame stabilization of the coal-fired generation units. Historically, the AST also provided diesel fuel to tanks in the coal yard through underground piping. In December 2009, the AST was demolished. During the tank demolition, there were no indications that the tank bottom had been compromised. There was no visual evidence of petroleum contamination in the ring wall foundation of the removed AST, and a soil sample collected within the ring wall confirmed the absence of shallow soil contamination.

SA-13 Former Diesel Fuel Unloading Area

The former diesel fuel unloading and fuel transfer pumping area was constructed during the original Station construction in 1964 for delivering fuel to the diesel fuel AST. Aboveground fuel piping connected the AST to the unloading and transfer station. From the transfer station, the piping continued above ground to several generating units and below ground to refueling areas (SA-14). Three diesel releases are associated with the former unloading and transfer area; however, visually contaminated soil was excavated after each release.

SA-15 Free Product Recovery System

NV Energy has been recovering diesel free product since 1986. A Dual Phase Extraction system was installed by NV Energy in October 2003 and began operation in November 2003 to remove diesel free product and water from the subsurface and to establish hydraulic controls to impede plume migration. Historical diesel releases have been reported due to the free product recovery system equipment failures; however, visually contaminated soil was excavated after each release.

SA-16 Vehicle Maintenance Area

The Vehicle Maintenance Area began operations at the Station in approximately 1973 and consists of a storage building, vehicle maintenance building, a maintenance area for light work and vehicle washing, and an outdoor storage area for oils, hydraulic fluid, degreasers, engine cleaners, and detergents. Petroleum products and some VOCs have been detected in soil and groundwater near this potential source area.

2.2 Geology and Hydrogeology

The Station is located in the Moapa Valley, with mountains surrounding the Station that consist of complex folded and faulted blocks of sedimentary and igneous rocks. The Moapa Valley floor sediments are described as gravel, sand, silt, and clay that were deposited in a former lake environment that covered much of southern Nevada. These former lake bottom deposits formed the Muddy Creek Formation in the Moapa Valley area. The Muddy Creek Formation is overlain with alluvial deposits in the valley. The alluvial deposits mainly consist of clay, silt, and sand, with gravel deposits of dolomite, limestone, and volcanic rocks. The Muddy River meanders through the center of the Moapa Valley.

The investigation area within the Station is located in the Moapa Valley. The surface sediments are alluvial deposits that mainly consist of clay, silt, and sand. The Muddy Creek Formation underlies the alluvium and slopes from a depth of approximately ten feet below ground surface (bgs) at the north end of the Station to an estimated 75 feet bgs near the Muddy River.

The uppermost groundwater occurs in the alluvial formation for most of the LIF investigation area. At the north end of the Station, the uppermost groundwater may occur in the Muddy Creek Formation. In this area, groundwater generally flows toward the southeast. Cobbles and gravel have been observed in the LIF area during historical site investigations. Groundwater elevation information is included as Figure 2 in Appendix A.

Section 3

Field Investigations

The LIF investigation activities began on July 30, 2014 and continued through August 29, 2014. A break in the field work was planned due to the Labor Day holiday on September 1, with drilling planned to resume the week of September 8. However, heavy rains on September 8 caused the Muddy River to flood the Station property; roads were washed out and the Site became inaccessible for the LIF investigation activities. The field investigation was suspended. Field activities resumed on December 1, 2014, and continued through December 10, 2014. The final field activities were surveying of the LIF locations which were completed on January 20, 2015. The parties participating in the LIF investigation are listed in the following table.

Table 3-1
LIF Activities Parties

Company	Responsibility
NV Energy	Surveying
USA North Utilities	Utility clearances
National EWP	Utility clearances
Vironex	Direct push investigations with UVOST and soil borings
Stanley Consultants	Field oversight, soil sampling

3.1 Technology Overview

The UVOST is a direct-imaging screening tool created by Dakota Technologies that provides real-time, in-situ field screening of petroleum-based non-aqueous phase liquids (NAPLs). The UVOST uses LIF technology to detect NAPLs. The LIF can identify petroleum fuels and oils

(gasoline, kerosene, diesel fuel, jet fuel and hydraulic fluids), coal tar, and creosote, as well as other petroleum-based products.

Petroleum products contain polycyclic aromatic hydrocarbons (PAHs) which naturally fluoresce under ultra-violet light. The screening tool consists of a steel probe and rods equipped with optical fibers that are pushed into the subsurface. The laser light from the UVOST causes the PAHs to fluoresce, and this fluorescence is measured through a sapphire window on the side of the probe. The fluorescence is transferred through the optical fibers to a computer system for evaluation.

Before each push is started, the system is calibrated by applying the reference emitter (RE) fluid to the sapphire window and recording the response. The calibration checks the system to verify that the optics is working and normalizes the data from fluctuations between probes. The LIF UVOST results are expressed as a percentage of RE response (%RE). The total fluorescence readings, as %RE, are used to estimate the quantity of NAPL present.

In addition to identifying the presence of NAPL, the UVOST system creates a multiple-wavelength waveform (MWW) to qualitatively evaluate the type of NAPL. The waveform is a combination of the fluorescence intensity (voltage), the fluorescence channel (the time it takes the wavelength to reach the window), and the fluorescence lifetime (the time it emits fluorescence after exposed to the laser). The waveforms are shown on the UVOST logs as callouts with four waveforms colored as blue, green, orange, and red peaks. Each NAPL type has a unique waveform "fingerprint" due to the relative amplitude of the four channels and/or broadening of one or more channels. In general, waveforms from fuels dominated by 2-ring PAHs (kerosene, gasoline) are weighted toward the shorter wavelength (blue) channel. Mid-range fuels, such as diesel, have a broad distribution of 2-, 3-, and 4- ring PAHs and are weighted towards the green wavelength, though they are generally distributed across all channels (blue, green, orange, and red). Fuels dominated by the larger 4- and 5- rings (heating oils, crude oil, motor oil, and coal tar) have fluorescence waveform weighted in the high end (orange and red channels). Reference information from Dakota Technologies is included in Appendix B, including common waveform fingerprints.

3.2 Investigation Preparations

Prior to developing the Work Plan, NV Energy completed initial data gathering to determine if UVOST technology would be effective at the Site. In September 2013, NV Energy provided a representative sample of free product recovered at the Site to Columbia Technologies to determine if the product would fluoresce. Columbia Technologies stated that the product was a good candidate for LIF, with double the response of the RE standard. In April 2014, NV Energy conducted a pilot drilling program to determine if direct push with UVOST was possible at the Site. The pilot program was completed by Matrix Environmental and supervised by NV Energy. Matrix concluded that, although drilling was difficult in four of six completed locations, the target depths were achieved in five of the locations. Matrix stated that direct push would work in the lithology at the Site. In addition, NV Energy reviewed historical soil and groundwater analytical laboratory data and boring logs to determine areas most likely impacted by LNAPL. Based on indications that the product at the Site had an adequate response and the success of direct push, NV Energy prepared the Work Plan for the LIF investigations. Up to 150 LIF UVOST locations

were proposed with an approximate grid spacing of 30 feet within the proposed investigation boundary (see Figure 3 in Appendix A). The investigation boundary was established as the estimated extent of the vadose zone soils impacted by petroleum.

3.3 Utility Clearances

Site utilities were cleared prior to all LIF UVOST and soil boring work. Prior to mobilization to the Site, Stanley Consultants contacted the USA North Utilities locating service and reviewed historical engineering plans for potential utility locations. As an added precaution, National EWP removed the upper six feet of soil with an air knife at each location.

The air knife activities began on July 30, 2014, three days prior to starting the LIF UVOST activities. National EWP utilized high-velocity air to break up the soils and then removed the soils and rock with a vacuum truck. The soil removed from each location was screened using a photoionization detector (PID) and both visual and olfactory observations were made. The PID readings for all of the soils removed during the air knifing were less than 100 parts per million (ppm) hydrocarbons, with the highest PID reading measured at 65 ppm. Therefore, the cleared holes were backfilled with the original soil. In addition, bentonite chips were placed in each cleared location. The cleared locations were marked with different colored flagging whiskers to identify locations that were cleared for LIF probes and to identify locations with underground utilities.

3.4 UVOST Investigations

The LIF UVOST work was completed by Vironex. A Geoprobe® 6600 four-wheel drive box truck-mounted direct push rig was used to advance the LIF UVOST probe at each location. The UVOST computer system and a work station were located inside of the truck box. An integrated Electrical Conductivity (EC) sensor was added to the UVOST probe to log EC during the probe advancement. Before each probe advancement, Vironex verified the calibration of the detector response strength (%RE) using standard oil provided by Dakota Technologies, and verified that the EC probe was online. As the locations were completed, the UVOST logs were transmitted via e-mail in real-time or daily to the Stanley Consultants project manager. After each push, the rods and probe were wiped down with a clean cloth. The UVOST logs are included in Appendix B, and a figure showing completed locations and completed depths is included as Figure 4 in Appendix A. NV Energy and Stanley Consultants evaluated the data throughout the investigations and used this information to select the next investigation locations.

The LIF UVOST investigation began on August 7, 2014. The first probes were completed on the north side of the Site, near the current remediation system (LIF probes W8 to Y13). The direct push was encountering refusal at shallow depths (above the groundwater table) in this area. The investigation moved to the south of the maintenance building (LIF probes Y17 through AD22). Due to difficult drilling in some areas, there was damage to a probe and a mirror became misaligned. In addition, the EC was only working sporadically and the drilling rig had mechanical issues. Vironex returned to their shop on Tuesday, August 12, to repair the system. On Tuesday, August 19, Vironex returned to the Site and work continued to the west and south of the maintenance building. At Y13, the UVOST encountered refusal at 14.76’ bgs. A macro-core sampler was pushed from 10’ to 15’ bgs and from 15’ to 16’ bgs to determine the cause of the

refusal. The material in the core consisted of approximately one foot of reddish brown poorly cemented sandstone overlaying reddish brown siltstone and fine sand. The material in this core looked similar to material found in the Muddy Creek Formation in the area of the Station. Vironex continued to have problems with the EC probe working only sporadically, broken rods, and mechanical problems due to difficult drilling in the northern part of the Site.

The investigation continued into the northern portion of the Units 1 – 3 coal pile where coal had been removed to allow access for the LIF activities. The UVOST results indicated LNAPL was present not only in the northern portion of the coal pile, but likely continued into the southern portion as well. Because available information prior to the LIF investigations did not indicate the presence of LNAPL in the southern part of the coal pile, coal had not been removed in that area. The investigation moved to the west to evaluate the former lube oil rack area while NV Energy removed coal to provide access to additional areas within the southern portion of the Units 1 – 3 coal pile. During August 7 to 29, 2014, a total of 97 LIF UVOST locations were completed.

A break in the field work was planned due to the Labor Day holiday on September 1, with drilling scheduled to resume the week of September 8. However, heavy rains on September 8 caused the Muddy River to flood the Station property; roads were washed out and the Site became inaccessible for the LIF investigation activities. The field investigation was suspended. The field activities resumed on December 1, 2014. From December 1 through 5, an additional 41 probe locations were completed. The locations completed in December were chosen to fill data gaps and delineate the LNAPL impact in the southern portion of the Units 1 – 3 coal pile. Coal was moved to allow temporary access for the investigations. The ground was still wet in some areas of the Site from the recent heavy rains, which limited the areas that the Geoprobe could access. The EC malfunctioned and did not work the week of December 1 through 5. Vironex stated that because the EC is attached to the probe, the wires must be fed through a small opening in the center rods. Twisting, hammering, and rubbing of the wires on the rod can cause intermittent or sustained problems with the readings. During the December field activities, Vironex attempted to fix the EC several times with no success. It was decided that the LIF UVOST data was most important and; therefore, additional time was not spent on EC repairs. The available EC results are included on the UVOST logs in Appendix B. A total of 138 LIF locations were completed for the investigation.

3.5 Confirmation Soil Borings

Soil borings were completed on December 8 and 9, 2014, for soil sample collection to confirm LIF UVOST detection of LNAPL soil impacts, and to quantify Total Petroleum Hydrocarbons (TPH) concentrations in areas of UVOST response.

The soil borings were advanced at the locations shown on Figure 6 in Appendix A by Vironex using the Geoprobe 6600 DP rig. Discrete soil samples were collected at pre-determined depths using a macro-core sampler with dedicated clear PVC liners. The liners were cut to remove the soil sample and the soil was placed in laboratory-provided jars. The field geologist did not log the entire soil borings; however, he did note observations regarding the soil samples that were collected.

Sample locations were selected to evaluate results in areas of the Site with different lithologies, and %RE readings. Two soil borings were completed in locations with less than 10%RE; locations assumed to have minimal LNAPL impact. The soil borings were completed within five feet of the UVOST probe at each location. Samples were placed in laboratory jars supplied by Veritas and placed on ice in coolers under standard laboratory chain-of-custody (COC) procedures. The samples were analyzed for TPH using EPA method 8015 and the results were reported as total TPH, gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO). Select soil samples with TPH concentrations exceeding 100 milligrams per kilogram (mg/kg) were additionally analyzed for VOCs by EPA Method 82608 and PAHs by EPA Method 8270C.

3.6 Survey

As the LIF UVOST probes and soil borings were completed, Stanley Consultants marked the locations with different colors of flagging whiskers and white flags with the location names. The completed locations were surveyed by NV Energy surveyors on September 8, 2014 and January 20, 2015. The NV Energy survey included northing, easting, and ground surface elevation at each location. Coordinates were referenced to State Plane Nevada East 2701. Several locations could not be found by the surveyors during the January surveying event due to flagging that was lost during the flooding. These locations were estimated using global positioning system (GPS) coordinates and manual measurements collected in the field at the time work was completed. The survey locations are included as Table C-1 in Appendix C.

3.7 Investigation Derived Waste

Investigation derived waste generated during the LIF investigation was limited to surface soil (from the surface to no more than six feet bgs) removed during utility clearance. The majority of the soil disturbed was placed back into the cleared location; however, at some locations all of the cuttings would not fit back into the cleared hole. The additional soil was placed in 55-gallon drums and stored on-site. Soil cuttings were screened with a PID and all cuttings measured less than 100 ppm. In addition, the soil visually appeared clean and there were no noticeable hydrocarbon odors. Approximately six 55-gallon drums of soil were generated and disposed in NV Energy's onsite landfill in accordance with their Southern Nevada Health District (SNHD) Class III landfill permit.

Section 4

Results

4.1 UVOST Results

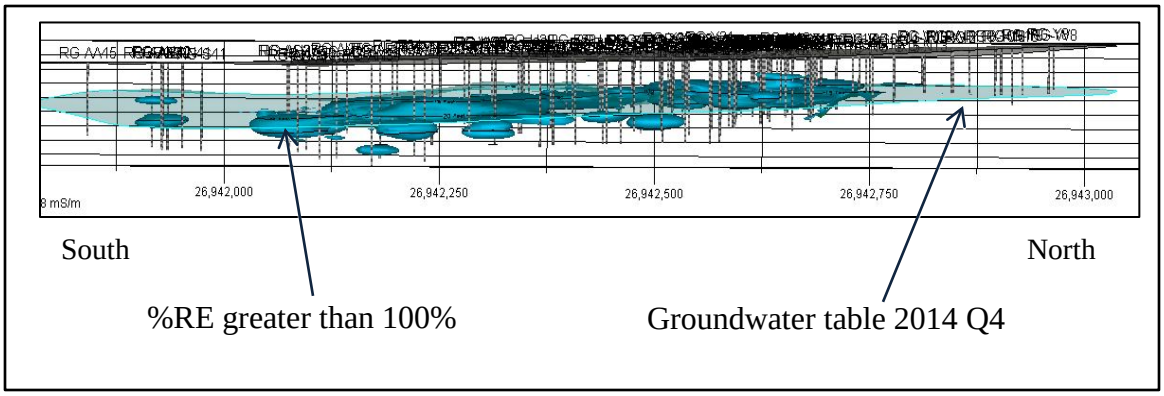
Between August 7 and December 5, 138 LIF UVOST probes were advanced at the Site. The goal was to advance the LIF UVOST probes through the observed NAPL impact into underlying clean soil. The target depth was determined by field observation of the real-time logs, known historical groundwater, and NAPL impact data. If NAPL impact was not observed, the goal was to advance the probe two feet below a "low" %RE response. The upper six feet at each probe location was disturbed by air knifing, therefore information from this interval was not used in the evaluation. The total depths of the probes ranged from approximately 8' – 36' bgs, as shown on Figure 4 in Appendix A.

Figure 4 also shows if the probe was estimated to have reached the groundwater table. The groundwater table elevations are based on groundwater elevation data collected during the fourth quarter 2014 groundwater monitoring event conducted in October, 2014. The groundwater table elevations at the time of the LIF investigations were approximate because the measurements in monitoring wells were made in August 2014 while the LIF investigations were conducted between August and December 2014. In addition, there are no active monitoring wells in the Units 1 – 3 coal pile area. Of the 138 LIF locations, 76 were completed to the estimated groundwater table depth, and 21 likely did not reach groundwater due to refusal.

Vironex provided two project reports and Four-Dimensional Interactive Models (4-DIM) of the LIF results. The reports are included in Appendix B, and models are included on the CD submitted with this report. Vironex completed the modeling by using data collected from the LIF logs with modeled interpretation between measured locations. Stanley Consultants provided Vironex with the survey data for the locations and the estimated groundwater table elevations, based on groundwater elevation data collected during the fourth quarter 2014 groundwater monitoring event.

Figure 4-1 is a screen capture from the 4-D model, showing the groundwater table relative to the LNAPL identified with %RE greater than 25%. This is a cross-section showing the entire LIF investigation area. The groundwater table is shown as a light blue layer, and the blue ovals are models of the NAPL areas with response strength greater than 100%RE.

Figure 4-1
UVOST 4-D Model Cross-Section Example



The maximum %RE measured during the investigations ranged from 0% to 850%, as shown on Figure 5 in Appendix A. In general, if the maximum %RE was greater than 25%, the field crew attempted to step out from that location and complete another probe location. The investigation could not extend to the east beyond the NV Energy property line because BLM access was not available to conduct investigations on their land. The LIF investigations had limited success on the northern part of the Site because the subsurface material (likely the Muddy Creek Formation) was too hard for the UVOST tool to push through. The investigation was limited on the west side of the potential source areas due to safety concerns locating undocumented utilities within the plant structures. The investigation was not limited to the south in the area of the Units 1,2,3 coal pile and was completed when low %RE locations marked the maximum southern extent of LNAPL.

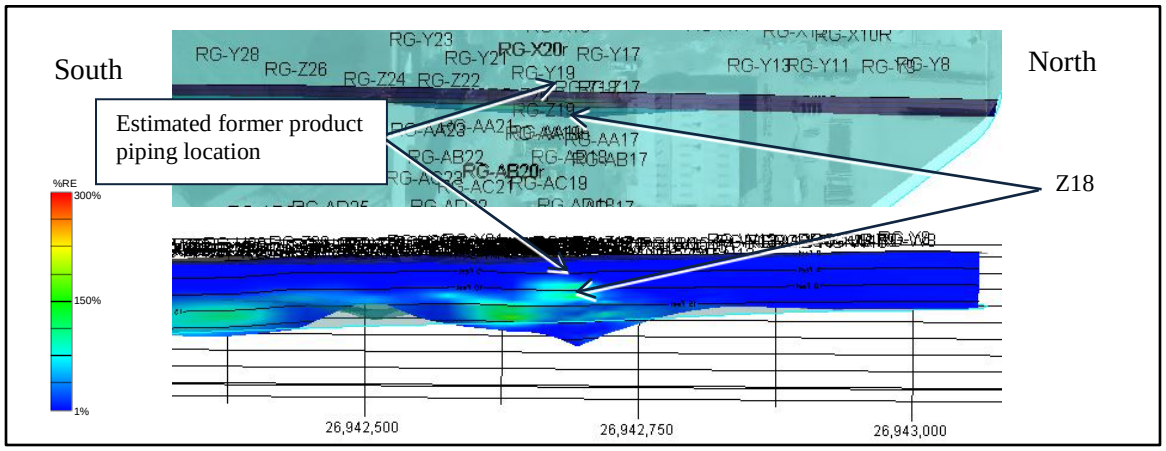
4.1.1 Potential Source Areas

Historical investigations at the Site suggest that leaks in product piping were the source of most of the diesel product released although multiple sources of LNAPL are suspected. These releases likely occurred in the vadose zone, above the groundwater table. As a result, we would expect to see NAPL-impacted soil in the vadose zone in the source areas. As the NAPL migrates downward it encounters groundwater and is then carried laterally, floating on the surface of the groundwater. As a result, we would not expect to see NAPL impact in the vadose zone outside of the source areas (except for smearing caused by fluctuations of the groundwater table). We would also expect to see the highest concentrations of NAPL at the source areas; however, at this Site the diesel remediation system has been removing some of the NAPL at some of the source areas.

SA-14 Former Underground Product Piping, Petroleum Tanks

Historical product piping and a historical diesel UST have been reported in the areas south and southwest of the maintenance building, though the exact locations are unknown. NAPL identified in this area at shallow depths in Y17, Z17, and Z19 suggests that this is a source of NAPL. The NAPL was detected from approximately six feet bgs to the refusal depth in these borings (19' to 25' bgs). Groundwater depths range from approximately 14' to 28' bgs in this area. Figure 4-2 is a screen capture from the 4-D model. An aerial view of the LIF UVOST locations is shown on top, and a cross-section of the same area is shown below. In the cross-section, the color indicates the %RE measured; the lowest %RE of 1% is dark blue, and the color changes to green, yellow, and red as the %RE increases.

Figure 4-2
LNAPL Source Area – Former Underground Piping and Tank

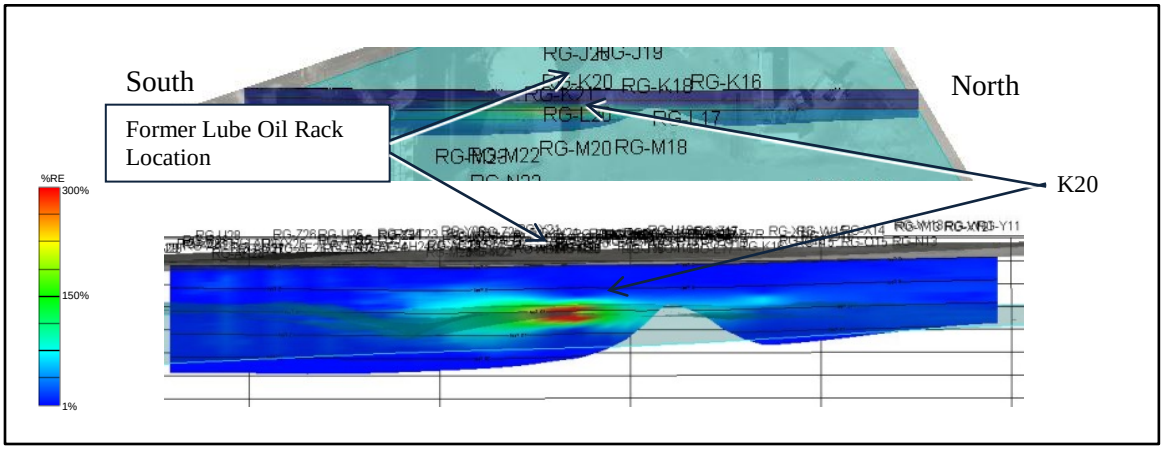


Additional historical USTs were reportedly located near AI20/AH21 (north end of coal hopper) and AH24/AI25 (west of coal hopper). NAPL was not identified in AI20 or AH21, therefore, this is likely not a source area. However, at AH24, NAPL was observed from 18' to 22' bgs with a maximum response of 233.3%RE. At AI25 NAPL was observed from 13' to 30' bgs with a maxim response of 139% RE. Groundwater in this area is estimated to range between 14'to 19' bgs; however, there are no monitoring wells near this location that are measured regularly.

SA–10 Former Units 1, 2, 3 Lube Oil Rack

At the former unit 1, 2, 3 lube oil rack area (SA-10), NAPL identified at shallow depths (six to 14' bgs) and with high response strength at K20 and K21 suggests that this may be a localized source of NAPL. Petroleum products and VOCs have previously been identified near the former units 1, 2, 3 lube oil rack. Groundwater ranges from approximately six to 18 feet bgs in this area (HM-48, 2003-2014). Figure 4-3 is a screen capture from the 4-D model, showing the groundwater table relative to the NAPL in this area.

Figure 4-3
NAPL Source Area – Former Unloading Area and Lube Oil Rack



SA-11 Former Gasoline UST and Warehouse 1

NAPL identified at shallow depths (seven feet to 15' bgs) in M23 suggests that this is near a localized NAPL source area related to SA-10 or SA-14 piping in the area. The UVOST logs at M22 and N22, north of M23, measured NAPL deeper, at 12' bgs. There is limited information on the reported gasoline UST removed from this area. Soil samples, discussed in Section 4.2, suggest that the NAPL is diesel. This area was also reportedly excavated when the bag houses were built, meaning the source area may have been partially removed or altered.

SA-12 Former 850,000-gallon Diesel AST

UVOST probes Q15 and Q17 were completed in the area of the former diesel AST. The probes were completed to approximately 12' to 14' bgs, and the maximum response was 10% RE. This confirms the previous conclusions that the diesel AST is not a source of NAPL impacts to the subsurface.

SA-13 Former Diesel Fuel Unloading Area

In the former diesel unloading area, LNAPL identified at shallow depths (less than eight feet bgs) in N13, O15, O17, and K16 suggests that this is a NAPL source area. The NAPL was detected from approximately six feet bgs to the refusal depth (19' to 25' bgs) in these borings. Historical diesel releases and subsequent soil excavation have been reported in the former diesel fuel unloading area. Groundwater ranges from approximately six to 18 feet bgs in this area (HM-48, 2003-2014). Impacts related to SA-13 and SA-14 piping may overlap in this area.

SA-15 Free Product Recovery System

Due to shallow refusal in this area the free product recovery system was not evaluated.

SA-16 Vehicle Maintenance Area

The vehicle maintenance area is near SA-14, making it difficult to distinguish NAPL impacts between the two sources. However, the source of NAPL at the maintenance building would have been surface spills and leaks therefore; impacts would be expected at the ground surface. In order to safely conduct the LIF UVOST investigation, the upper six feet of soil was disturbed with the air knife. NAPL impacts to the surface soils from the maintenance building will be evaluated in future Site investigations.

4.1.2 Nature and Extent of NAPL

As shown on Figure 5 in Appendix A, the NAPL impact appears to extend approximately 700 feet to the south and southeast of the potential source areas. The groundwater flow direction in this area is to the south/southeast. The depth to groundwater from the surface during the 4th quarter 2014 groundwater sampling event ranged from approximately 10 feet bgs near the former diesel unloading area (SA-13) and lube oil rack (SA-10), to over 22 feet bgs on the eastern NV Energy property boundary.

Figures 4-4 and 4-5 are screen captures from the 4-D model. An aerial view of the LIF UVOST locations are shown on top, and a cross-section looking through the Site from the east, facing west, is shown below. Figure 4-4 shows the areas with responses greater than 25% RE. Figure 4-5 shows the areas with responses greater than 200 %RE.

Figure 4-4
NAPL Greater than 25% RE

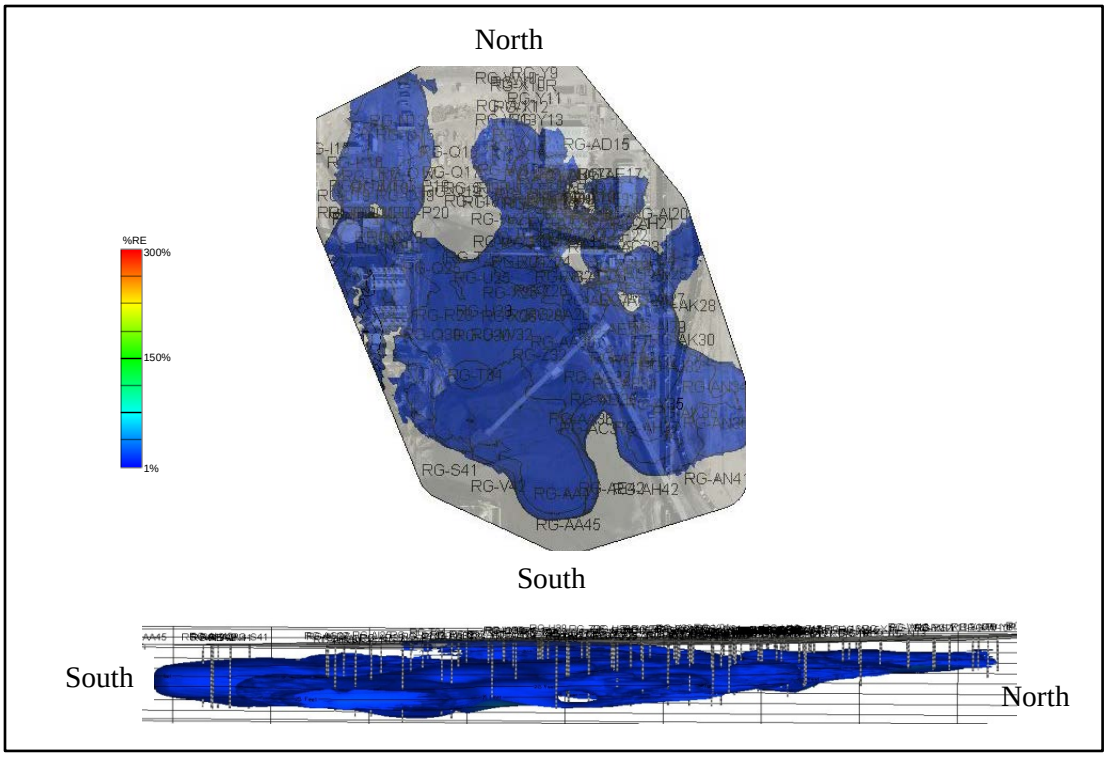
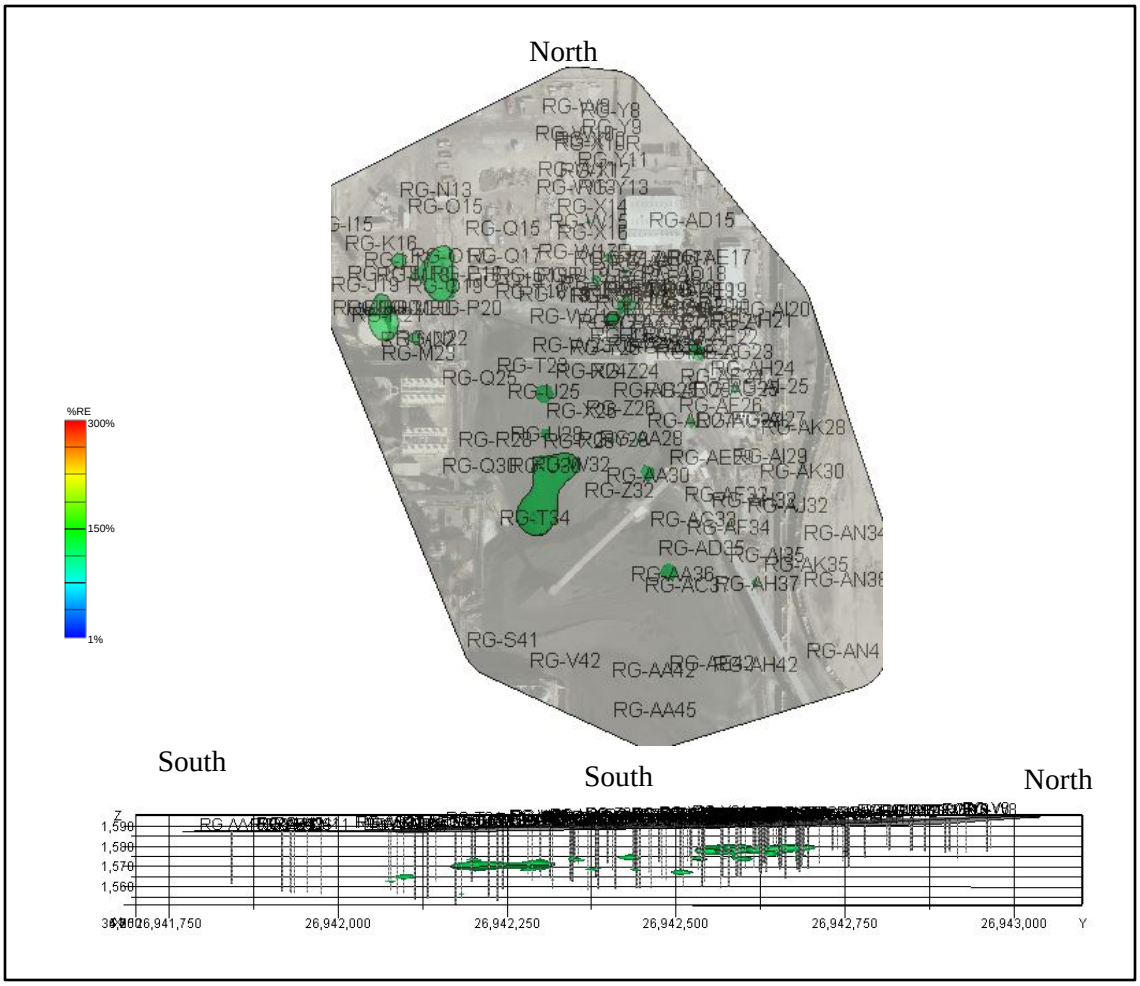


Figure 4-5
NAPL Greater than 200% RE



The LIF probes completed at a distance from the potential source areas show NAPL impacts at the depths of the groundwater table and expected smear zones. The NAPL appears to be present at increasing depths and greater vertical extent to the southeast of the potential source areas. Some locations show impacts at depths up to 20 feet below the observed groundwater table. For example at AF 34, located near HM-31R, NAPL was identified from 15' to 35' bgs with the maximum response of 286.9% RE measured at 33.28' bgs. The depth to groundwater in HM-31R ranged from approximately 13 feet to 15 feet bgs from 2007 to 2014. Sand and gravel layers, and possibly the Muddy Creek Formation at shallow depths, may be affecting the NAPL vertical migration in this area. The groundwater table has a steep gradient in this area and historical groundwater levels may have fluctuated more in this area creating larger smear zones.

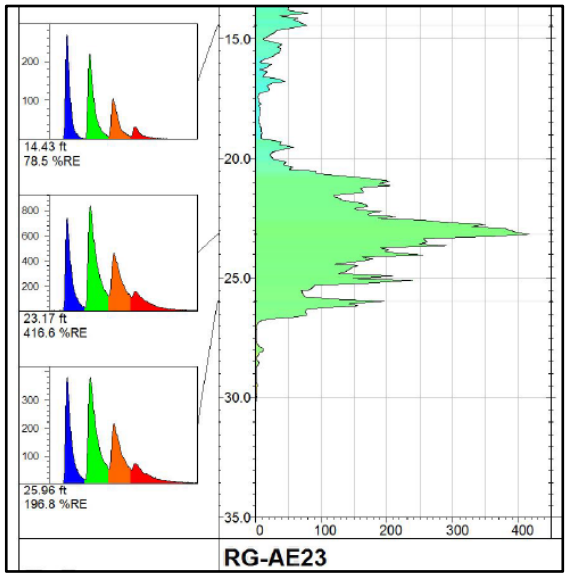
The absence of NAPL in the model results to the west and north of the maintenance building is due to probe refusal in this area; free product is currently recovered from recovery wells in this area. The lower %RE observed at the locations near the maintenance building (SA-16)

may be due to the effects of the active remediation system. The ongoing remediation of this area is expected to have removed much of the NAPL.

The NAPL plume is expected to decrease in concentration and size as it migrates away from source areas. However, beneath the Units 1 – 3 coal pile at T34 and AA30, the UVOST identified increasing %RE. The depths of the NAPL at or below the groundwater table at these locations suggest that the NAPL migrated to this area from upgradient source areas. These results should be investigated in future site-specific investigations.

Based on the free fluorescence evaluation by Columbia Technologies, historical information about the potential sources of NAPL, and historical soil and groundwater sample results a diesel reference standard was used to calibrate the UVOST system. Some of the waveforms produced during the UVOST investigation did not closely resemble diesel waveforms. In some cases the waveform was similar to gasoline and in other cases similar to heavier fuels. For example, the waveform from AE23 at 14.43 feet more closely resembled gasoline, and the waveform at 25.95 more closely resembled diesel (see Figure 4-6 below). Soil samples collected and analyzed at this location for TPH, DRO, ORO, and GRO indicated the soil had higher DRO concentrations than ORO concentrations. The LIF results can be different from fresh diesel, likely because the diesel plume is old and weathered.

Figure 4-6
Example Waveforms



Vironex utilized the 4-DIM models to estimate the volume of NAPL impacted soil. The estimated volumes are shown in Table 4-1.

Table 4-1
Estimated Volumes of NAPL Impacted Soil

%RE	Estimated NAPL Impacted Soil (cubic feet)
25	5,984,495
50	3,313,627
150	252,768
300	10,612

4.2 Soil Data

A total of 21 soil borings were completed on December 8 and 9, 2014 and 31 soil samples were collected and analyzed for TPH, DRO, ORO, and GRO. The soil boring locations are shown on Figure 6 in Appendix A. After reviewing the TPH results, select samples were chosen to be analyzed for VOCs and PAHs. Table 4-2 summarizes the soil boing data. The complete soil analytical results are shown on Table C-2 in Appendix C, and the laboratory reports are included as Appendix D.

The soil analyses were compared to the UVOST data to determine if there is a correlation between the %RE and TPH, GRO, DRO, and/or ORO concentrations. A table of the UVOST data from the soil boring interval and a graph comparing the average %RE to the laboratory data are included in Appendix C, Table C-3 and Graph C-1. In general, the %RE does not correlate well with the soil sample analytical results. This is likely due to several factors. As shown on Table C-3 in Appendix C, the UVOST response can vary significantly over short vertical intervals. The average %RE over the soil sample interval was used for comparison but the soil sample may have been collected at a depth with a higher or lower %RE response within that interval. Also, because of the heterogeneity of alluvial soils the presence of coarser grain materials (expected to have lower TPH concentrations) may vary within a boring. The ongoing remedial activities, fluctuating water table levels, and product weathering also contributed to variations in TPH concentrations and %RE within short vertical distances. An increase in %RE does not necessarily mean an increase in TPH.

This evaluation does show that the locations with RE less than 10% are not impacted by NAPL. TPH was not detected in soil sample S41 (6.2%RE maximum) and AI20 (9.6%RE maximum). It also shows that throughout the Site the TPH is composed primarily of diesel range compounds. This suggests that the waveforms, though they may not always closely resemble diesel, are likely diesel compounds. The variations in the waveforms are likely due to weathering.

Table 4-2 Soil Sampling Summary

LIF Location	Average RE% from soil interval	Soil Sample interval (ft)	TPH mg/kg	DRO mg/kg	GRO mg/kg	ORO mg/kg	VOC/PAH analysis	Note
AA30	116.37	14.5 - 15.5 ft	1400	1300	80	< 20	Yes	157.9 %RE at 14.8', near HM26 (8,800 mg/kg TPH at 16.5' in 1994)
AA30	18.83	23 - 24 ft	7000	6300	610	22	Yes	504.9%RE max at 21.82'; 21.5-22.5 coarse sand and gravel (no sample)
AE23	46.34	14 - 15 ft	3600	3200	410	26	Yes	78.5%RE at 14.43', waveforms vary with depth
AE23	317.29	22.5 - 23.5 ft	2000	1700	280	< 20	Yes	416.6%RE max at 23.16', waveforms vary with depth
AE23	100.04	25.5 - 26.5 ft	770	650	120	< 20	No	196.8% RE at 25.96', waveforms vary with depth
AF21	47.92	13.5 - 14.5 ft	1900	1700	210	< 20	No	96.5%RE at 14.52', near HM13 (1,800 mg/kg DRO at 14' in 1986)
AF21	84.17	21 - 22 ft	3400	2900	450	< 20	No	101.1%RE max at 21.29'
AF34	134.07	19.5 - 20 ft	2000	1800	230	< 20	No	194.3%RE at 20.11', near HM31R (B,E,X, and PAH in gw 2010)
AF34	189.68	33 - 34 ft	6500	5700	770	23	Yes	286.9%RE max at 33.28'
AG25	143.21	19.5 - 20 ft	5700	4900	760	30	No	332.4%RE max at 20.53', near HM14 (14,000 mg/kg DRO at 24' in 1986)
AI20	7.09	17.5 - 18 ft	< 10	< 20	< 10	< 20	No	9.6%RE max at 10.05'
AK35	29.01	18.5 - 19.5 ft	4900	4600	280	48	Yes	122.9%RE max at 22.68', near HM20 (free product well)
AK35	54.38	21.5 - 22.5 ft	1200	1000	180	< 20	No	52.7%RE at 18.94', near HM20 (18,000 TPH @17.5', 1994)
K20	627.68	10 - 10 ft	11,000	7100	1600	2100	Yes	850.3%RE max at 9.92'
M22	325.28	15 - 15 ft	400	280	18	100	Yes	799.7%RE max at 14.82' ; product on UVOST probe, low PID in soil
M23	141.60	10.5 - 11.5 ft	8000	6800	1100	84	Yes	202.9%RE max at 10.8', near RB-16 (12.5 mg/kg GRO at 5',1998)
O15	130.28	10 - 11 ft	3100	2800	110	220	Yes	448.4%RE max at 10.59'
O15	20.22	13.5 - 14.5 ft	6200	5500	270	390	Yes	60.4%RE at 13.9'
O17	285.98	10.5 - 11.5 ft	1200	1100	59	66	Yes	544%RE max at 10.86'. near RB12 (1,600 mg/kg TPH at 10', 1998)
O19	570.46	11 - 12 ft	11,000	10,000	640	470	Yes	711.3%RE max at 11.67'
R28	84.79	17.5 - 18.5 ft	460	430	30	< 20	No	158%RE max at18.05',
S41	3.78	18.5 - 19.5 ft	< 10	< 20	< 10	< 20	No	6.2%RE max at 18.66'
U25	90.61	14.5 - 15.5 ft	460	440	16	< 20	Yes	140.7%RE at 15.01'
U25	319.23	18 - 19 ft	3600	3400	210	38	No	451.7%RE max at 18.58'
W15	205.44	14.5 - 15.5 ft	8400	7200	1200	36	Yes	369 %RE max at 14.76', refusal at 18'
X18	40.02	8.5 - 9.5 ft	28,000	25,000	3000	340	Yes	93.3%RE at 8.79', waveforms vary with depth
X18	91.89	14.5 - 15 ft	16,000	14,000	1800	160	Yes	404.5%RE max at 14.87', waveforms vary with depth
Y17	83.45	9 - 10 ft	15,000	13,000	1600	140	Yes	178.5%RE at 9.44'
Y17	212.47	17 - 18 ft	5800	5000	770	70	No	392.4%RE max at 17.46', near RB68 (20,000 mg/kg TPH at 15', 2000)
Z18	143.71	12 - 13 ft	13,000	11,000	1600	65	Yes	496.5%RE max at 11.65'
Z22	86.21	12 - 13 ft	44,000	39,000	5200	110	Yes	228.6%RE max at 12.44', near HM-47 and active diesel AST

Section 5

Conclusions and Recommendations

The objectives for the LIF investigation were:

- Delineate the vertical and horizontal extent and distribution of LNAPL within the investigation boundary to support a review of corrective action approaches for LNAPL remediation in soil and groundwater.

  The vertical and horizontal extent of LNAPL was defined within the investigation boundary. Although the shallow refusal limited the investigation to the north of the maintenance building, the NAPL has been defined in this area by historic soil borings. The NAPL boundary outside of the investigation boundary to the south of the coal pile was also determined. Investigation of NAPL off-site and to the west of source areas SA-10 (former units 1, 2, 3 lube oil rack) and SA11 (former gasoline UST and Warehouse 1) will be conducted with future site-specific investigations.

- Establish a physical area within the investigation boundary that could undergo potential, future remediation activities by correlating groundwater and soil sampling data with UVOST response.

  Although the analytical data for this investigation did not correlate in all instances to the UVOST response, the investigation resulted in a better understanding of the lateral and vertical extent of NAPL impacts.

- Prepare and submit to the NDEP an Investigation Completion Report presenting the results of the investigation.

  This report presents the results of the LIF UVOST investigation.

The LIF investigation was conducted to evaluate the presence of NAPL in the subsurface for future activities planning. This information will be used for planning further evaluation of site-specific source areas SA-10, SA-11, SA-13, SA-15, and SA-16 to address localized impacts, and

evaluating future remediation of the diesel free product due to SA-14. Based on prior investigation and LIF results, SA-12 does not appear to be a source area and a no further investigation request will be prepared. In addition, this data will be incorporated into the CSM that is being developed for the Station under the AOC. Source area work plans will be submitted to the NDEP in 2015 for SA-10, SA-11, SA-13, SA-15, and SA-16 to investigate each potential source area in more detail for localized impacts. The results of the LIF investigation will support further evaluation of this area to support potential corrective action planning to address the larger diesel plume associated with SA-14.

Section 6

References

NDEP and NV Energy, 2008. *Nevada Division of Environmental Protection*, *Administrative Order on Consent (AOC)*, February 22, 2008.

NV Energy, 2014, Laser Induced Fluorescence Investigation Work Plan at Former Underground Product Piping, Petroleum Tanks (Source Area 14) – Revised, February 2014. Final, March 12, 2014.

Stanley Consultants, 2013. *Preliminary Source Area Identification and Characterization Report*, NV Energy, Reid Gardner Station, Moapa, Nevada, Final, July 2013.

Section 7

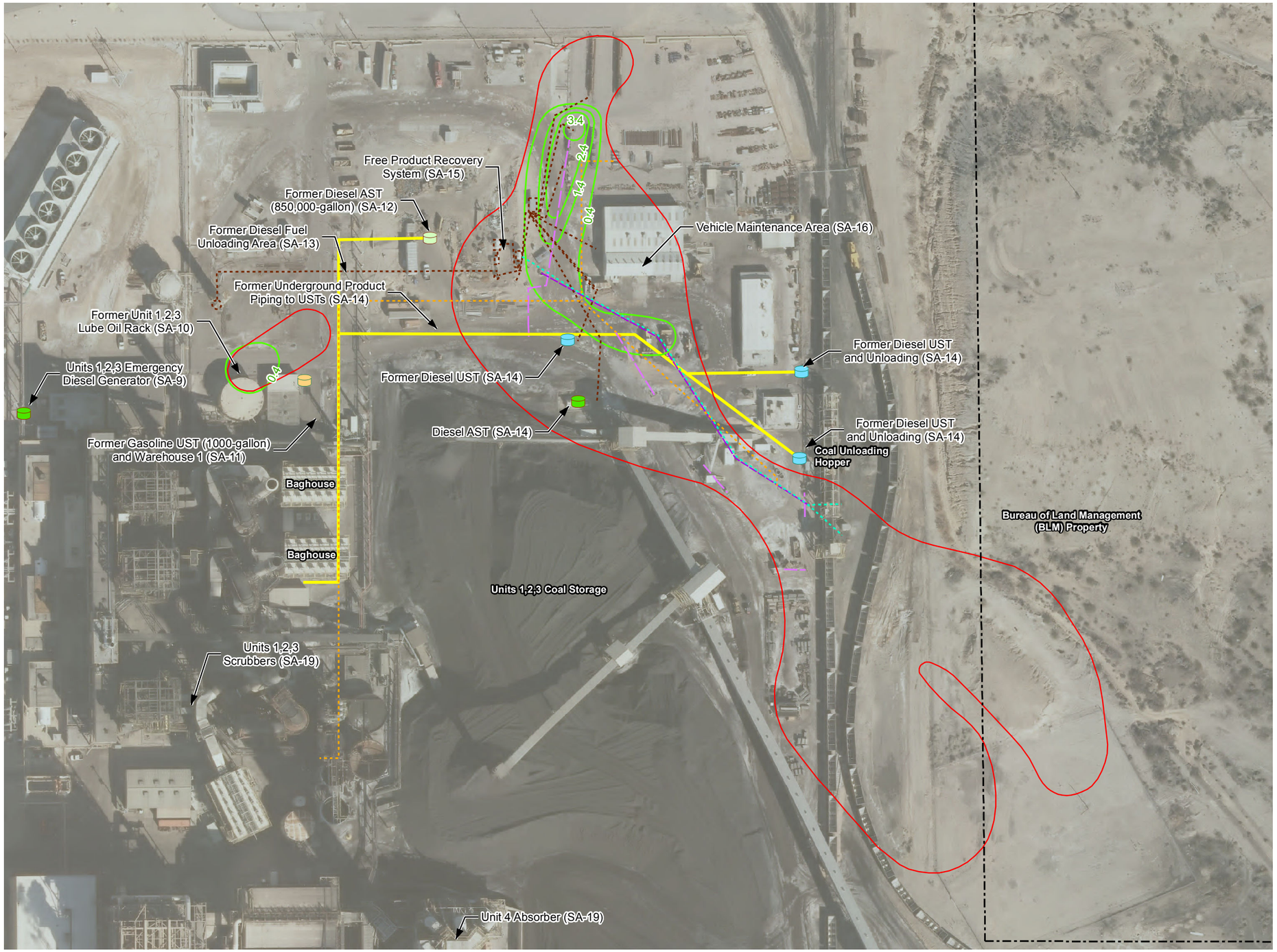
Acronyms and Abbreviations

AOC	Administrative Order on Consent
AST	Above ground storage tank
BLM	Bureau of Land Management
bgs	below ground surface
CEM	Certified Environmental Manager
COC	Chain-of-custody
CSM	Conceptual site model
DP	Direct push
DRO	Diesel range organics
EC	Electrical Conductivity
GIS	Geographic information system
ESA	Environmental Site Assessment
GMR	Groundwater Monitoring Report
GPS	Global position system
GRO	Gasoline range organics
LIF	Laser Induced Fluorescence
LNAPL	Light non-aqueous phase liquid
NAPL	Non-aqueous phase liquid
NDEP	Nevada Division of Environmental Protection
mg/kg	milligram per kilogram
MWW	Multiple-wavelength waveform
ORO	Oil range organics
PAH	Poly aromatic hydrocarbons
PID	Photoionization detector
ppm	parts per million
PSAICR	Preliminary Source Area Identification and Characterization Report
QAPP	Quality Assurance Project Plan
QC	Quality Control
RE	Reference emitter
%RE	Percentage of reference response

SA	Source Area
Station	Reid Gardner Station
Site	Reid Gardner Station Property (LIF investigation area)
SNHD	Southern Nevada Health District
SOP	Standard Operating Procedure
TPH	Total petroleum hydrocarbons
UST	Underground storage tank
UVOST®	Ultra-Violet Optical Screening Tool
VOCs	Volatile Organic Compounds
Work Plan	*Laser Induced Fluorescence Investigation Work Plan at Former Underground Product Piping, Petroleum Tank*, NV Energy, 2014
4-DIM	Four-Dimensional Interactive Model

Appendix A

Figures



Legend

Fuel Tank
- Diesel AST, Active
- Diesel AST, Removed
- Diesel UST, Removed (Estimated)
- Gasoline UST, Removed (Estimated)
- Former Diesel Piping (Estimated)
- Buried Fire Suppression Pipeline (Estimated)
- Dewatering System (Estimated)
- Vapor Extraction Remediation System (Estimated)
- Recovery System Trench (Estimated)
- Former Remediation Trench (Estimated)
- Maximum Historical Extent of Measureable Diesel Free Product
- 2014 Q4 Product Thickness Contour (ft)
- Property Boundary

N

135 67.5 0 135 270 Feet

Notes:
1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013
2. Not all underground utilities are identified on this figure

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March 2015

POTENTIAL PETROLEUM SOURCE AREAS
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 1

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

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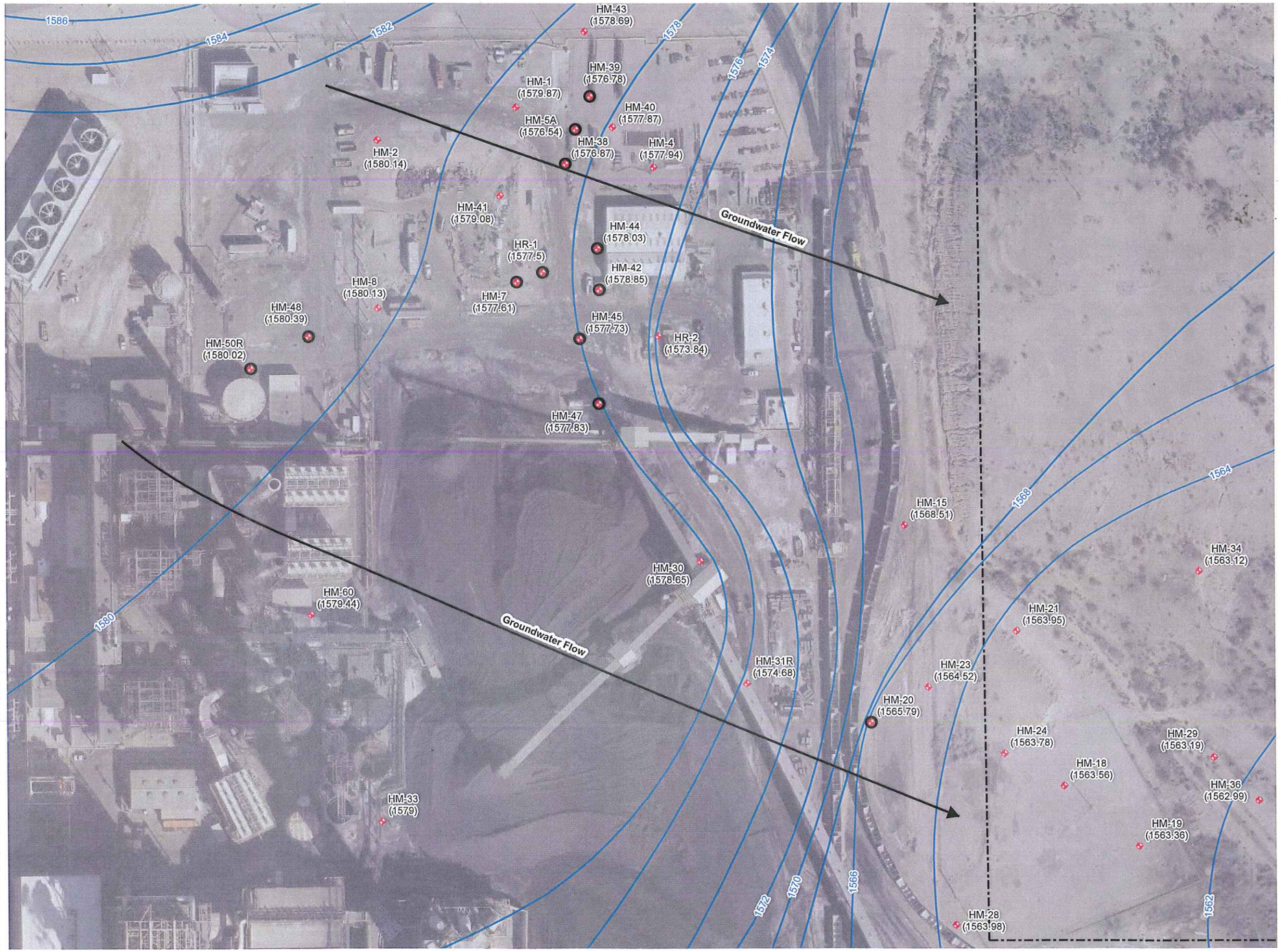


Legend

Monitoring Wells (2014 Q4)

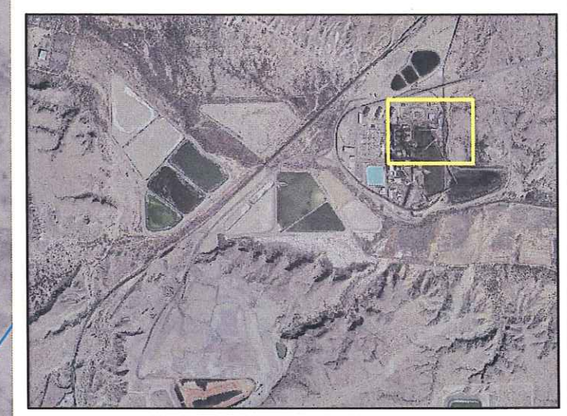
- Shallow
- Diesel Area Well with Product [3]
- Property Boundary
- Groundwater Elevation Contour (ft) (2014 Q4)

Value in ( ) is 2014 Q4 groundwater elevation

N

135 67.5 0 135 270 Feet

Notes:
1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013
2. Only wells gauged 2014 Q4 are shown in figure
3. Groundwater elevations from monitoring wells with free product were not used in contouring



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March 2015

SHALLOW GROUNDWATER ELEVATIONS
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 2

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

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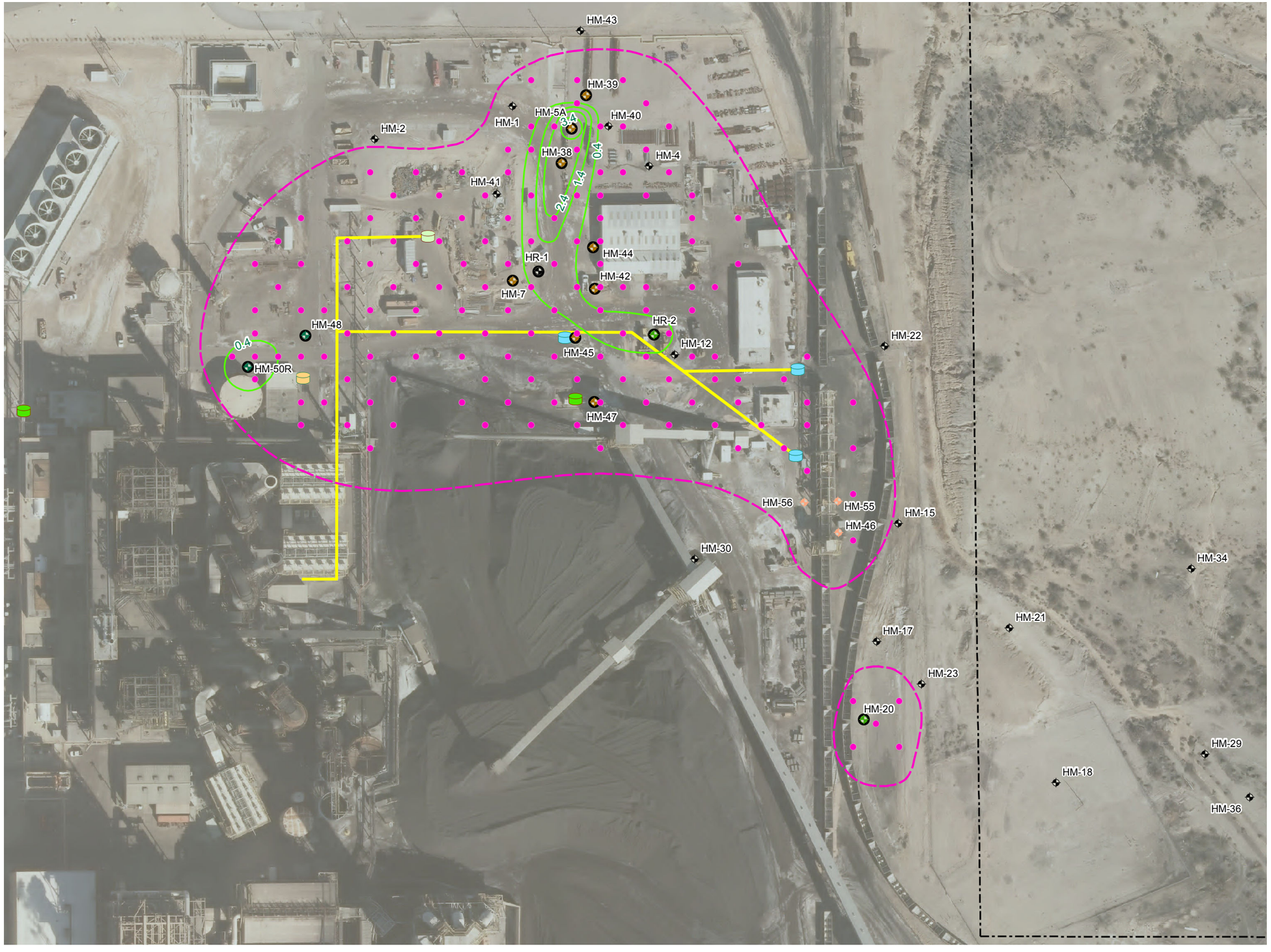

Legend

- Proposed Laser-Induced Fluorescence (LIF) Location
- Proposed Investigation Boundary
- Diesel AST, Active
- Diesel AST, Removed
- Diesel UST, Removed (Estimated)
- Gasoline UST, Removed (Estimated)

Diesel Area Well Types (Active)

- Dewatering
- Free Product Gauging
- Hand Bail
- Passive Recovery
- Vapor Extraction
- Diesel Area Well Currently with Product
- Former Diesel Piping (Estimated)
- 2014 Q4 Product Thickness Contour (ft)
- Property Boundary

135 67.5 0 135 270 Feet

Notes:
1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013
2. Not all underground utilities are identified on this figure

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March 2015

PROPOSED LIF LOCATIONS
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 3

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

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Legend

- Depth to Groundwater (2014-Q4) [2]
- Property Boundary
- Proposed Investigation Boundary

LIF Location - Total Depth

- Reached Groundwater (Estimated)
- Did Not Reach Groundwater (Estimated)

Depths shown are total depth of UVOST probe (feet)

135 67.5 0 135 270 Feet

Notes:

1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013
2. Depth to groundwater was calculated by taking the difference from the most recent ground elevation surface grid (2009) and the groundwater elevation surface grid (2014-Q4) at each LIF location, with coal pile locations excluded because the coal pile elevation has changed (pile is now gone and ground surface elevation has not been surveyed).

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LIF LOCATION DEPTHS
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 4

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

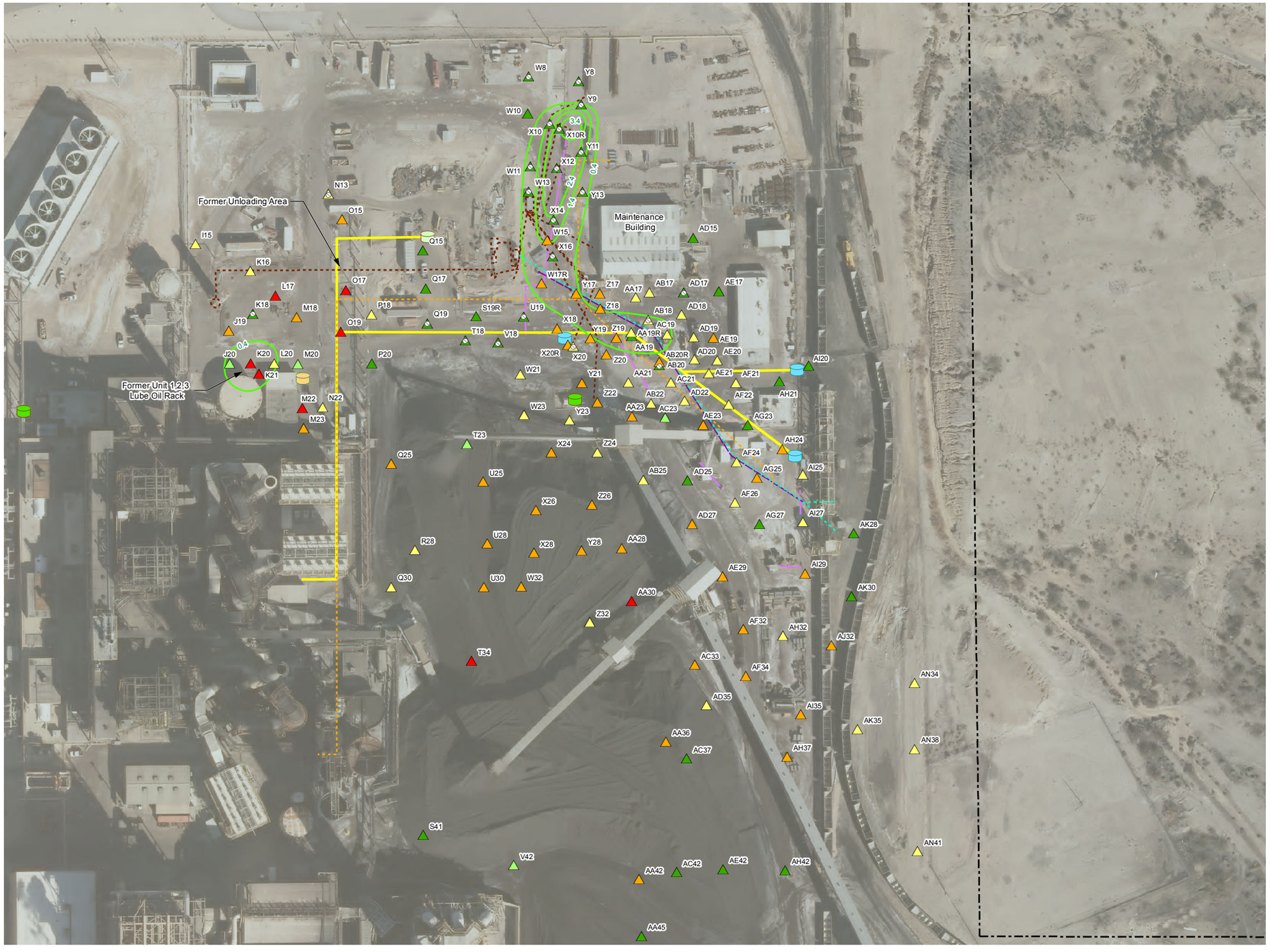
0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

\\cvfs1\Projects_F\20618_03_NVE_RGS_AOC_Imp09\Active\14-GIS\GIS\WorkingData\Mxd\DieselFreeProductInvestigation\Fig4_LIF_LIFLocationsTotalDepths.mxd © STANLEY CONSULTANTS



Legend

LIF Location (Maximum Response Strength - % RE)

- 501 - 850
- 201 - 500
- 26 - 200
- 11 - 25
- 0 - 10
- Did Not Reach Groundwater
- Diesel AST, Active
- Diesel AST, Removed
- Diesel UST, Removed (Estimated)
- Gasoline UST, Removed (Estimated)
- Former Diesel Piping (Estimated)
- Buried Fire Suppression Pipeline (Estimated)
- Dewatering System (Estimated)
- Vapor Extraction Remediation System (Estimated)
- Recovery System Trench (Estimated)
- Former Remediation Trench (Estimated)
- Current Product Thickness Contour (ft)
- Property Boundary

135 67.5 0 135 270 Feet

Notes:
1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013
2. Not all underground utilities are identified on this figure

Stanley Consultants INC.

March 2015

LIF-UVOST RESPONSE STRENGTH
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 5

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

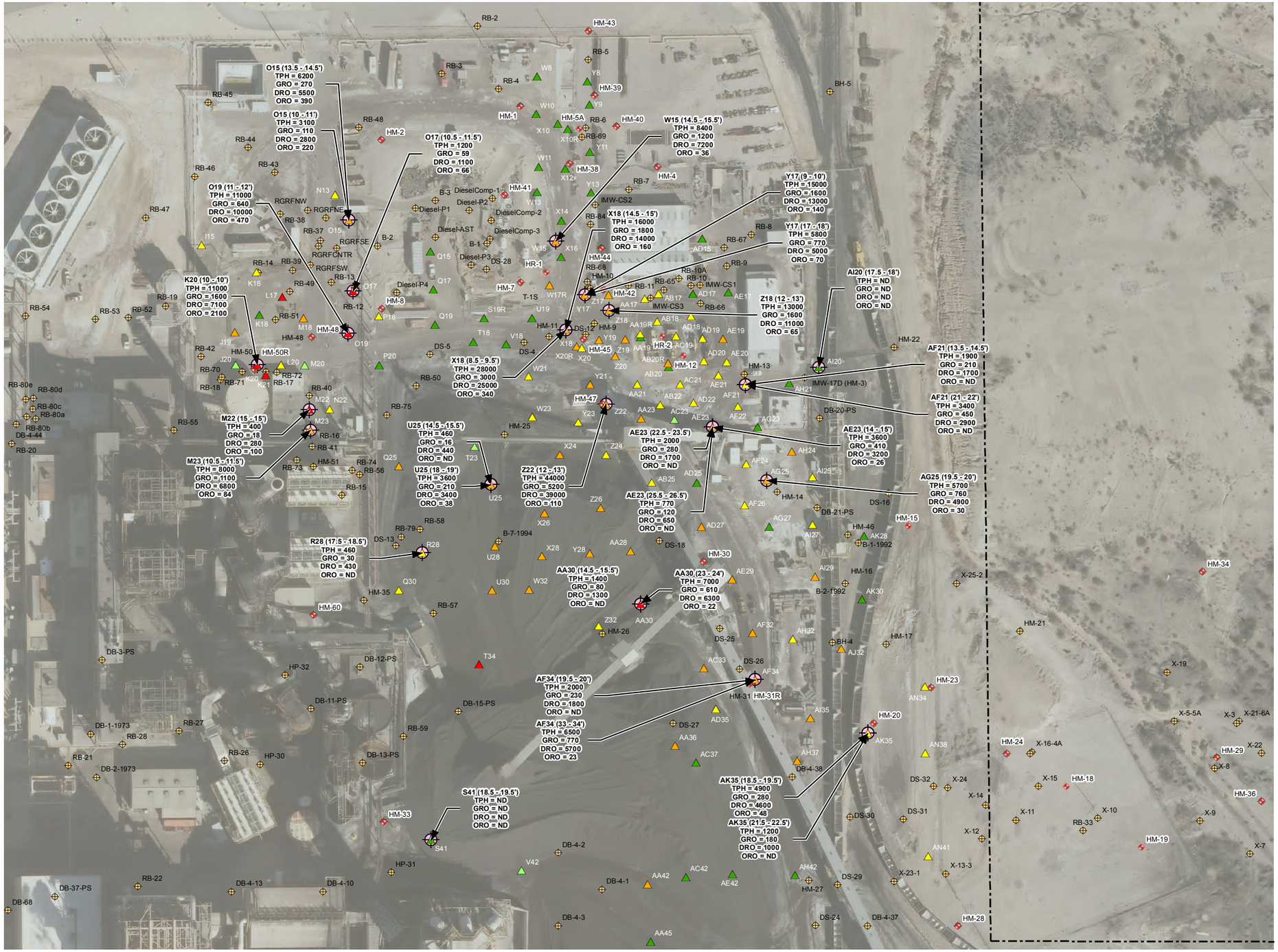
0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

\\lcy-fs11\Projects_F\20618_03_NVE_RGS_AOC_Imp09\Active\14-GIS\GIS\WorkingData\Mxd\Diesel\FreeProduct\Investigation\Fig5_LIF_LIFLocationsPercentRE.mxd © STANLEY CONSULTANTS



Legend

LIF Location (Maximum Response Strength - % RE)

- 501 - 850
- 201 - 500
- 26 - 200
- 11 - 25
- 0 - 10
- Monitoring Wells (2014 Q4)
- Historical Soil Boring Location
- Soil Sample Location (LIF Investigation)
- Property Boundary

135 67.5 0 135 270 Feet

Notes:
1. Aerial imagery provided by Clark County Assessor Office; photographs taken Spring 2013

Stanley Consultants INC.

March 2015

SOIL SAMPLE LOCATIONS
LIF Investigation
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 6

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	2/27/15	JO/CC	JR/AE	JO

0 1 in.
At full size
1 inch = 135 feet

NVEnergy

25535.01.00

REV. 0

\\cyfs1\Projects_F\20618_03_NVE_RGS_AOC_Imp\09\Active\14-GIS\GIS\WorkingData\Mxd\DieselFreeProductInvestigation\Fig6_LIF_SoilSampleLocations.mxd ©STANLEY CONSULTANTS

Appendix B

UVOST Reports and Logs

Dakota Technologies
UVOST Log Reference

2013-08-09

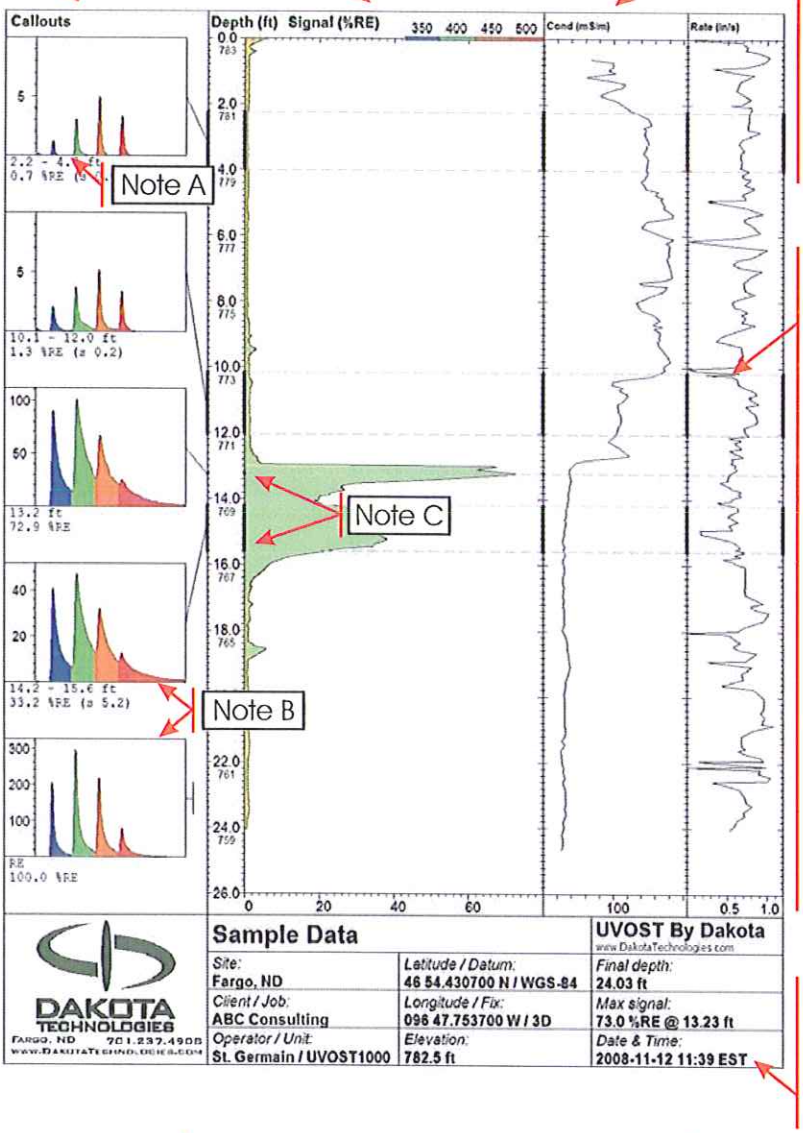
Main Plot :
Signal (total fluorescence) versus depth where signal is relative to the Reference Emitter (RE). The total area of the waveform is divided by the total area of the Reference Emitter yielding the %RE. This %RE scales with the NAPL fluorescence. The fill color is based on relative contribution of each channel's area to the total waveform area (see callout waveform). The channel-to-color relationship and corresponding wavelengths are given in the upper right corner of the main plot.

Callouts :
Waveforms from selected depths or depth ranges showing the multi-wavelength waveform for that depth.

The four peaks are due to fluorescence at four wavelengths and referred to as "channels". Each channel is assigned a color.

Various NAPLs will have a unique waveform "fingerprint" due to the relative amplitude of the four channels and/or broadening of one or more channels.

Basic waveform statistics and any operator notes are given below the callout.



Conductivity Plot :
The Electrical Conductivity (EC) of the soil can be logged simultaneously with the UVOST data. EC often provides insight into the stratigraphy.
Note the drop in EC from 10 - 13 ft, indicating a shift from consolidated to unconsolidated stratigraphy. This correlates with the observed NAPL distribution.

Rate Plot :
The rate of probe advancement. ~ 0.8in (2cm) per second is preferred.

A noticeable decrease in the rate of advancement may be indicative of difficult probing conditions (gravel, angular sands, etc.) such as that seen here at ~5 ft.

Notice that this log was terminated arbitrarily, not due to "refusal", which would have been indicated by a sudden rate drop at final depth.

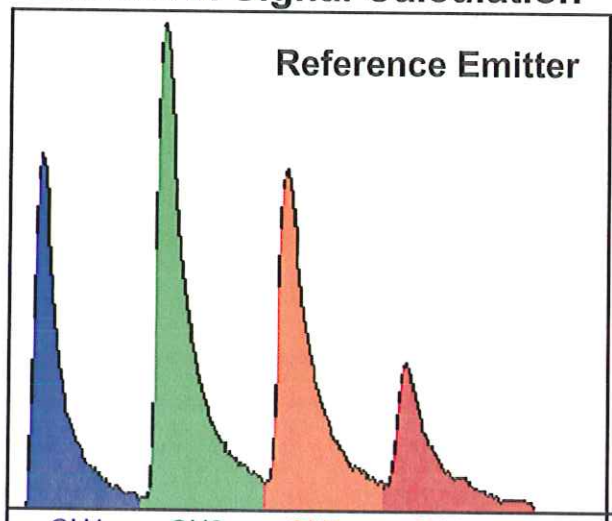
Info Box :
Contains pertinent log info including name and location.

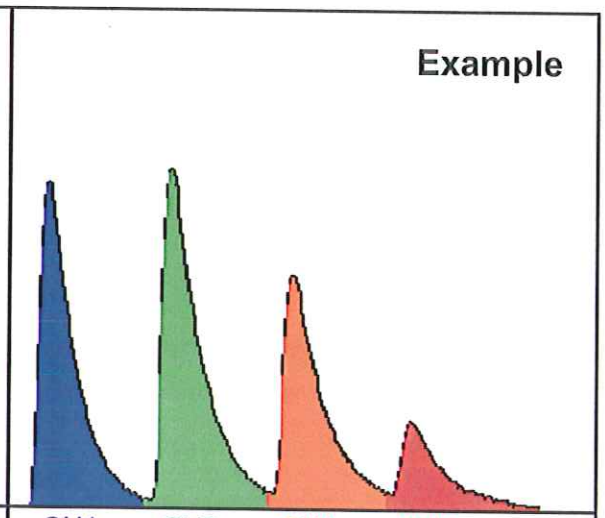
Note A :
Time is along the x axis. No scale is given, but it is a consistent 320ns wide.
The y axis is in mV and directly corresponds to the amount of light striking the photodetector.

Note B :
These two waveforms are clearly different. The first is weathered diesel from the log itself while the second is the Reference Emitter (a blend of NAPLs) always taken before each log for calibration.

Note C :
Callouts can be a single depth (see 3rd callout) or a range (see 4th callout). The range is noted on the depth axis by a bold line. When the callout is a range, the average and standard deviation in %RE is given below the callout.

Waveform Signal Calculation



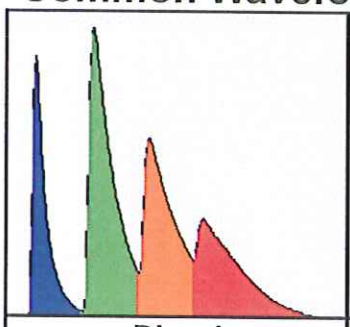


CH1		CH2		CH3		CH4		Total		CH1		CH2		CH3		CH4		Total
4820	+	8108	+	6249	+	2984	=	**22161**	***Channel***	4923	+	5743	+	4166	+	1735	=	**16587**
21.7		36.6		28.2		13.5		**100%**	***Area (pVs)***	22.3		25.9		18.8		7.8		**75%**
									Percent RE									

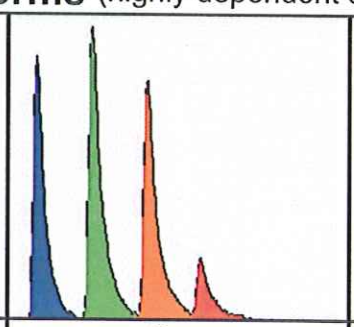
Data Files

***.lif.raw.bin**	Raw data file. Header is ASCII format and contains information stored when the file was initially written (e.g. date, total depth, max signal, gps, etc., and any information entered by the operator). All raw waveforms are appended to the bottom of the file in a binary format.
***.lif.plt**	Stores the plot scheme history (e.g. callout depths) for associated Raw file. Transfer along with the Raw file in order to recall previous plots.
***.lif.jpg**	A jpg image of the OST log including the main signal vs. depth plot, callouts, information, etc.
***.lif.dat.txt**	Data export of a single Raw file. Tab delimited format. No string header is provided for the columns to make importing into some programs easier. Each row is a unique depth reading. The columns are: 1-Depth; 2-Total Signal (%RE); 3-Ch1%; 4-Ch2%; 5-Ch3%; 6-Ch4%; 7-Rate; 8-EC Depth; 9-EC Signal; 10-Hammer Rate Depth; 11-Hammer Rate; 12-Color (RRGGBB). Summing channels 1 to 4 yields the Total Signal.
***.lif.sum.txt**	A summary file for a number of Raw files. ASCII tab delimited format. The file contains a string header. The summary includes one row for each Raw file and contains information for each file including: the file name, gps coordinates, max depth, max signal, and depth at which the max signal occured.

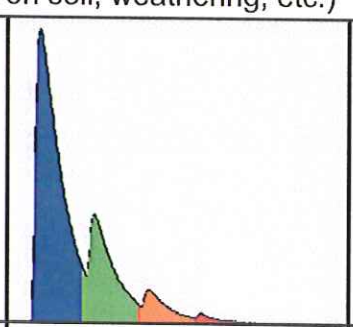
Common Waveforms (highly dependent on soil, weathering, etc.)



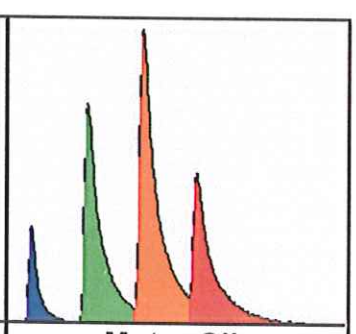
Diesel



Gas



Kerosene



Motor Oil

Ultra-Violet Optical Screening Tool Investigation Report

Reid Gardner LIF Project
501 Wally Kay Way
Moapa, Nevada

Prepared for:

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Prepared by:

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1225 East McFadden Ave
Santa Ana, California 92705

February 6, 2015

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Project Summary

Project Name: Reid Gardner LIF Project

Project Dates: August 7th through December 5th, 2014

Equipment/Manpower: Vironex mobilized one Ultra-Violet Optical Screening Tool (UVOST) System, one High Resolution Site Characterization (HRSC) specialist, one direct-push drill rig and one drill rig operator to the project site.

Project Summary: Vironex advanced 138 direct push UVOST borings from the ground surface to the deepest of 36.05 feet below ground surface (bgs). The UVOST system operates on the principal of laser induced fluoresce (LIF). The UVOST system utilizes an XeCl Excimer laser to pulse ultra-violet (UV) light through a fiber optic cable to a sapphire window mounted near the tip of a direct-push drilling system. The UV light energizes PAHs in the subsurface, when present, causing them to fluoresce. The PAH emission is transmitted through a separate fiber optic cable, filtered into four separate wavelength-defined channels and observed at an oscilloscope. The oscilloscope output is plotted with respect to depth to show intervals across the boring that have been impacted by fuel/oil related non-aqueous phase liquids (NAPLs). Additionally, the UVOST system allows the user to select callouts that show the distribution of response, at a given depth, across the four wavelength-defined channels. These callouts allow the user to understand the composition, and therefore the type of fuel, from which the NAPL originated.

During the advancement of each boring, the UVOST response, relative to depth, was recorded in accordance with the standard operating procedures for the UVOST system. The details associated with each UVOST boring are presented below.

UVOST Boring	Date	Time	Total Depth	Notes
RG-AD17	8/19/2014	15:24	7.93	Electrical Conductivity not working.
RG-AA17	8/7/2014	13:15	20.01	None
RG-AA19	8/20/2015	13:08	21.21	Electrical Conductivity not working.
RG-AA19b	8/22/2014	12:41	21.67	
RG-AA21	8/22/2014	11:56	24.02	Electrical Conductivity not working.
RG-AA23	8/25/2014	12:53	22.59	Electrical Conductivity not working.
RG-AA28	8/27/2014	10:16	17.69	None
RG-AA30	8/27/2014	14:32	23.55	None
RG-AA36	12/5/2014	11:21	30.53	Electrical Conductivity not working.

RG-AA42	12/4/2014	15:20	29.60	Electrical Conductivity not working.
RG-AA45	12/5/2014	10:30	25.51	None
RG-AB17	8/7/2014	14:50	22.59	None
RG-AB18	8/8/2014	9:53	14.83	None
RG-AB20	8/21/2014	7:16	11.00	Electrical Conductivity not working.
RG-AB20r	8/21/2014	15:03	21.61	Electrical Conductivity not working.
RG-AB25	8/26/2014	11:03	13.52	Electrical Conductivity not working.
RG-AC19	8/20/2014	12:29	20.41	Electrical Conductivity not working.
RG-AC21	8/22/2014	10:50	25.55	Electrical Conductivity not working.
RG-AC23	8/25/2014	15:19	16.32	Electrical Conductivity not working.
RG-AC33	12/3/2014	14:47	25.46	Electrical Conductivity not working.
RG-AC37	12/5/2014	11:00	25.44	None
RG-AD15	8/20/2014	11:36	22.28	Electrical Conductivity not working.
RG-AD18	8/8/2014	7:57	22.79	None
RG-AD19	8/21/2014	14:29	17.75	Electrical Conductivity not working.
RG-AD20	8/21/2014	7:42	25.29	Electrical Conductivity not working.
RG-AD22	8/25/2014	10:09	28.27	Electrical Conductivity not working.
RG-AD25	8/26/2014	8:50	22.66	Electrical Conductivity not working.
RG-AD27	8/26/2014	14:56	21.11	Electrical Conductivity not working.
RG-AD35	12/3/2014	15:17	25.08	Electrical Conductivity not working.
RG-AE17	8/19/2014	15:55	20.49	Electrical Conductivity not working.
RG-AE19	8/21/2014	12:44	24.25	Electrical Conductivity not working.
RG-AE20	8/21/2014	10:57	25.50	None
RG-AE21	8/21/2014	10:23	30.04	Electrical Conductivity not working.
RG-AE23	8/25/2014	15:51	30.15	Electrical Conductivity not working.

RG-AE29	8/27/2014	10:36	25.34	None
RG-AE42	12/4/2014	15:49	30.77	Electrical Conductivity not working.
RG-AF21	8/22/2014	9:23	30.00	Electrical Conductivity not working.
RG-AF22	8/25/2014	8:18	30.11	Electrical Conductivity not working.
RG-AF24	8/25/2014	16:30	30.18	Electrical Conductivity not working.
RG-AF26	8/26/2014	16:45	30.28	Electrical Conductivity not working.
RG-AF32	12/5/2014	11:45	30.31	None
RG-AF34	8/27/2014	15:12	35.14	None
RG-AG23	8/25/2014	7:37	25.68	Electrical Conductivity not working.
RG-AG25	12/1/2014	11:47	29.64	Electrical Conductivity not working.
RG-AG27	8/26/2014	9:28	24.01	Electrical Conductivity not working.
RG-AH21	8/22/2014	8:34	24.32	Electrical Conductivity not working.
RG-AH24	8/25/2014	17:09	25.61	Electrical Conductivity not working.
RG-AH32	12/3/2014	14:18	36.05	Electrical Conductivity not working.
RG-AH37	12/2/2014	8:35	30.22	Electrical Conductivity not working.
RG-AH42	12/3/2014	11:25	30.58	Electrical Conductivity not working.
RG-AI-25	8/26/2014	7:48	30.09	Electrical Conductivity not working.
RG-AI20	8/21/2014	11:46	23.83	Electrical Conductivity not working.
RG-AI27	8/26/2014	11:41	30.04	Electrical Conductivity not working.
RG-AI29	8/26/2014	12:59	30.13	Electrical Conductivity not working.
RG-AI35	12/1/2014	14:34	35.19	Electrical Conductivity not working.
RG-AJ32	12/1/2014	13:42	33.62	Electrical Conductivity not working.
RG-AK28	8/26/2014	14:01	30.06	Electrical Conductivity not working.
RG-AK30	12/1/2014	13:01	25.16	Electrical Conductivity not working.
RG-AK35	12/5/2014	15:21	32.63	Electrical Conductivity not working.

RG-AN34	12/4/2014	13:50	35.45	Electrical Conductivity not working.
RG-AN38	12/4/2014	14:28	30.71	Electrical Conductivity not working.
RG-AN41	12/5/2014	14:52	30.03	Electrical Conductivity not working.
RG-I15	12/4/2014	11:43	17.48	Electrical Conductivity not working.
RG-J19	12/4/2014	11:17	21.74	Electrical Conductivity not working.
RG-J20	8/22/2014	10:01	20.48	Electrical Conductivity not working.
RG-K16	8/28/2014	10:47	17.82	None
RG-K18	8/28/2014	7:29	3.93	Electrical Conductivity not working.
RG-K20	8/27/2014	17:18	20.50	None
RG-K21	8/28/2014	8:06	20.55	None
RG-L17	8/28/2014	10:08	20.38	None
RG-L20	8/28/2014	9:09	20.43	None
RG-M18	8/28/2014	9:42	19.88	Electrical Conductivity not working.
RG-M20	8/28/2014	8:36	24.13	None
RG-M22	12/4/2014	8:21	20.21	Electrical Conductivity not working.
RG-M23	12/4/2014	9:05	20.48	Electrical Conductivity not working.
RG-N13	12/4/2014	12:10	10.17	Electrical Conductivity not working.
RG-N22	12/4/2014	8:42	13.54	Electrical Conductivity not working.
RG-O15	8/29/2014	11:22	16.02	None
RG-O17	8/28/2014	11:22	14.06	None
RG-O19	8/28/2014	11:57	21.29	None
RG-P18	8/28/2014	13:36	20.10	None
RG-P20	8/28/2014	12:55	20.33	None
RG-Q15	8/29/2014	10:58	12.29	None
RG-Q17	8/29/2014	10:35	14.17	None

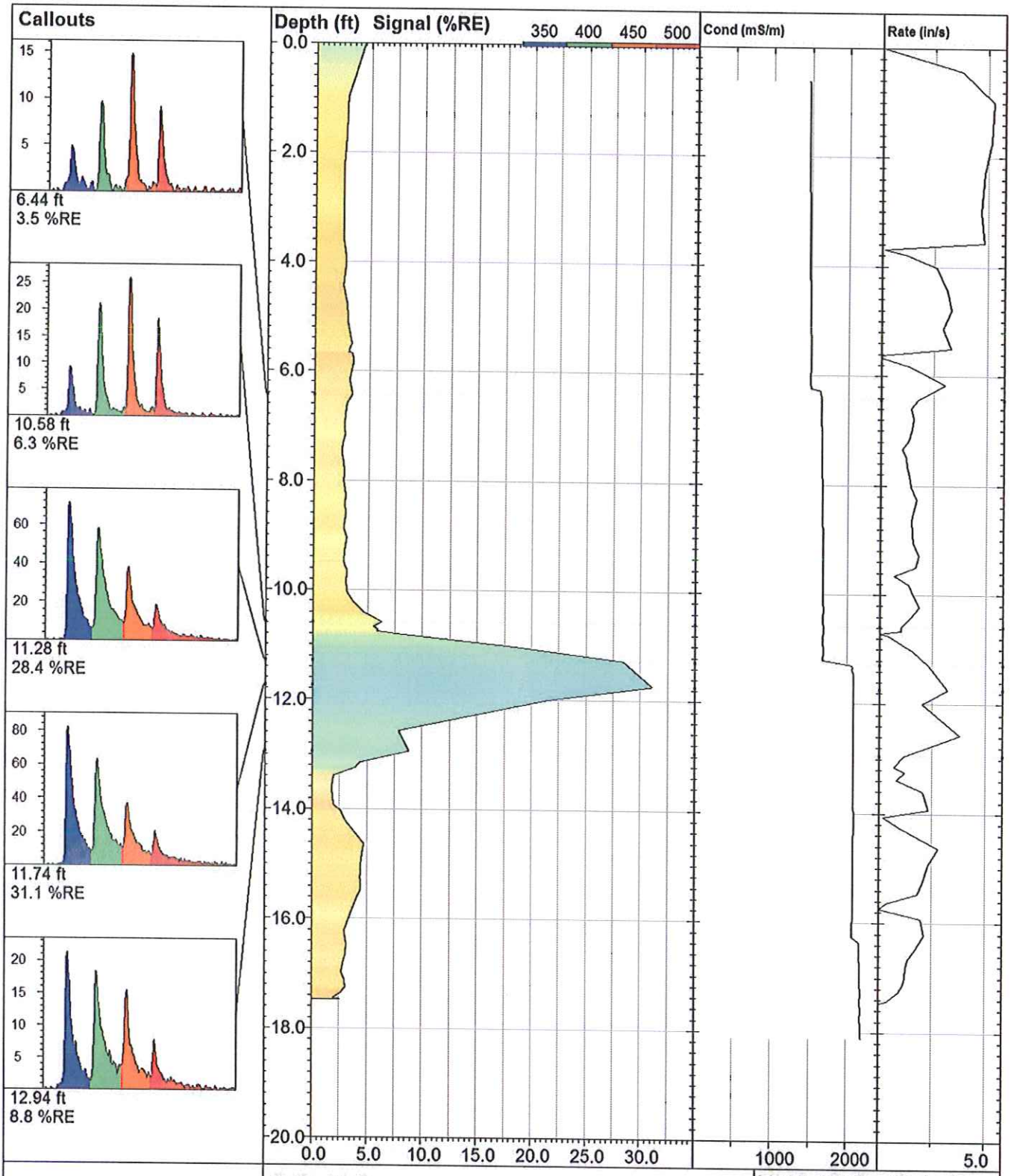
RG-Q19	8/28/2014	15:36	11.99	None
RG-Q25	12/2/2014	13:50	24.41	Electrical Conductivity not working.
RG-Q30	12/3/2014	15:58	23.79	Electrical Conductivity not working.
RG-R28	12/2/2014	13:18	24.36	Electrical Conductivity not working.
RG-S19R	12/4/2014	12:29	16.39	Electrical Conductivity not working.
RG-S41	12/3/2014	9:44	30.53	Electrical Conductivity not working.
RG-T18	8/28/2014	16:39	8.36	Electrical Conductivity not working.
RG-T23	12/3/2014	11:56	28.98	Electrical Conductivity not working.
RG-U25	12/3/2014	12:28	23.54	Electrical Conductivity not working.
RG-U28	12/3/2014	13:15	21.36	Electrical Conductivity not working.
RG-U30	12/2/2014	12:53	24.06	Electrical Conductivity not working.
RG-V18	8/29/2014	7:45	11.25	Electrical Conductivity not working.
RG-V42	12/3/2014	10:36	30.41	Electrical Conductivity not working.
RG-W10	8/7/2014	9:53	20.68	None
RG-W11	8/19/2014	14:39	15.06	Electrical Conductivity not working.
RG-W13	8/29/2014	10:04	11.42	None
RG-W15	8/29/2014	9:16	18.07	None
RG-W17R	8/29/2014	8:17	23.50	Electrical Conductivity not working.
RG-W21	8/26/2014	17:22	15.24	Electrical Conductivity not working.
RG-W23	8/27/2014	13:08	13.88	None
RG-W32	12/2/2014	9:54	26.59	Electrical Conductivity not working.
RG-W8	8/7/2014	12:08	9.41	None
RG-X10	8/7/2014	10:42	11.11	None
RG-X10R	8/19/2014	14:00	11.12	None
RG-X12	8/19/2014	13:39	9.16	None

RG-X14	8/29/2014	9:44	11.73	None
RG-X16	8/29/2014	8:46	10.41	None
RG-X18	8/8/2014	12:17	15.84	None
RG-X20	8/20/2014	15:19	13.39	Electrical Conductivity not working.
RG-X20r	8/21/2014	16:29	23.03	Electrical Conductivity not working.
RG-X24	8/27/2014	13:31	14.11	None
RG-X26	12/3/2014	13:40	18.68	Electrical Conductivity not working.
RG-X28	12/2/2014	14:36	27.33	Electrical Conductivity not working.
RG-Y11	8/20/2014	8:41	10.42	Electrical Conductivity not working.
RG-Y13	8/20/2014	9:20	14.76	Electrical Conductivity not working.
RG-Y17	8/7/2014	11:29	25.48	None
RG-Y19	8/20/2014	14:17	25.16	Electrical Conductivity not working.
RG-Y21	8/22/2014	13:45	20.25	Electrical Conductivity not working.
RG-Y23	8/25/2014	12:01	20.28	Electrical Conductivity not working.
RG-Y28	8/27/2014	13:55	27.67	None
RG-Y8	8/20/2014	7:19	8.32	Electrical Conductivity not working.
RG-Y9	8/20/2014	8:05	13.02	Electrical Conductivity not working.
RG-Z17	8/7/2014	12:27	24.58	None
RG-Z18	8/8/2014	11:32	28.01	None
RG-Z19	8/22/2014	7:56	18.47	Electrical Conductivity not working.
RG-Z20	8/20/2014	15:46	23.10	Electrical Conductivity not working.
RG-Z22	8/25/2014	11:23	20.34	None
RG-Z24	8/26/2014	10:35	12.77	Electrical Conductivity not working.
RG-Z26	8/27/2014	9:27	24.42	None
RG-Z32	8/27/2014	9:27	18.33	Electrical Conductivity not working.

RG-AB22	12/2/2014	9:30	18.11	Electrical Conductivity not working.
RG-U19	8/29/2014	7:19	9.91	Electrical Conductivity not working.
RG-T34	12/5/2014	15:45	23.03	Electrical Conductivity not working.

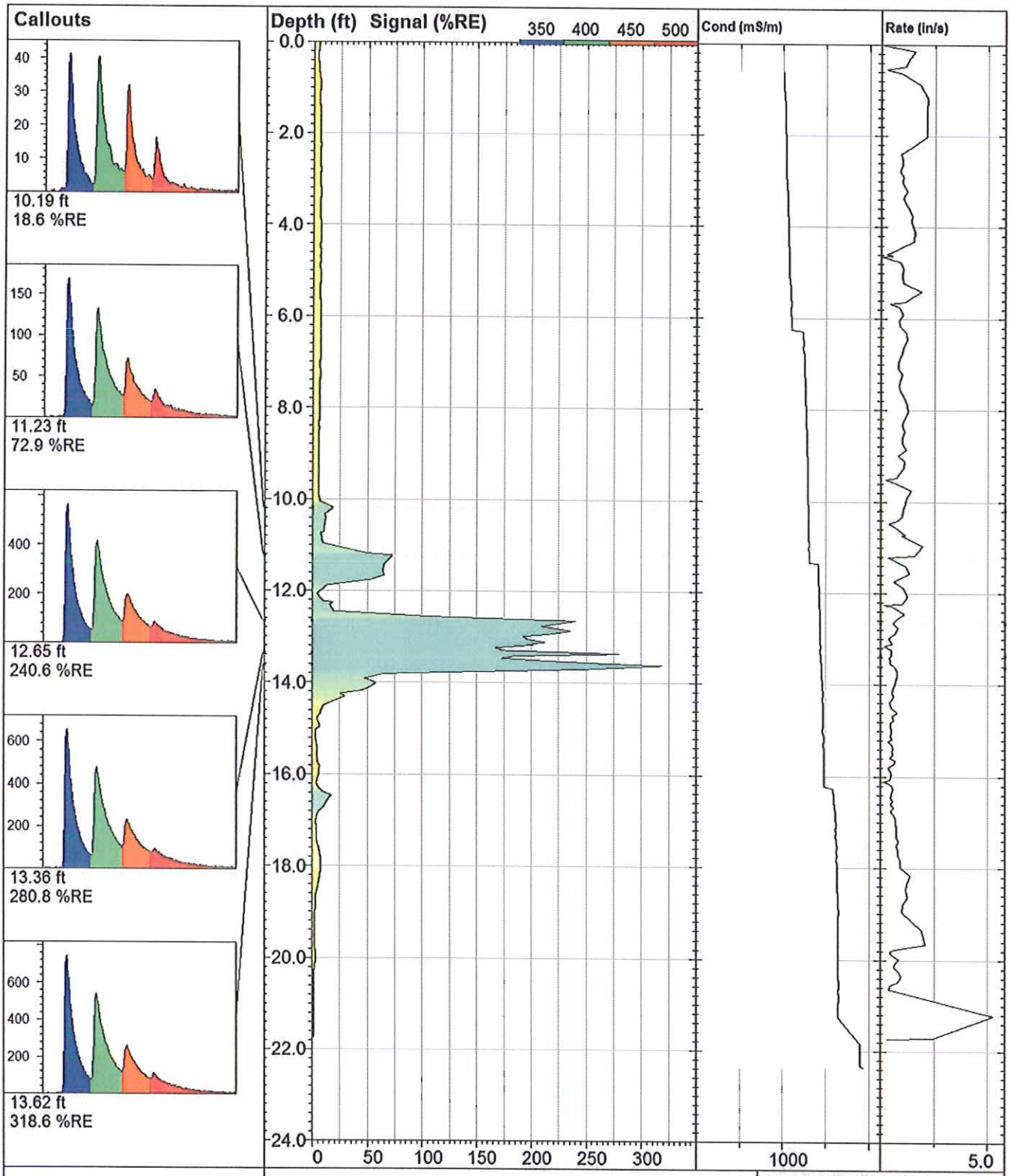
The UVOST logs are presented in Appendix A and B. The scales for UVOST logs in Appendix A are automatically chosen based on the highest response during each boring. The detector response scales for UVOST logs in Appendix B are set to a common scaled based on the highest UVOST response observed across all borings at the site. Additional information regarding the principals and procedures associated with the UVOST system is presented in Appendix C. Appendix D includes a UVOST log reference guide.

Appendix A – UVOST Boring Logs (Auto-Scale)



VIRONEX

RG-I15		UVOST By Dakota www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.48 ft**
Client / Job: **Stanley / RG-I15**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **31.1 %RE @ 11.74 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 11:43 MST**

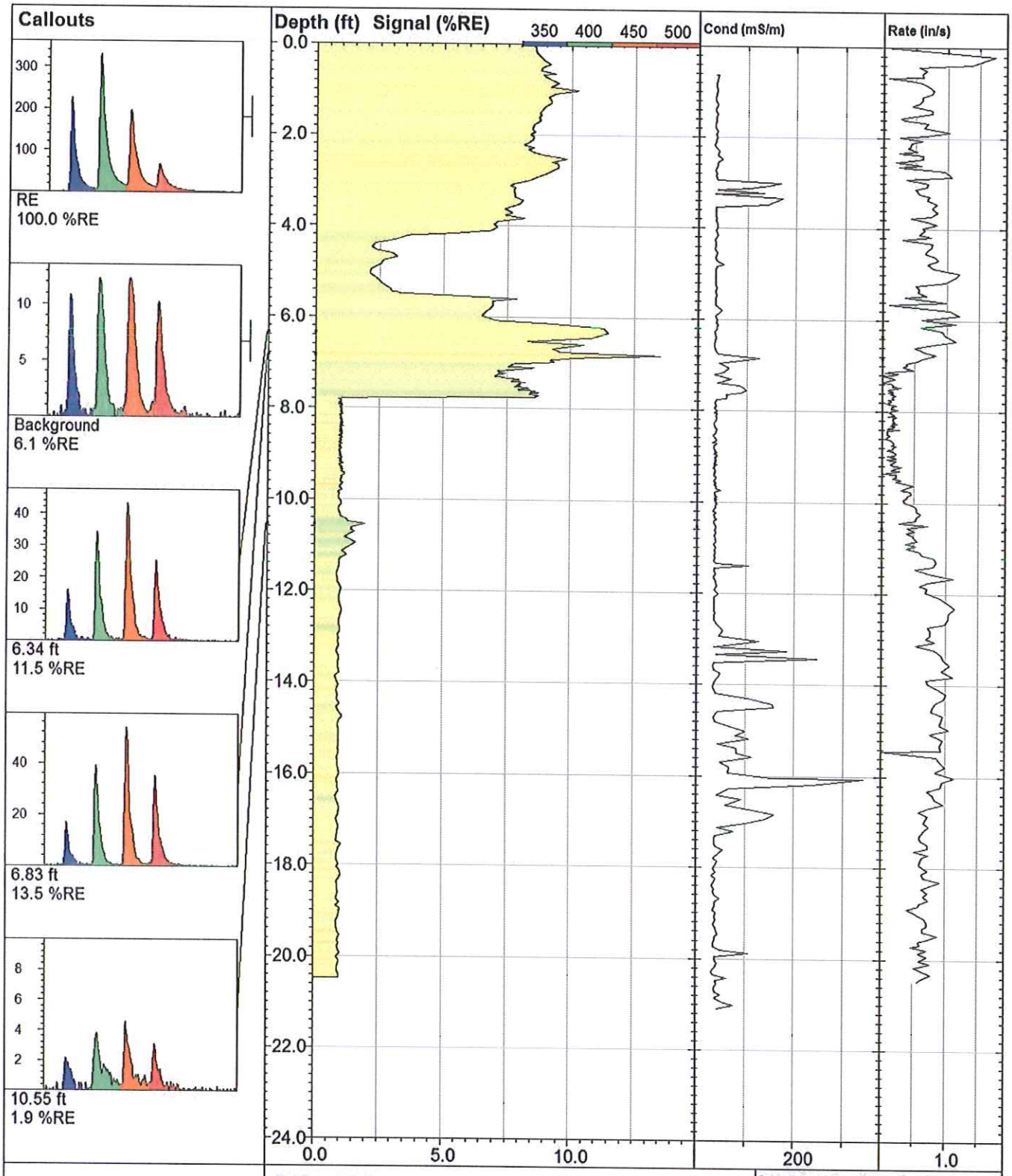


VIRONEX

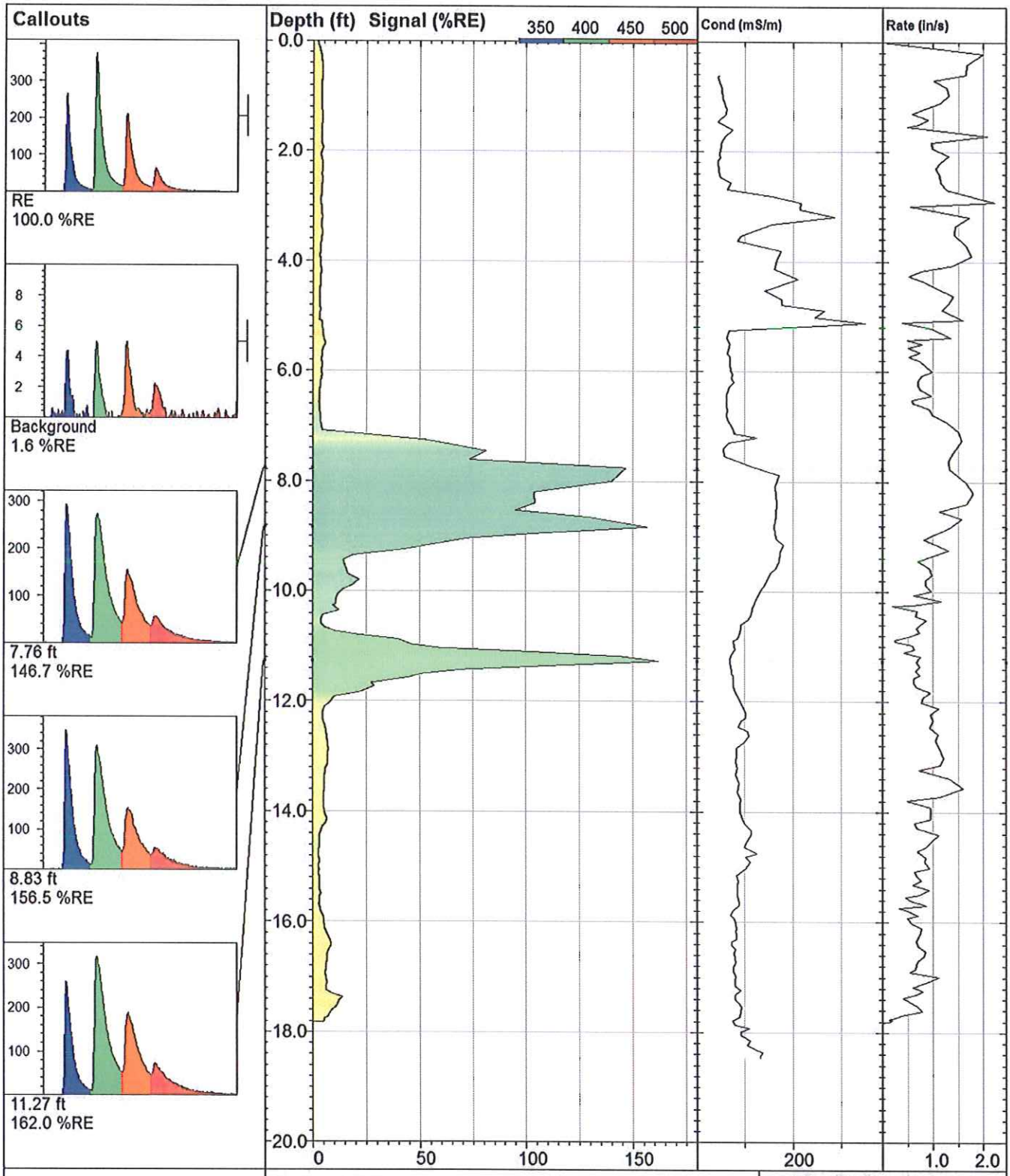
RG-J19

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.74 ft**
Client / Job: **Stanley / RG-J19**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **318.6 %RE @ 13.62 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 11:17 MST**



RG-J20		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.48 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.5 %RE @ 6.83 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 10:01 EDT**

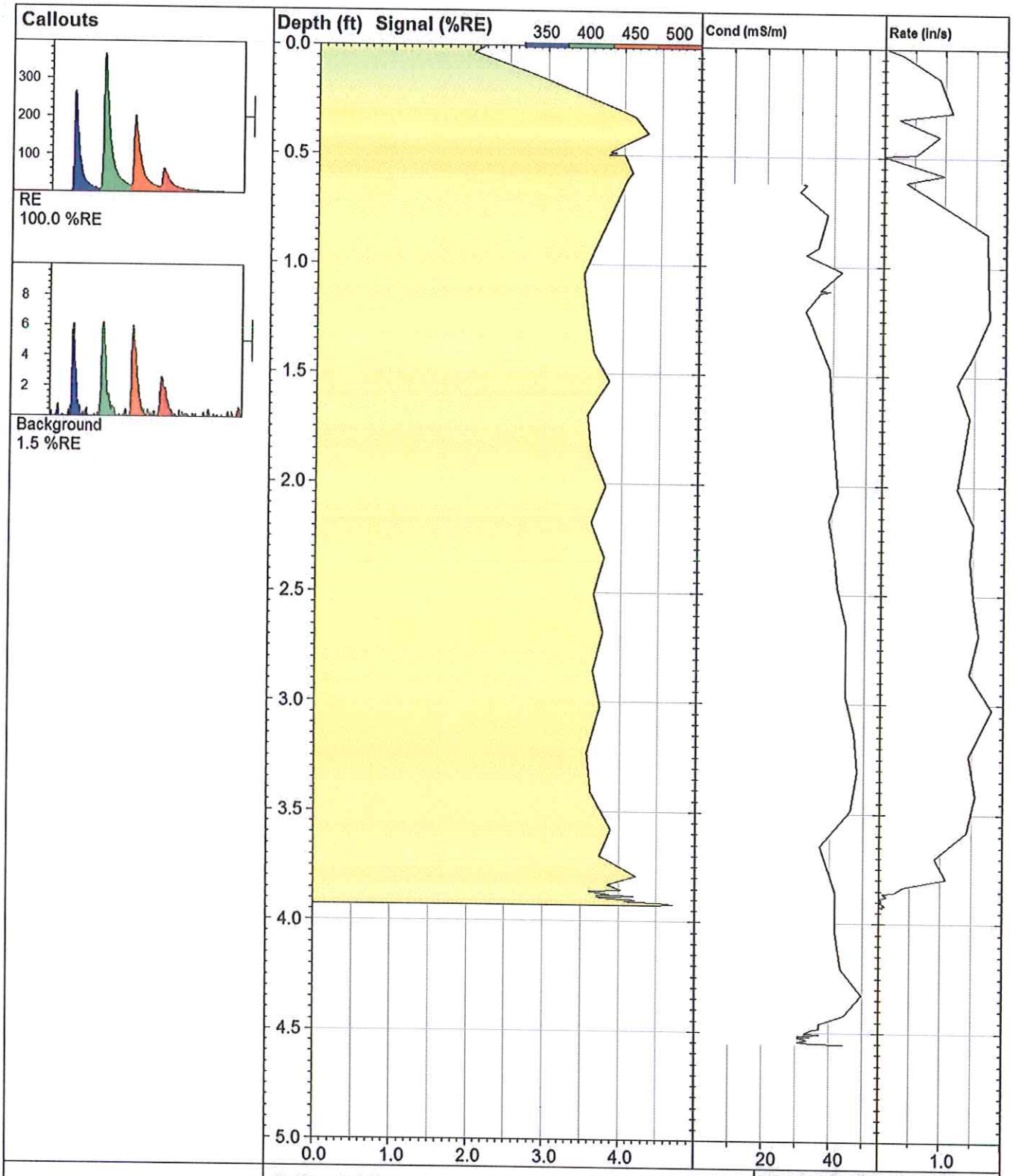


VIRONEX

RG-K16

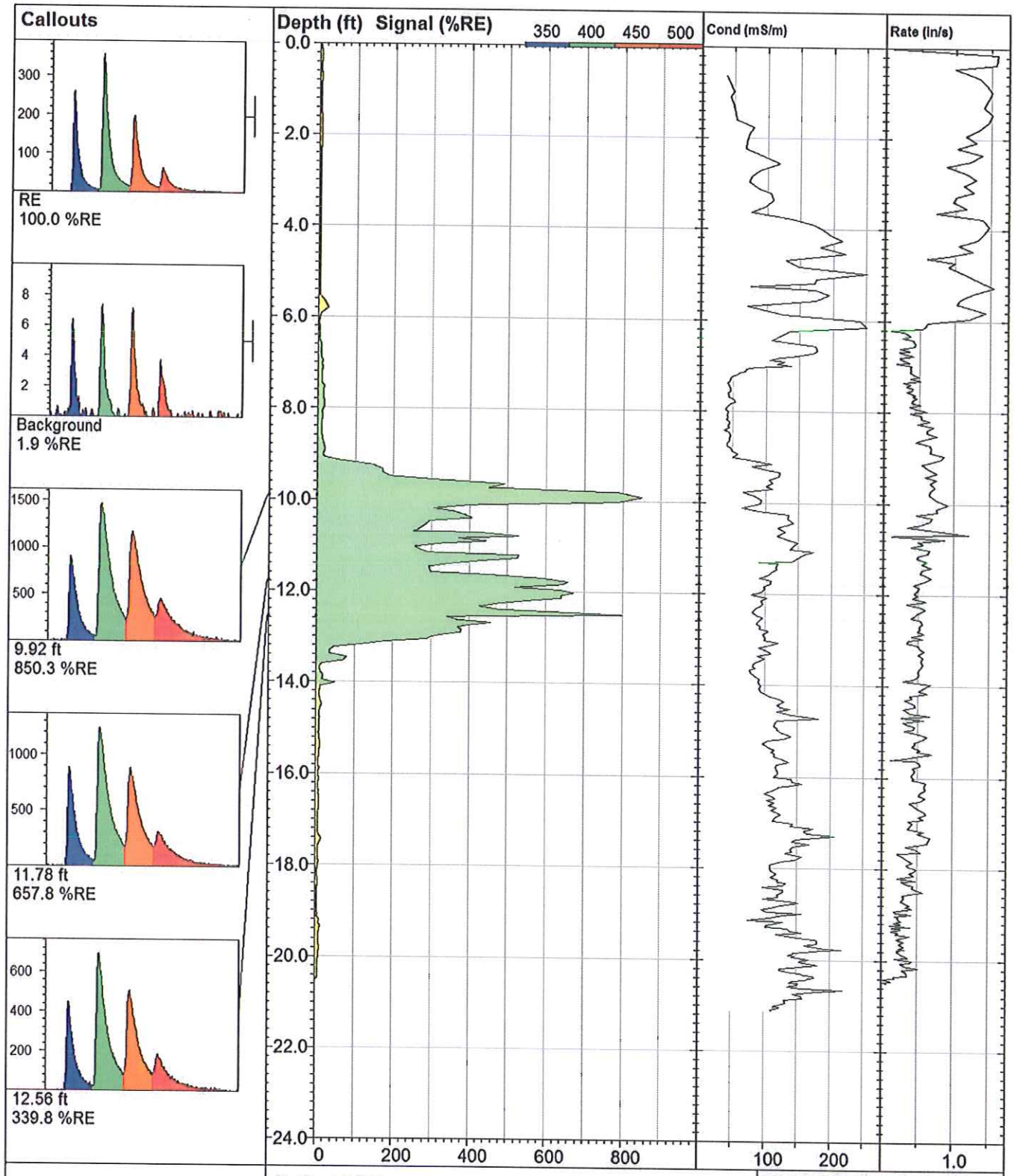
UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.82 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **162.0 %RE @ 11.27 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 10:47 EDT**

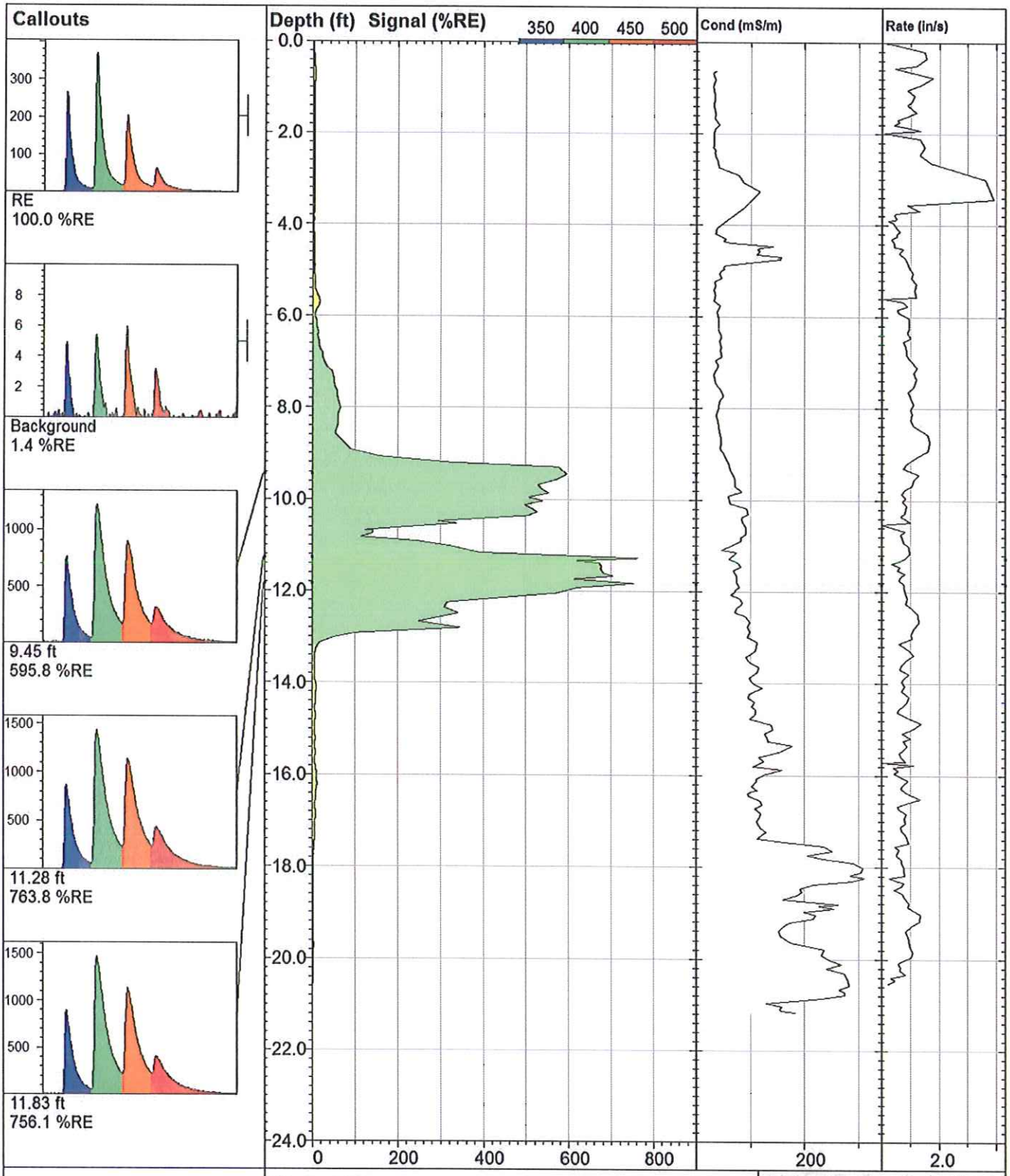


VIRONEX

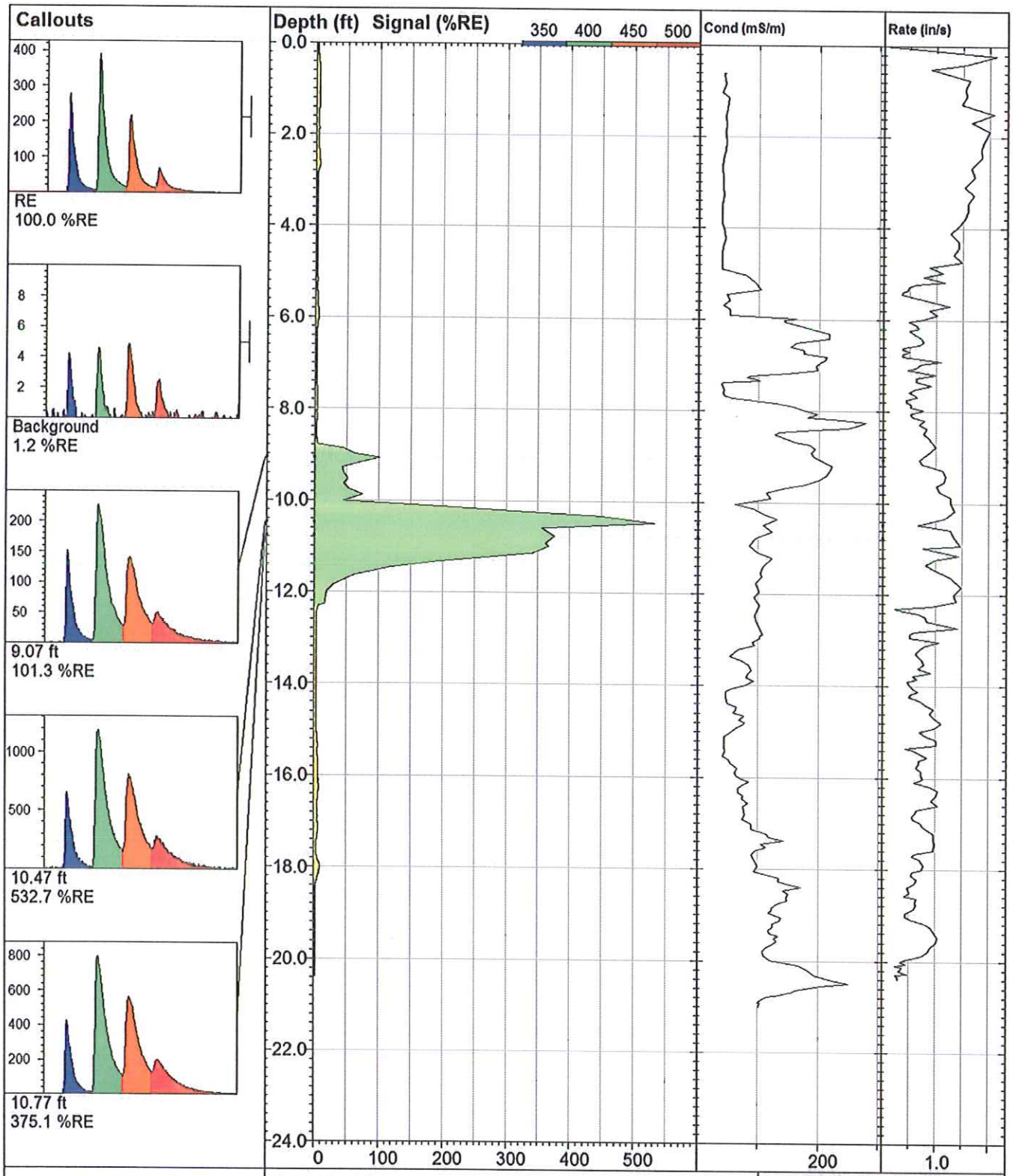
RG-K18		UVOST By Dakota www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.93 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **4.7 %RE @ 3.92 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 07:29 EDT**



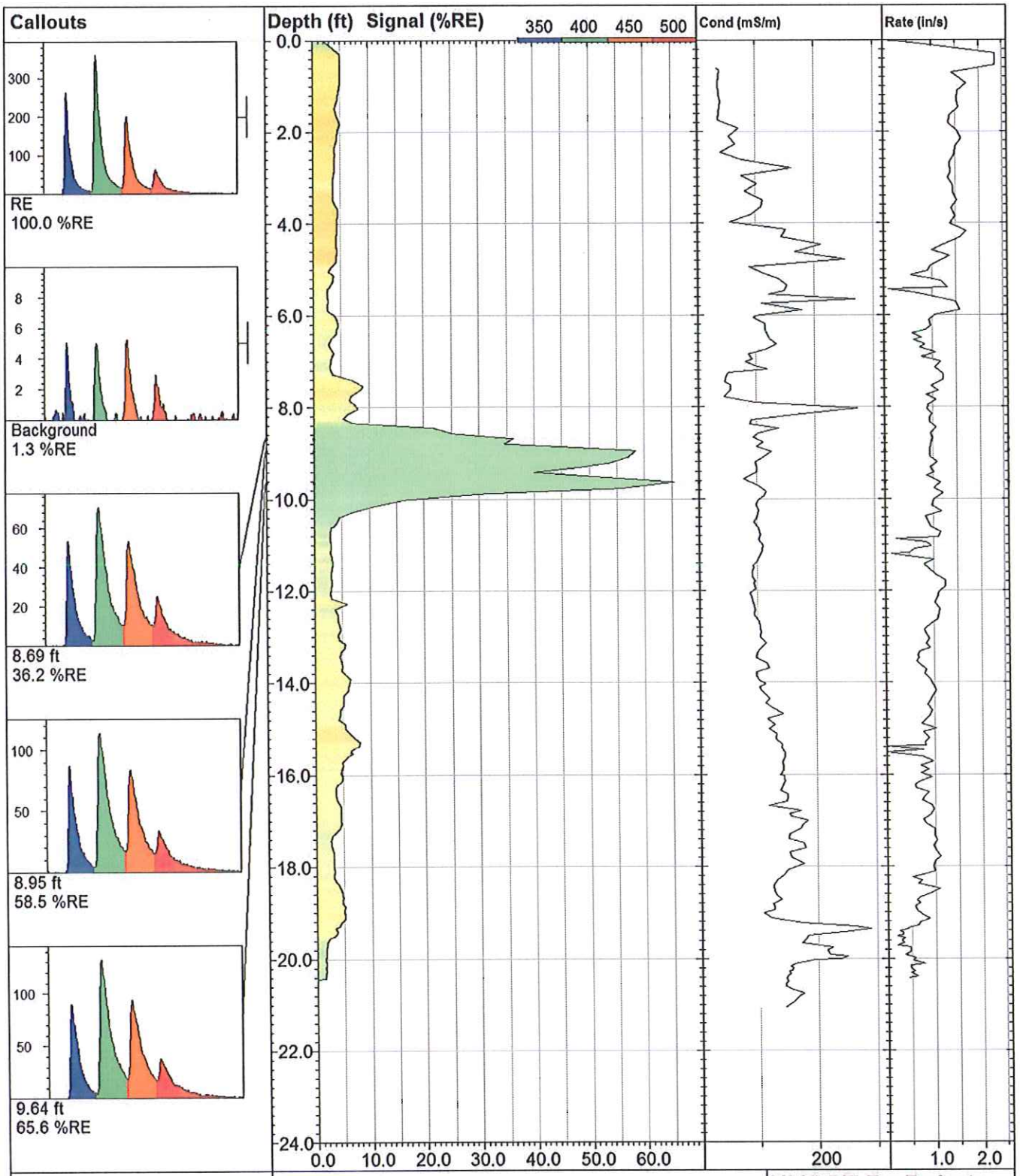
RG-K20		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.50 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **850.3 %RE @ 9.92 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 17:18 EDT**



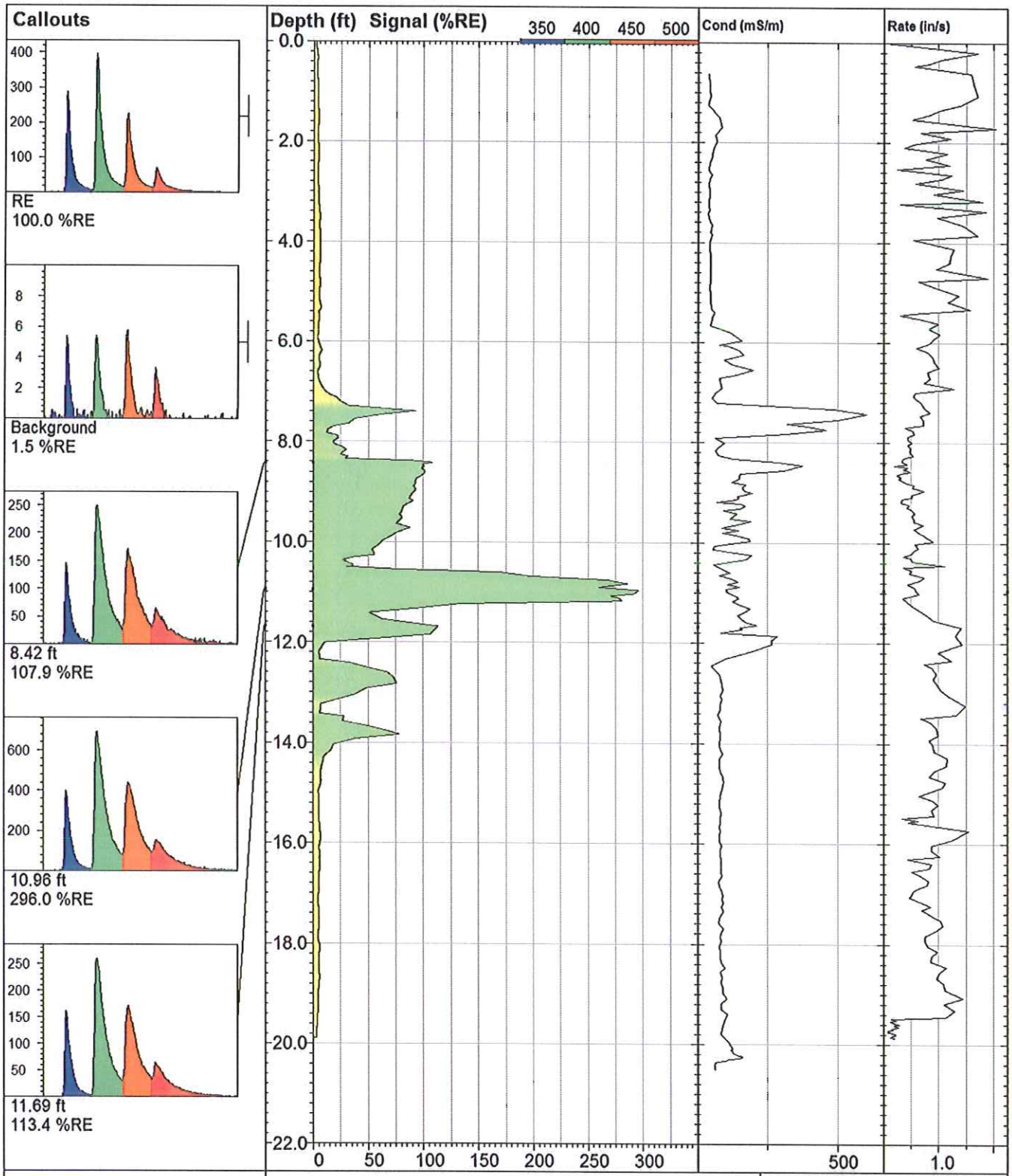
RG-K21		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.55 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **763.8 %RE @ 11.28 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 08:06 EDT**



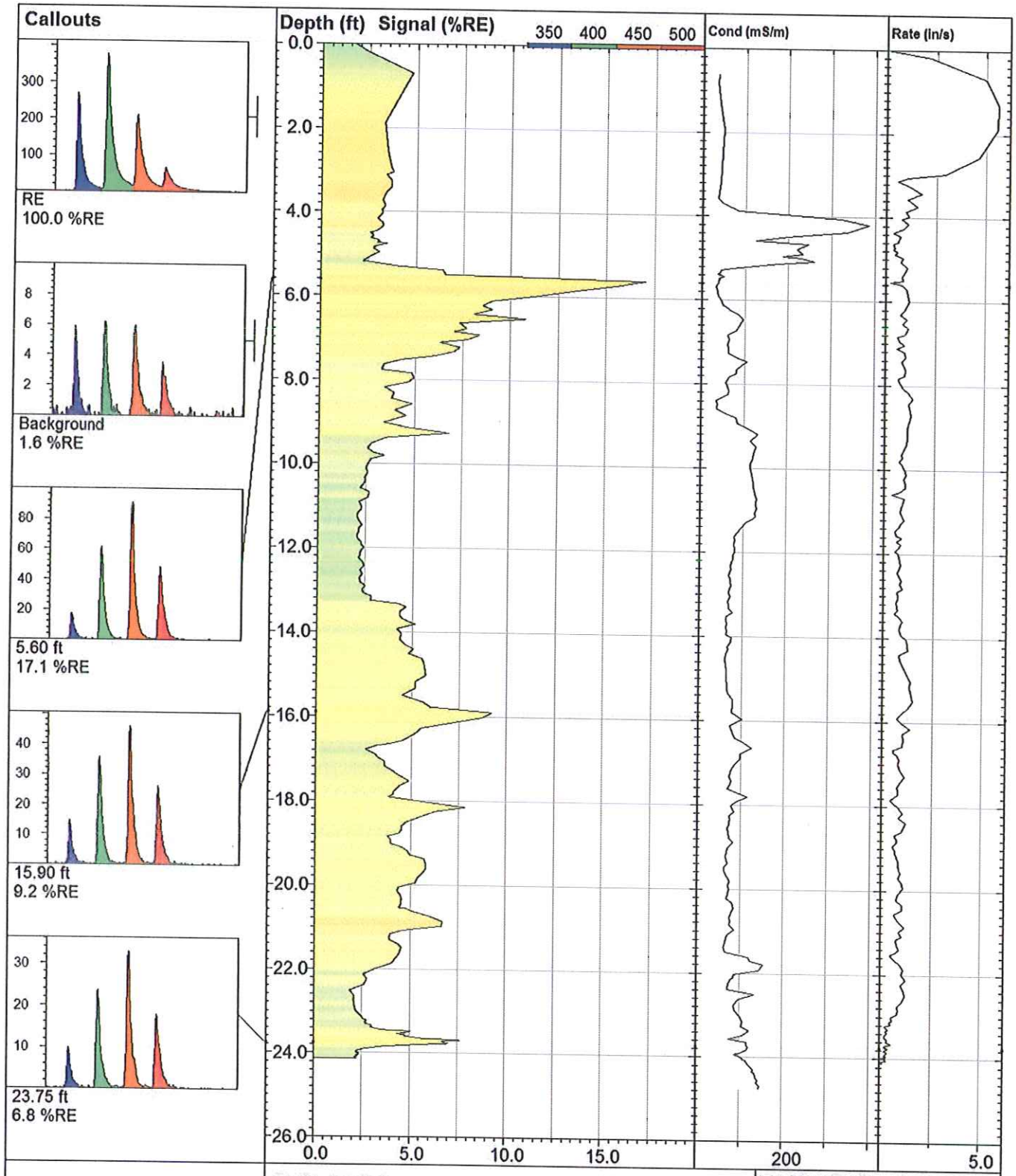
RG-L17		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.38 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **532.7 %RE @ 10.47 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 10:08 EDT**



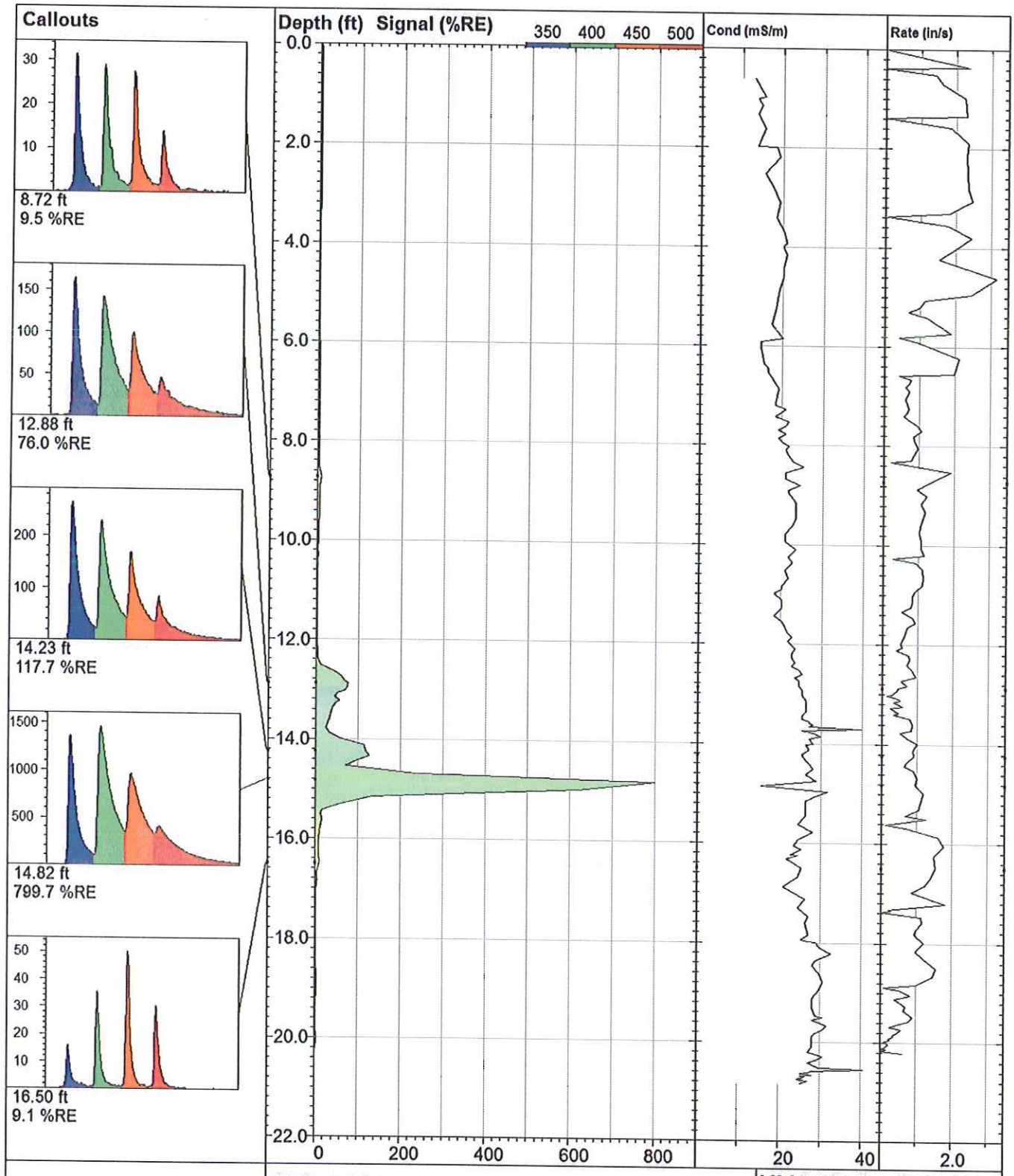
RG-L20		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.43 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **65.6 %RE @ 9.64 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 09:09 EDT**



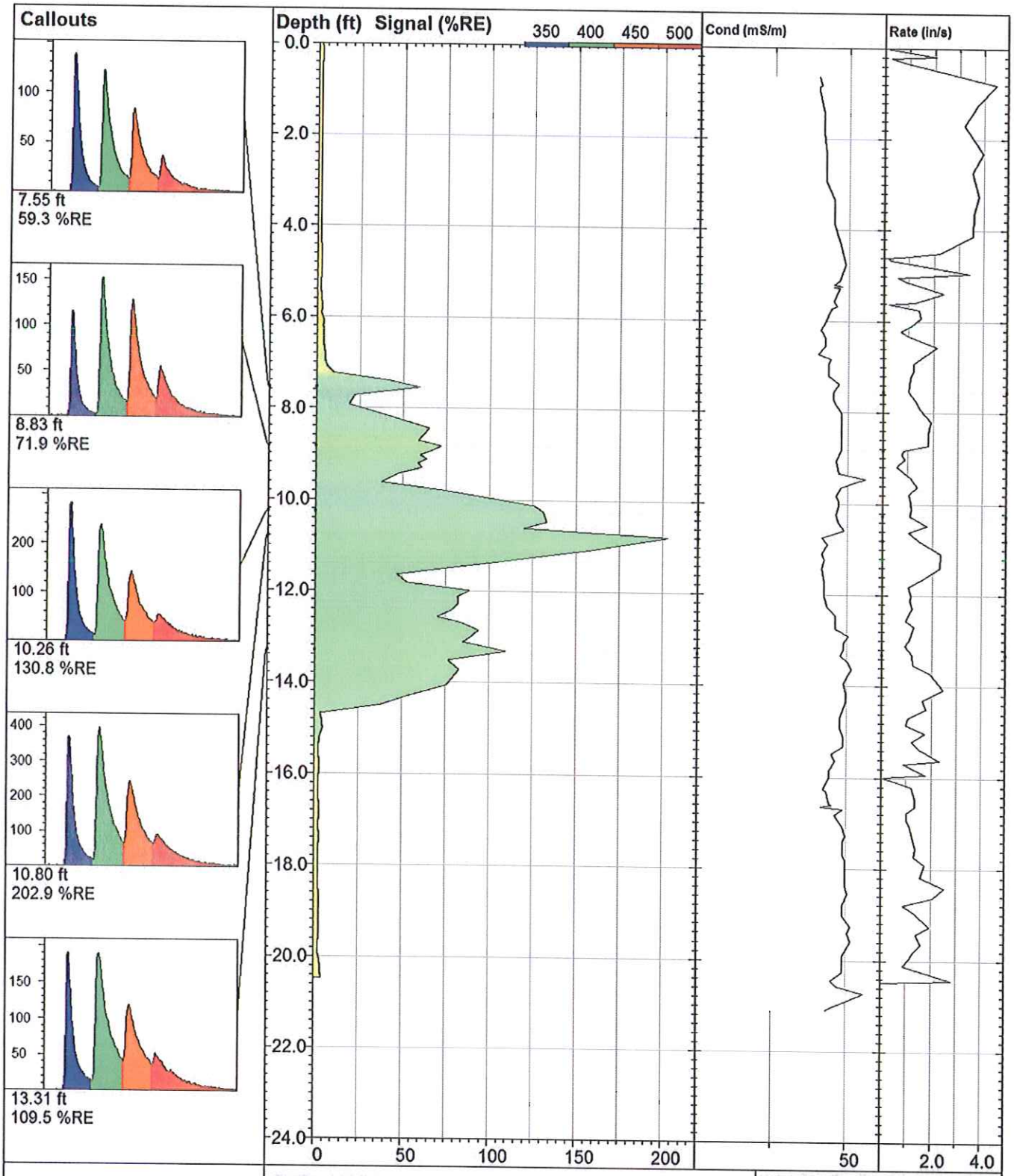
RG-M18		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.88 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **296.0 %RE @ 10.96 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 09:42 EDT**



RG-M20		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.13 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.1 %RE @ 5.60 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 08:36 EDT**



RG-M22		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.21 ft**
Client / Job: **Stanley / RG-M22**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **799.7 %RE @ 14.82 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 08:21 MST**

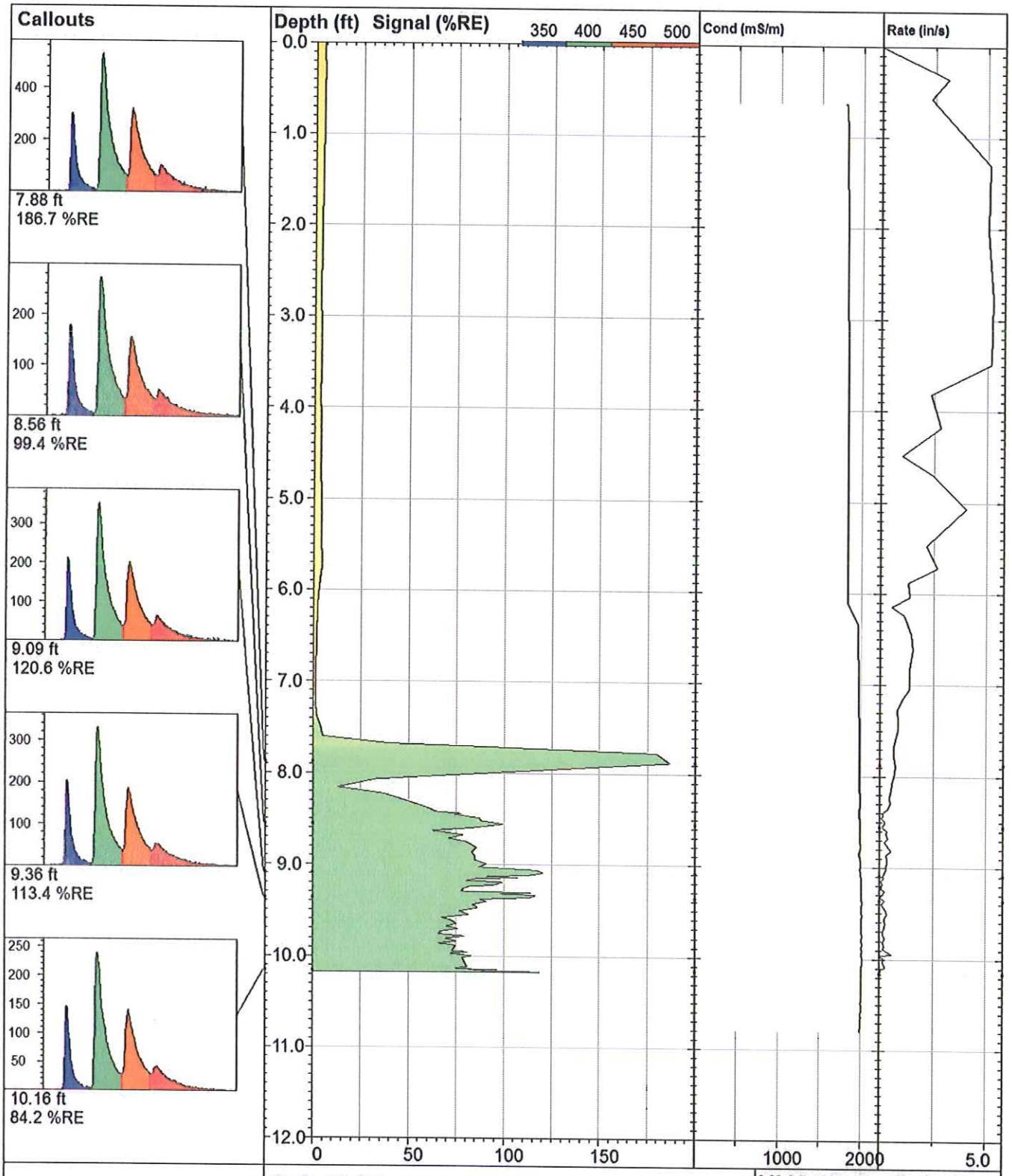


VIRONEX

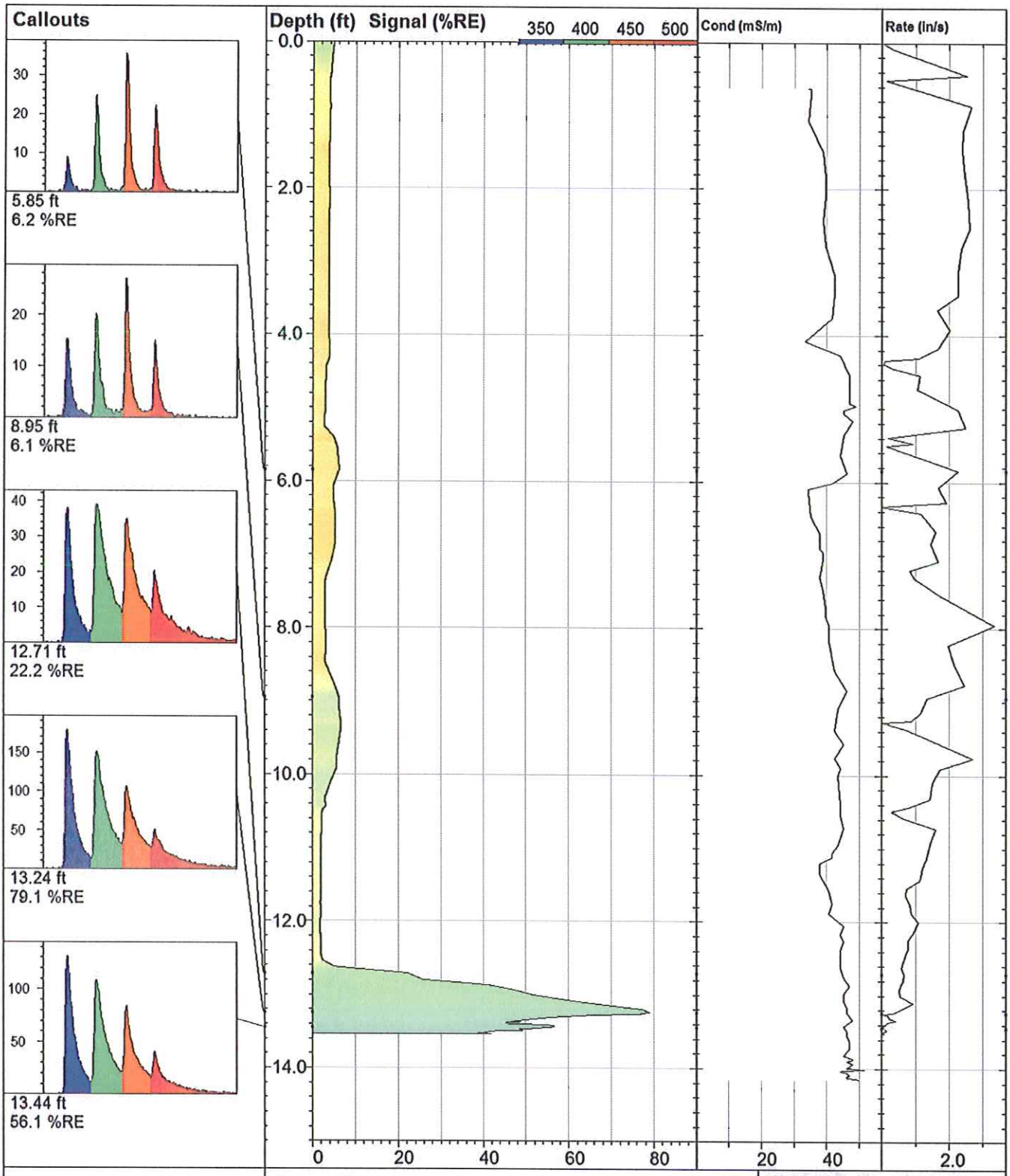
RG-M23

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.48 ft**
Client / Job: **Stanley / RG-M23**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **202.9 %RE @ 10.80 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 09:05 MST**



RG-N13		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **10.17 ft**
Client / Job: **Stanley / RG-N13**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **186.7 %RE @ 7.88 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 12:10 MST**

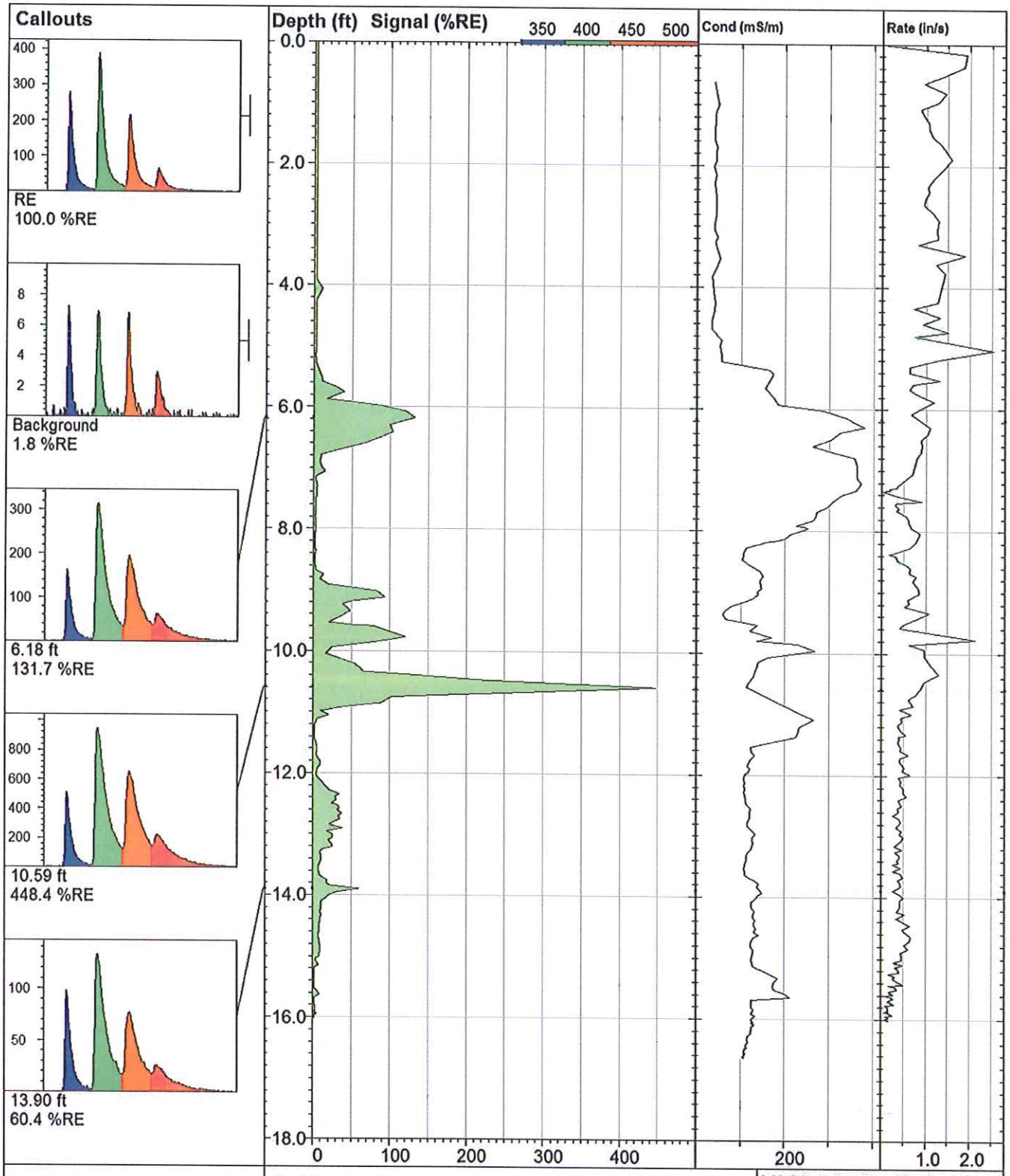


VIRONEX

RG-N22

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **13.54 ft**
Client / Job: **Stanley / RG-N22**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **79.1 %RE @ 13.24 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 08:42 MST**

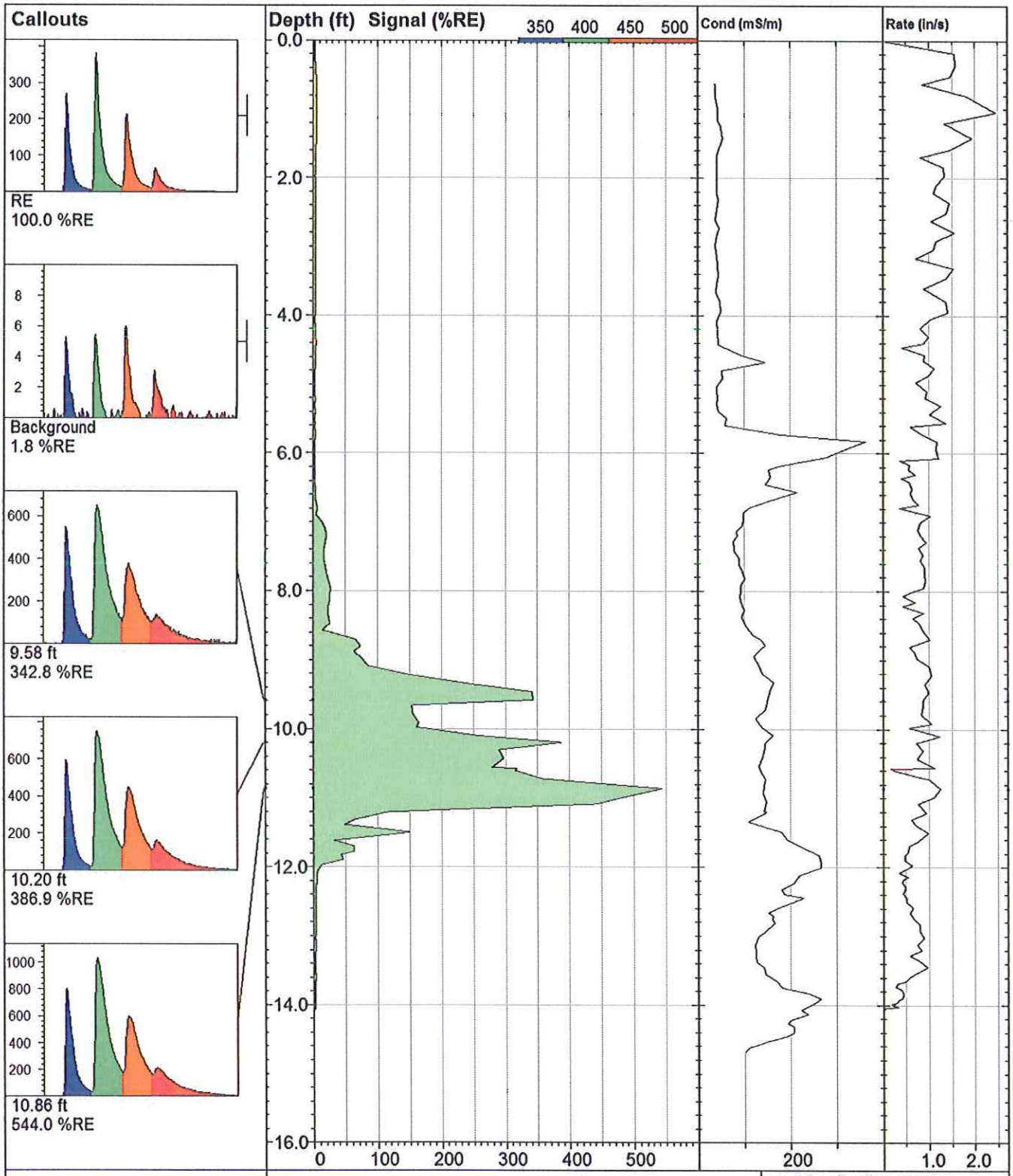


VIRONEX

RG-O15

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.02 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **448.4 %RE @ 10.59 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 11:22 EDT**

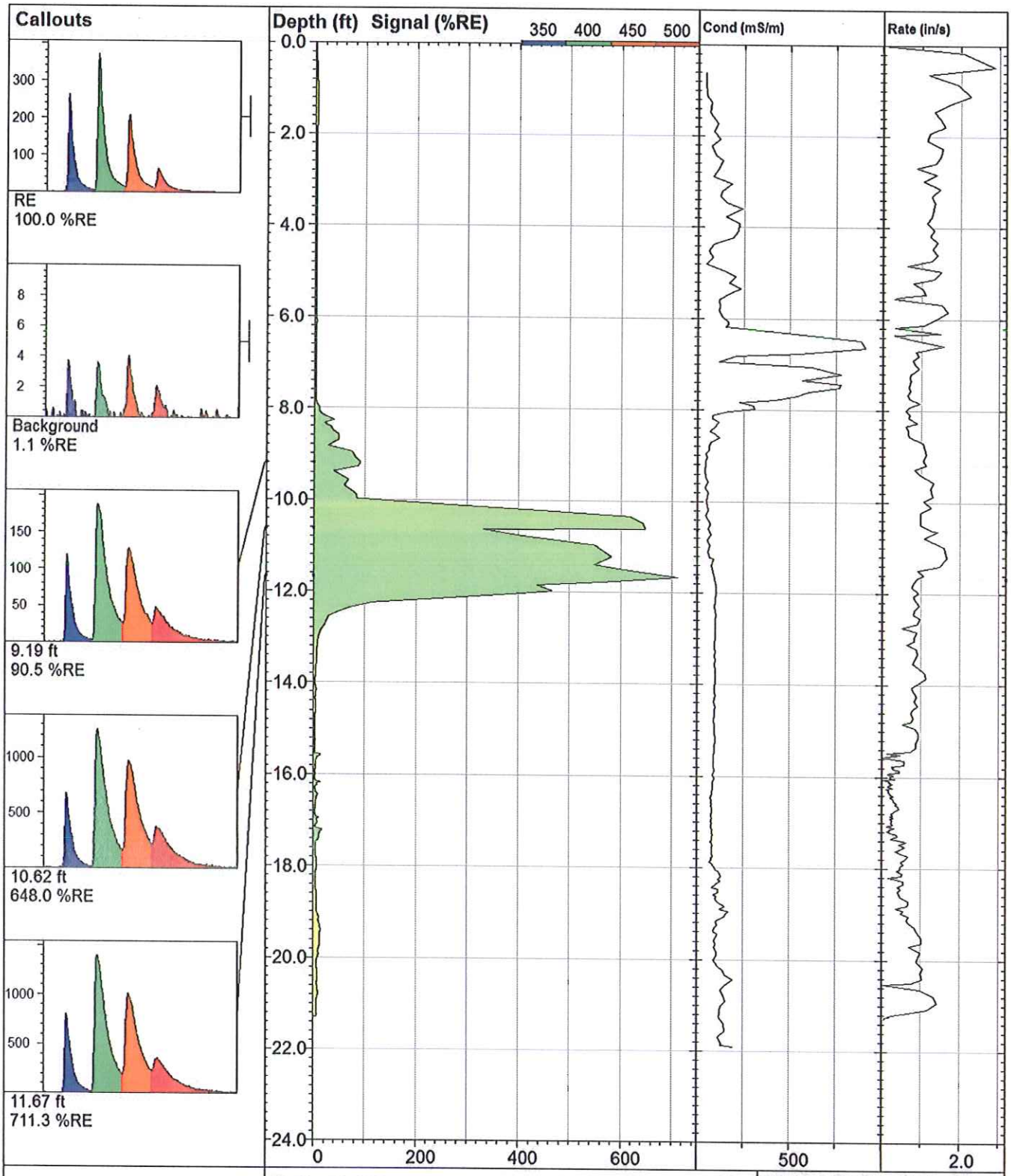


VIRONEX

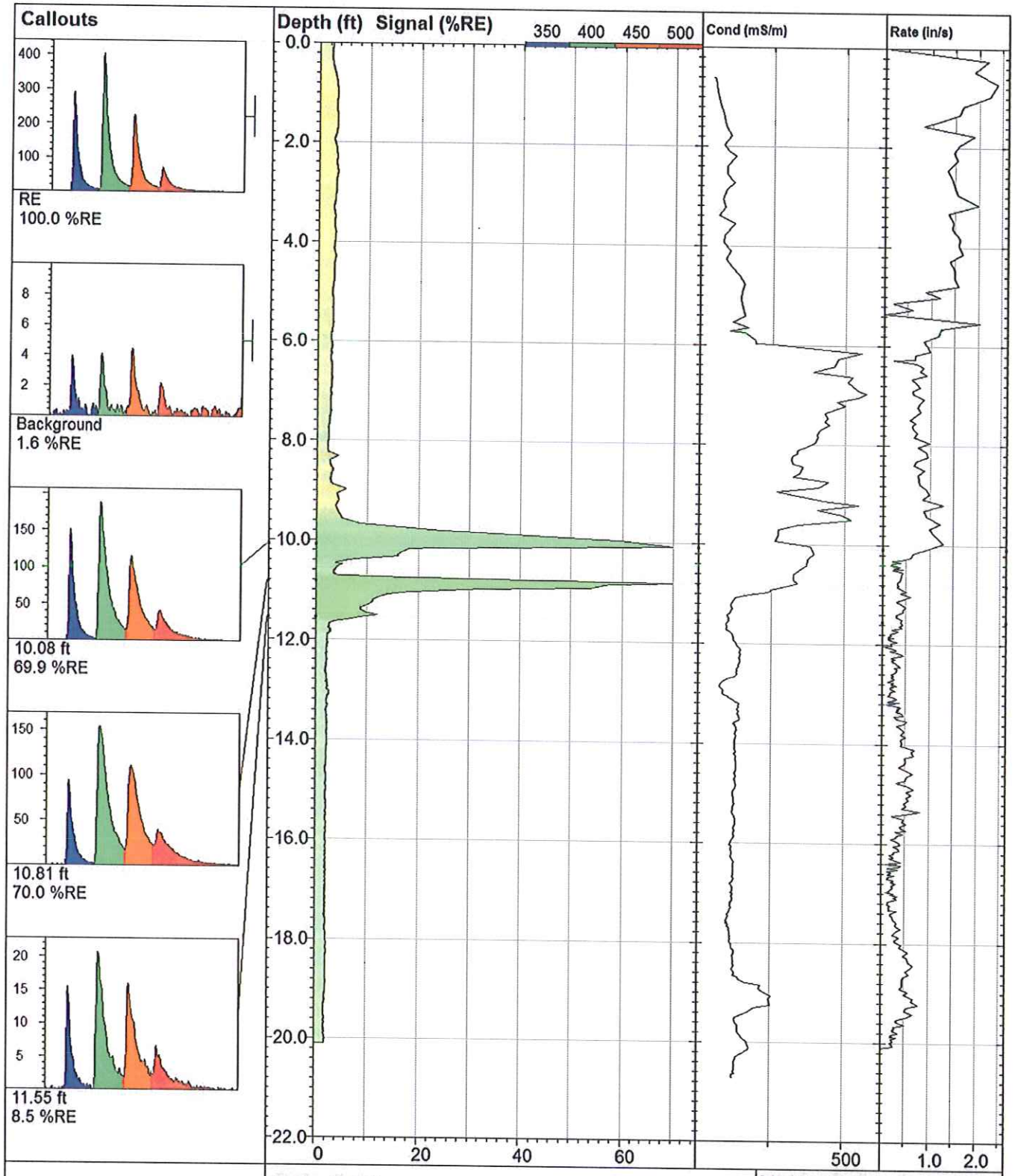
RG-O17

UVOST By Dakota
www.DakotaTechnologies.com

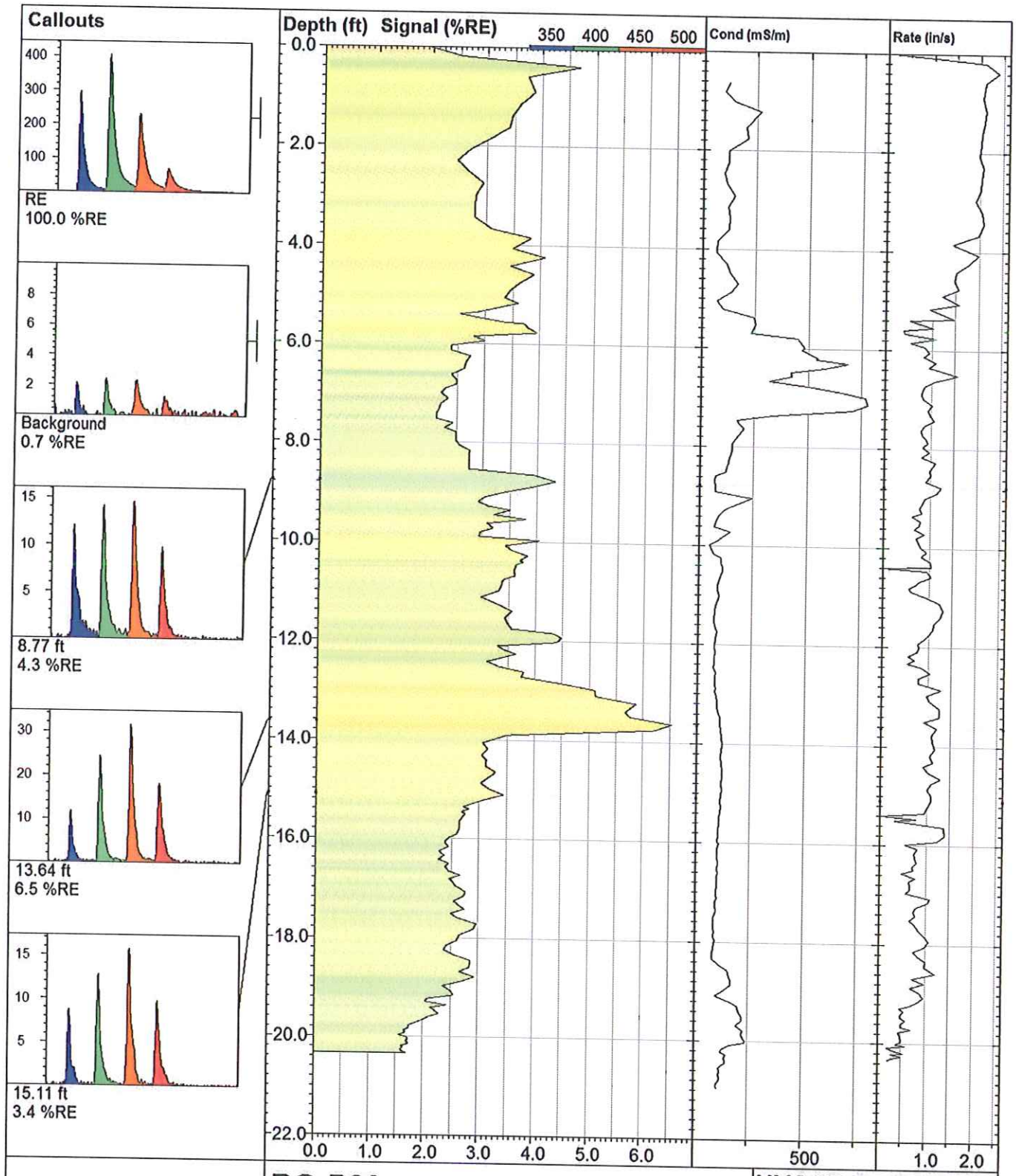
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.06 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **544.0 %RE @ 10.86 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 11:22 EDT**



RG-O19		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.29 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **711.3 %RE @ 11.67 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 11:57 EDT**



VIRONEX	**RG-P18**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.10 ft**
	Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **70.0 %RE @ 10.81 ft**
	Operator / Unit: **/ UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 13:36 EDT**

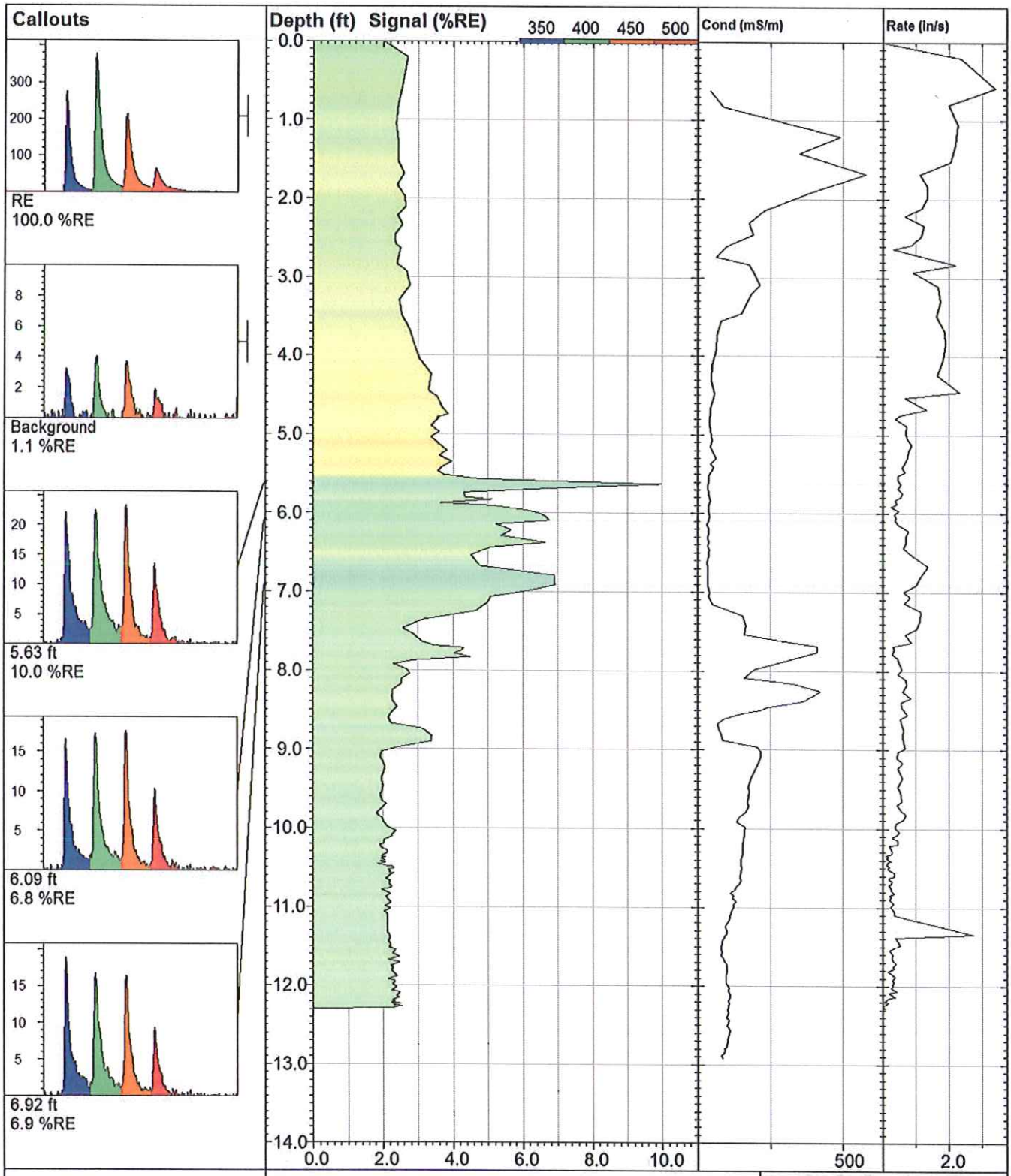


VIRONEX

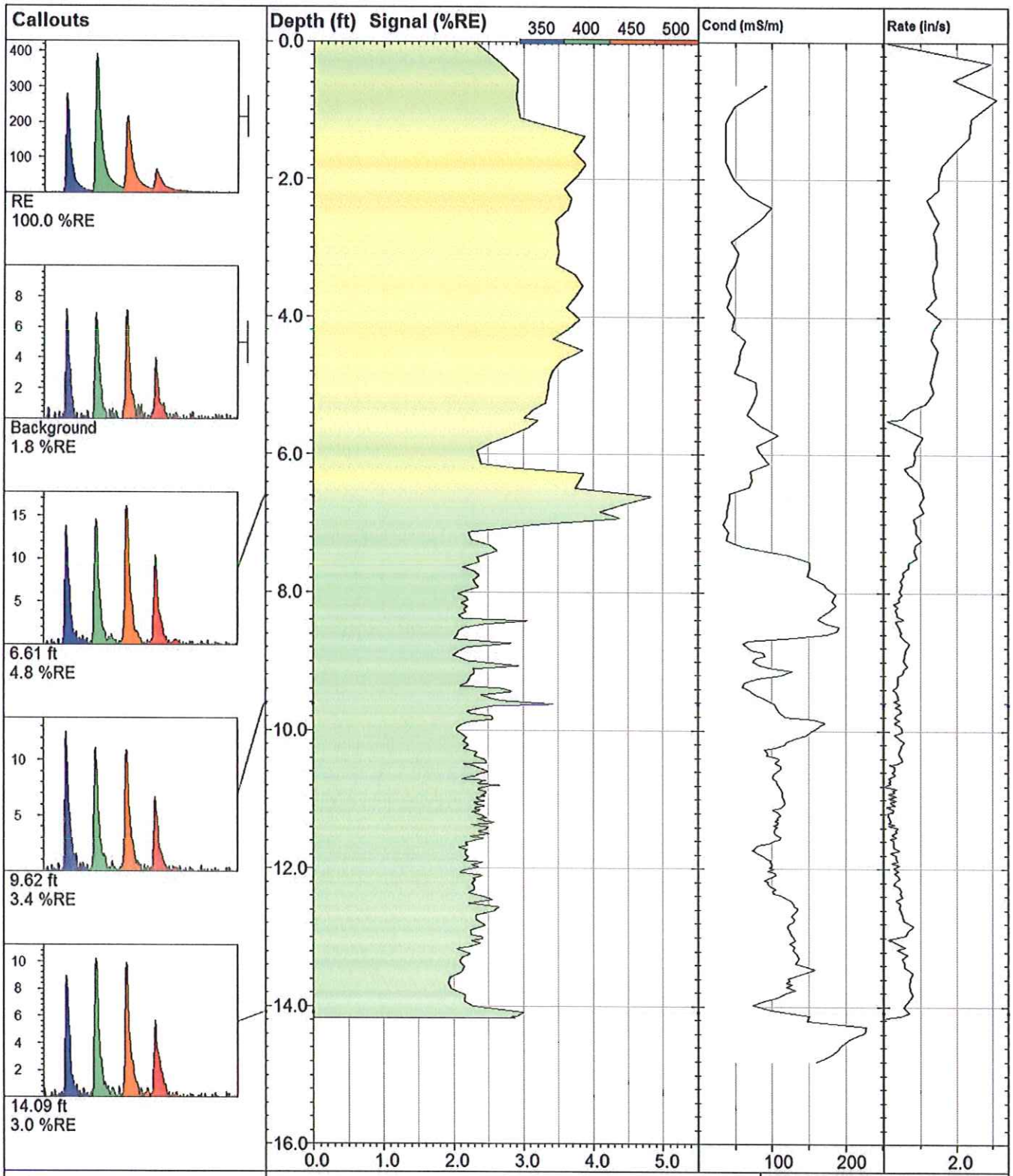
RG-P20

UVOST By Dakota
www.DakotaTechnologies.com

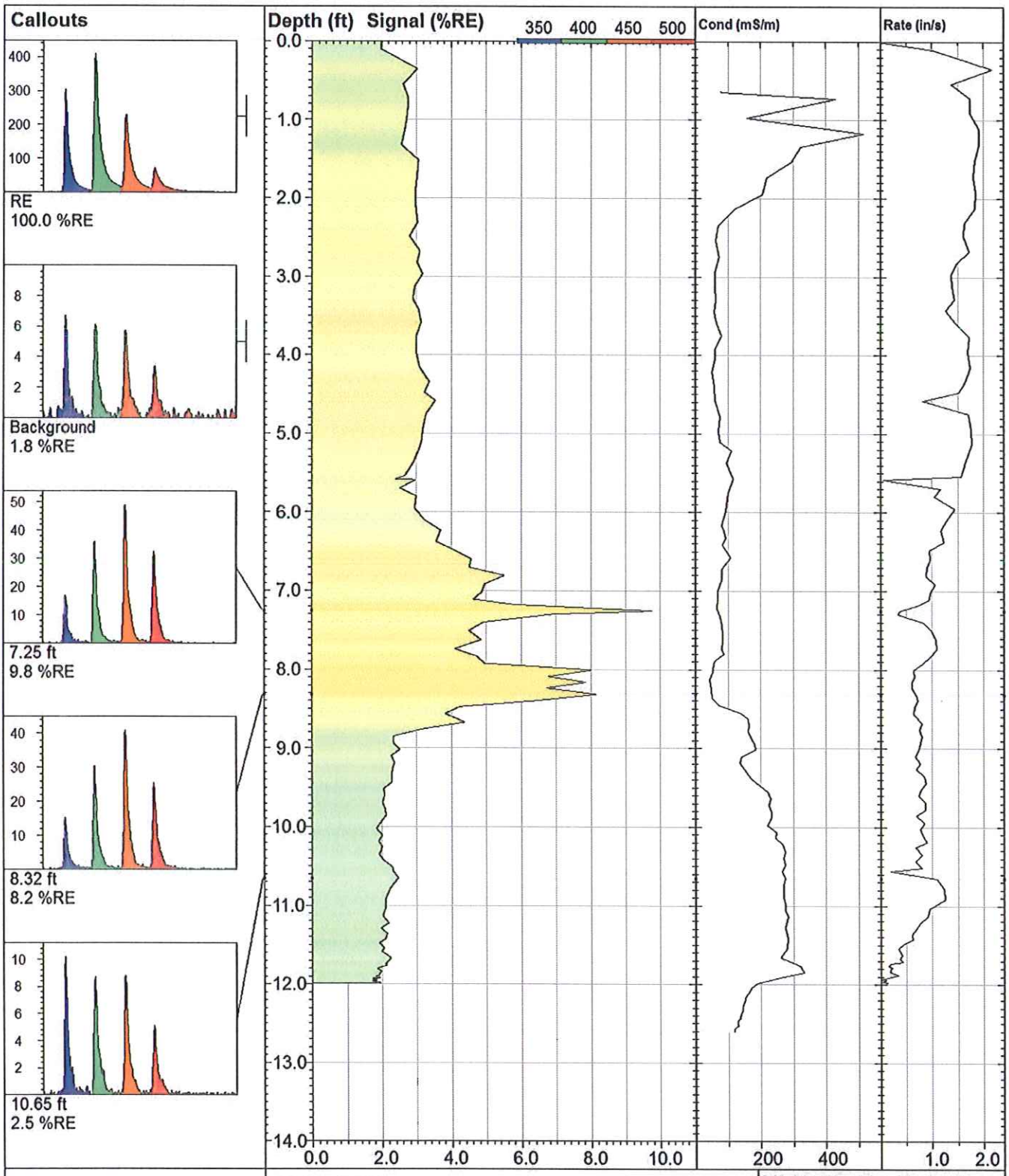
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.33 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.5 %RE @ 13.64 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 12:55 EDT**



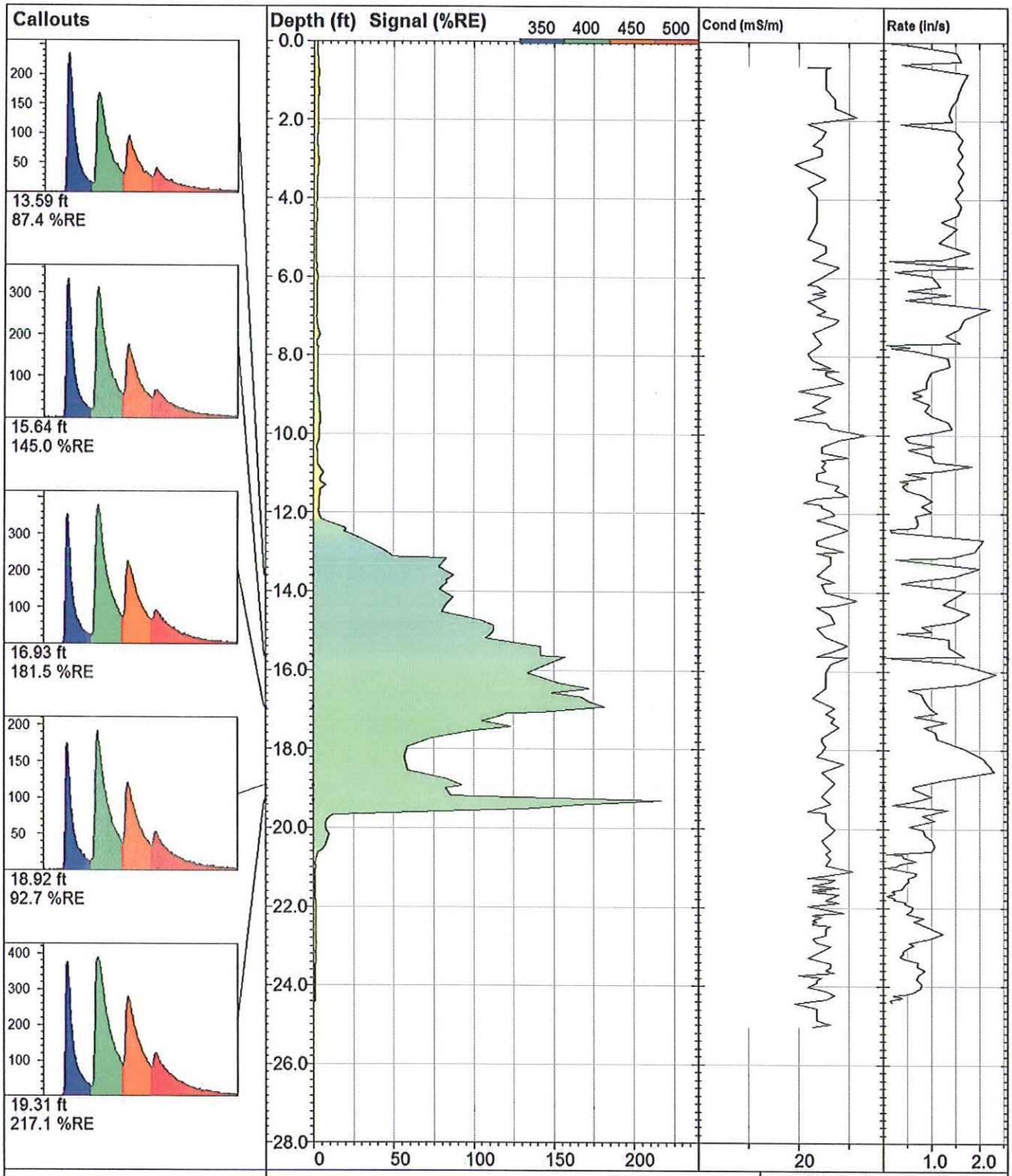
RG-Q15		UVOST By Dakota www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **12.29 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.0 %RE @ 5.63 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 10:58 EDT**



RG-Q17		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.17 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **4.8 %RE @ 6.61 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 10:35 EDT**



RG-Q19		**UVOST By Dakota** www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.99 ft**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.8 %RE @ 7.25 ft**
Operator / Unit: **/ UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 15:36 EDT**

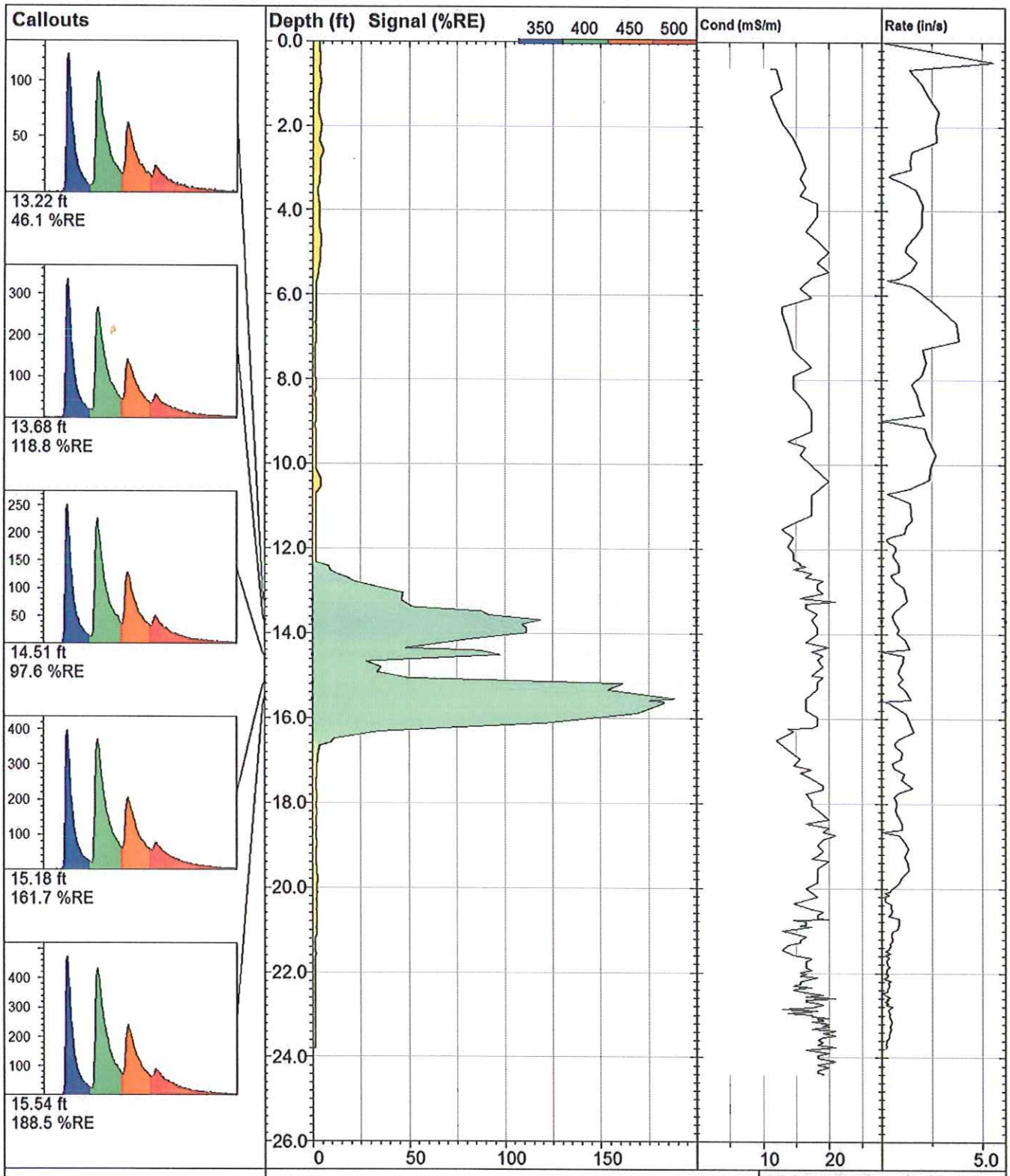


VIRONEX

RG-Q25

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.41 ft**
Client / Job: **Stanley / RG-Q25**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **217.1 %RE @ 19.31 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 13:50 MST**

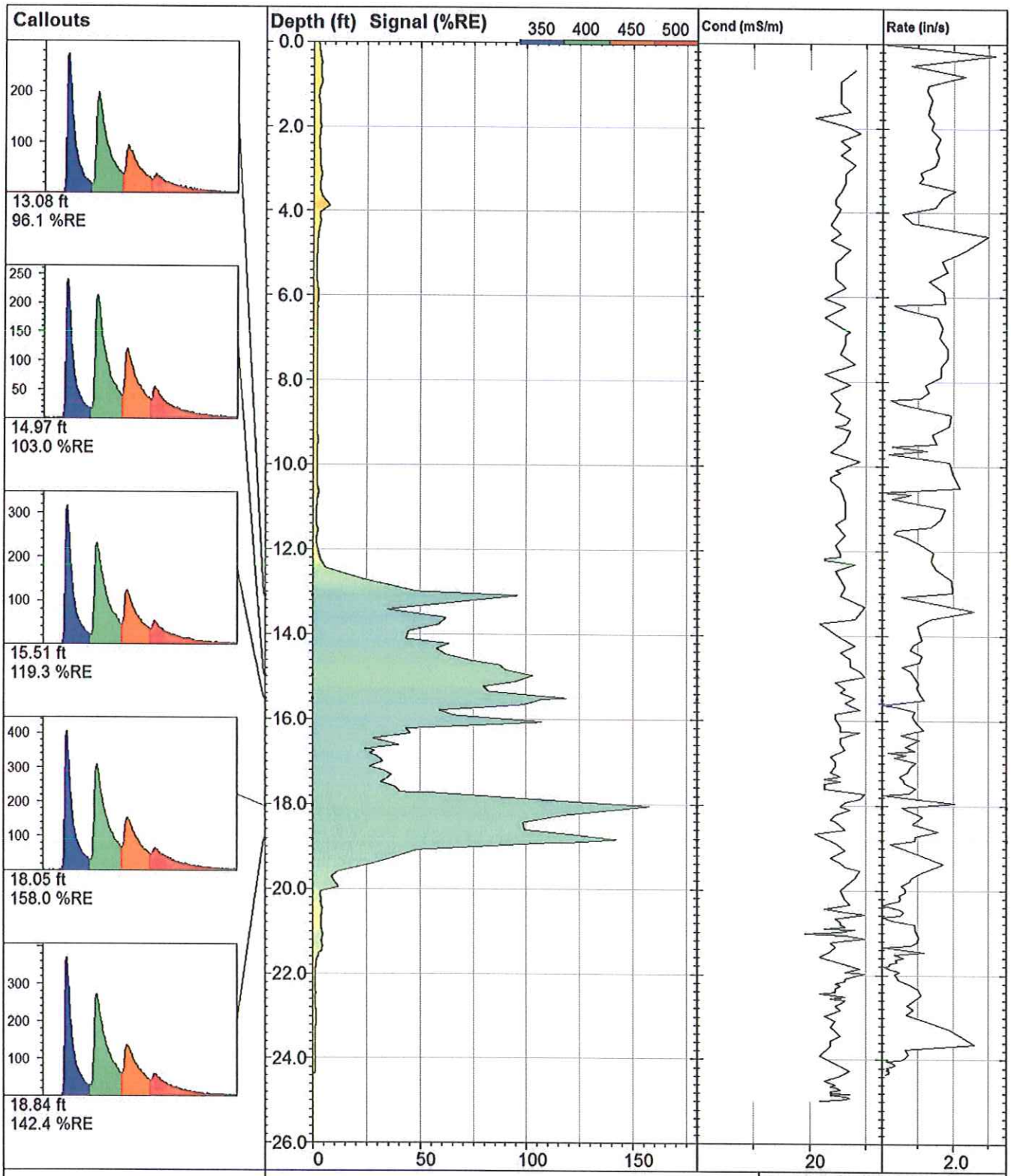


VIRONEX

RG-Q30

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.79 ft**
Client / Job: **Stanley / RG-Q30**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **188.5 %RE @ 15.54 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 15:58 MST**

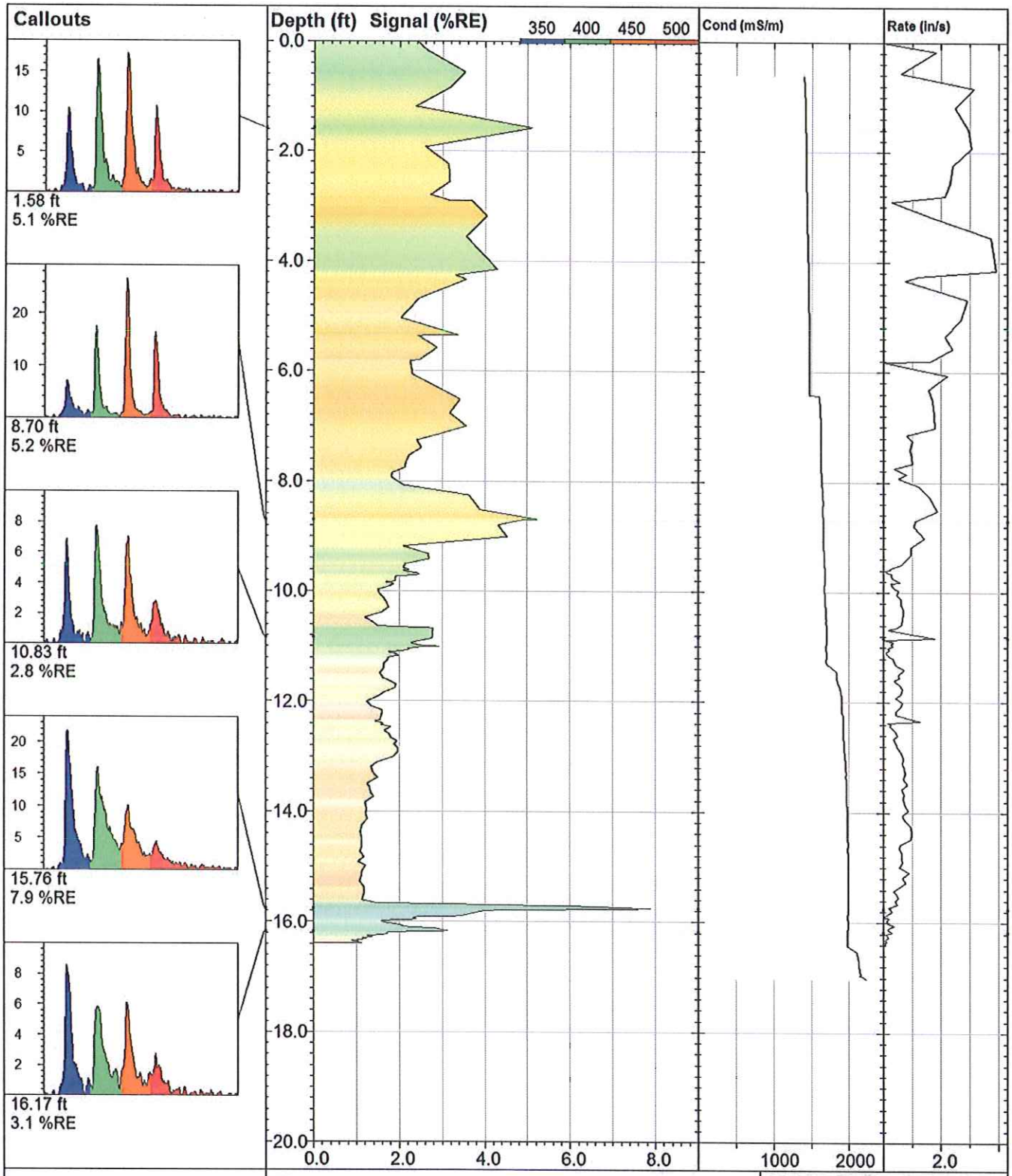


VIRONEX

RG-R28

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.36 ft**
Client / Job: **Stanley / RG-U30**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **158.0 %RE @ 18.05 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 13:18 MST**

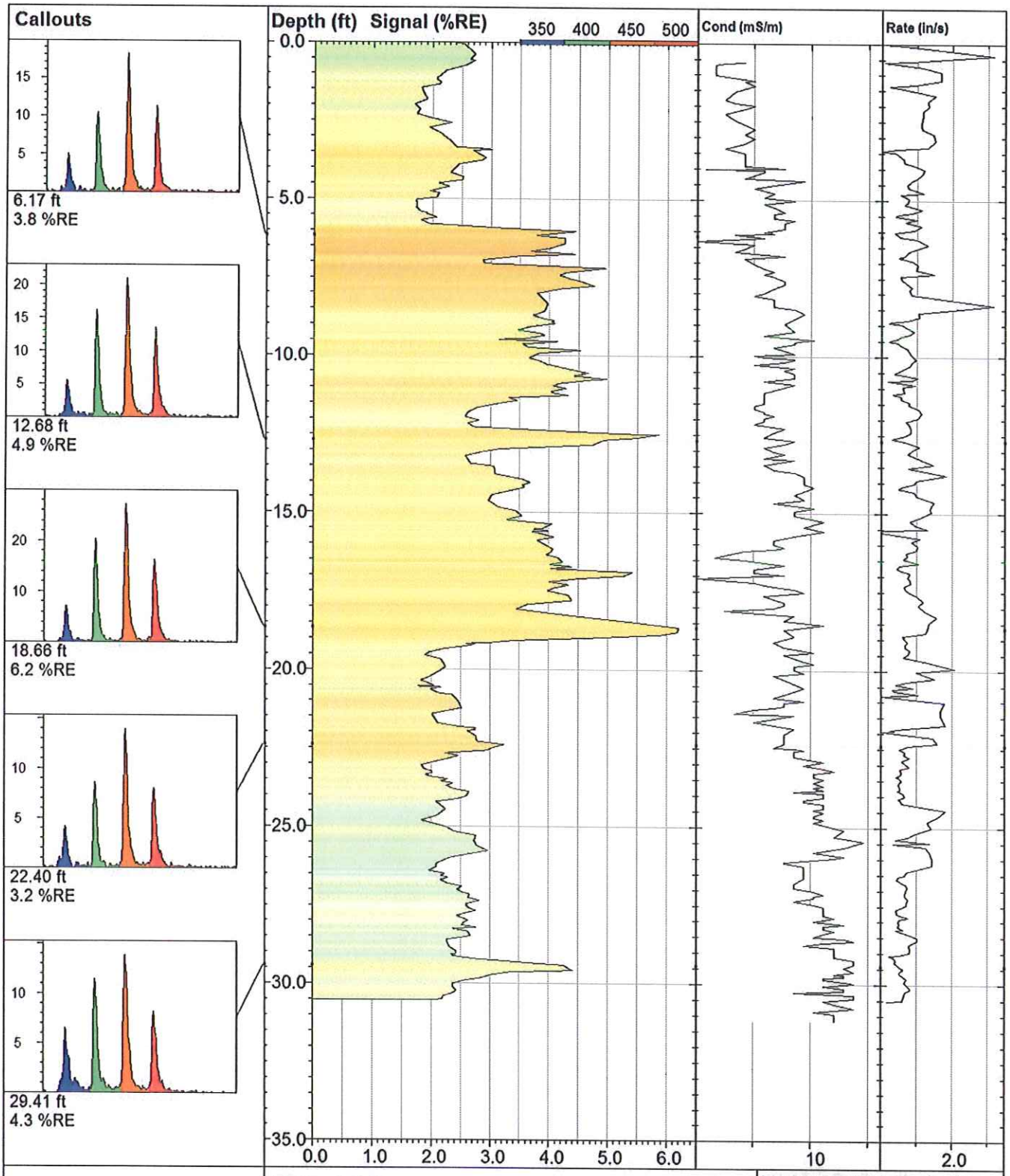


VIRONEX

RG-S19R

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.39 ft**
Client / Job: **Stanley / RG-S19R**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.9 %RE @ 15.76 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 12:29 MST**

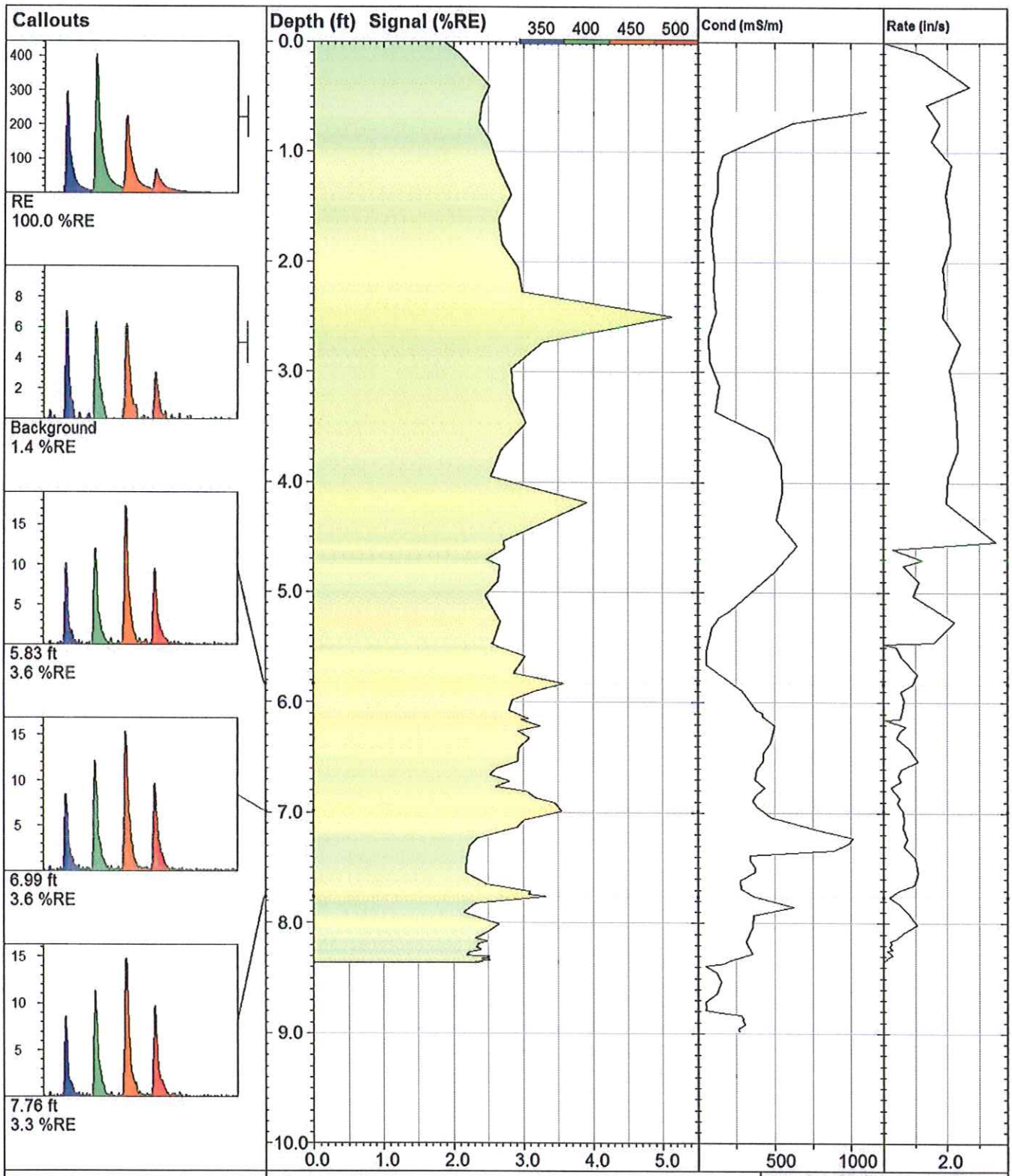


VIRONEX

RG-S41

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.53 ft**
Client / Job: **Stanley / RG-S41**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.2 %RE @ 18.66 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 09:44 MST**

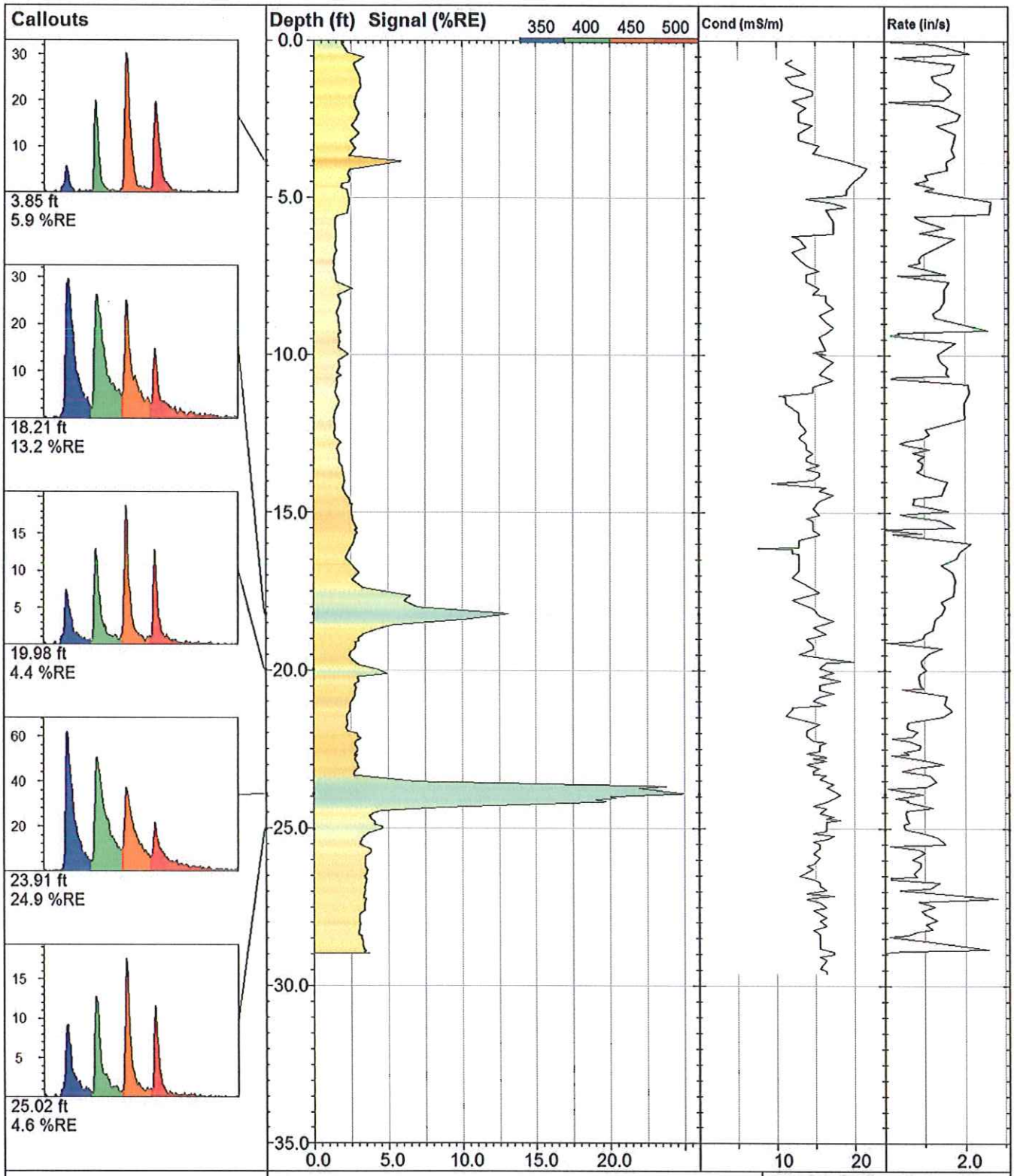


VIRONEX

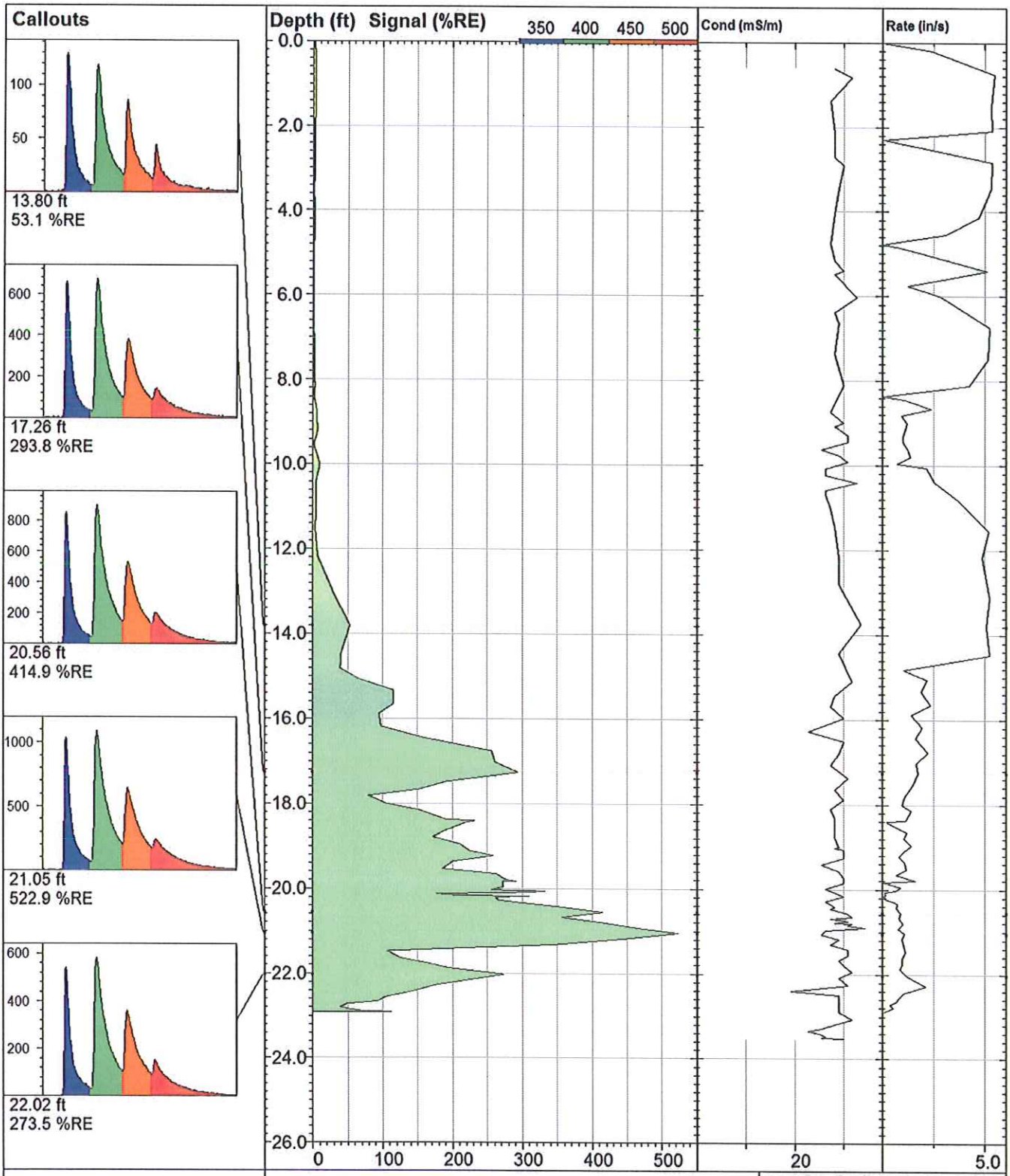
RG-T18

UVOST By Dakota
www.DakotaTechnologies.com

Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.36 ft**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.1 %RE @ 2.50 ft**
Operator / Unit: **/ UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-28 16:39 EDT**



RG-T23		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.97 ft**
Client / Job: **Stanley / RG-T23**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **24.9 %RE @ 23.91 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 11:56 MST**

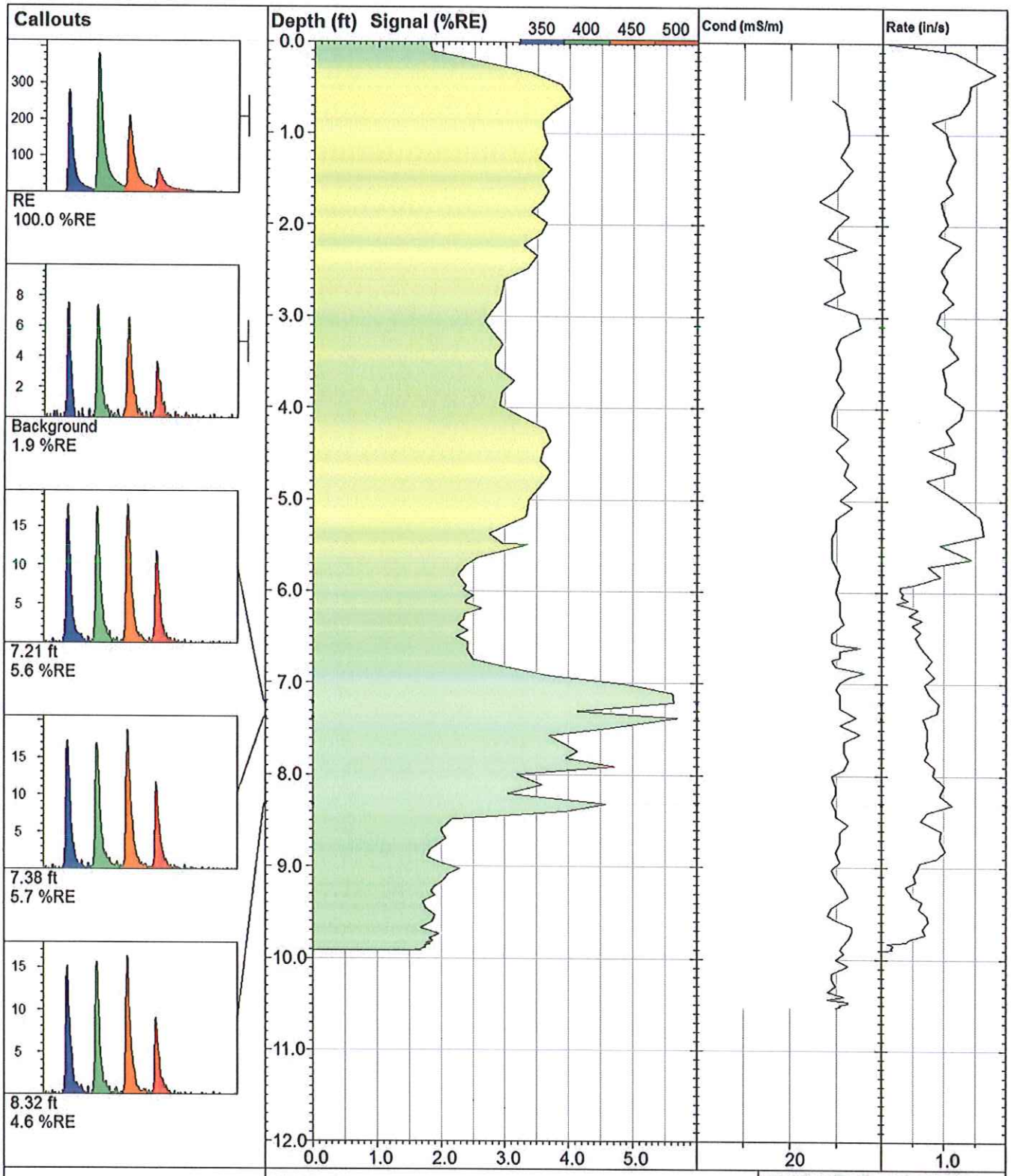


VIRONEX

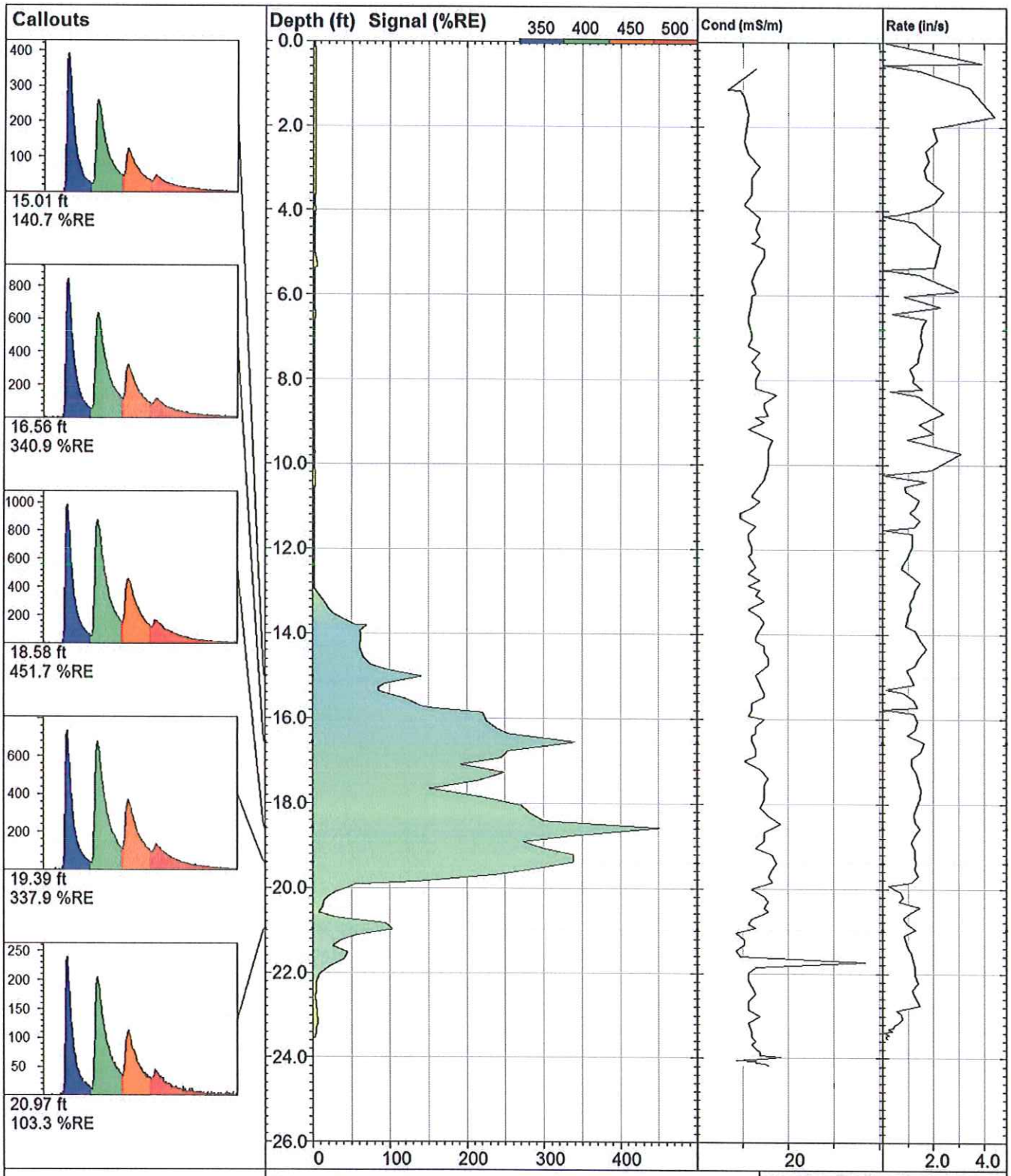
RG-T34

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.91 ft**
Client / Job: **Stanley / RG-T34**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **522.9 %RE @ 21.05 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 15:45 MST**



RG-U19		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.91 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.7 %RE @ 7.38 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 07:19 EDT**

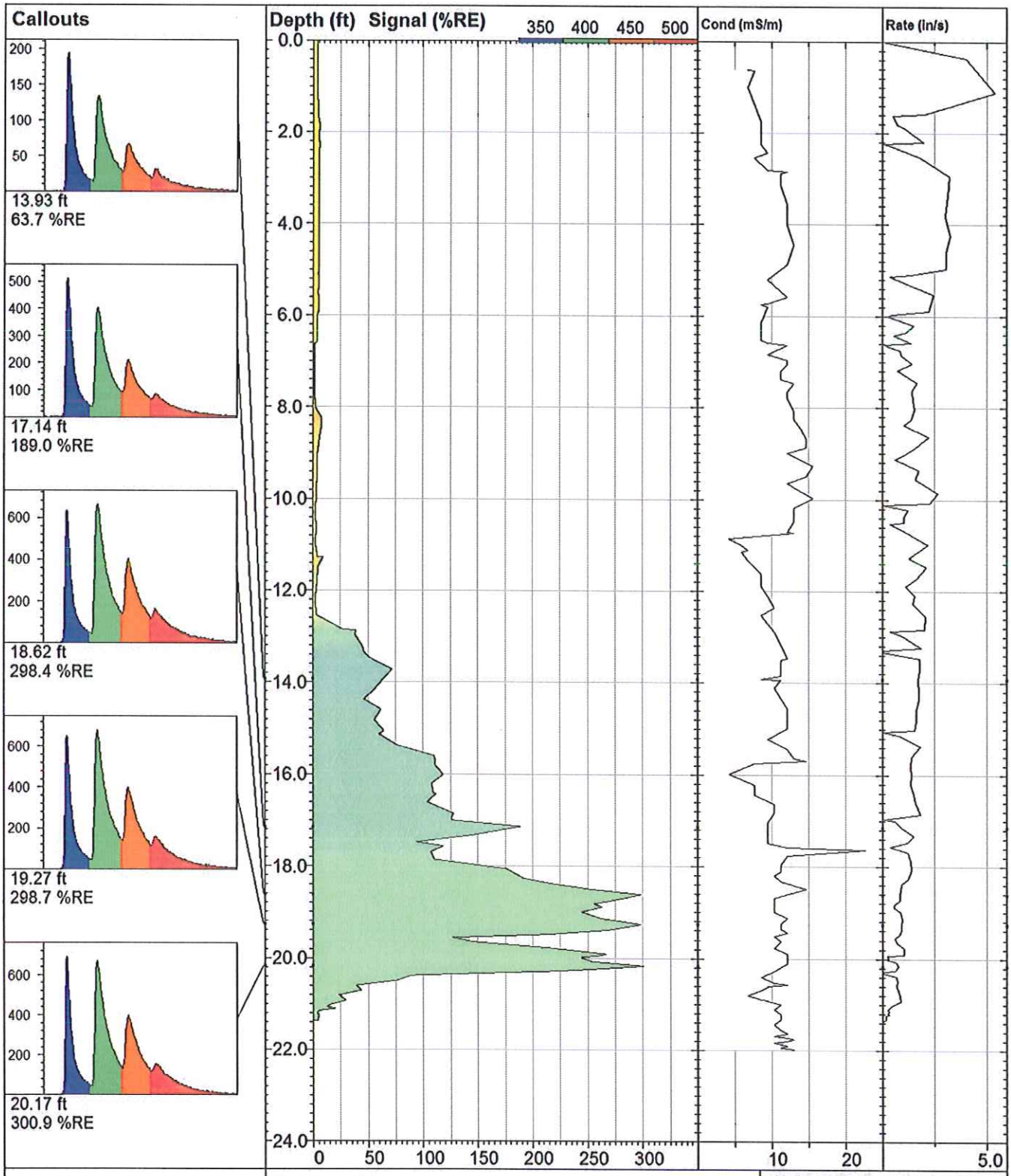


VIRONEX

RG-U25

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.54 ft**
Client / Job: **Stanley / RG-R25**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **451.7 %RE @ 18.58 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 12:28 MST**

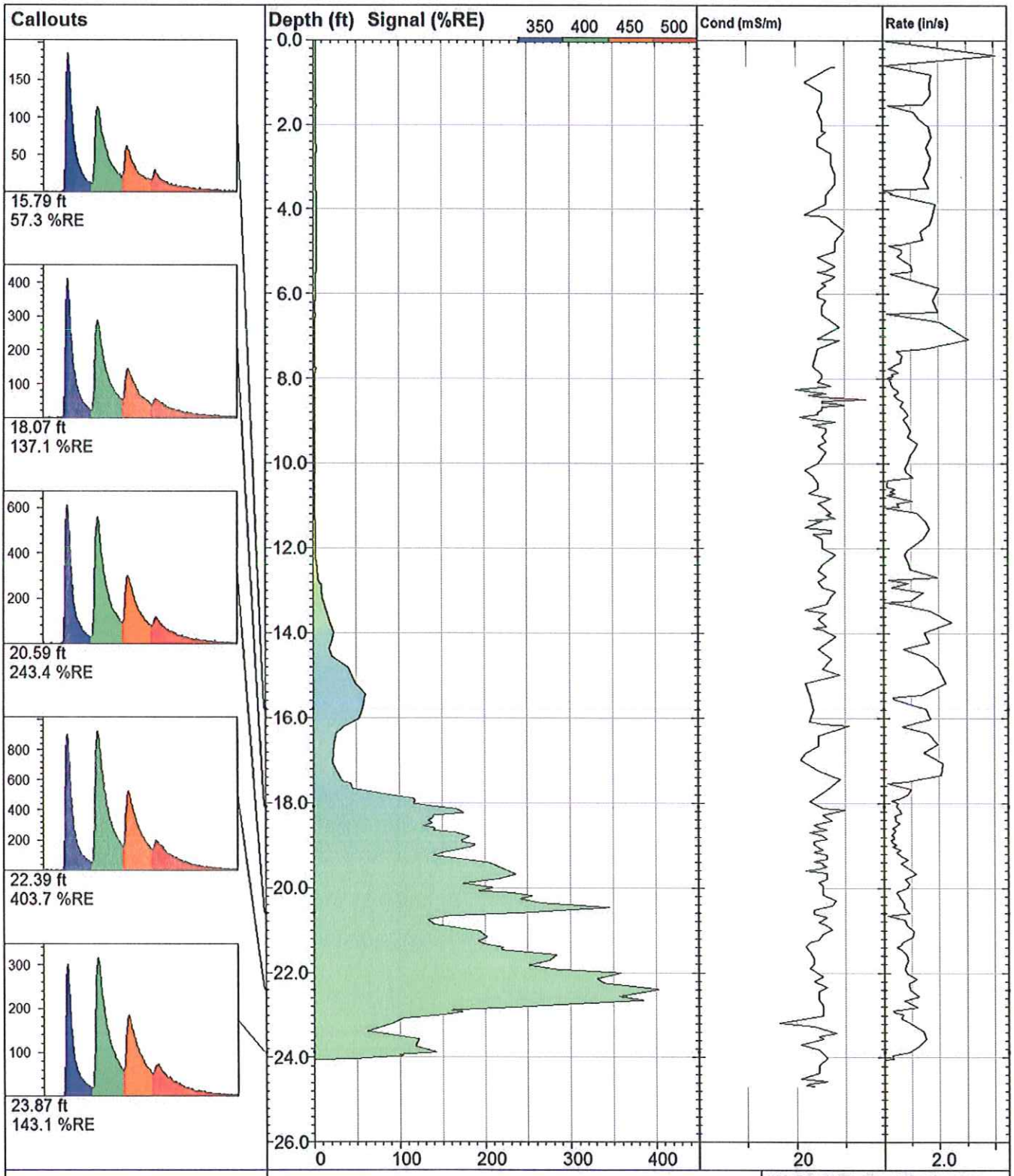


VIRONEX

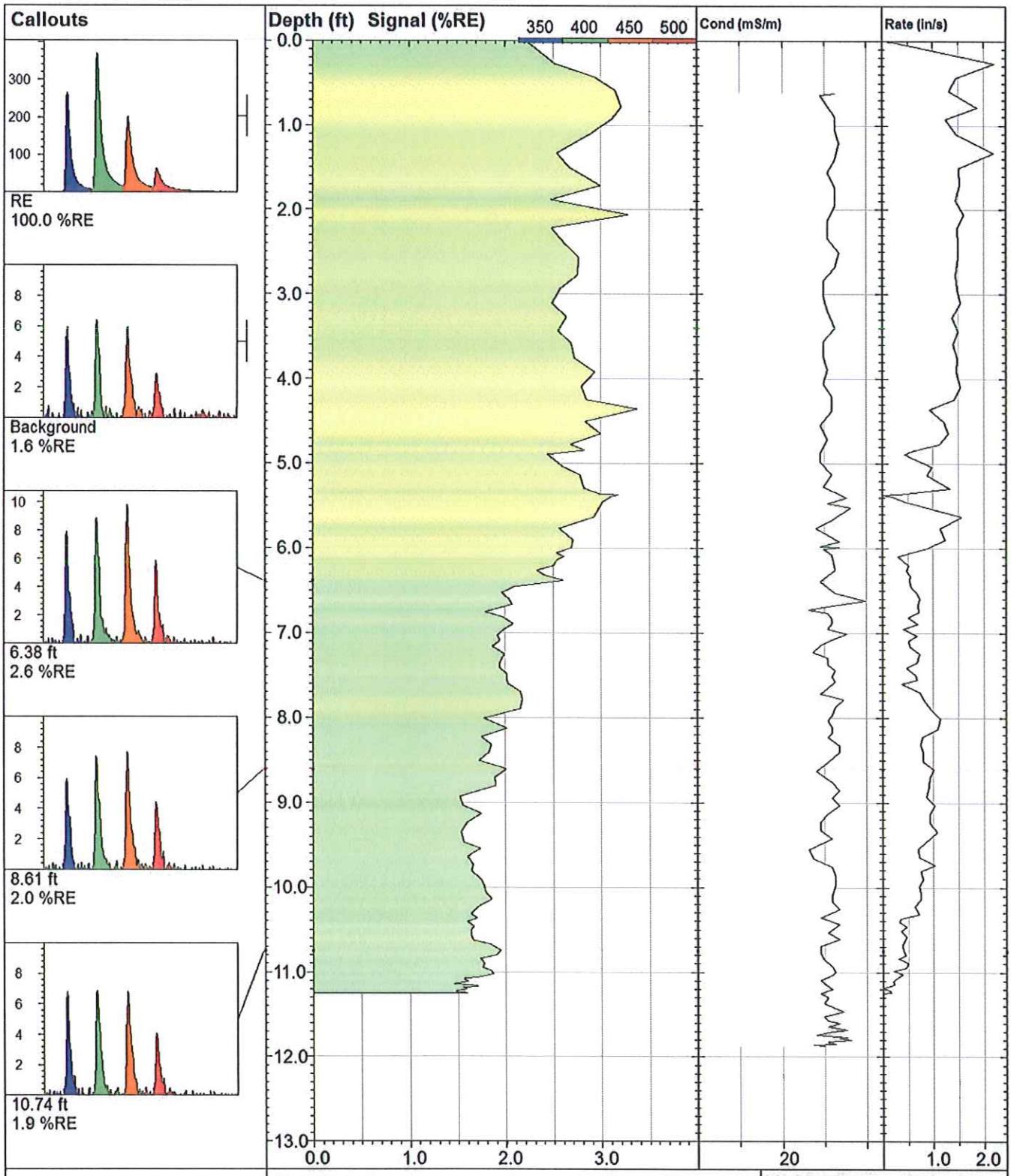
RG-U28

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.36 ft**
Client / Job: **Stanley / RG-U28**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **300.9 %RE @ 20.17 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 13:15 MST**



VIRONEX	**RG-U30**	**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.06 ft**
Client / Job: **Stanley / RG-U30**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **403.7 %RE @ 22.39 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 12:53 MST**

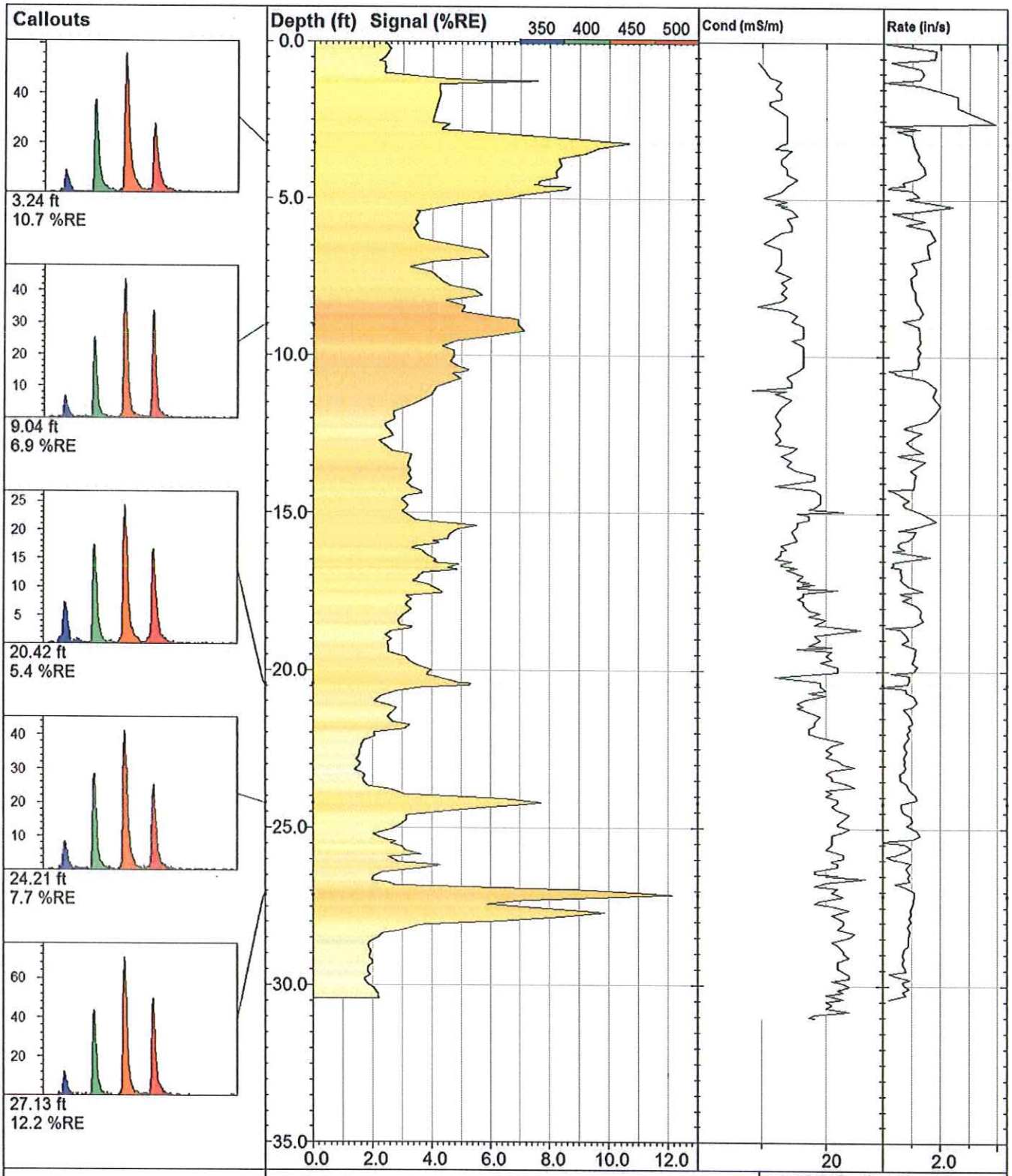


VIRONEX

RG-V18

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.25 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.4 %RE @ 4.36 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 07:45 EDT**

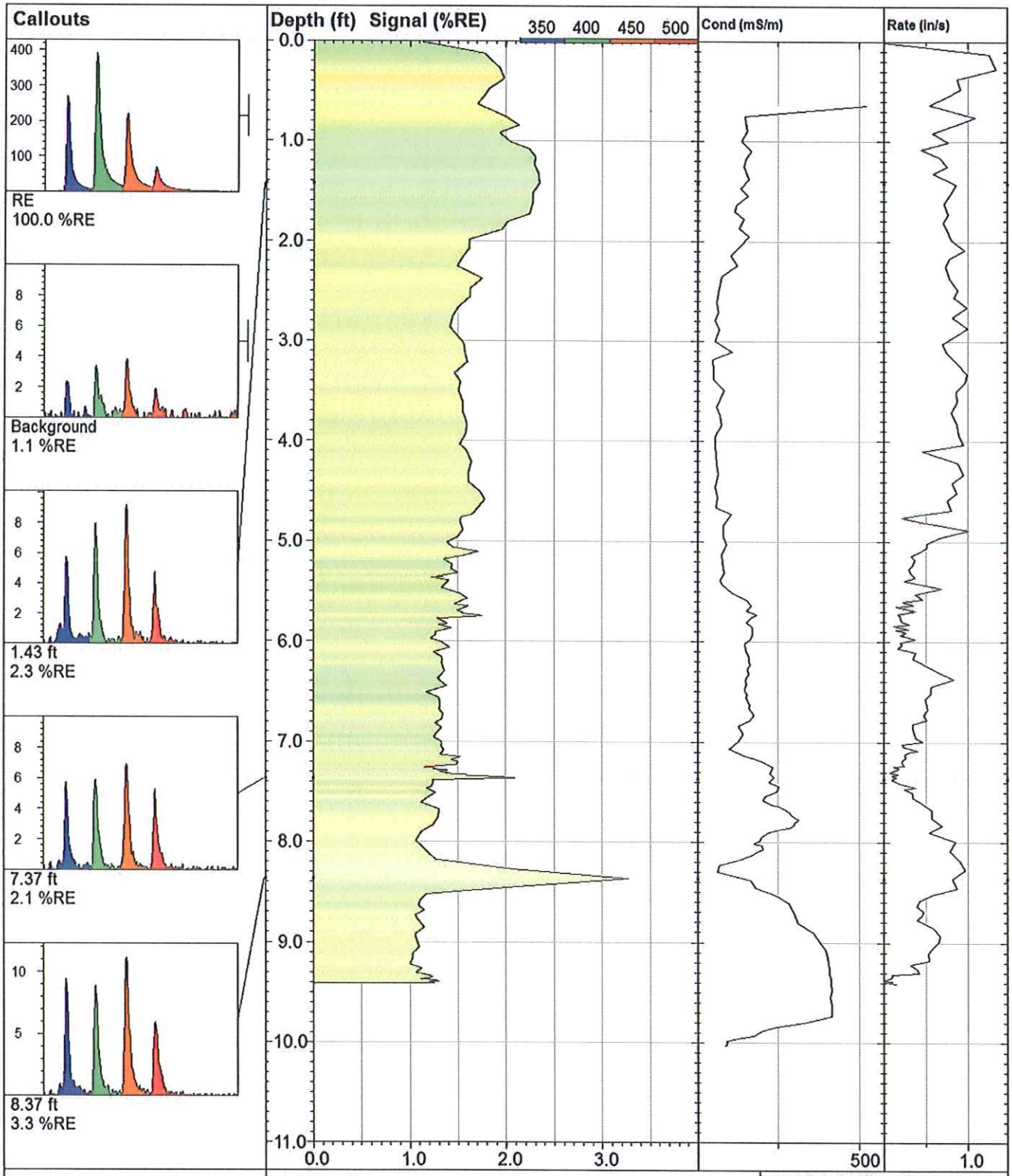


VIRONEX

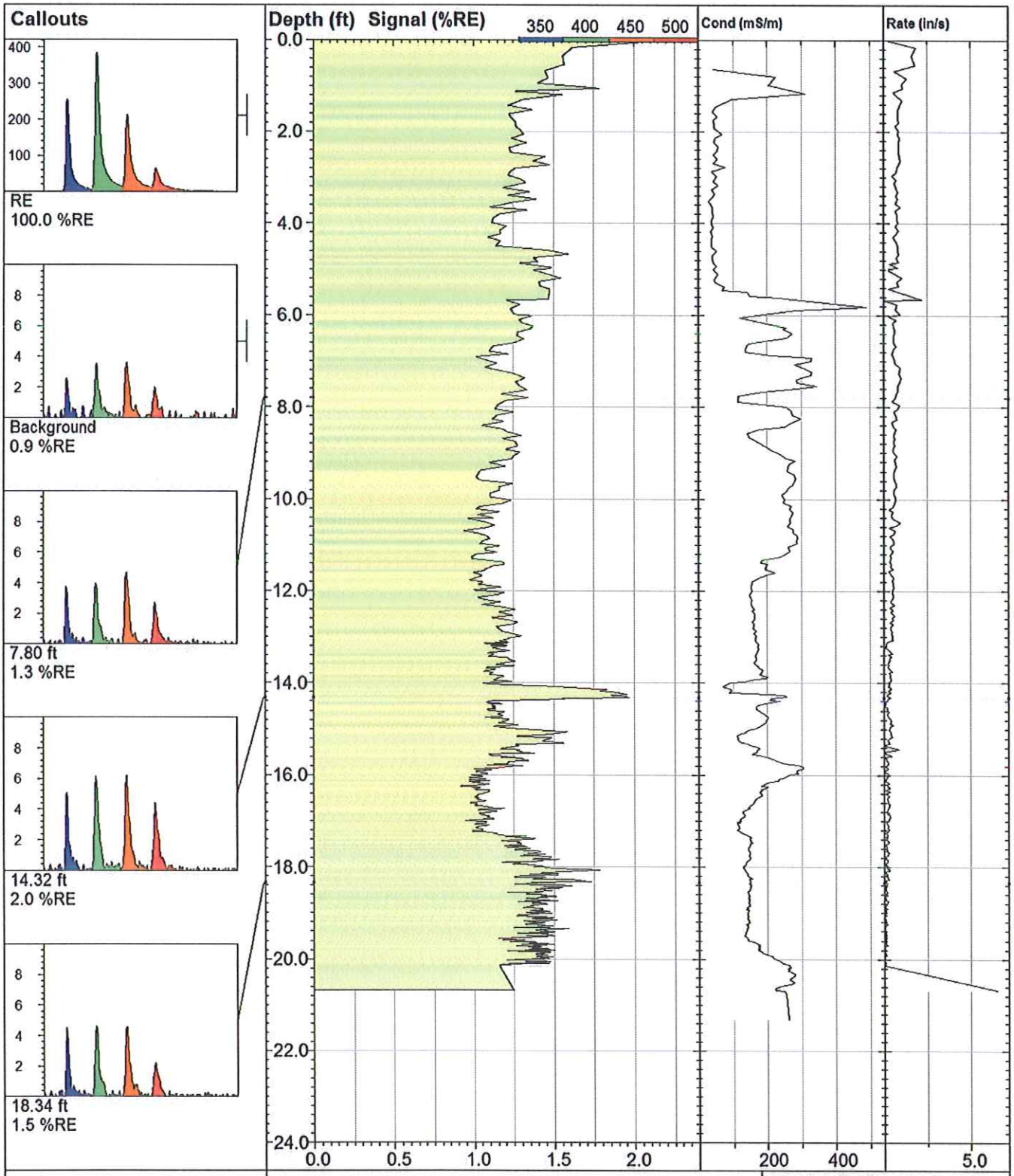
RG-V42

UVOST By Dakota
www.DakotaTechnologies.com

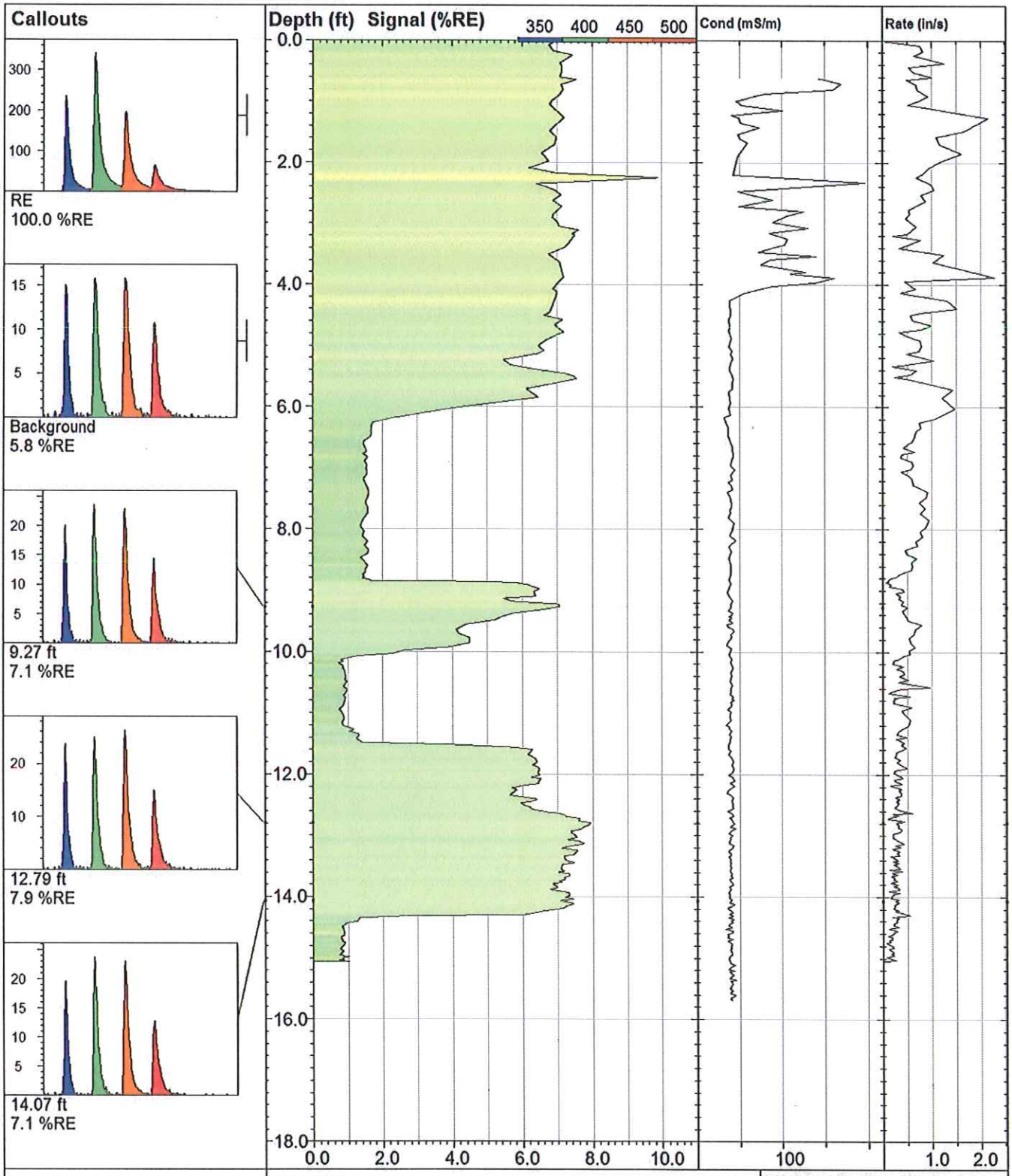
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.41 ft**
Client / Job: **Stanley / RG-V42**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.2 %RE @ 27.13 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 10:36 MST**



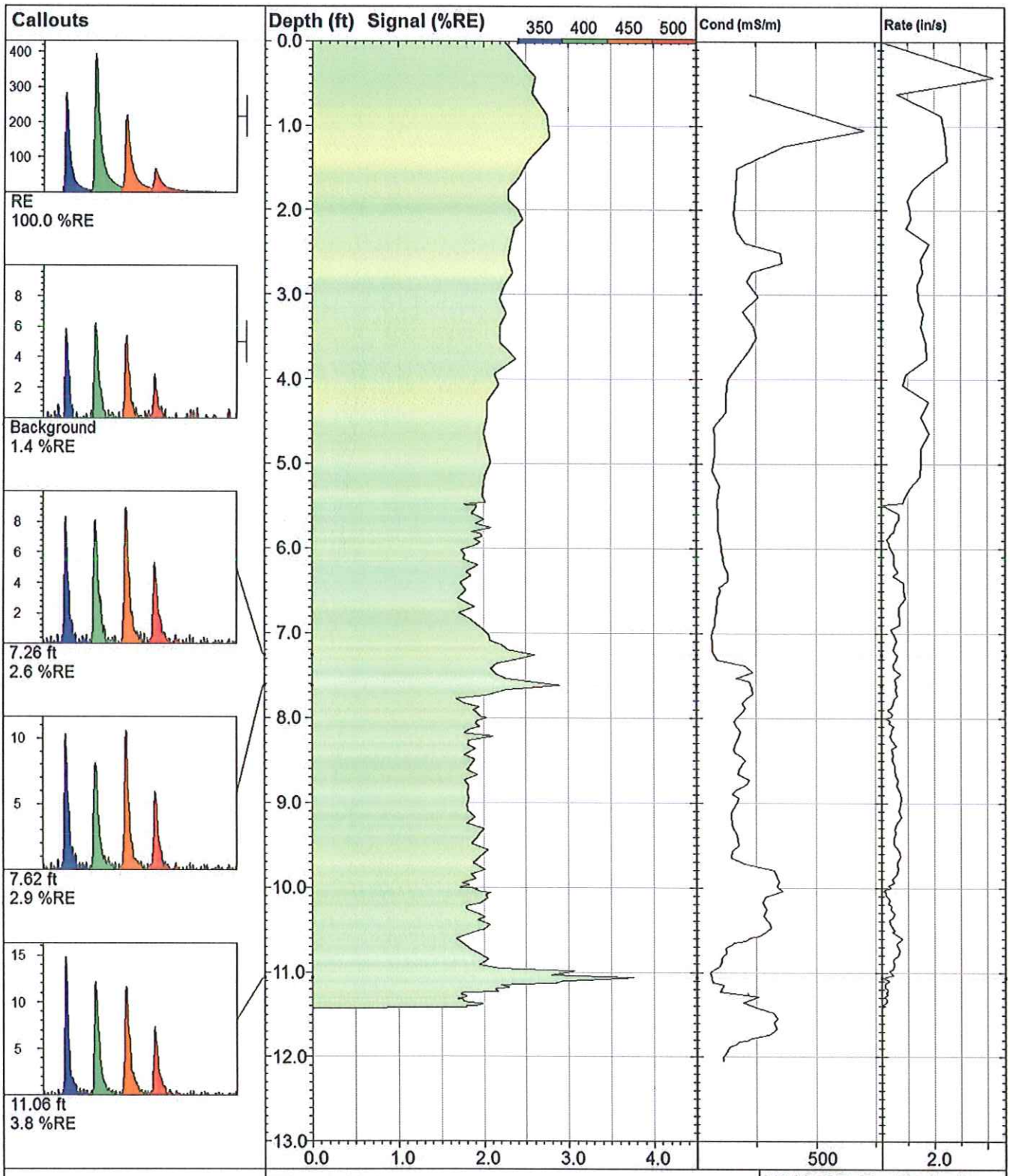
RG-W8		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.41 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.3 %RE @ 8.37 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 12:08 EDT**



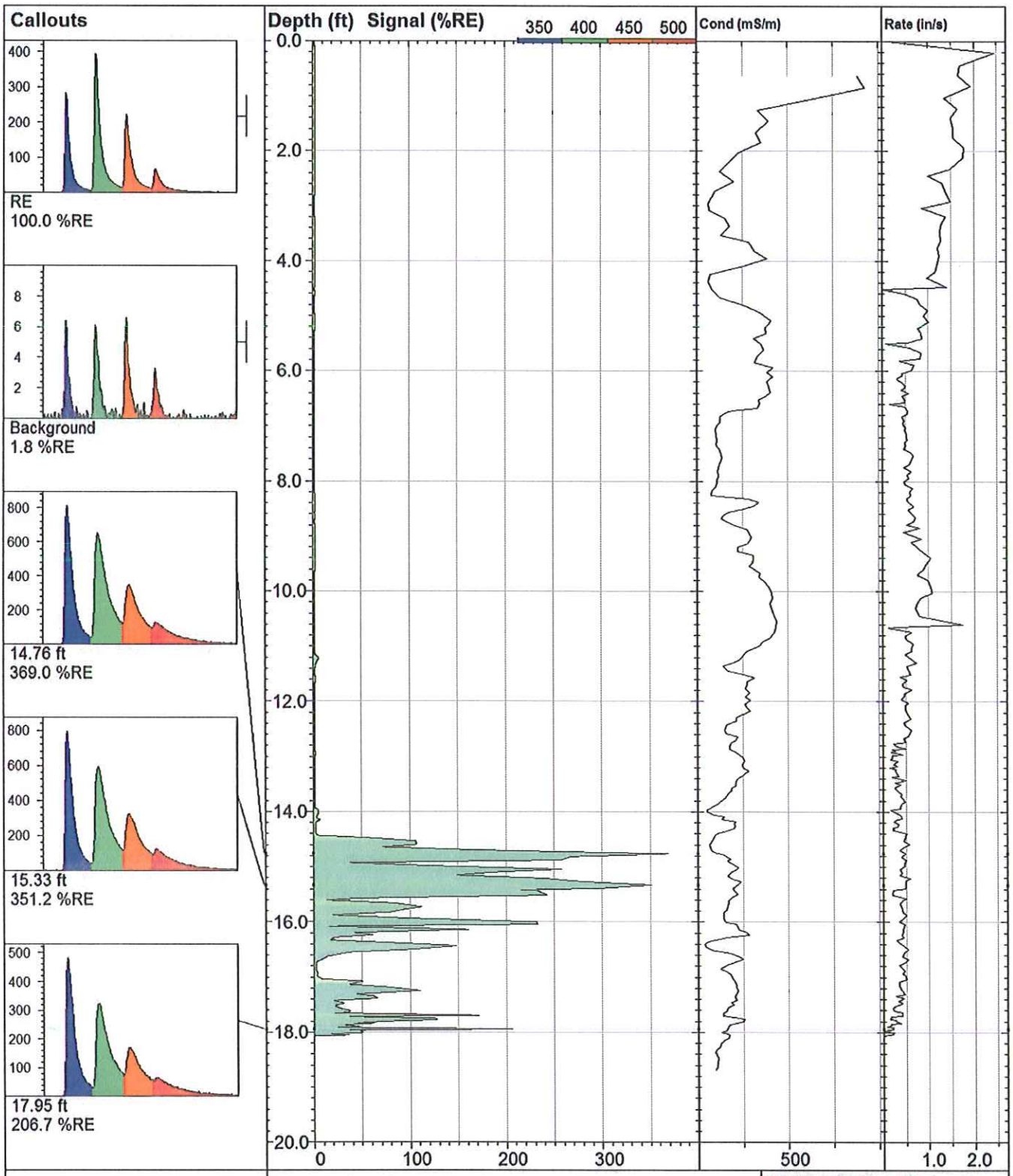
RG-W10		UVOST By Dakota www.DakotaTechnologies.com
Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.68 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.2 %RE @ 0.01 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 09:53 EDT**



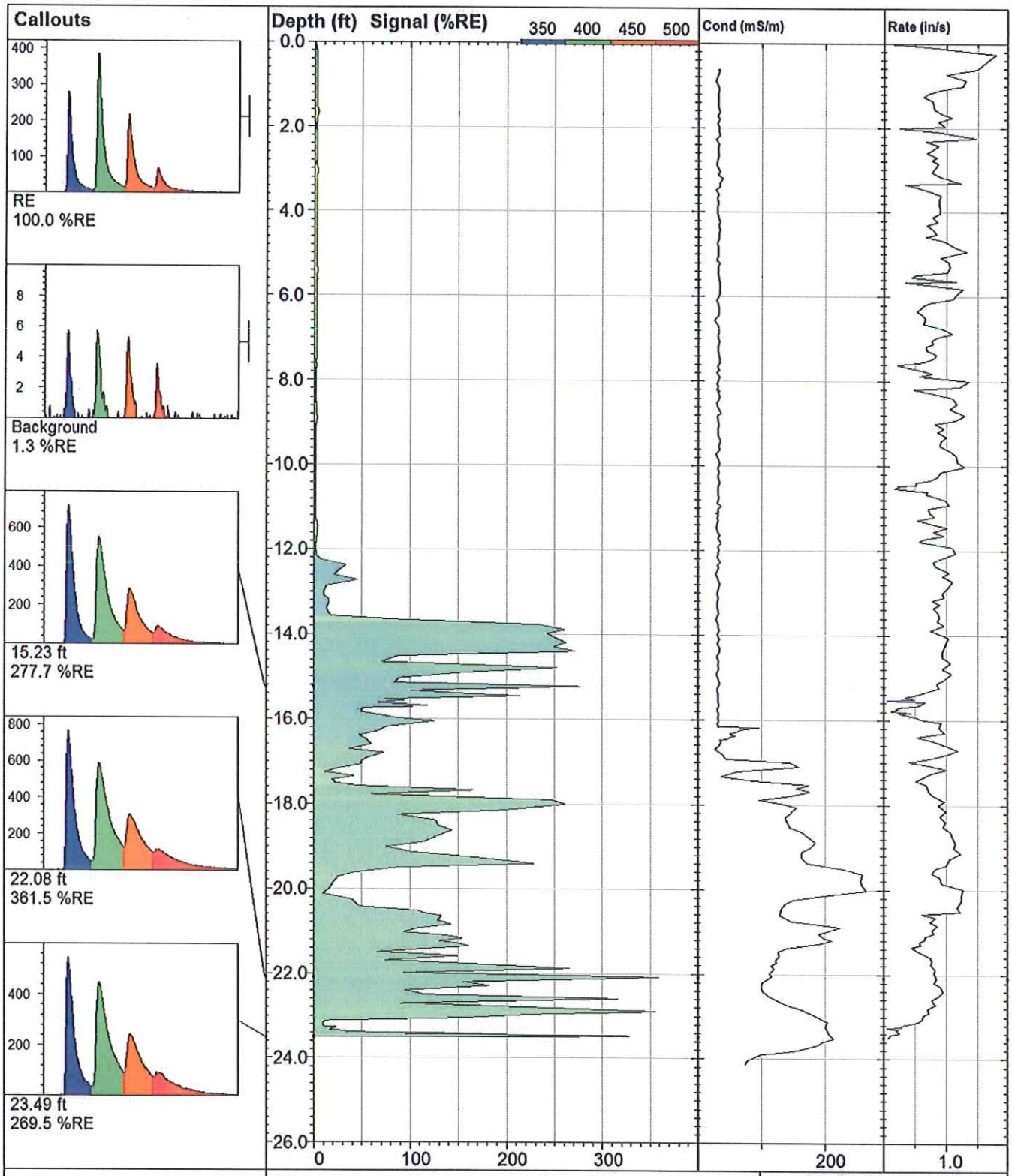
VIRONEX	**RG-W11**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.06 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.9 %RE @ 2.25 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-19 14:39 EDT**



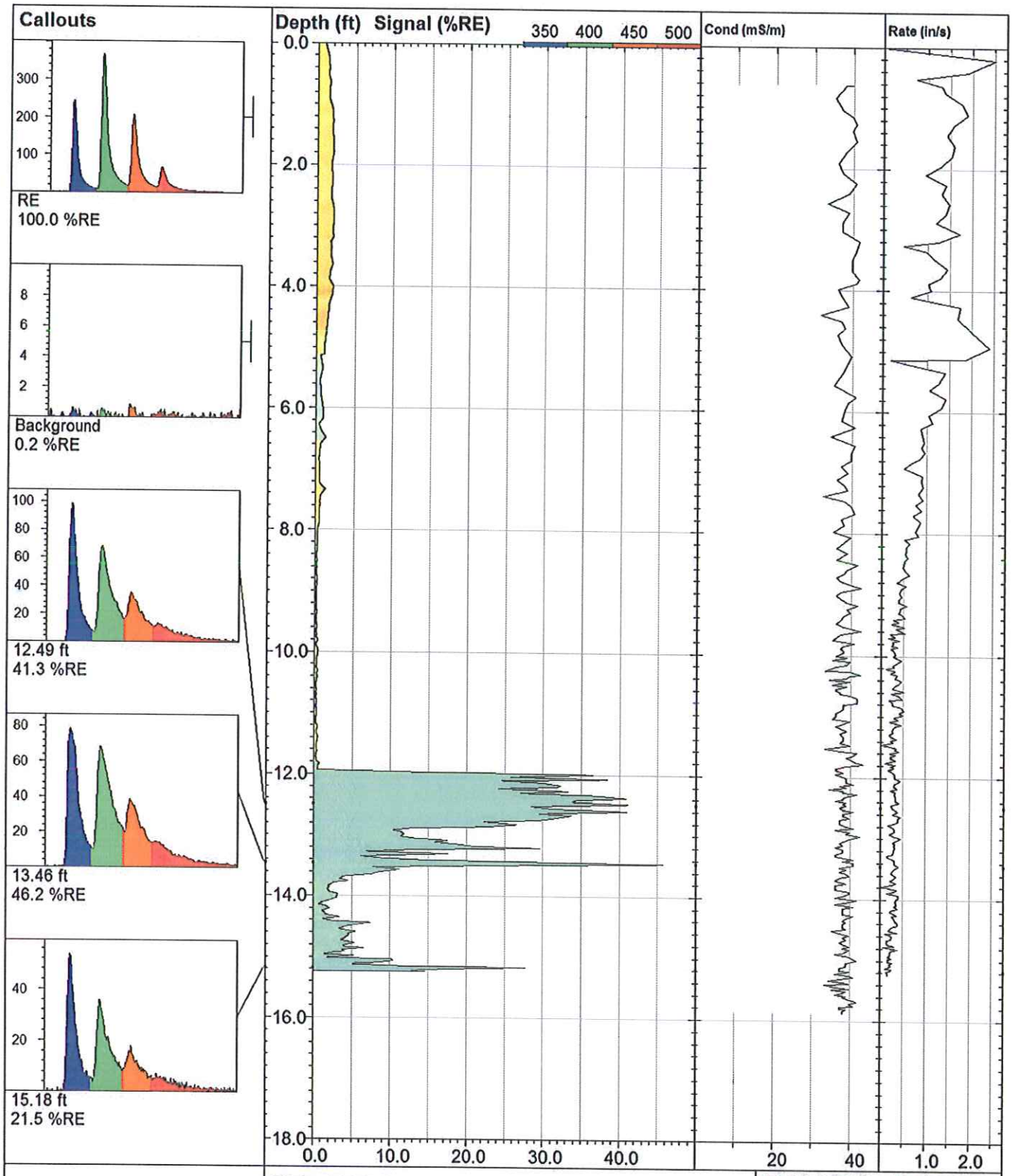
RG-W13		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.42 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.8 %RE @ 11.06 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 10:04 EDT**



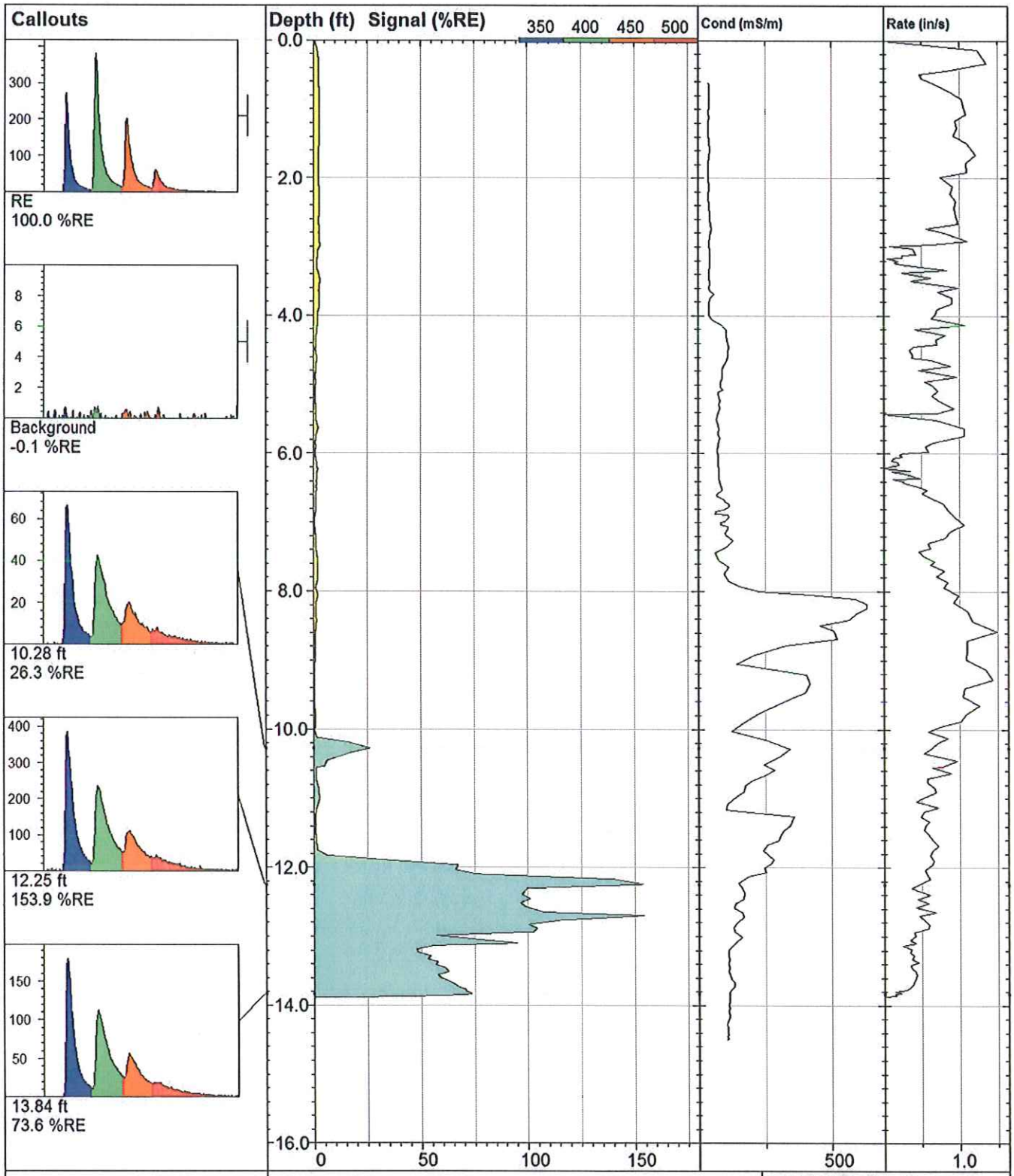
VIRONEX	**RG-W15**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.07 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **369.0 %RE @ 14.76 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 09:16 EDT**



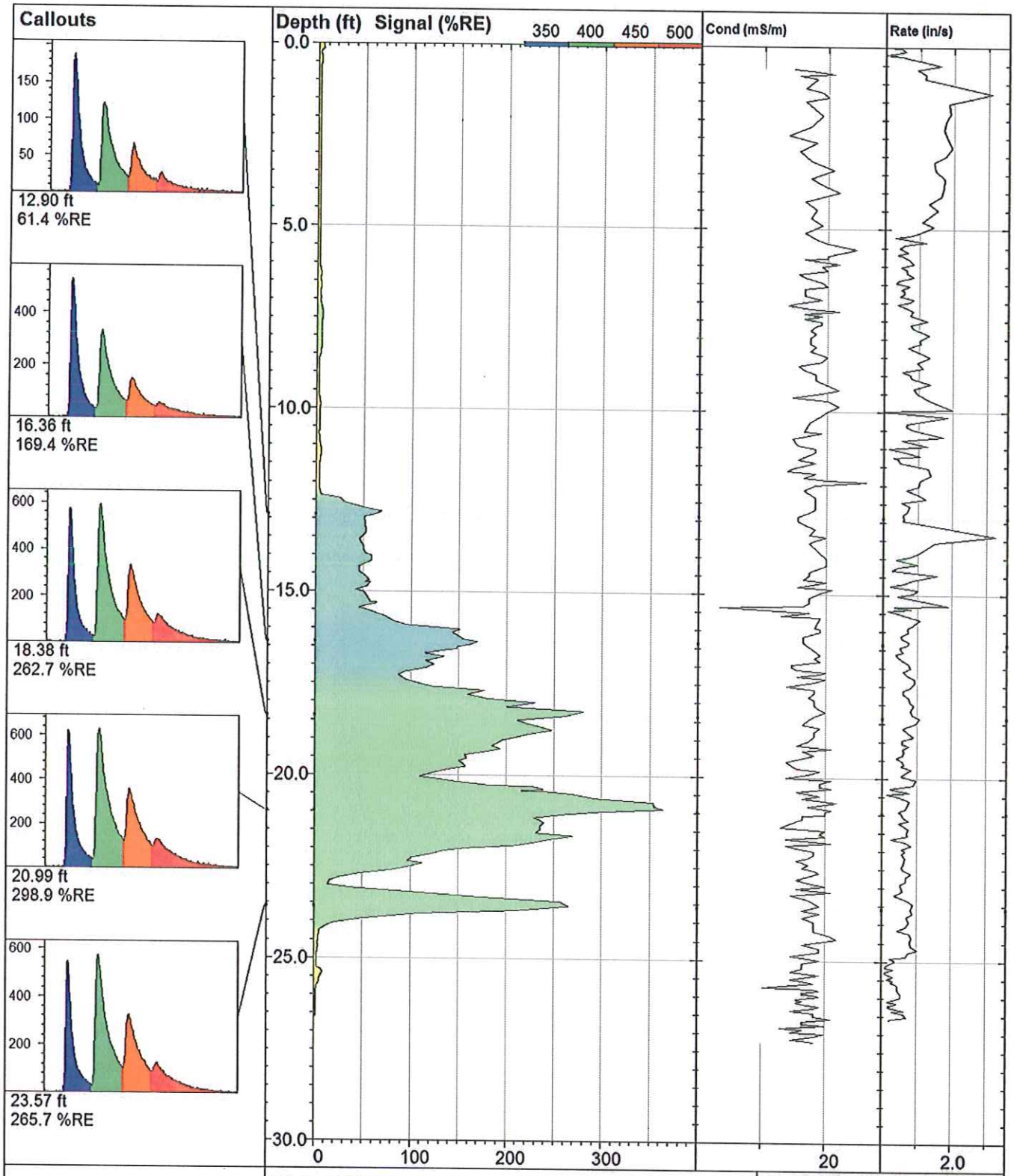
RG-W17R		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.50 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **361.5 %RE @ 22.08 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 08:17 EDT**



RG-W21		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.24 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **46.2 %RE @ 13.46 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 17:22 EDT**



RG-W23		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **13.88 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **154.5 %RE @ 12.70 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 13:08 EDT**

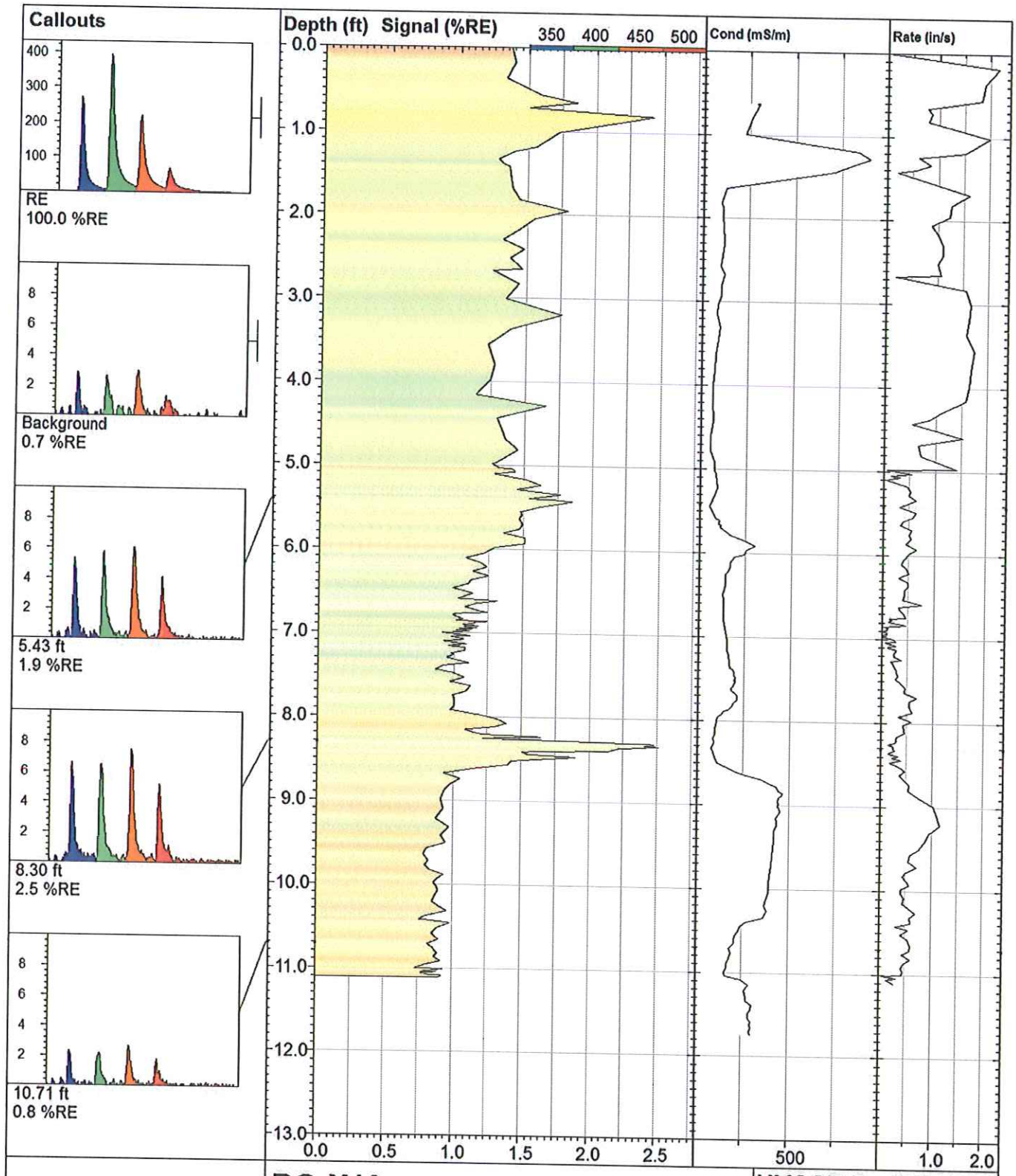


VIRONEX

RG-W32

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.59 ft**
Client / Job: **Stanley / RG-W32**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **364.2 %RE @ 20.91 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 09:54 MST**

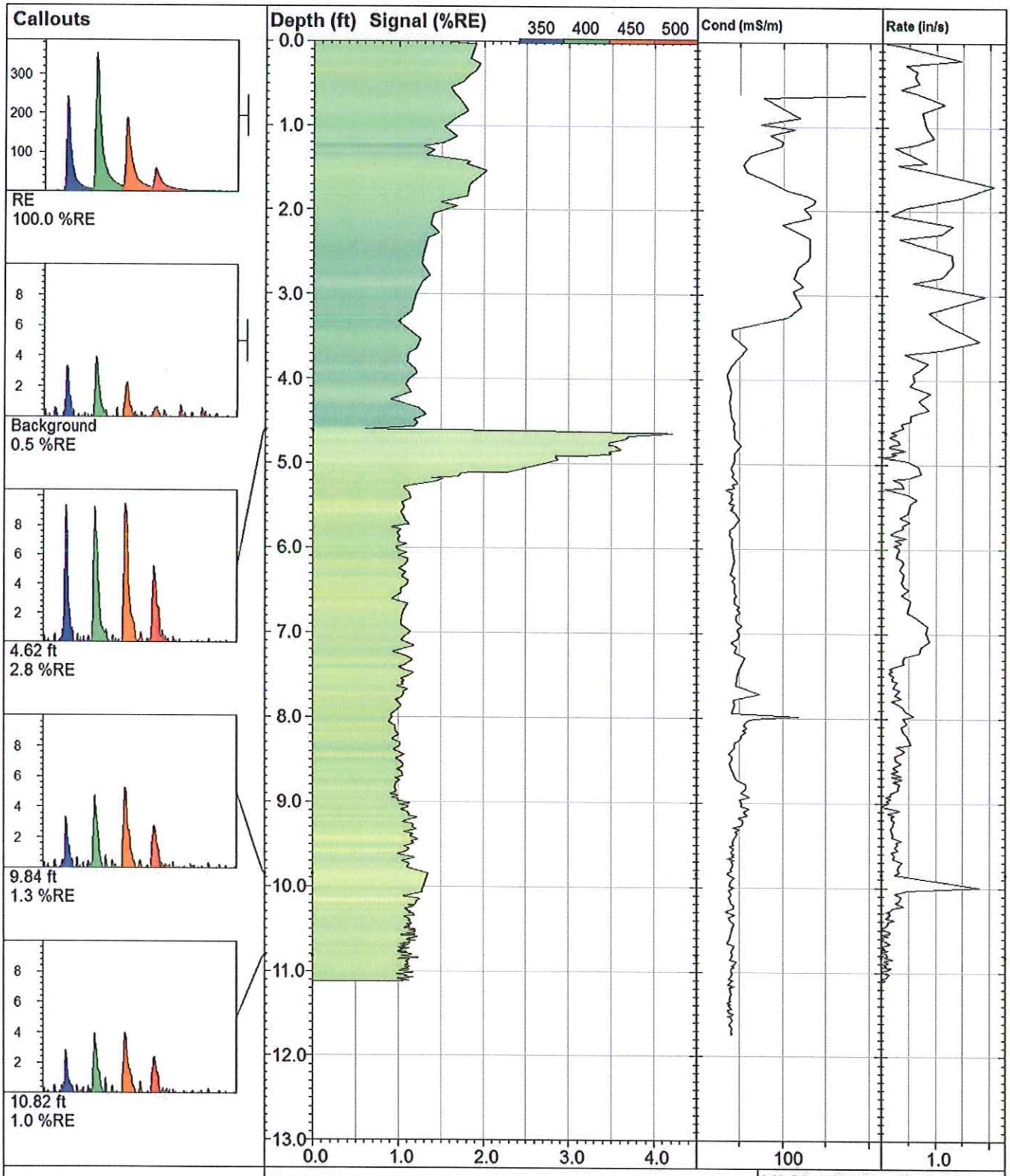


VIRONEX

RG-X10

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.11 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.5 %RE @ 8.33 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 10:42 EDT**

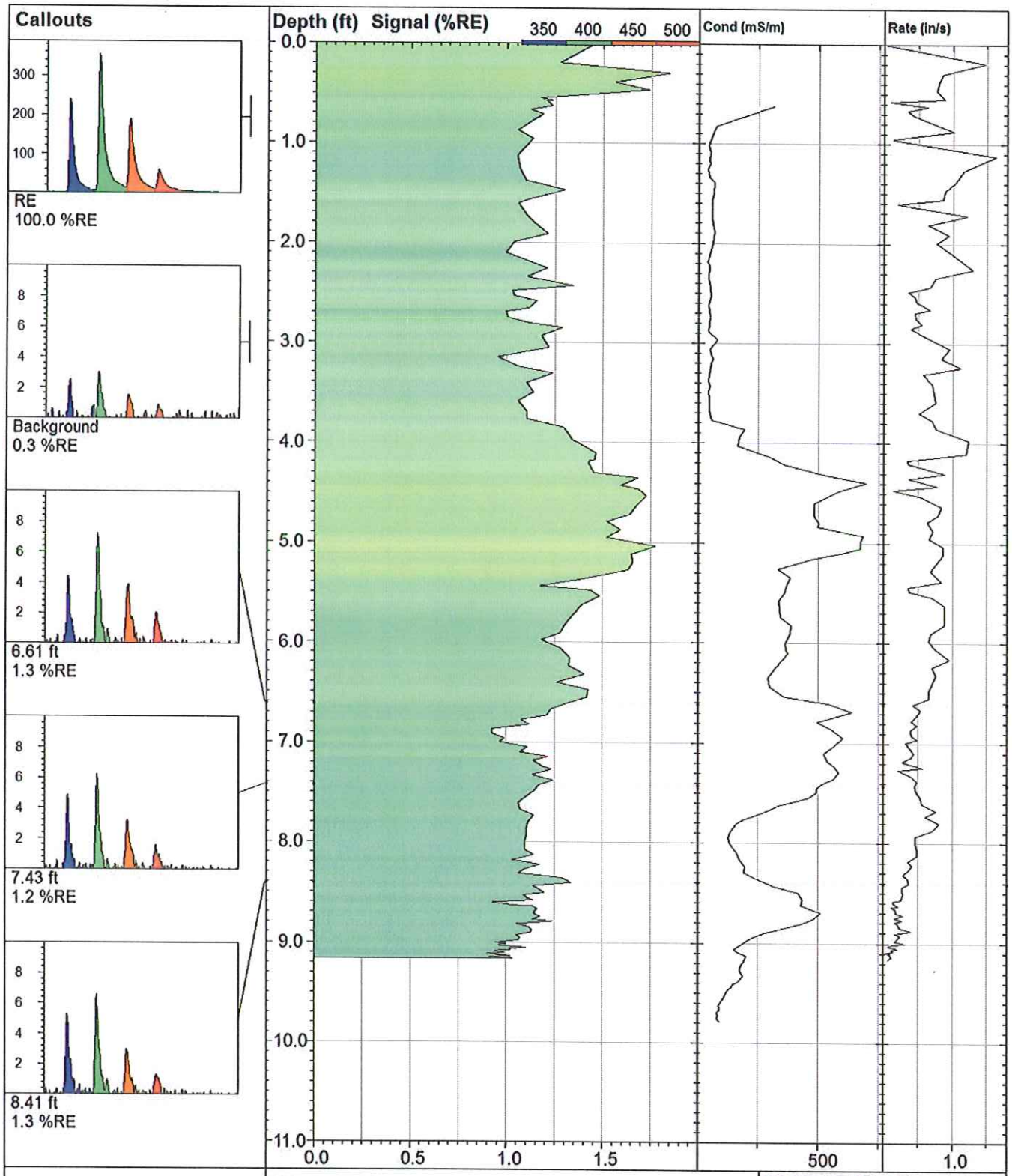


VIRONEX

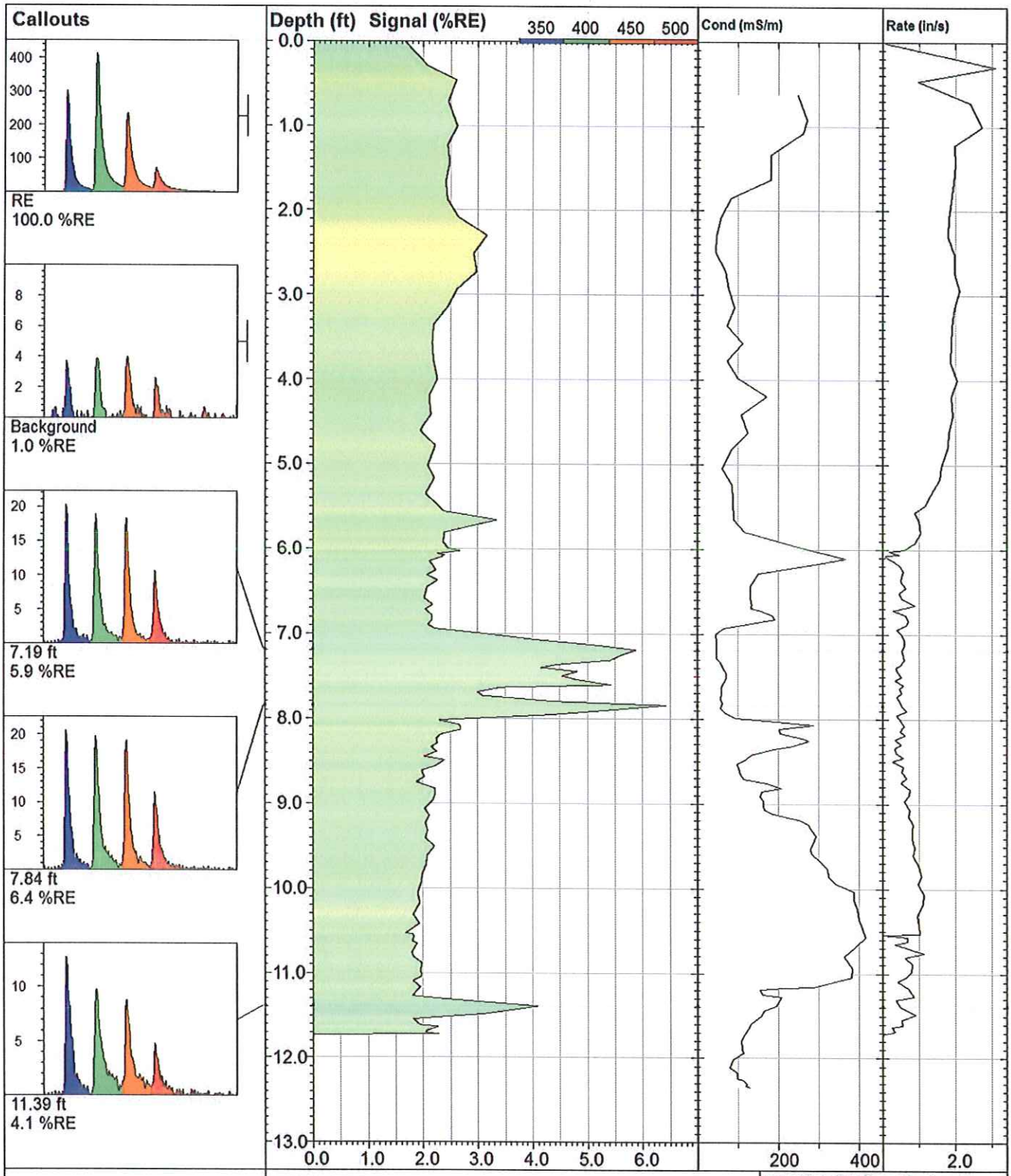
RG-X10R

UVOST By Dakota
www.DakotaTechnologies.com

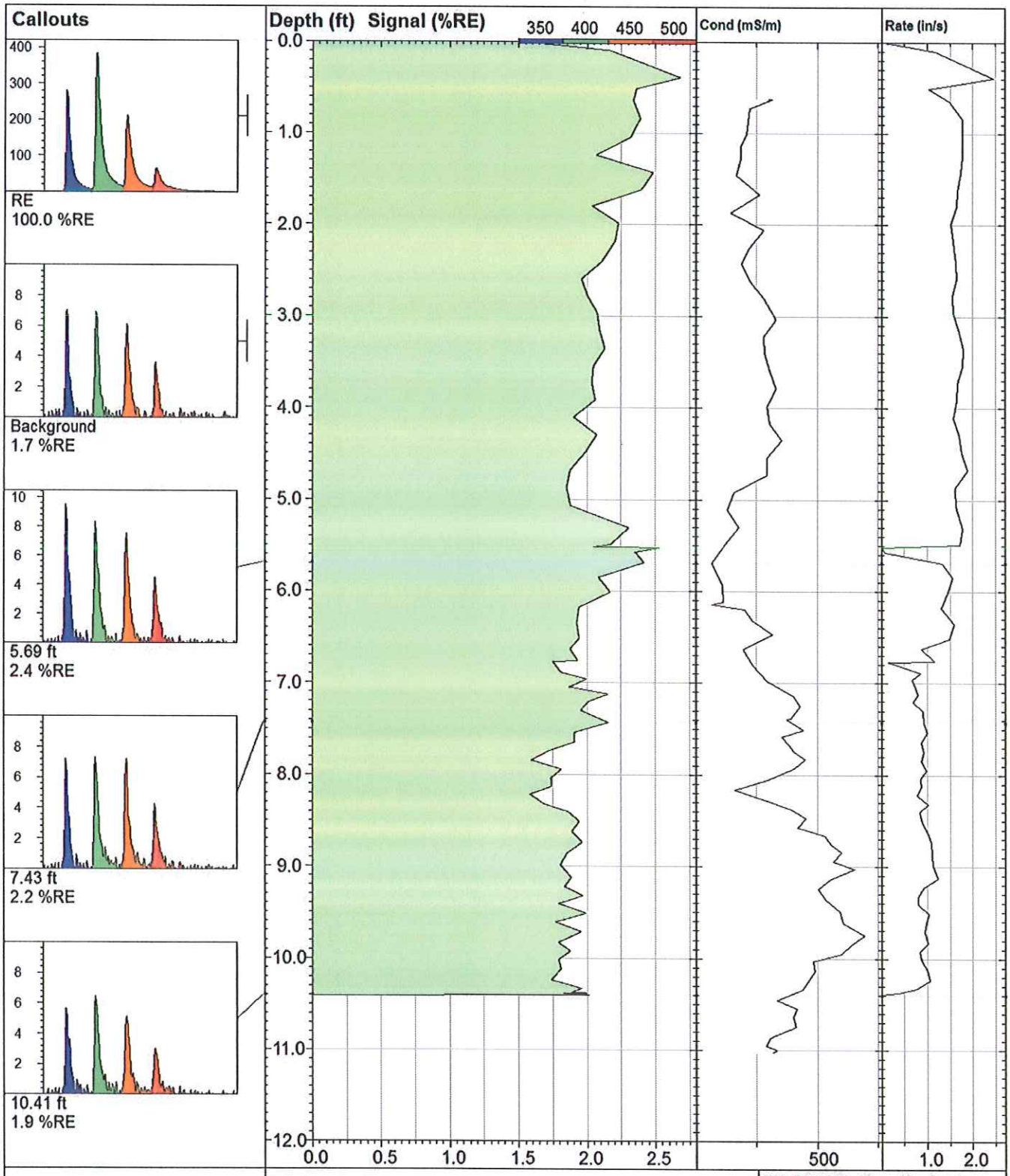
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.12 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **4.2 %RE @ 4.64 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-19 14:00 EDT**



RG-X12		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.16 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.8 %RE @ 0.30 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-19 13:39 EDT**



VIRONEX	**RG-X14**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.72 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.4 %RE @ 7.84 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 09:44 EDT**

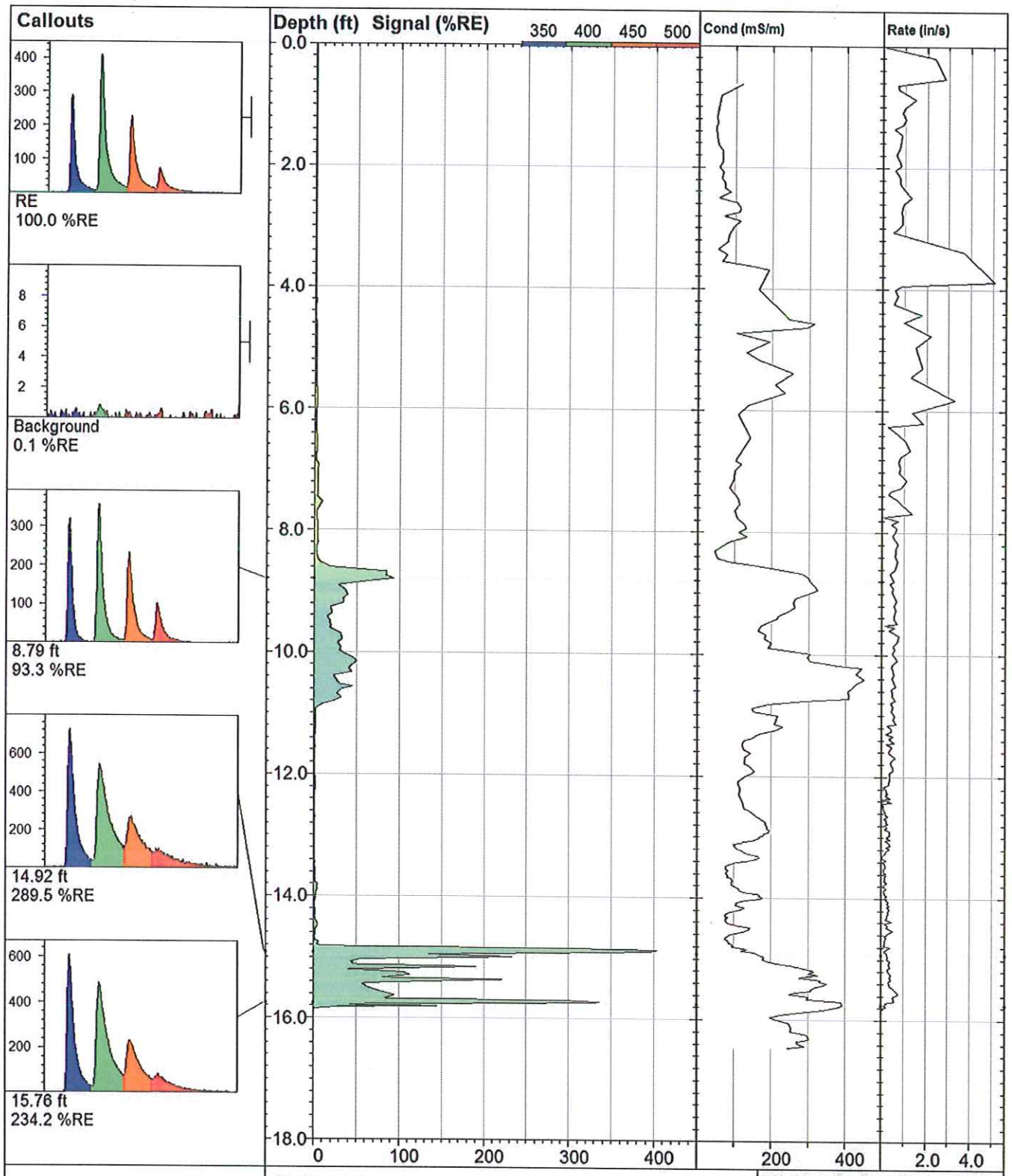


VIRONEX

RG-X16

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **10.41 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.7 %RE @ 0.39 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-29 08:46 EDT**

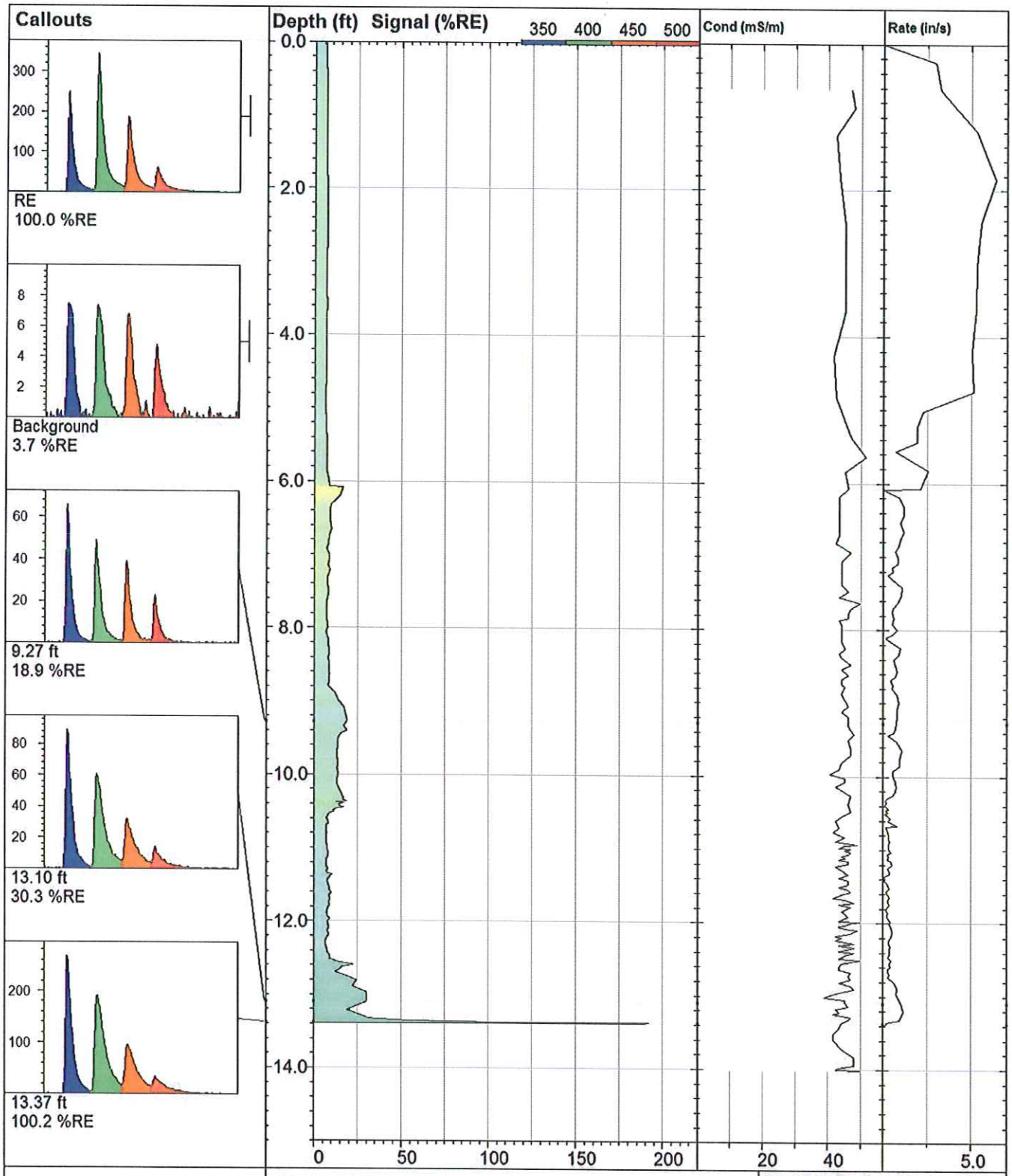


VIRONEX

RG-X18

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.84 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **404.5 %RE @ 14.87 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-08 12:17 EDT**

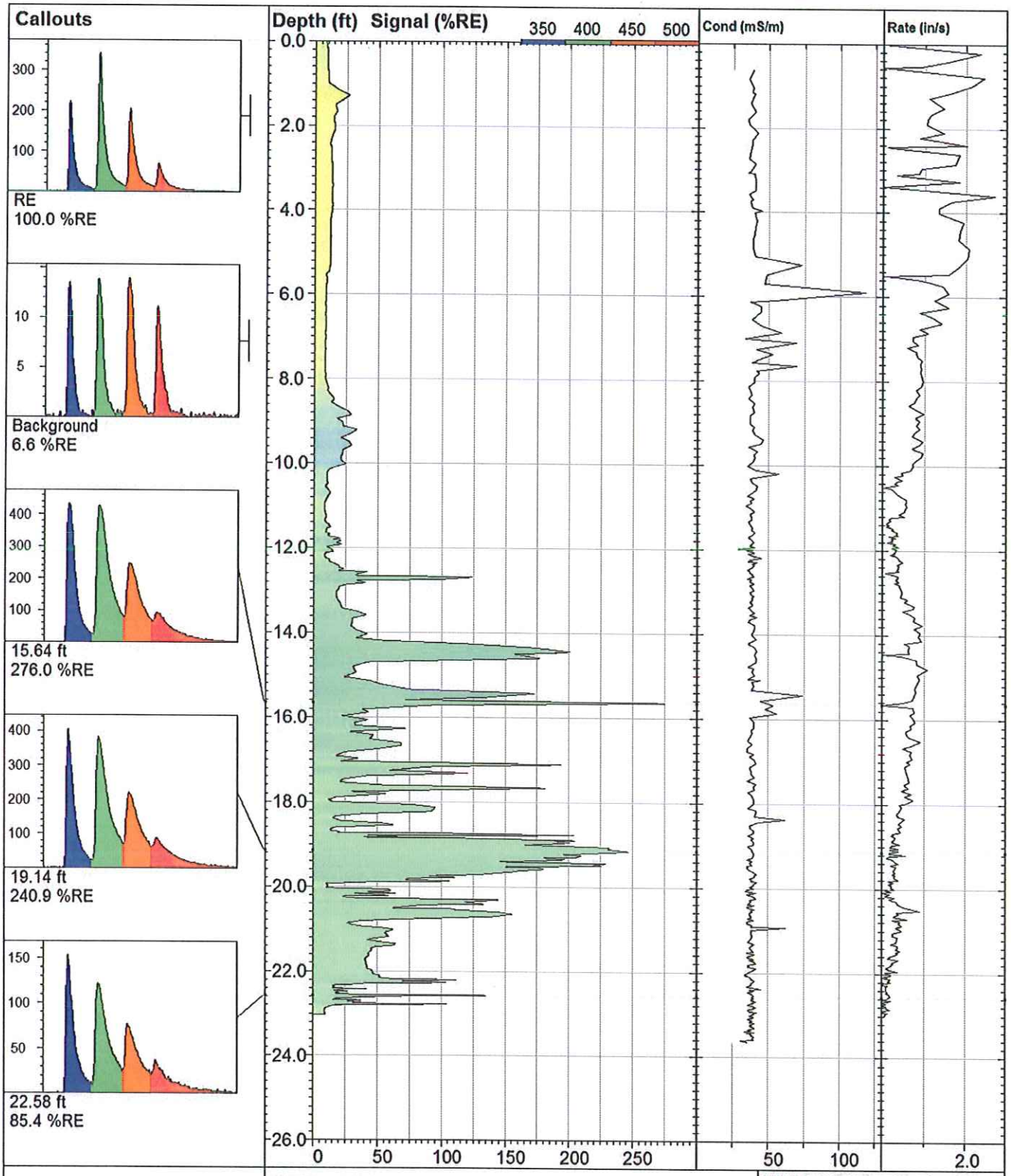


VIRONEX

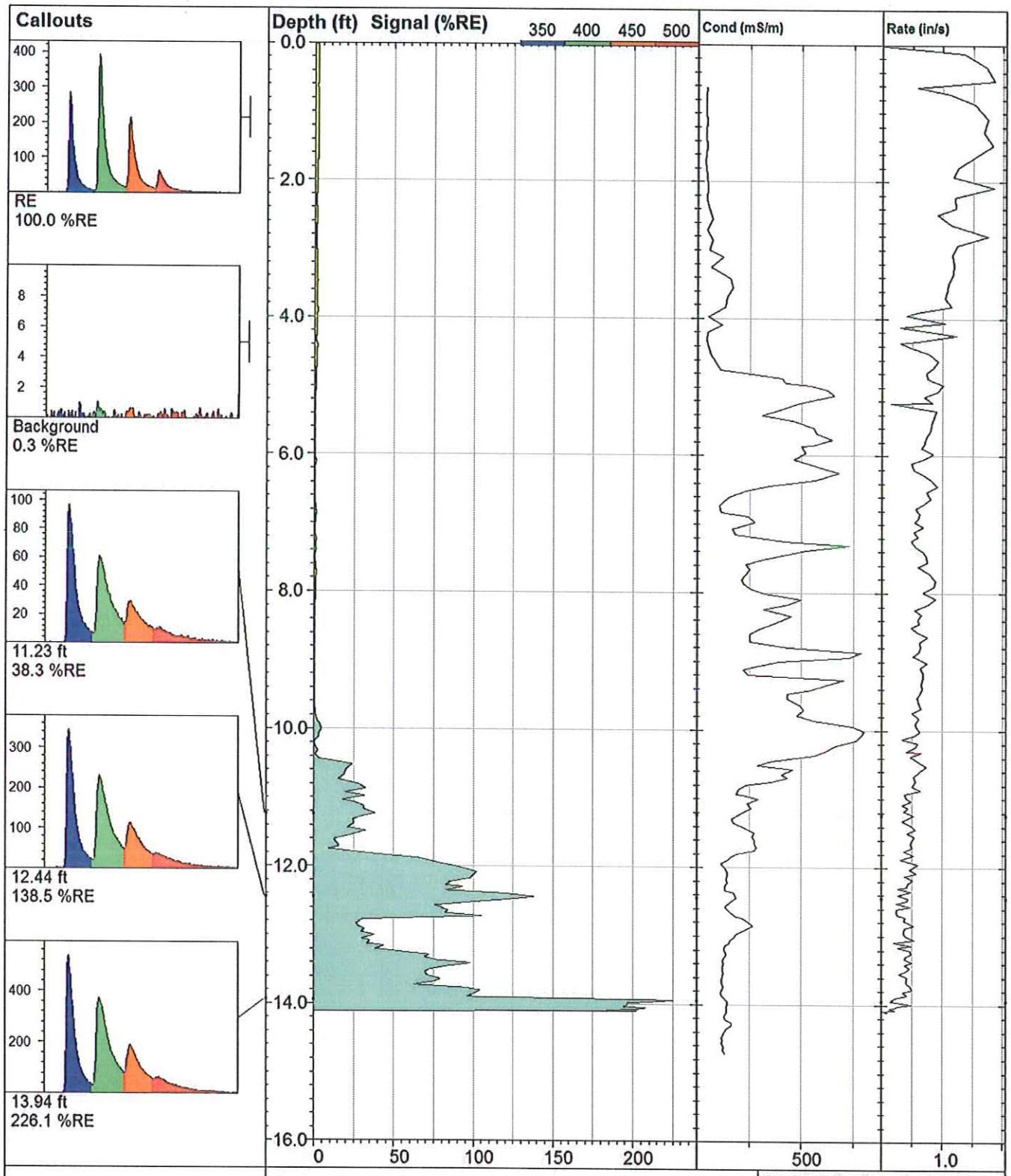
RG-X20

UVOST By Dakota
www.DakotaTechnologies.com

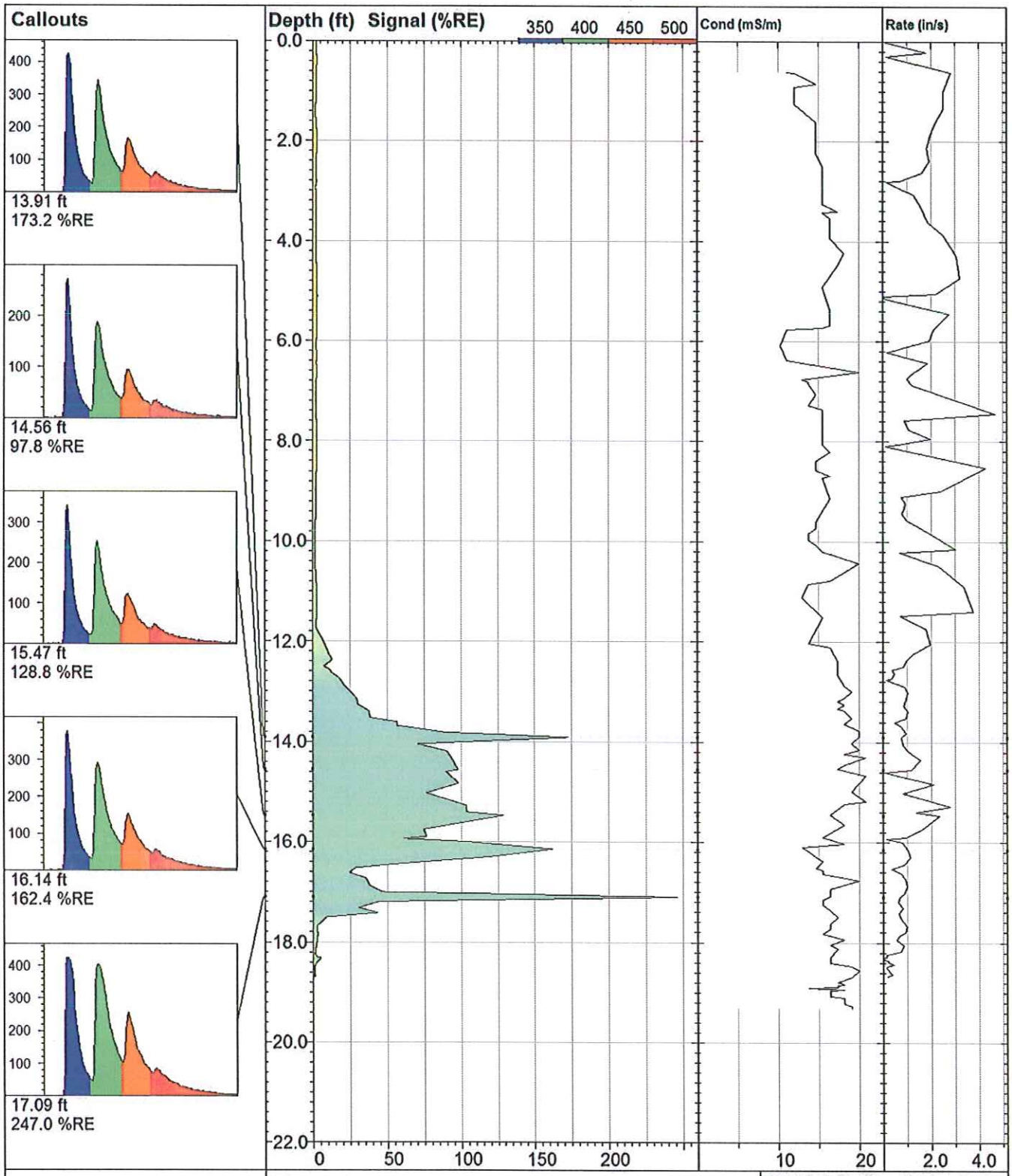
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **13.39 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **192.3 %RE @ 13.38 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 15:19 EDT**



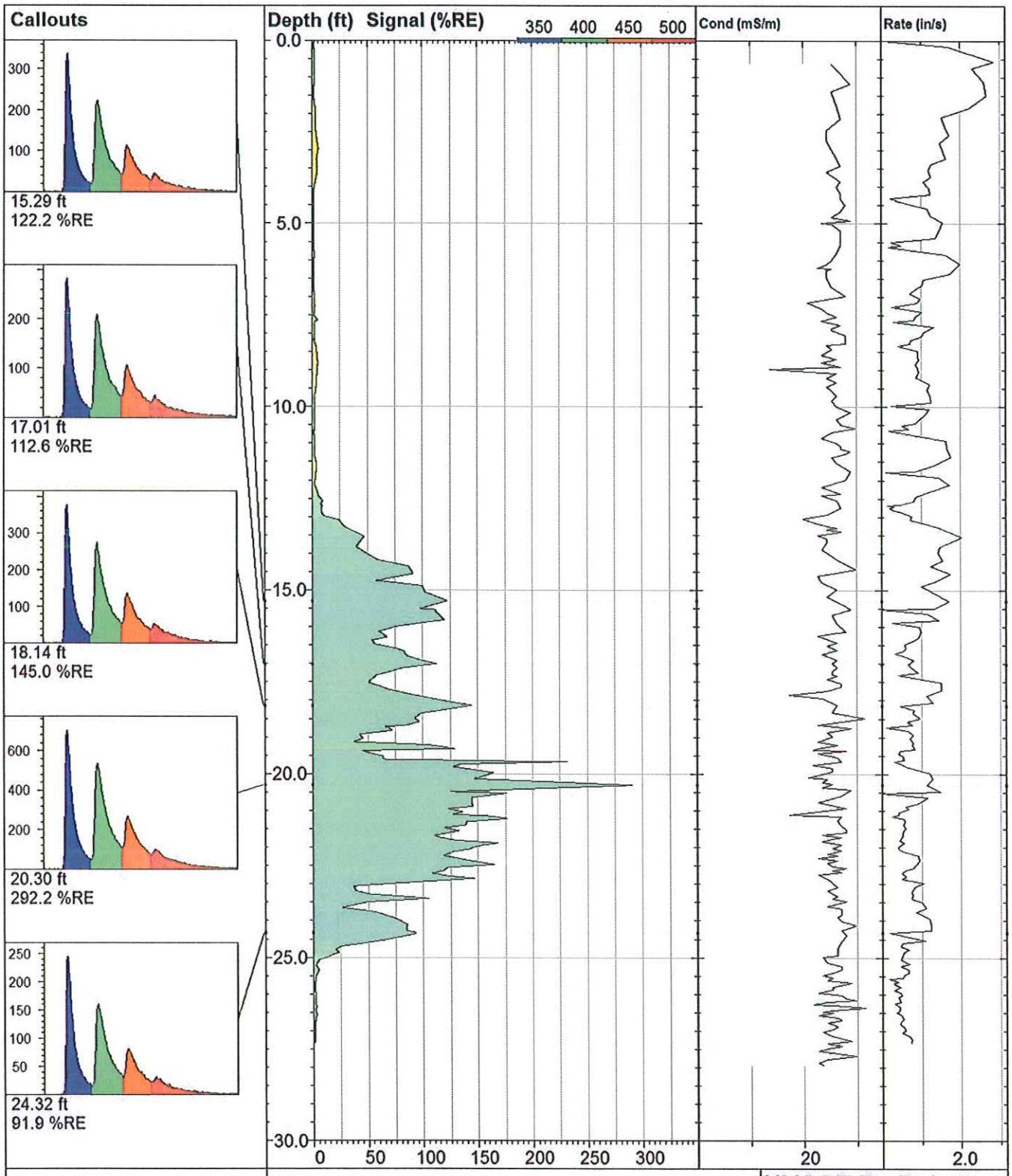
VIRONEX	**RG-X20 R**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.03 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **276.0 %RE @ 15.64 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 16:29 EDT**



RG-X24		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.11 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **226.1 %RE @ 13.94 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 13:31 EDT**



RG-X26		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.68 ft**
Client / Job: **Stanley / RG-X26**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **247.0 %RE @ 17.09 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 13:40 MST**

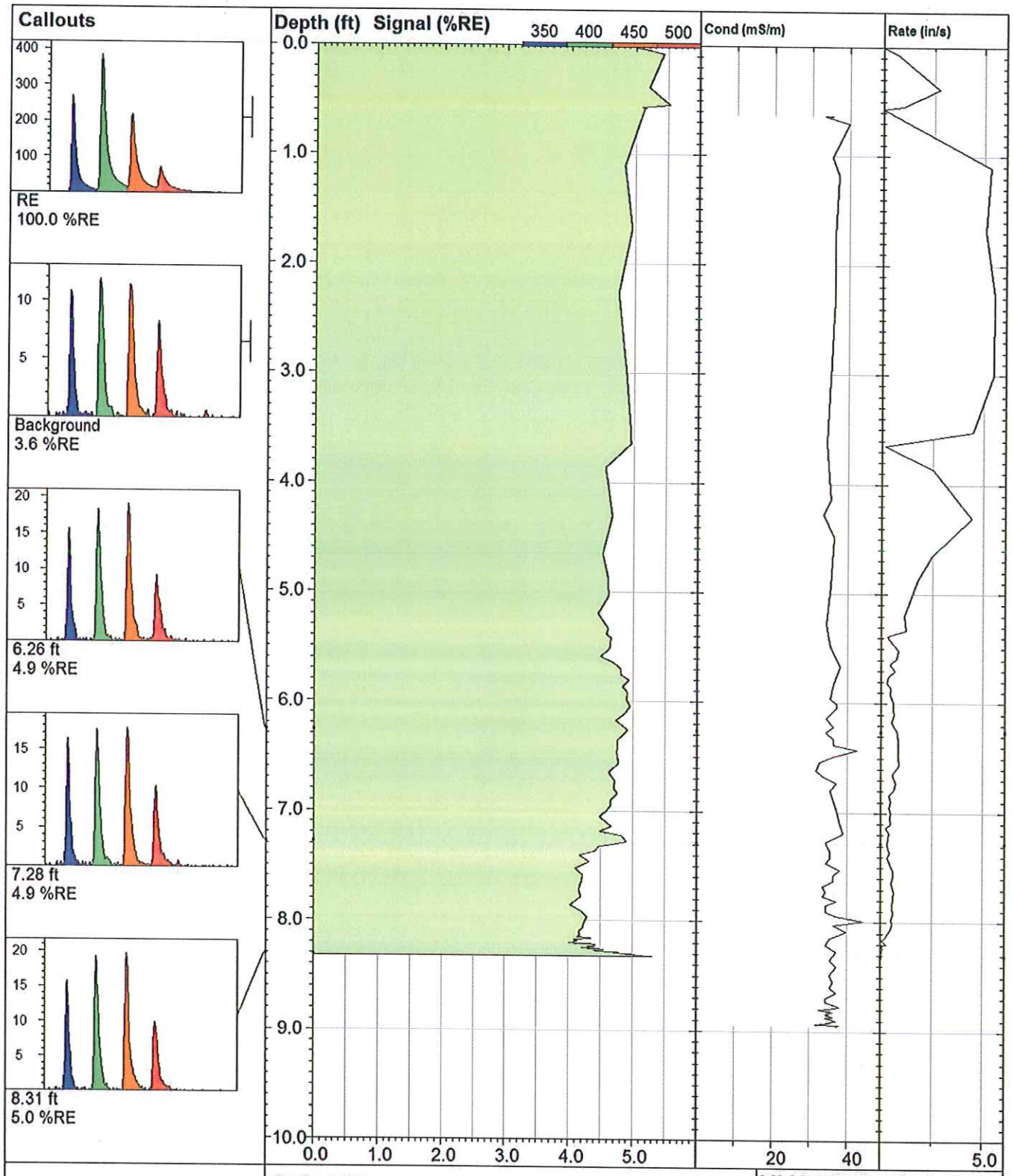


VIRONEX

RG-X28

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **27.33 ft**
Client / Job: **Stanley / RG-X28**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **292.2 %RE @ 20.30 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 14:36 MST**

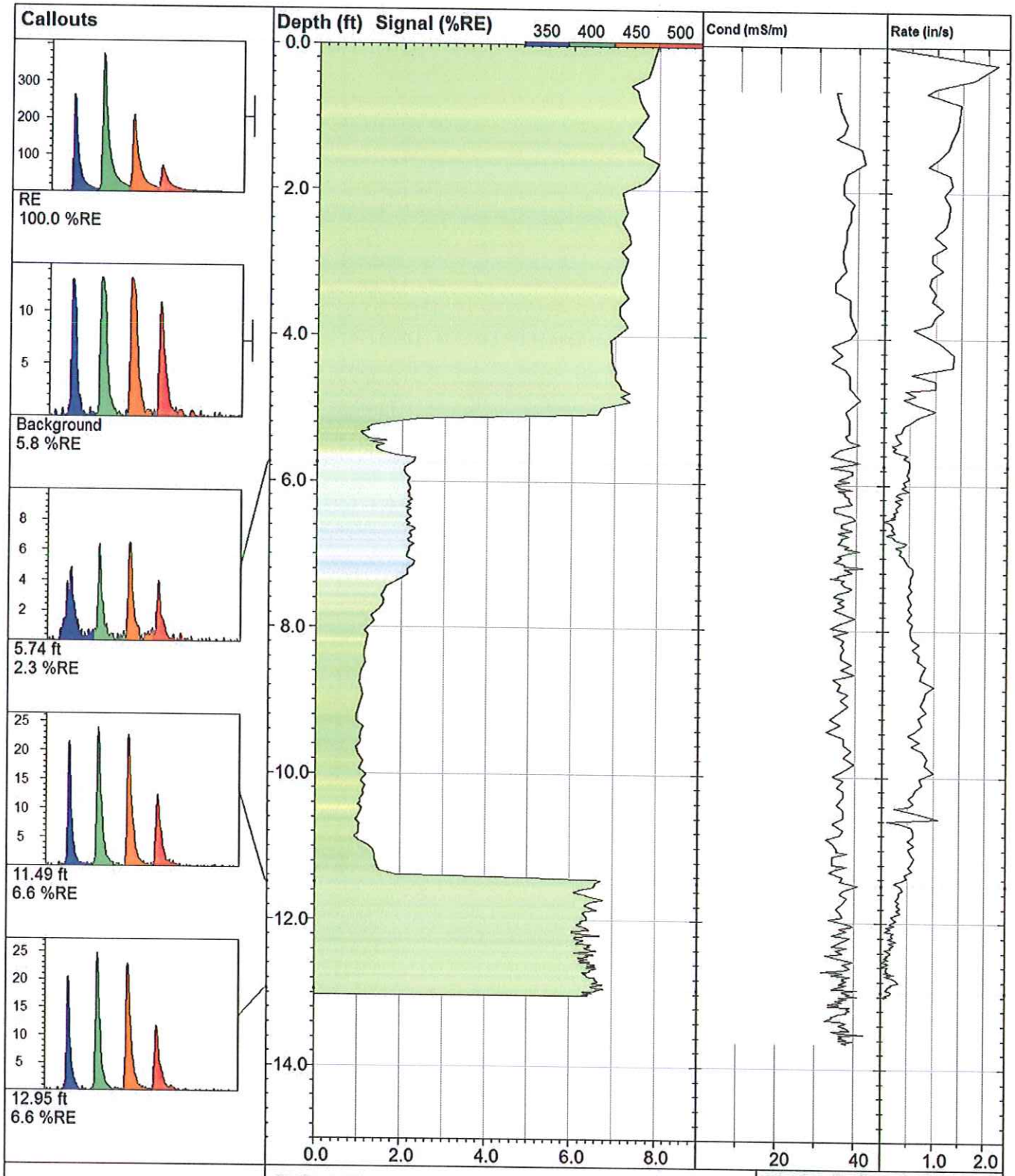


VIRONEX

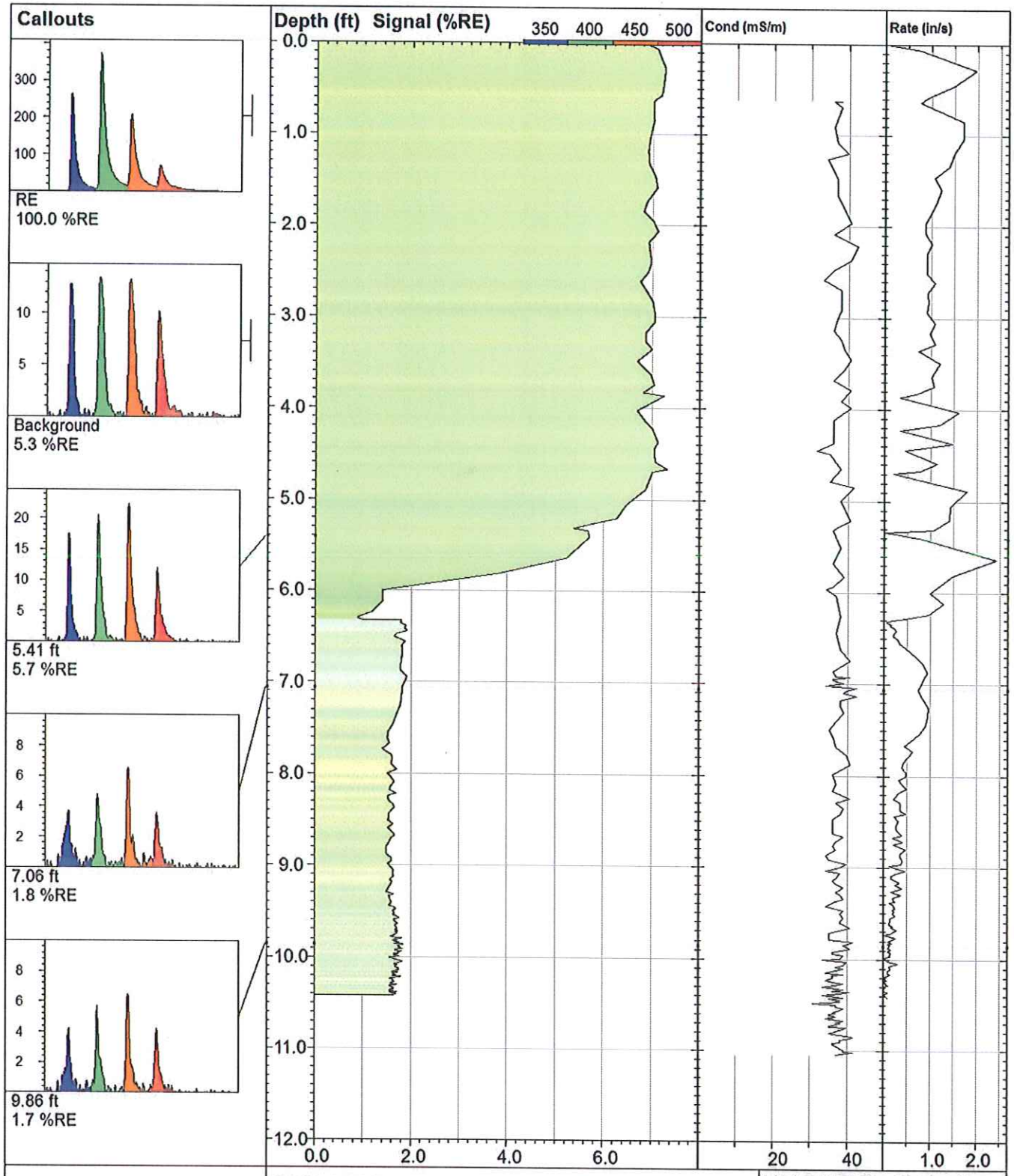
RG-Y8

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.32 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.5 %RE @ 0.55 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 07:19 EDT**



RG-Y9		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **13.02 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.0 %RE @ 1.63 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 08:05 EDT**

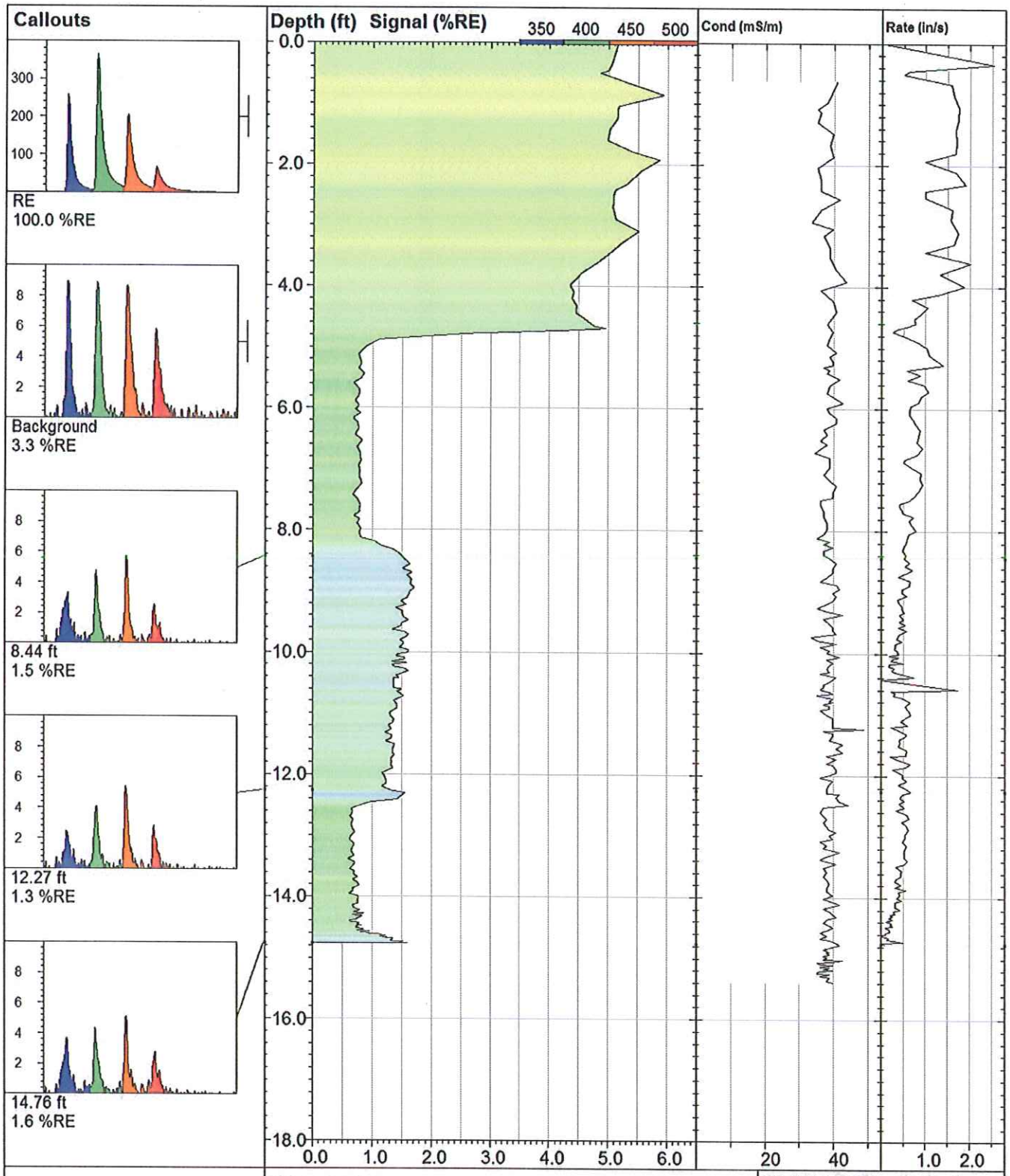


VIRONEX

RG-Y11

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **10.42 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.3 %RE @ 4.66 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 08:41 EDT**

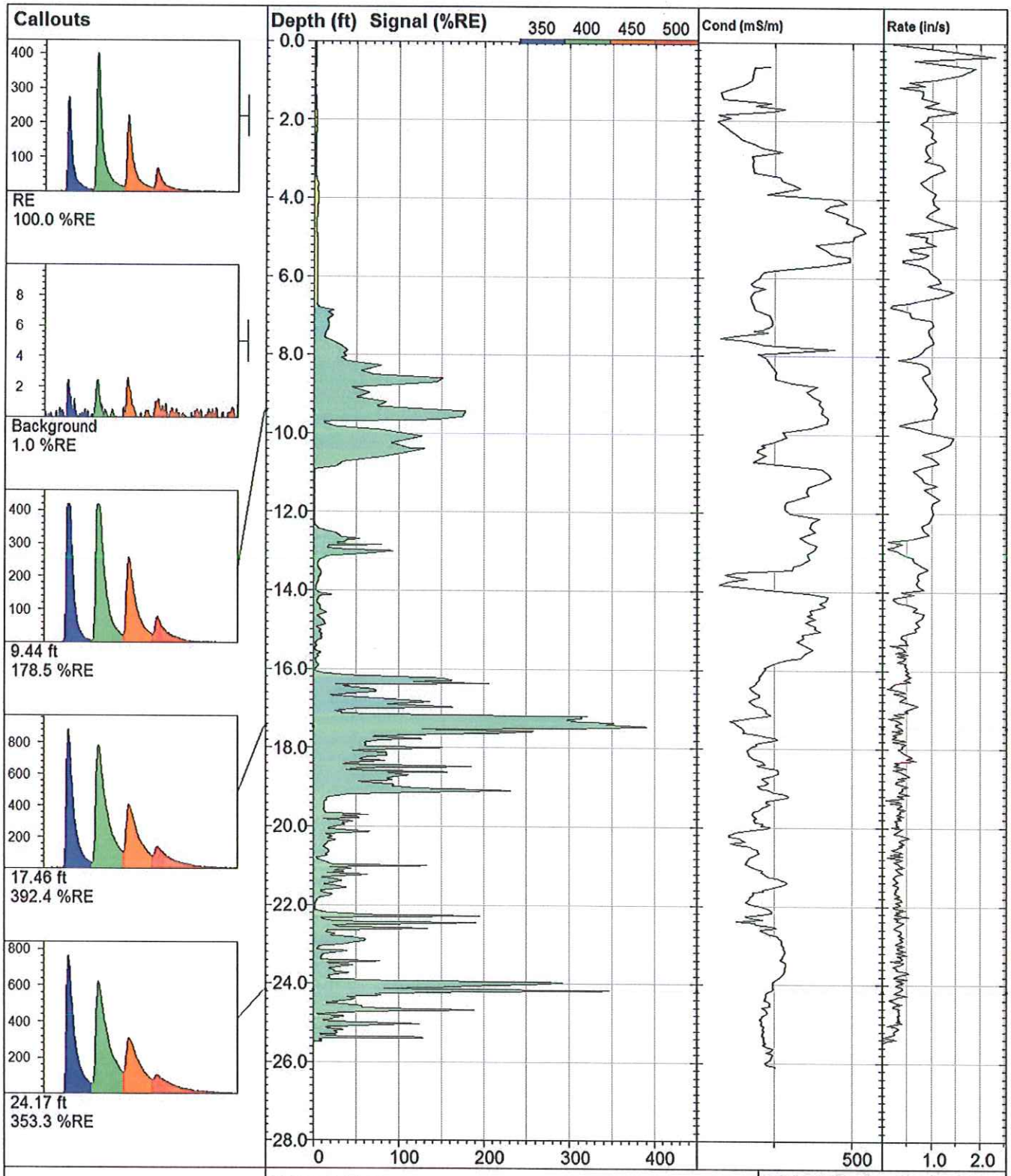


VIRONEX

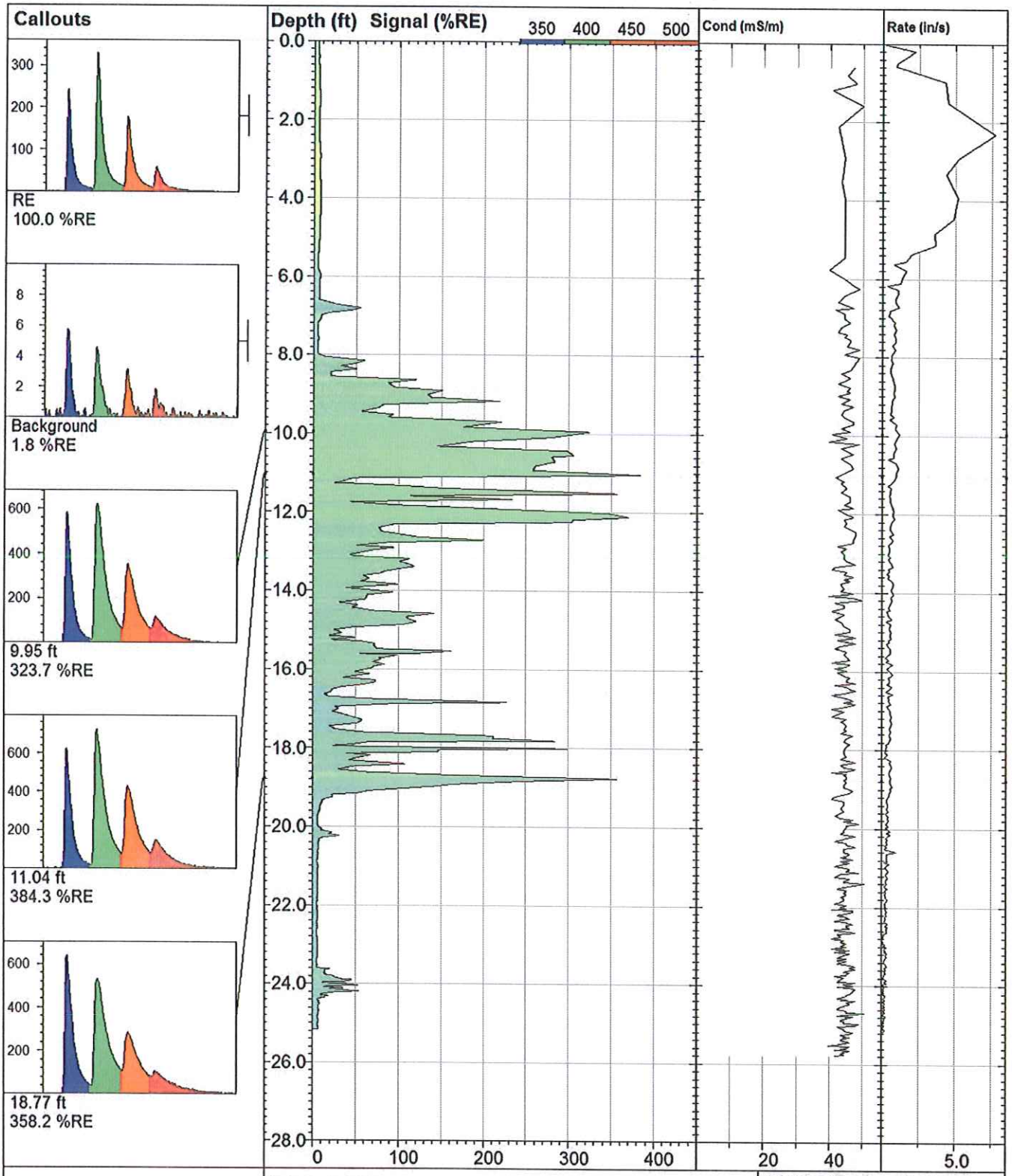
RG-Y13

UVOST By Dakota
www.DakotaTechnologies.com

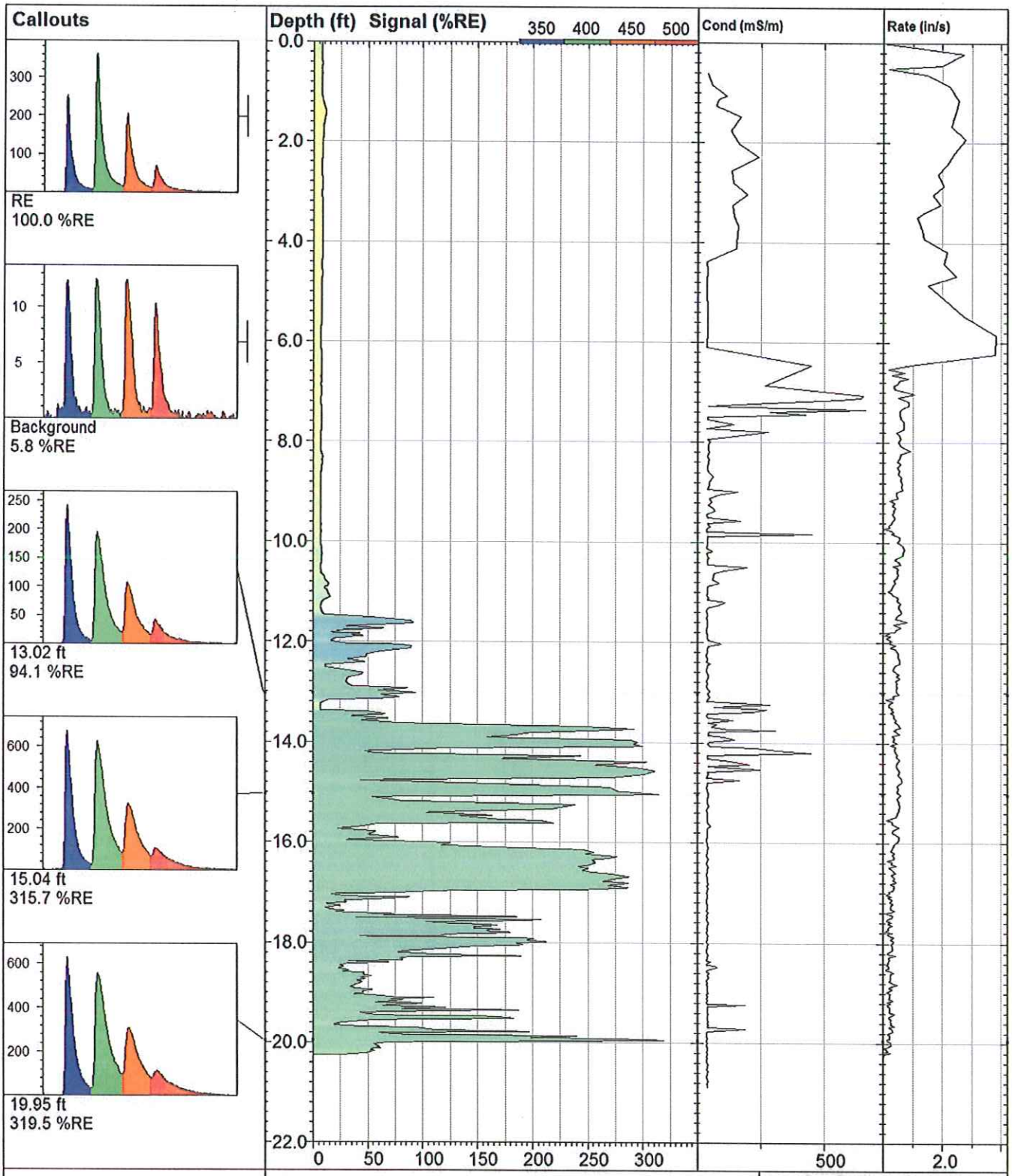
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.76 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.9 %RE @ 0.86 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 09:20 EDT**



RG-Y17		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.48 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **392.4 %RE @ 17.46 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 11:29 EDT**



RG-Y19		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.16 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **384.3 %RE @ 11.04 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 14:17 EDT**

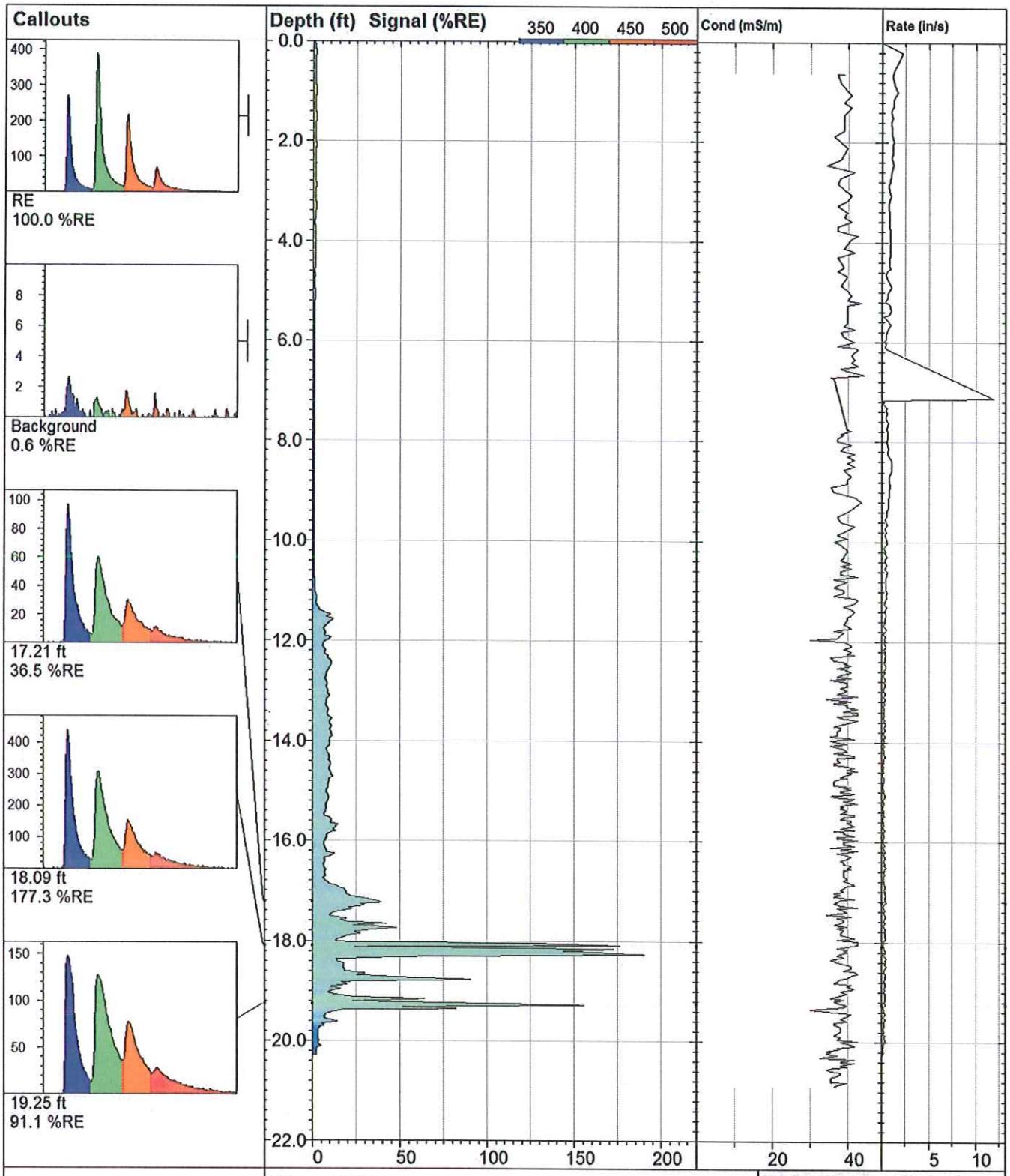


VIRONEX

RG-Y21

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.25 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **319.5 %RE @ 19.95 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 13:45 EDT**

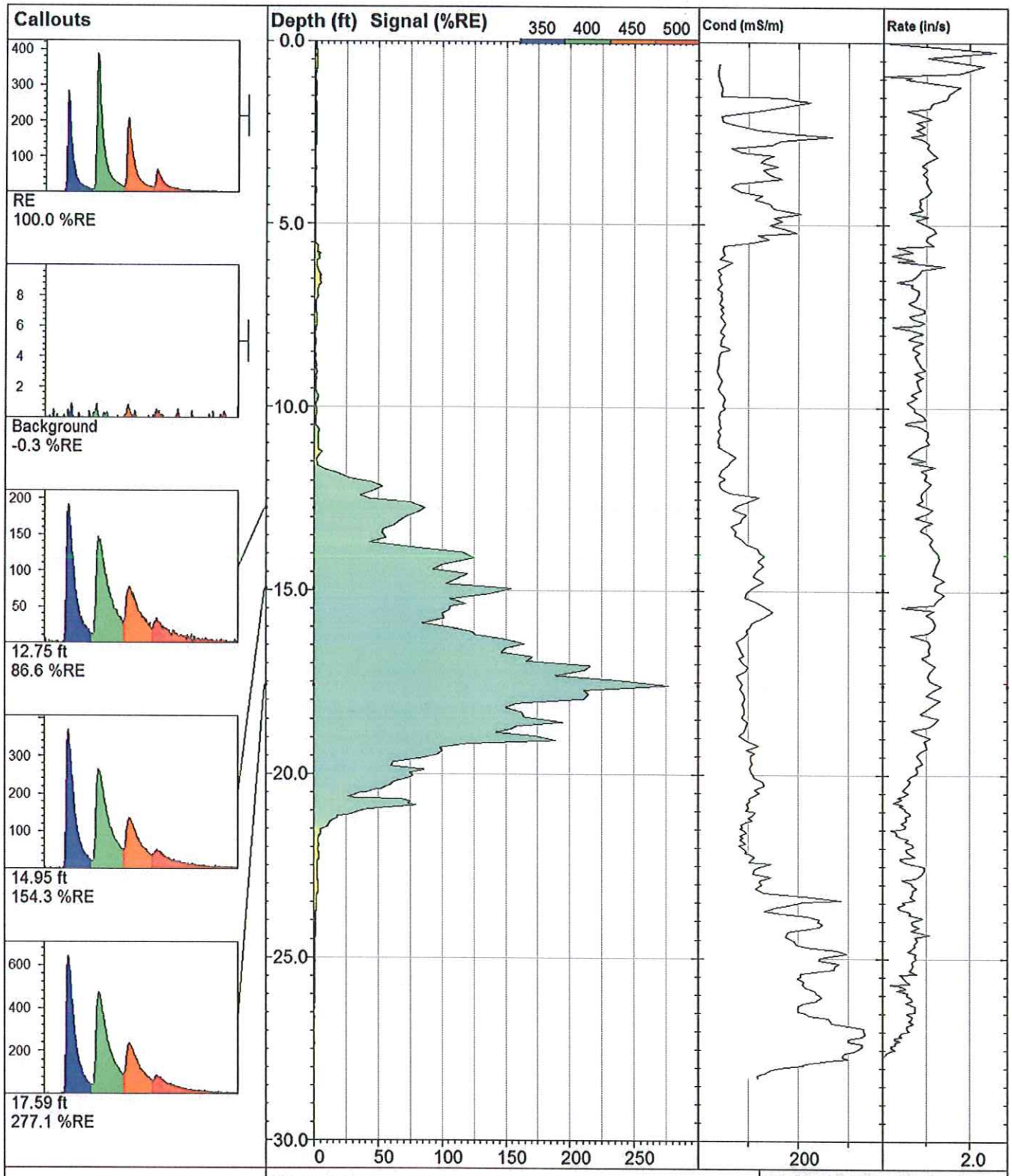


VIRONEX

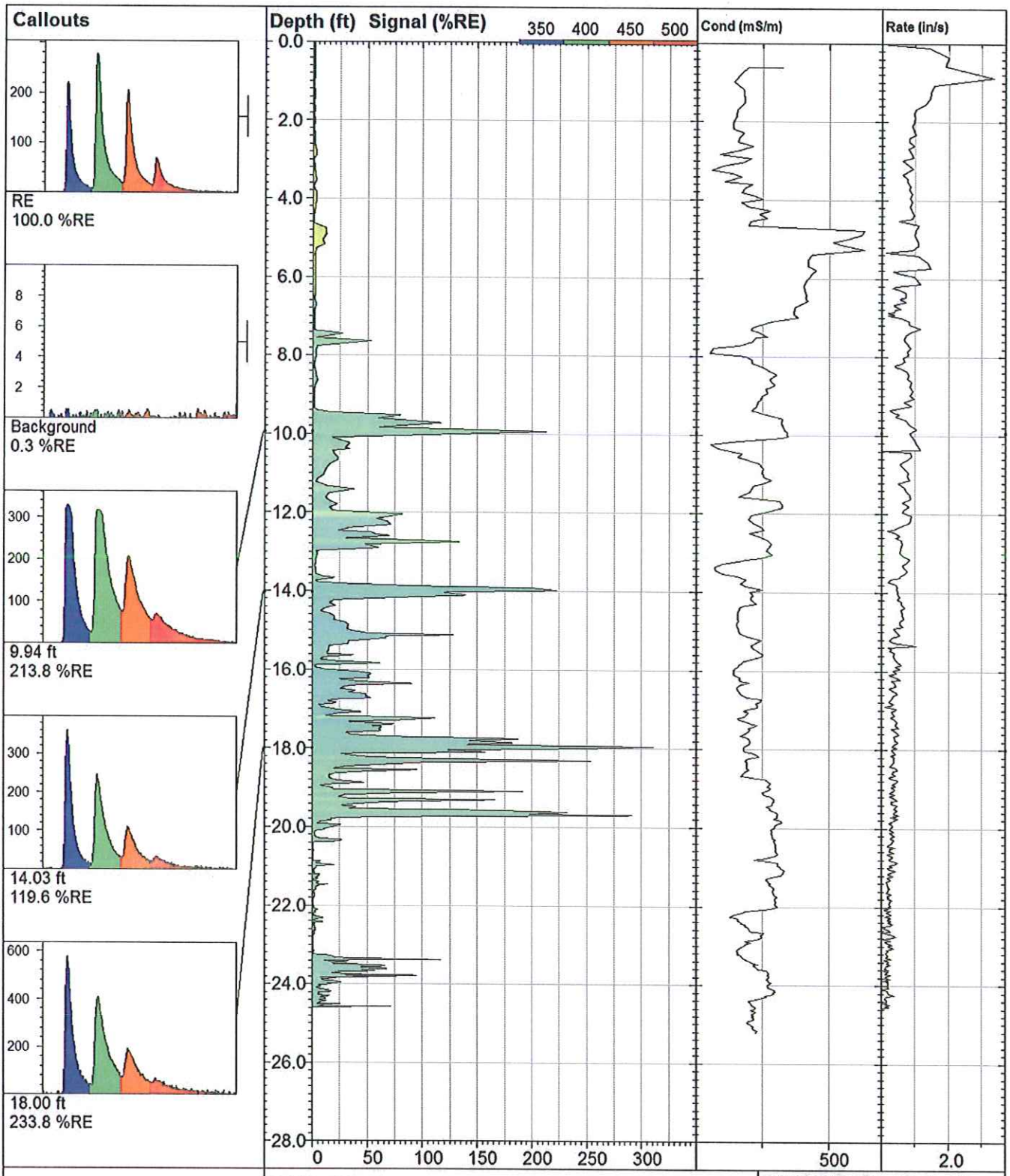
RG-Y23

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.28 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **191.8 %RE @ 18.27 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 12:01 EDT**



VIRONEX	**RG-Y28**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **27.67 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **277.1 %RE @ 17.59 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 13:55 EDT**

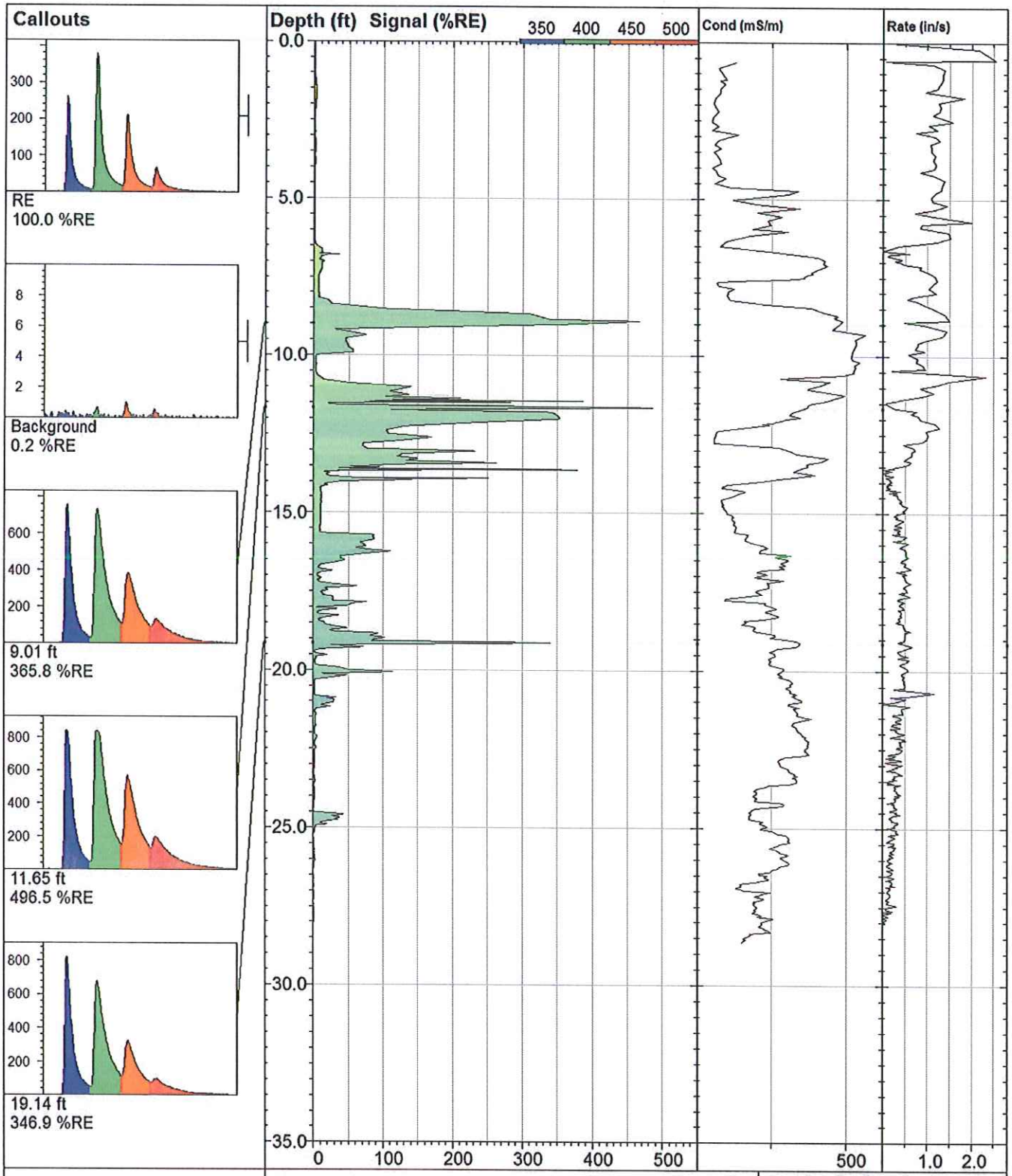


VIRONEX

RG-Z17

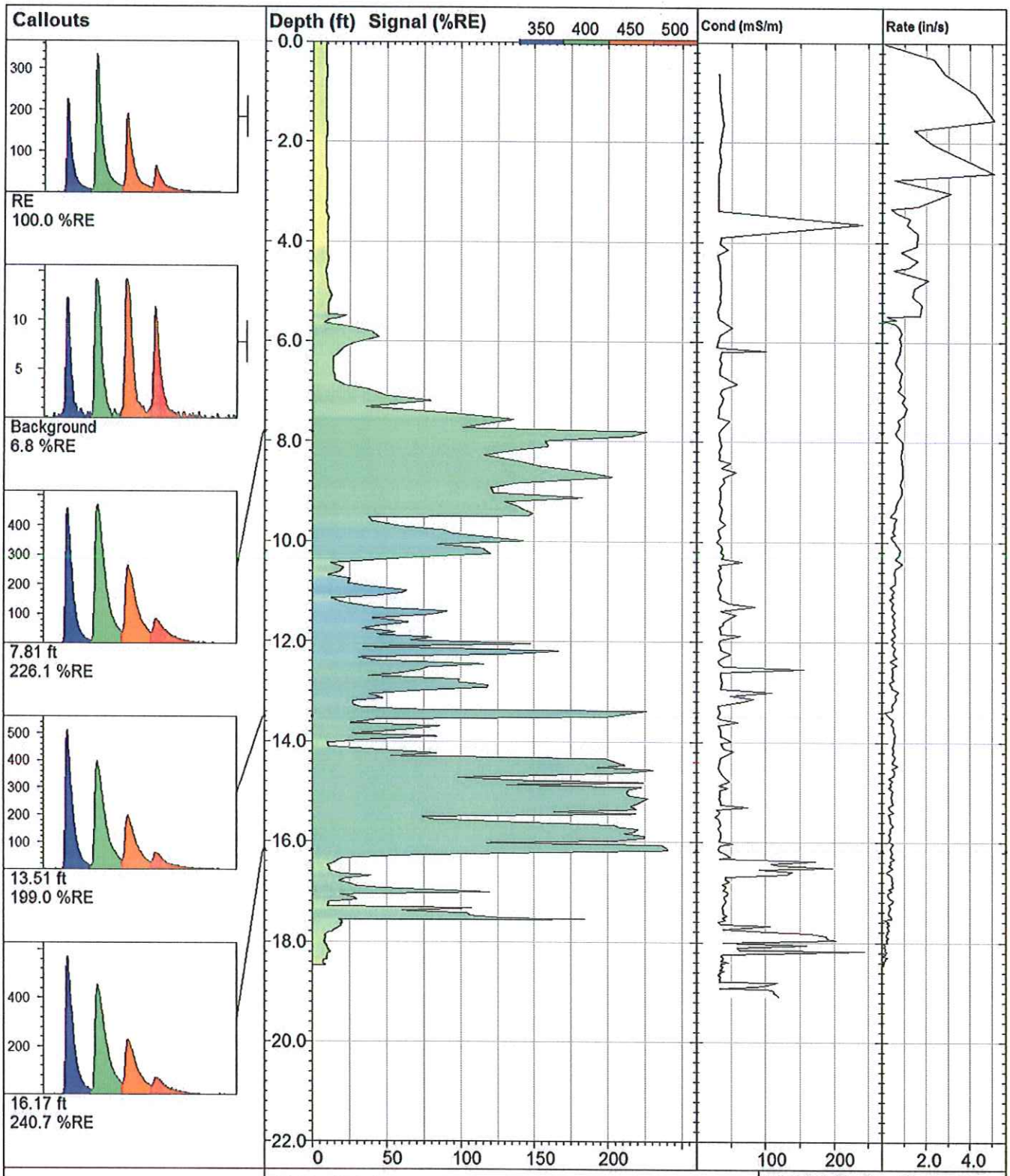
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.58 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **312.0 %RE @ 17.95 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 12:27 EDT**

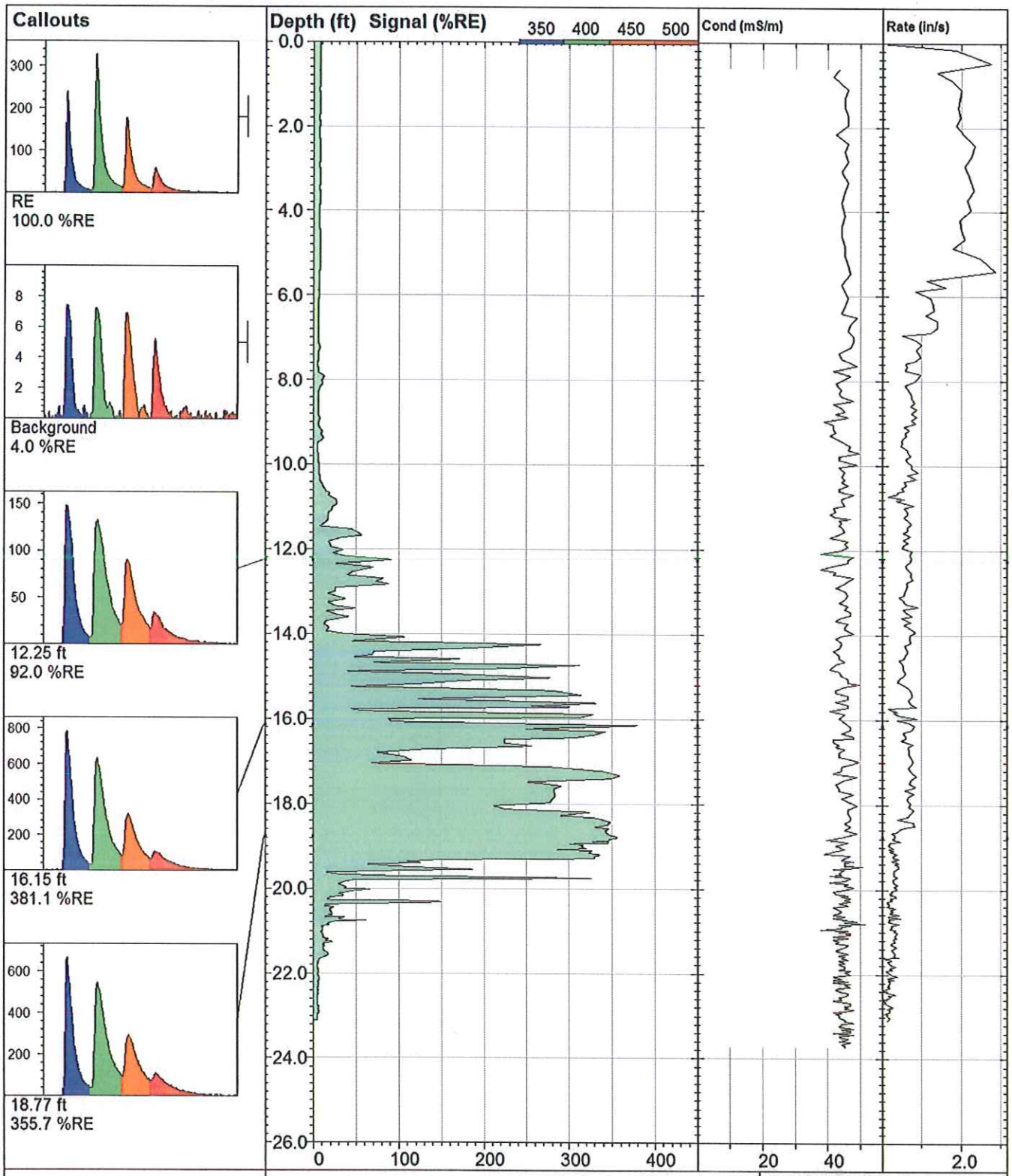


VIRONEX

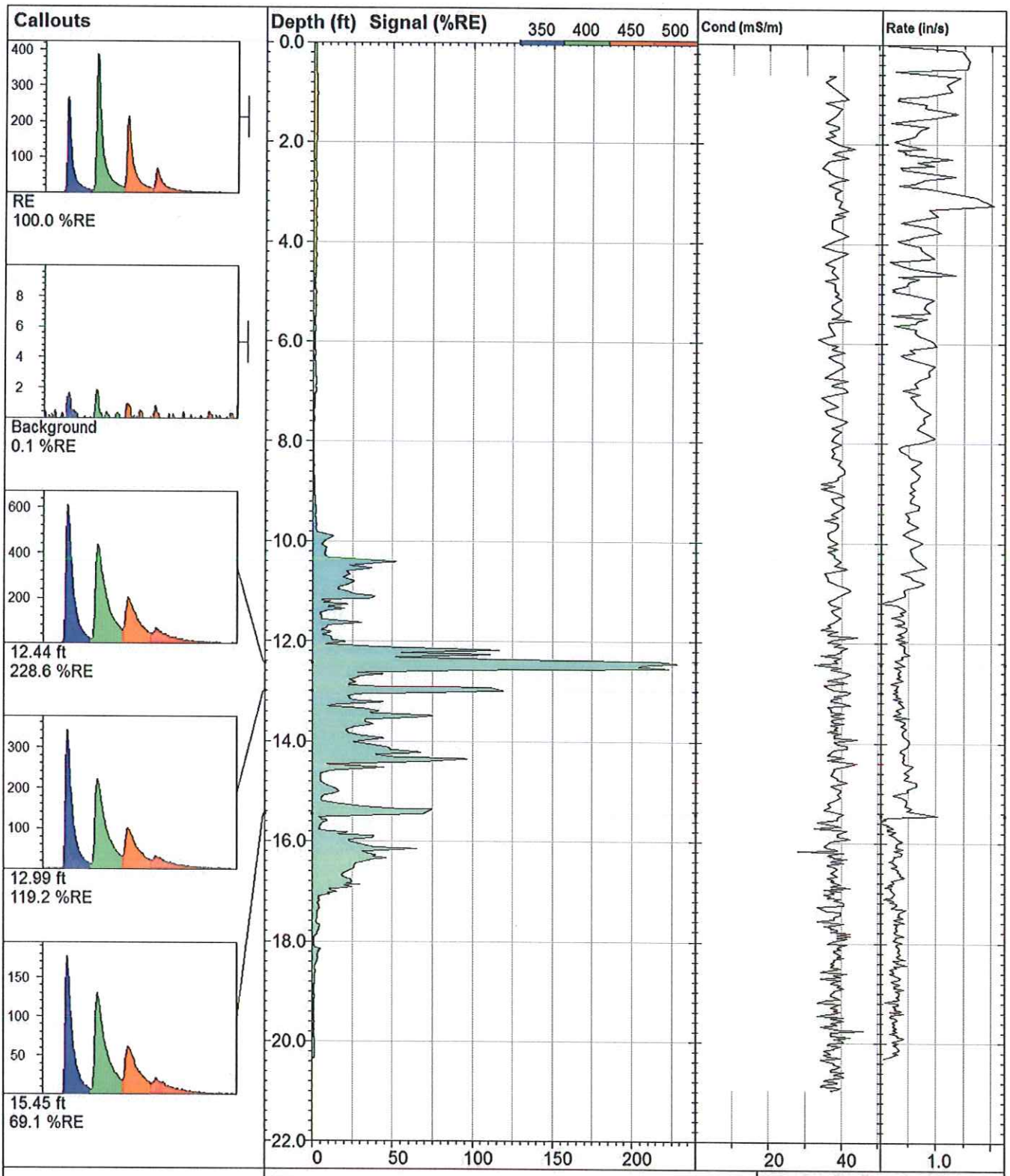
RG-Z18		UVOST By Dakota www.DakotaTechnologies.com
Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.01 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **496.5 %RE @ 11.65 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-08 11:32 EDT**



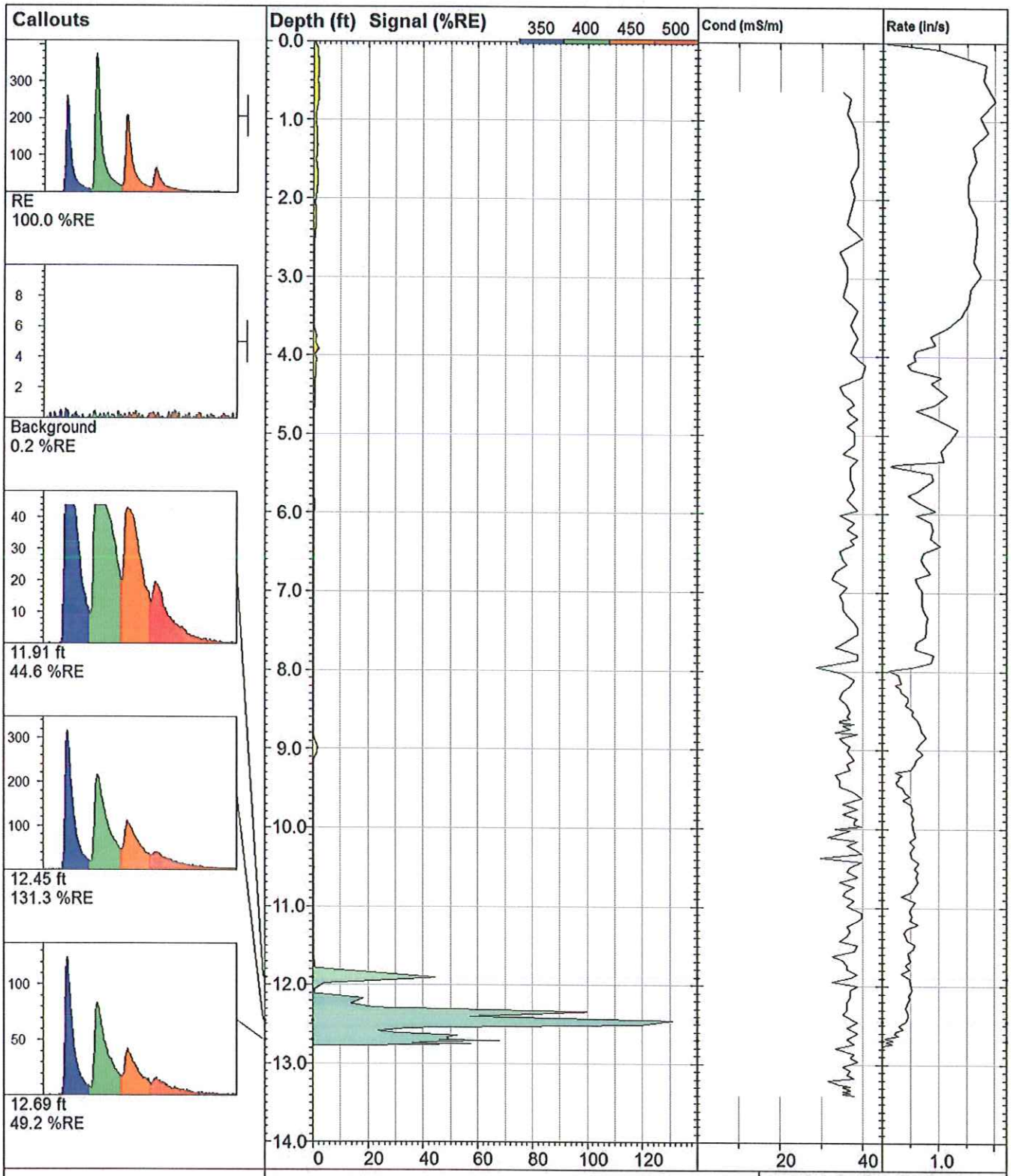
VIRONEX	**RG-Z19**	**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.47 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **240.7 %RE @ 16.17 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 07:56 EDT**



VIRONEX	**RG-Z20**	**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.10 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **381.1 %RE @ 16.15 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 15:46 EDT**



VIRONEX	**RG-Z22**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.34 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **228.6 %RE @ 12.44 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 11:23 EDT**

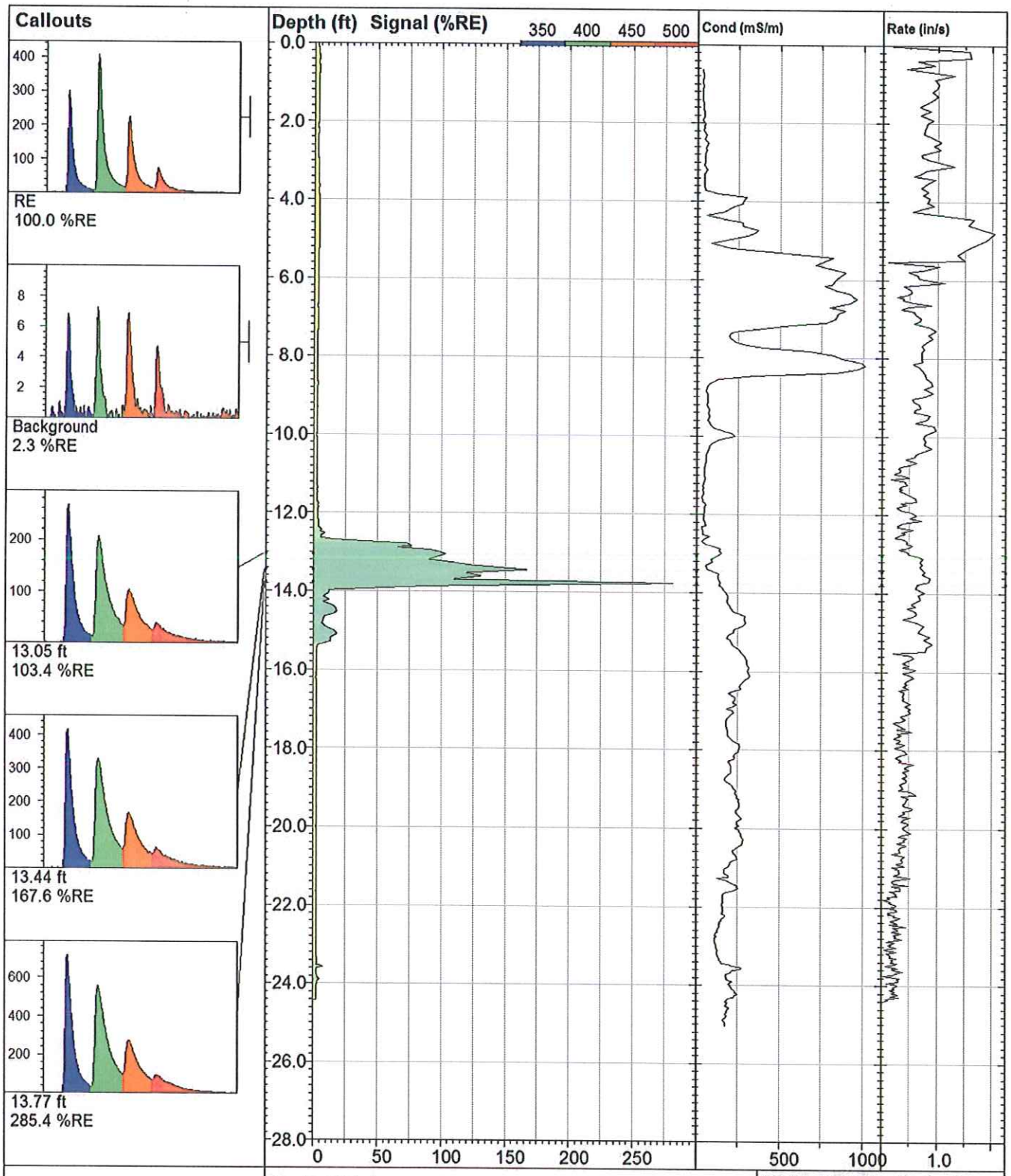


VIRONEX

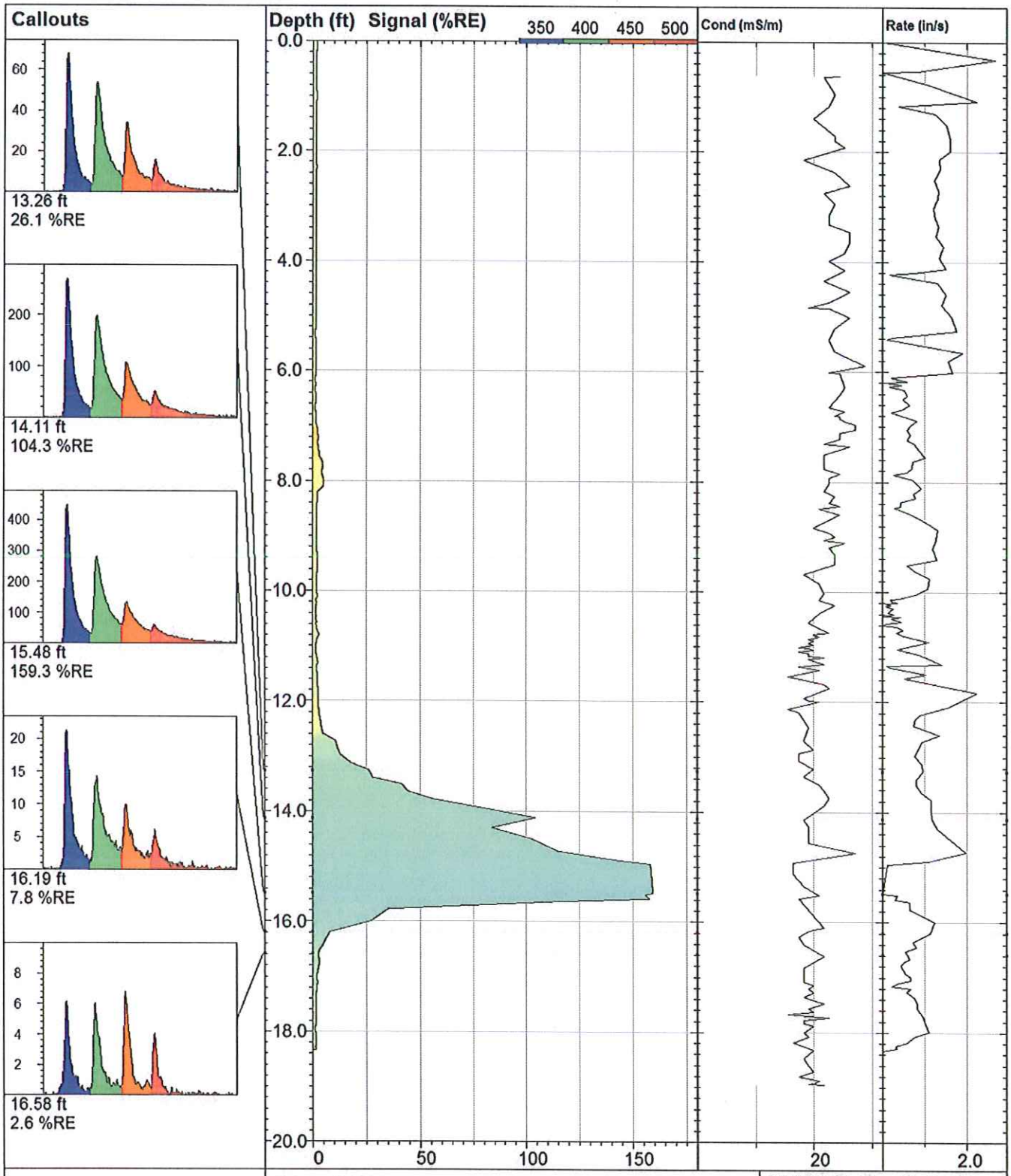
RG-Z24

UVOST By Dakota
www.DakotaTechnologies.com

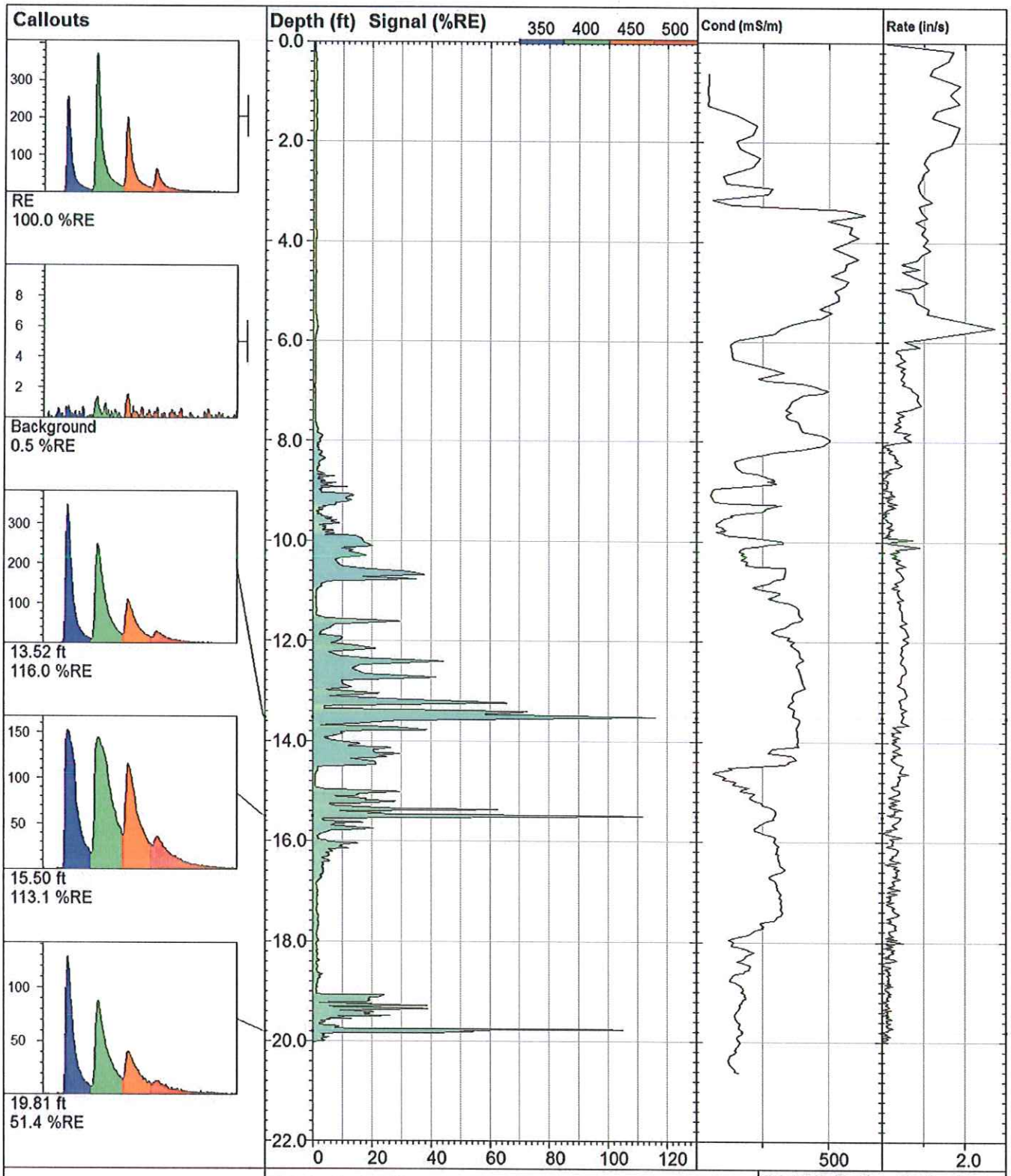
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **12.77 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **131.3 %RE @ 12.45 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 10:35 EDT**



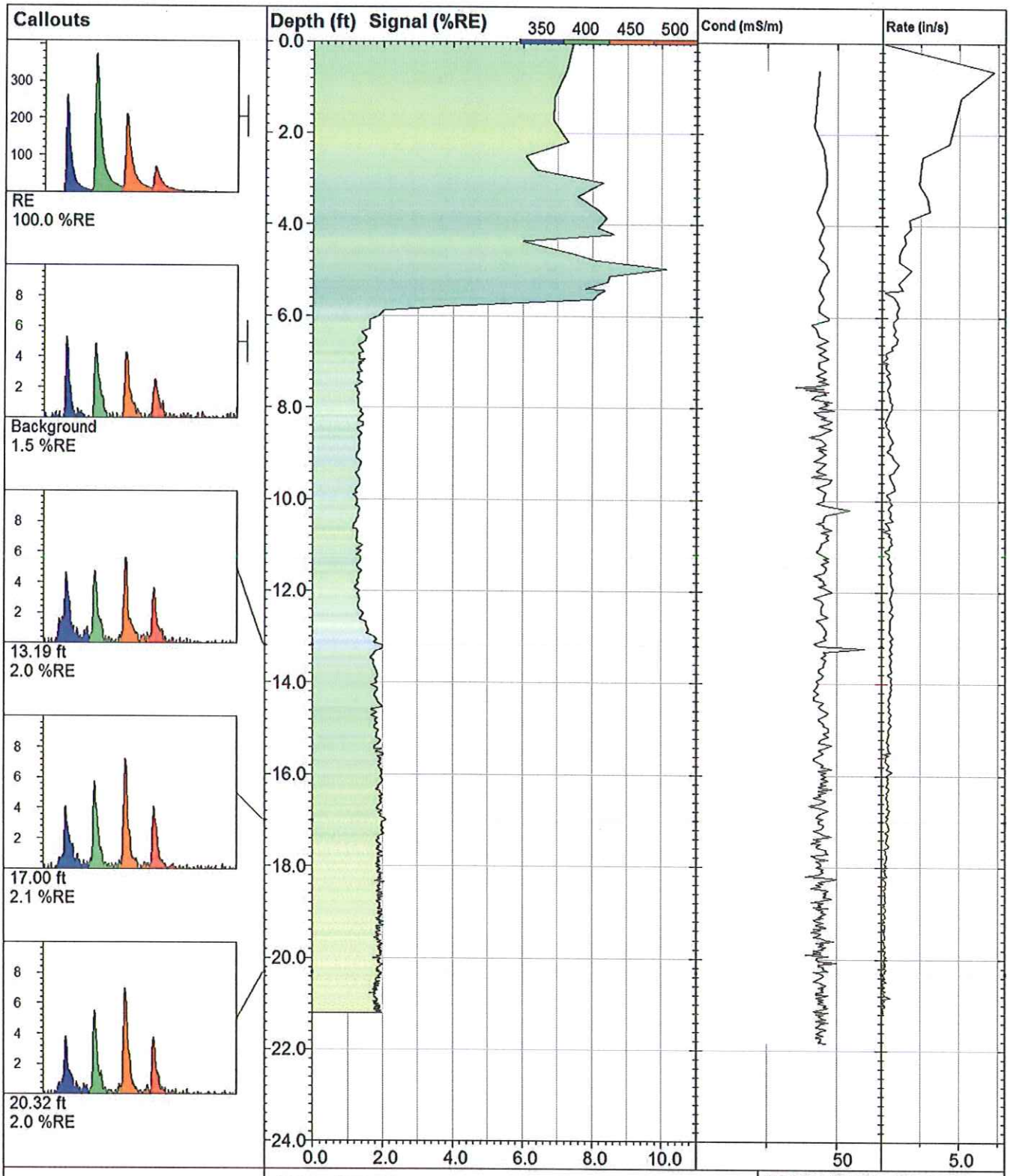
VIRONEX	**RG-Z26**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV ENERGY**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.42 ft**
	Client / Job: **STANLEY /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **285.4 %RE @ 13.77 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 09:27 EDT**



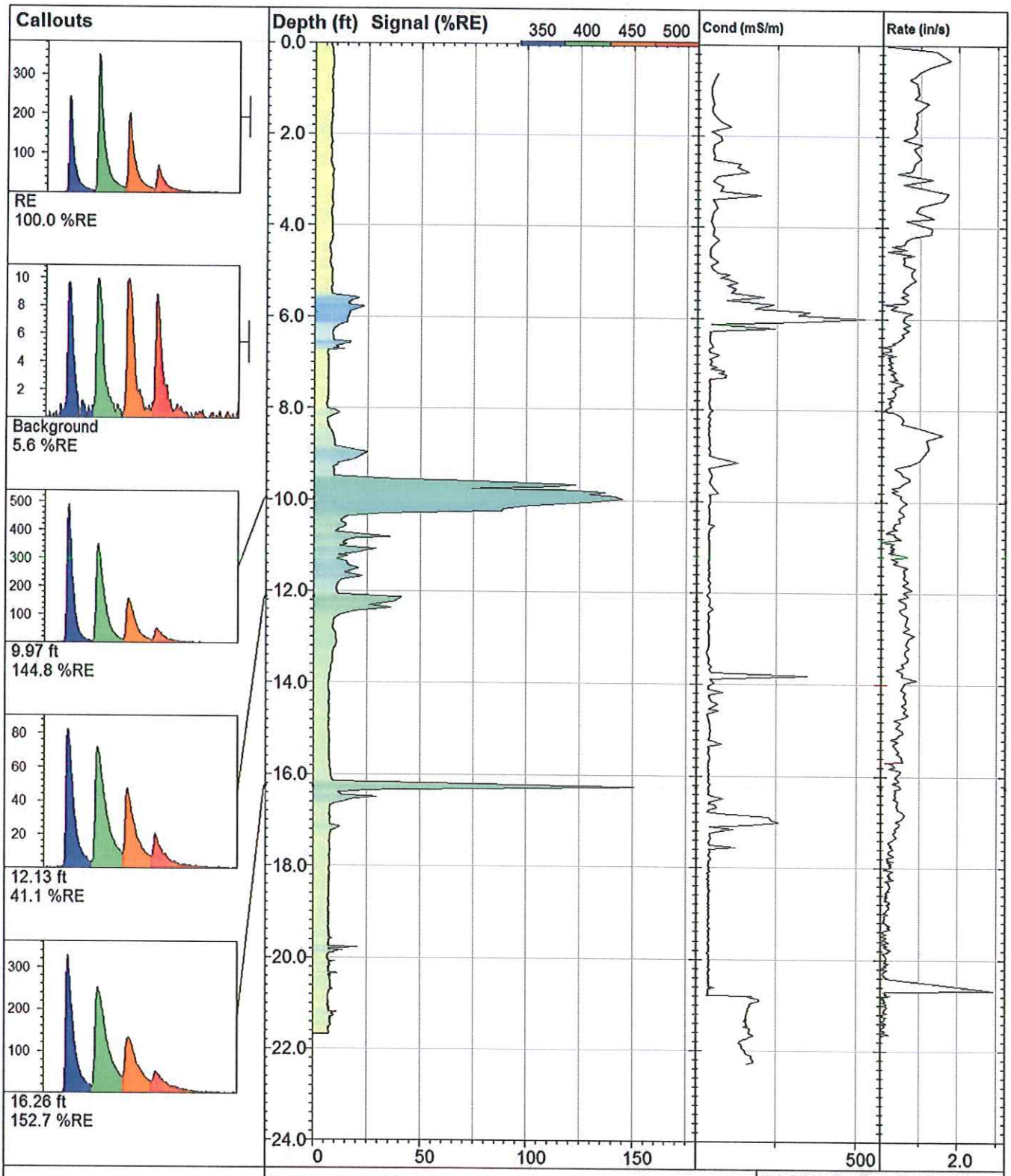
VIRONEX	**RG-Z32**	**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.33 ft**
	Client / Job: **Stanley / RG-Z32**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **159.3 %RE @ 15.48 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 09:30 MST**



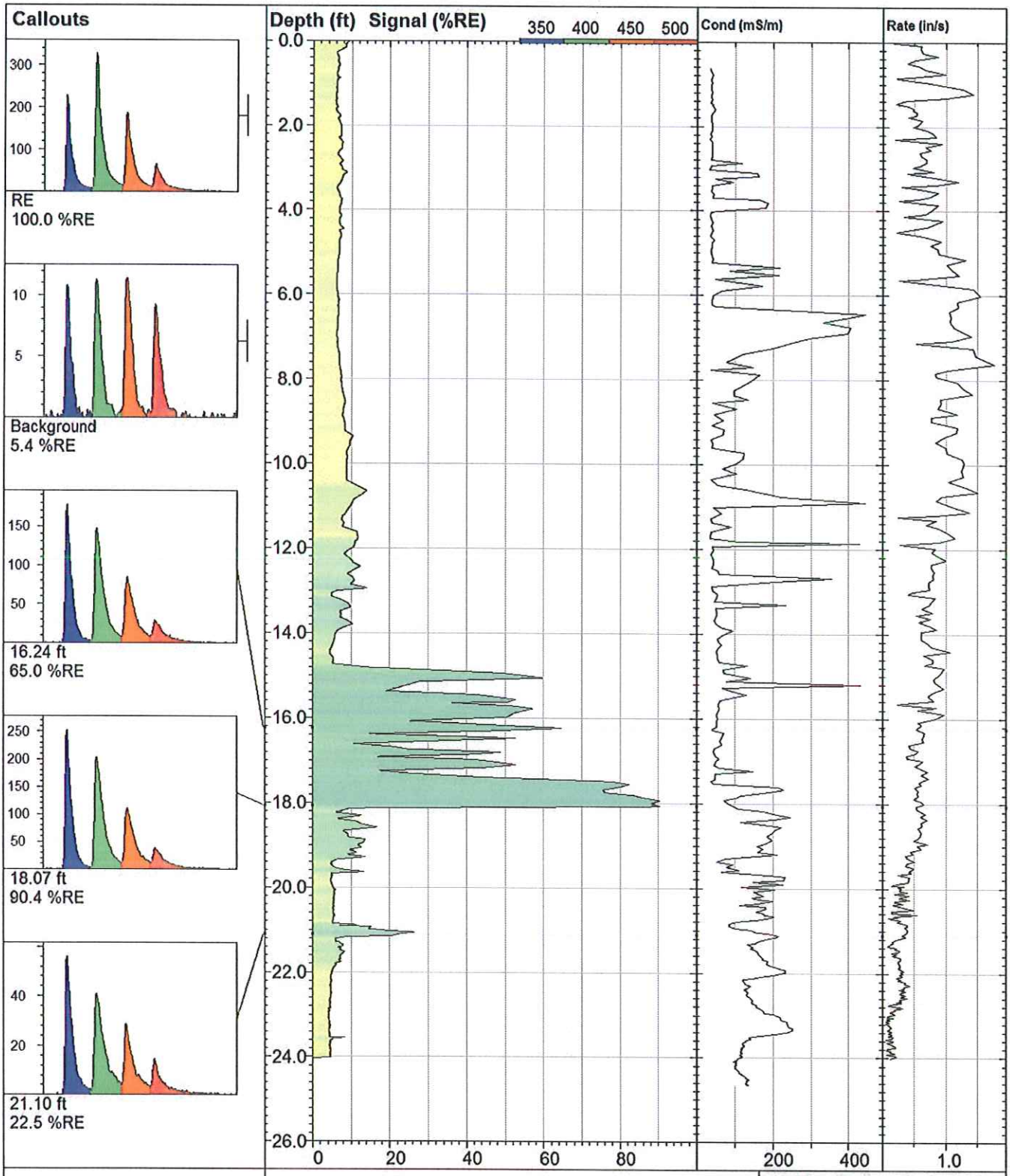
VIRONEX	**RG-AA17**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.01 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **116.0 %RE @ 13.51 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 13:15 EDT**



VIRONEX	**RG-AA19**	**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.21 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.1 %RE @ 4.97 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 13:08 EDT**



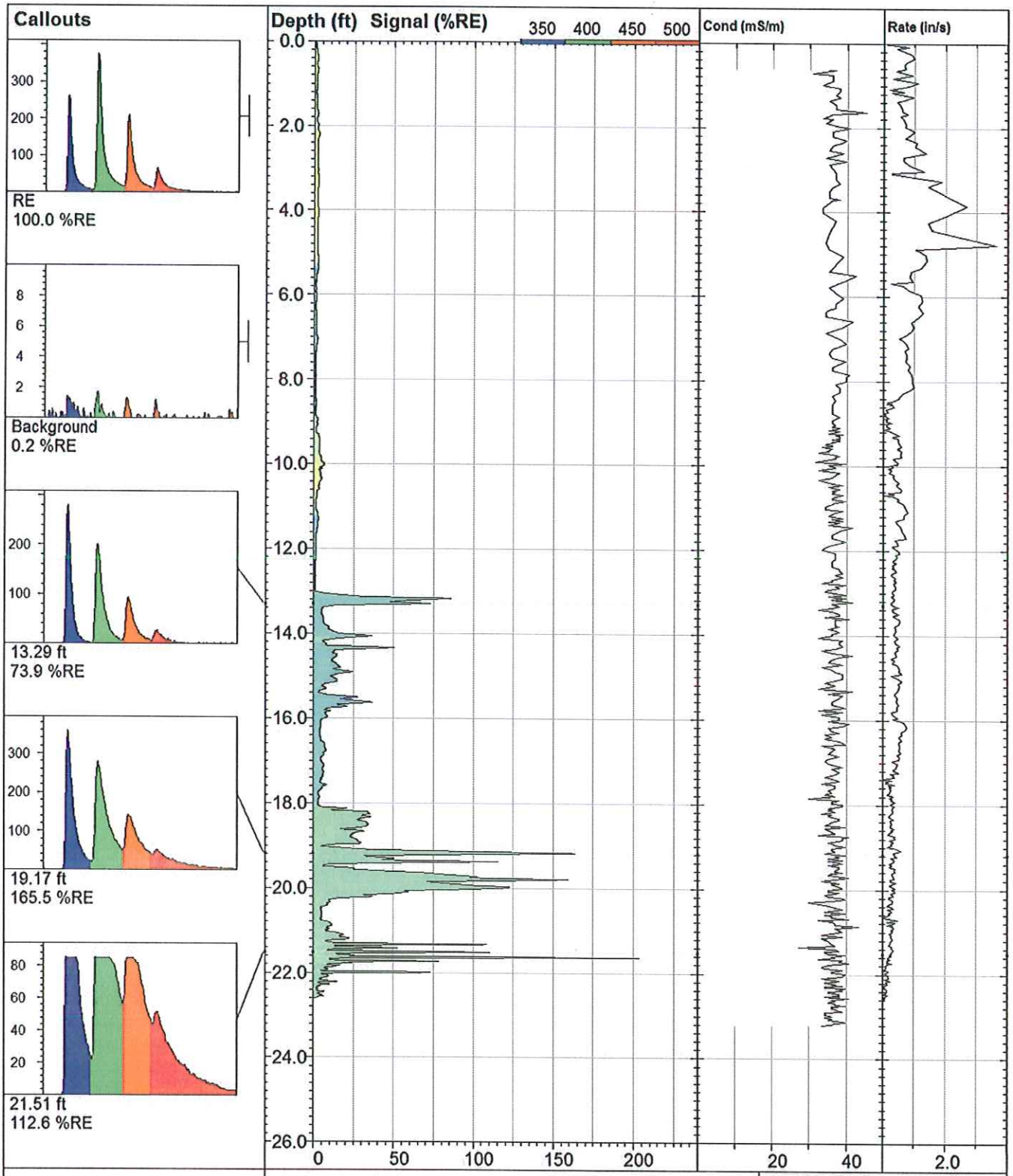
RG-AA19R		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.67 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **152.7 %RE @ 16.26 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 12:41 EDT**



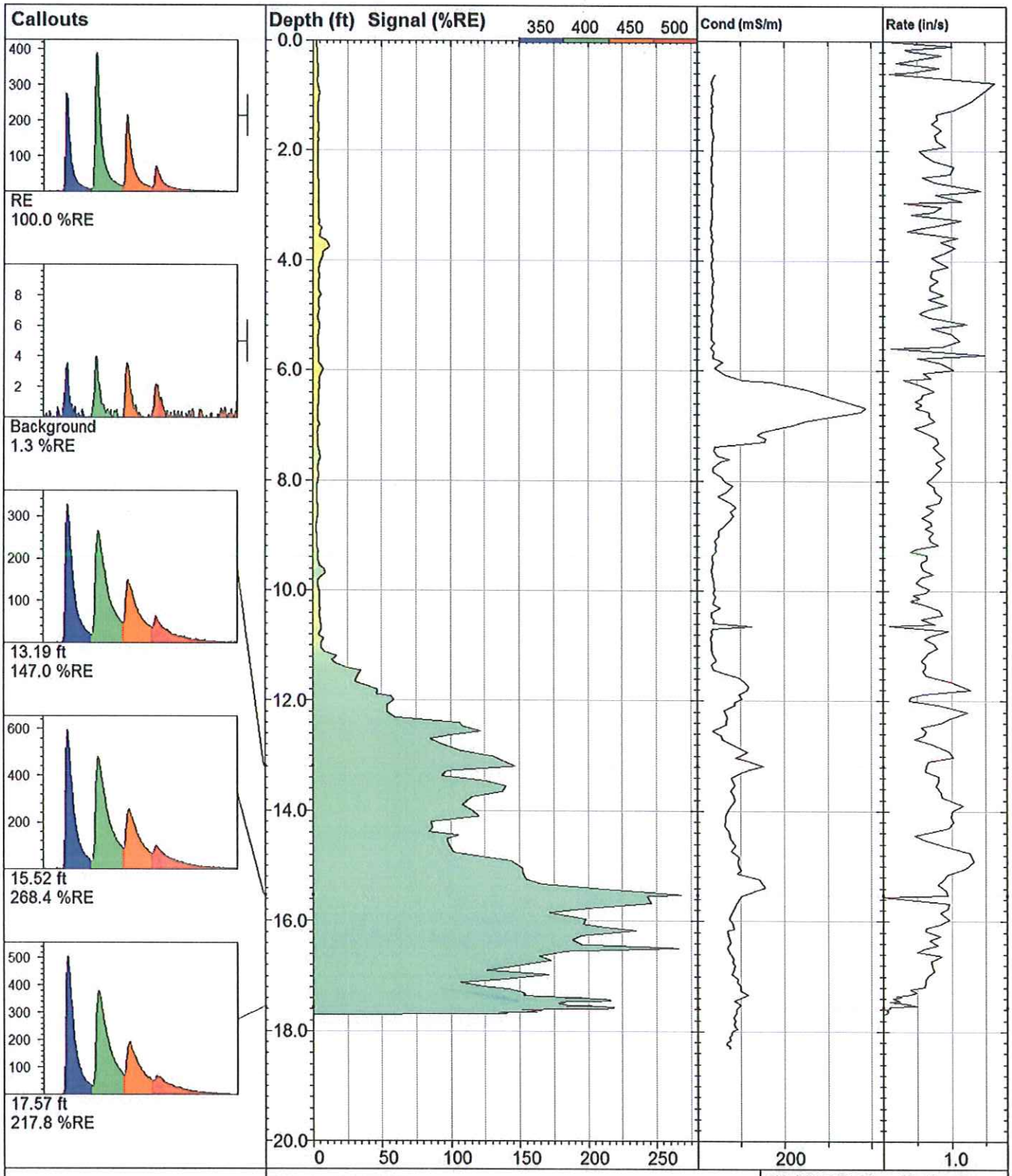
RG-AA21

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.02 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **90.4 %RE @ 18.07 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 11:56 EDT**



RG-AA23		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.59 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **214.2 %RE @ 21.63 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 12:53 EDT**

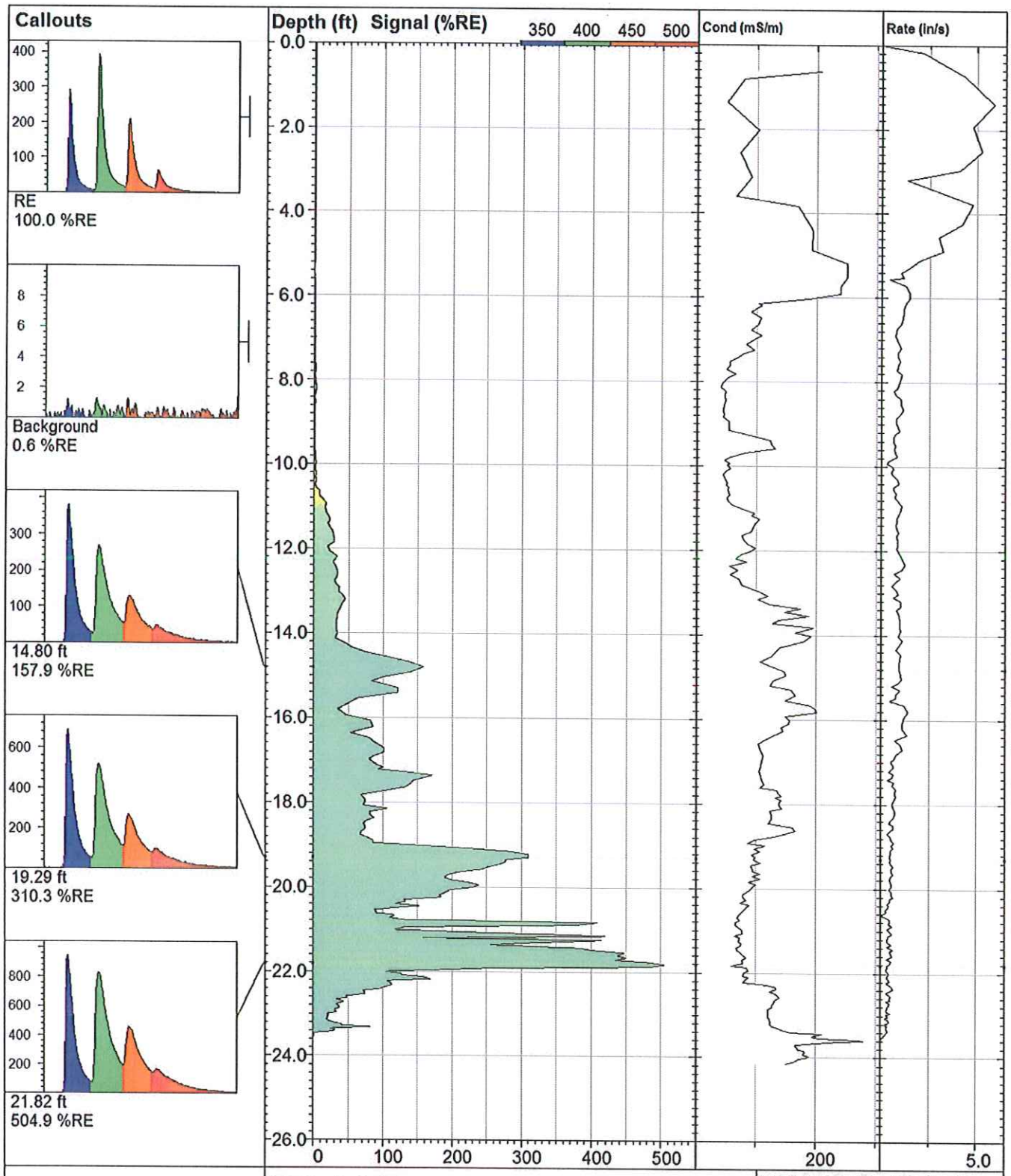


VIRONEX

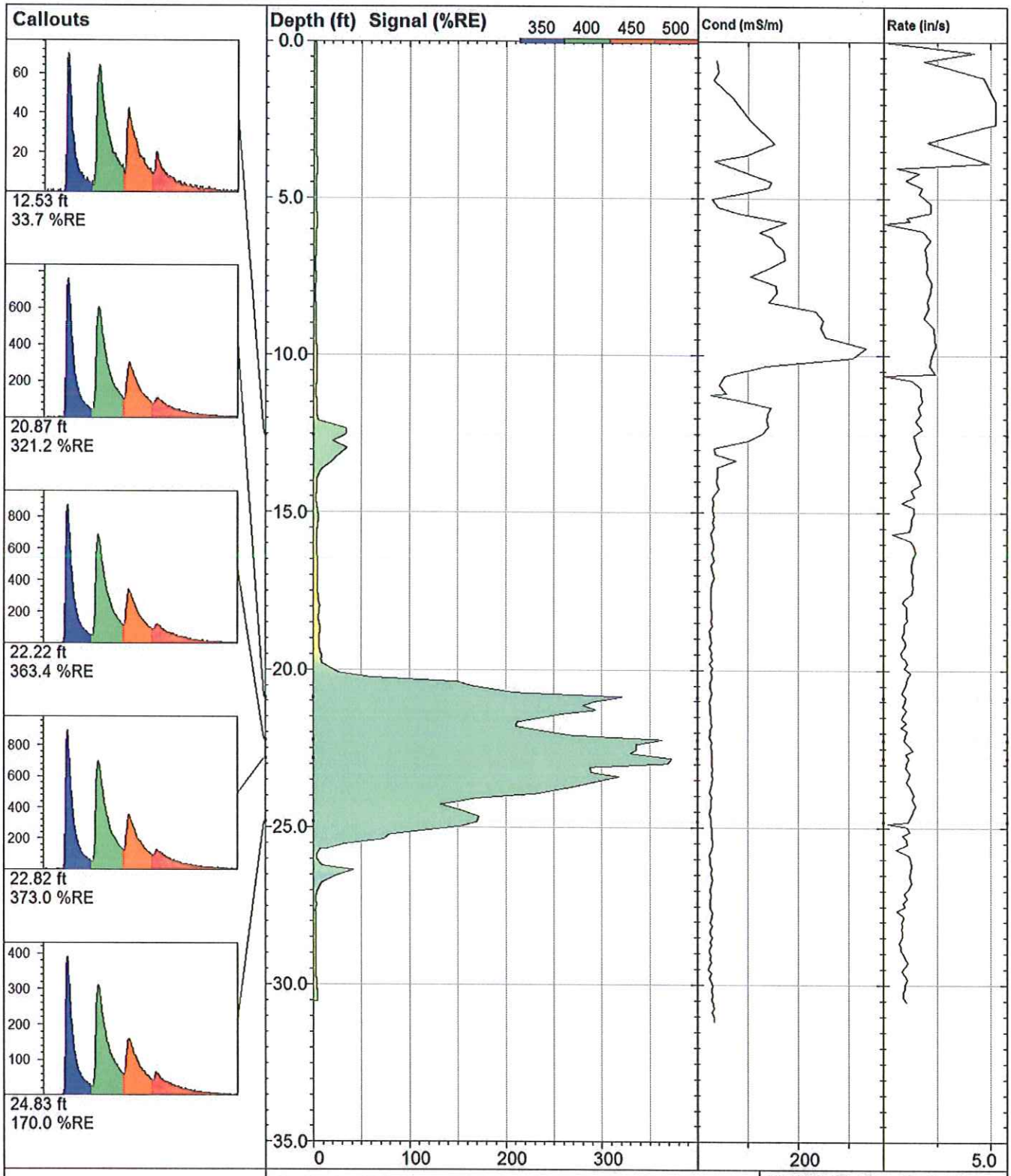
RG-AA28

UVOST By Dakota
www.DakotaTechnologies.com

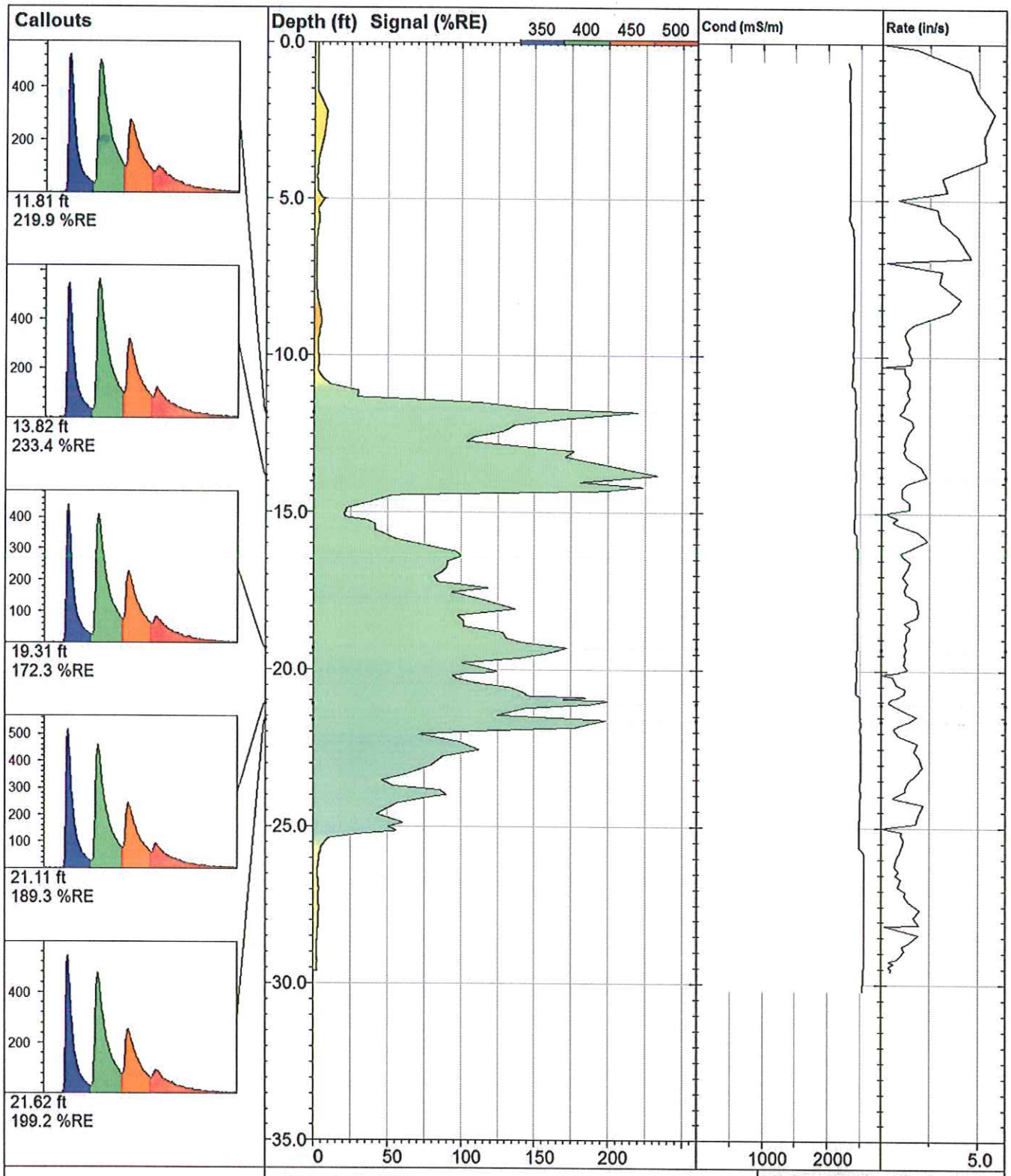
Site: **NV ENERGY**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.69 ft**
Client / Job: **STANLEY /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **268.4 %RE @ 15.52 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 10:06 EDT**



VIRONEX	**RG-AA30**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.55 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **504.9 %RE @ 21.82 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 14:32 EDT**



VIRONEX	**RG-AA36**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.53 ft**
	Client / Job: **Stanley / RG-AA36**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **373.0 %RE @ 22.82 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 11:21 MST**

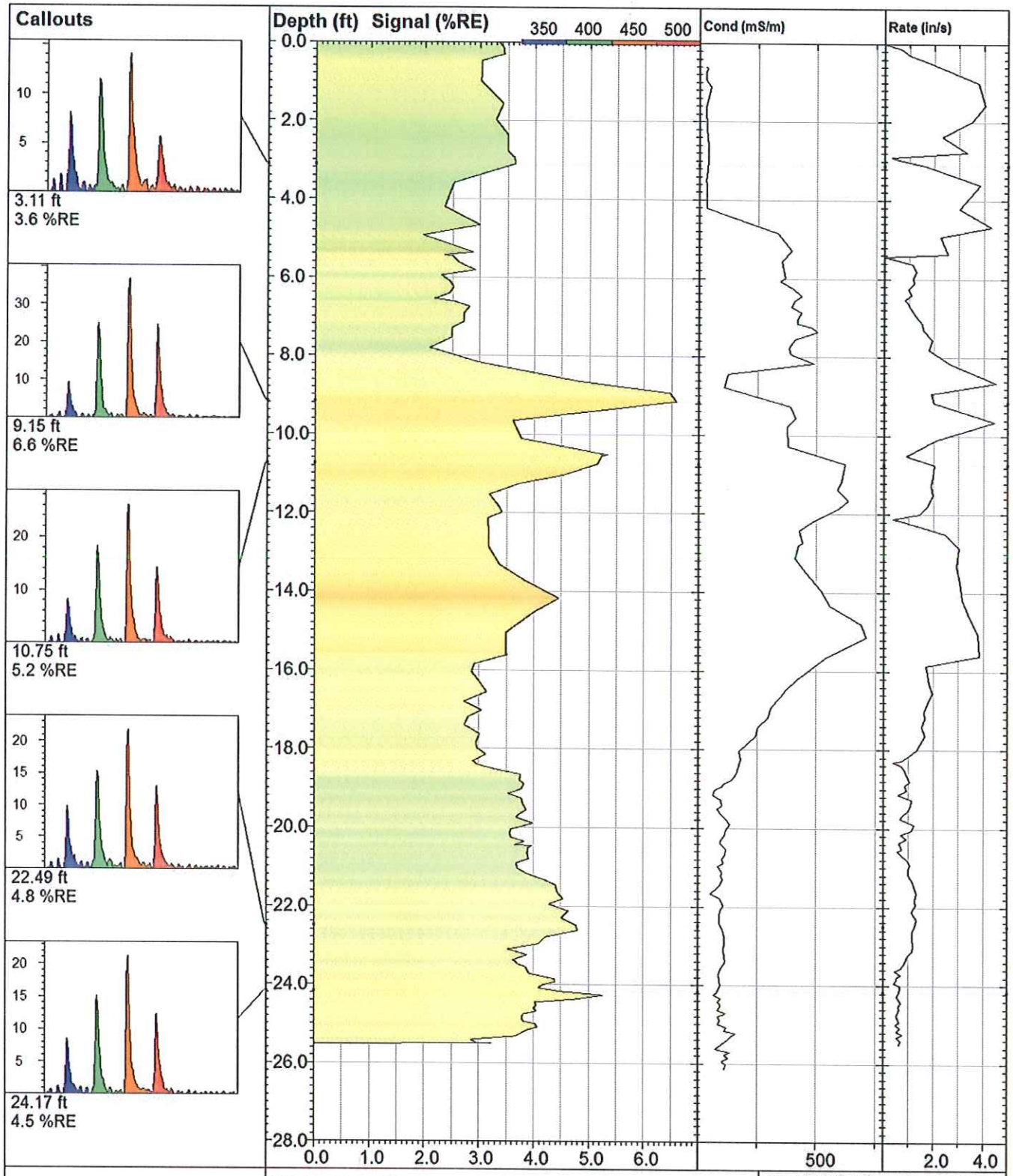


VIRONEX

RG-AA42

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **29.60 ft**
Client / Job: **Stanley / RG-AA42**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **233.4 %RE @ 13.82 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 15:20 MST**

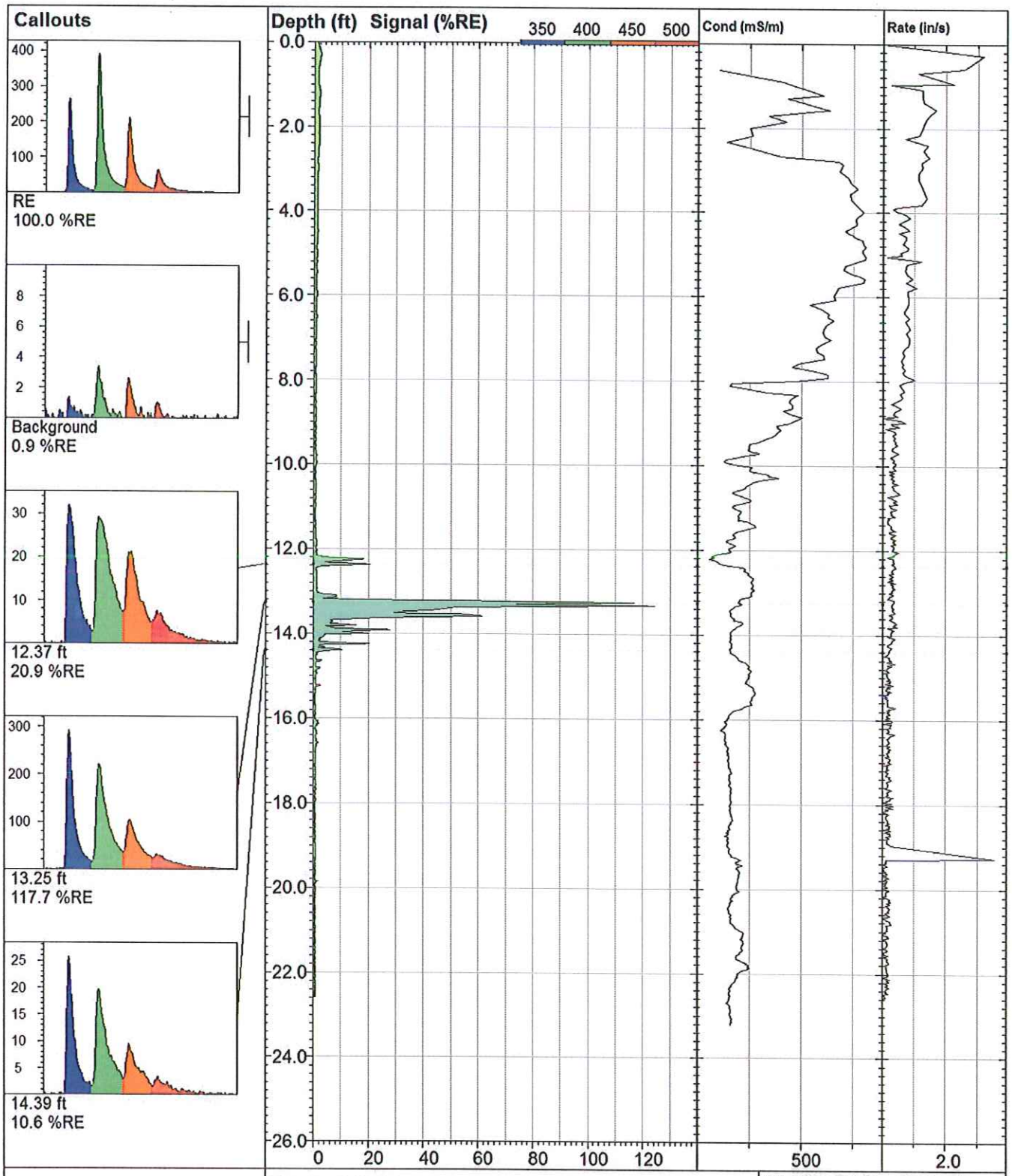


VIRONEX

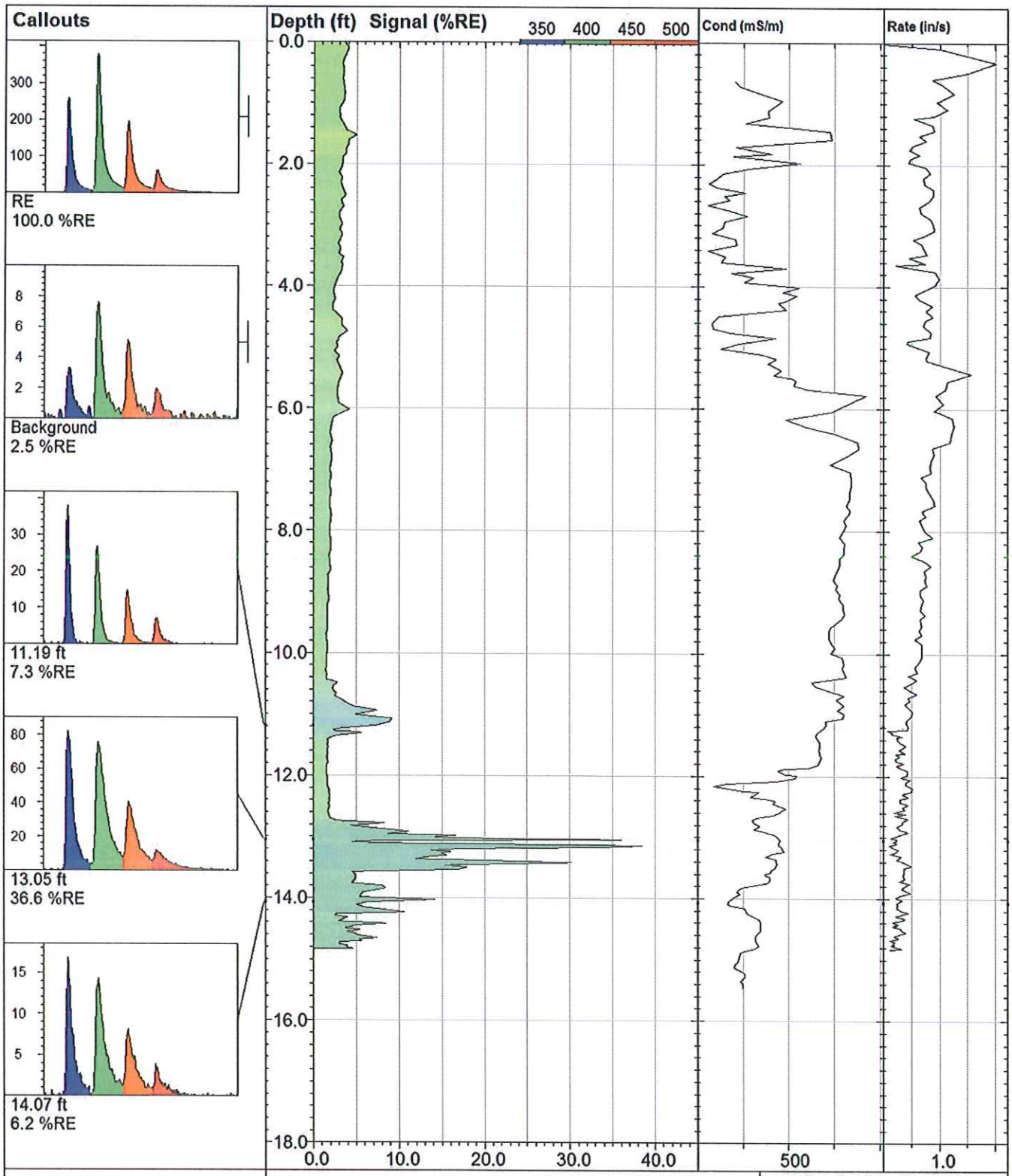
RG-AA45

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.51 ft**
Client / Job: **Stanley / RG-AA45**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.6 %RE @ 9.15 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 10:30 MST**



VIRONEX	**RG-AB17**	**UVOST By Dakota** www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.59 ft**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **126.7 %RE @ 13.31 ft**
Operator / Unit: **/ UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-07 14:50 EDT**

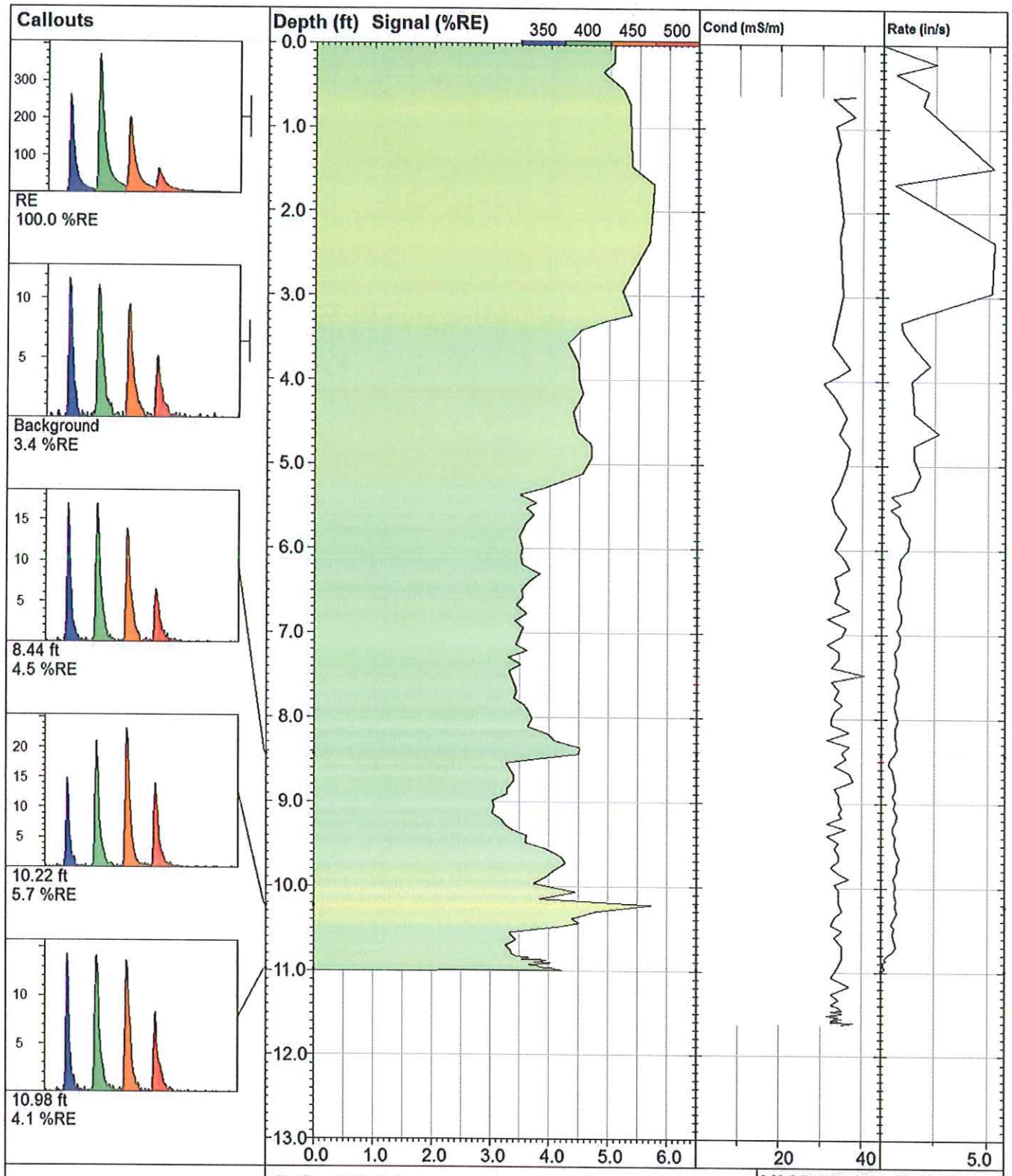


VIRONEX

RG-AB18

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.83 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **38.7 %RE @ 13.14 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-08 09:53 EDT**

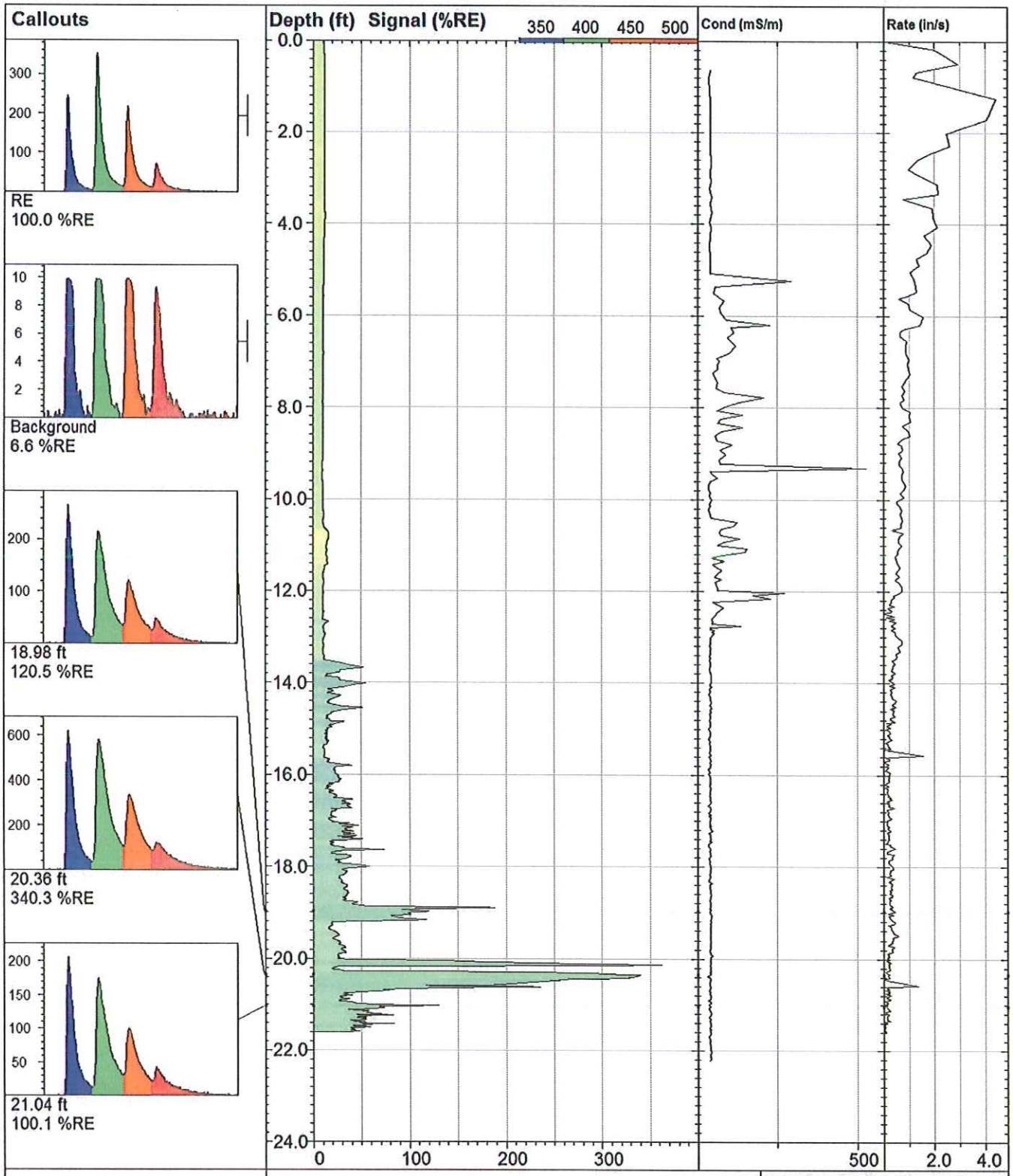


VIRONEX

RG-AB20

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **11.00 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.8 %RE @ 1.66 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 07:16 EDT**

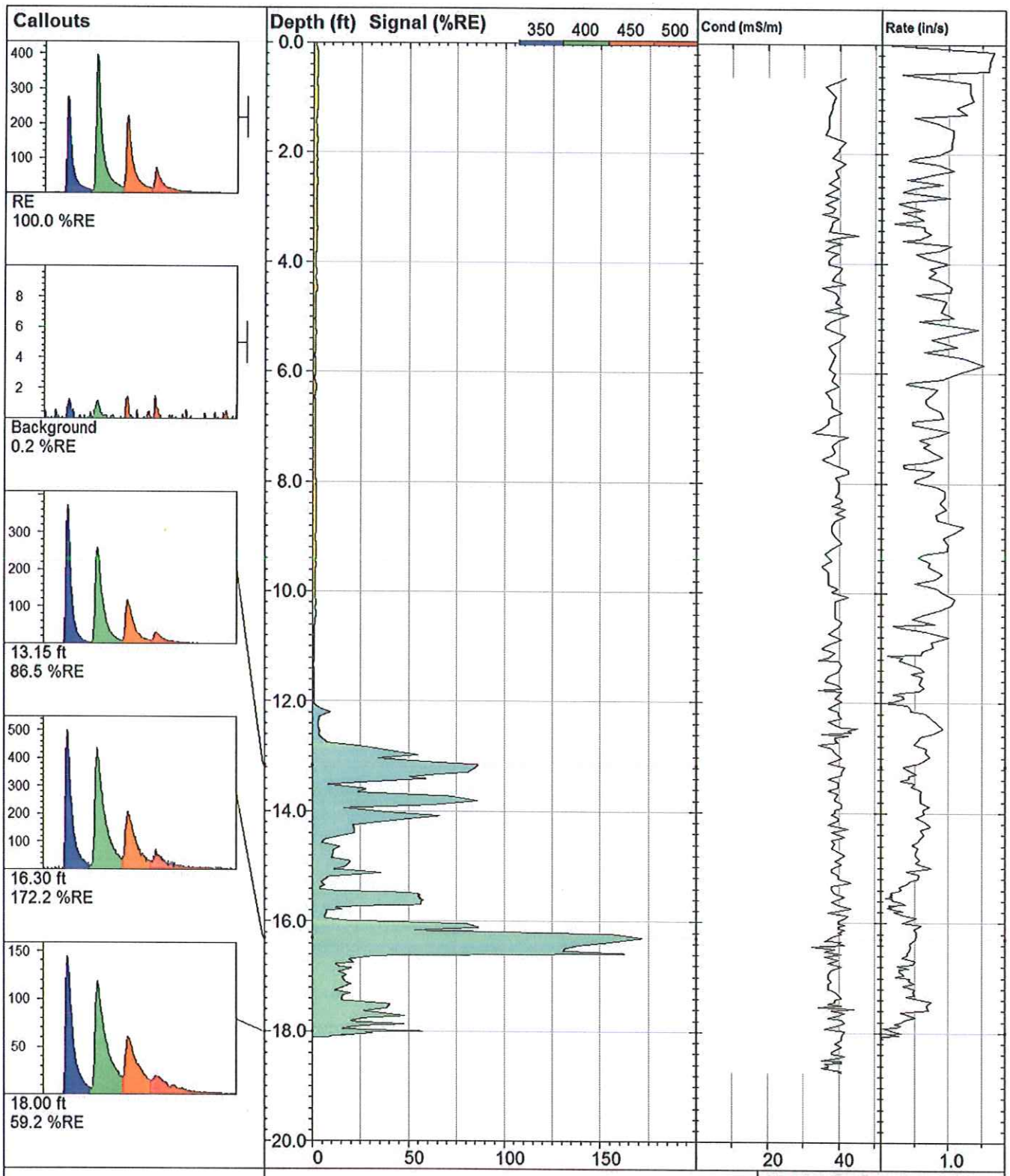


VIRONEX

RG-AB20R

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.61 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **365.1 %RE @ 20.13 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 15:03 EDT**

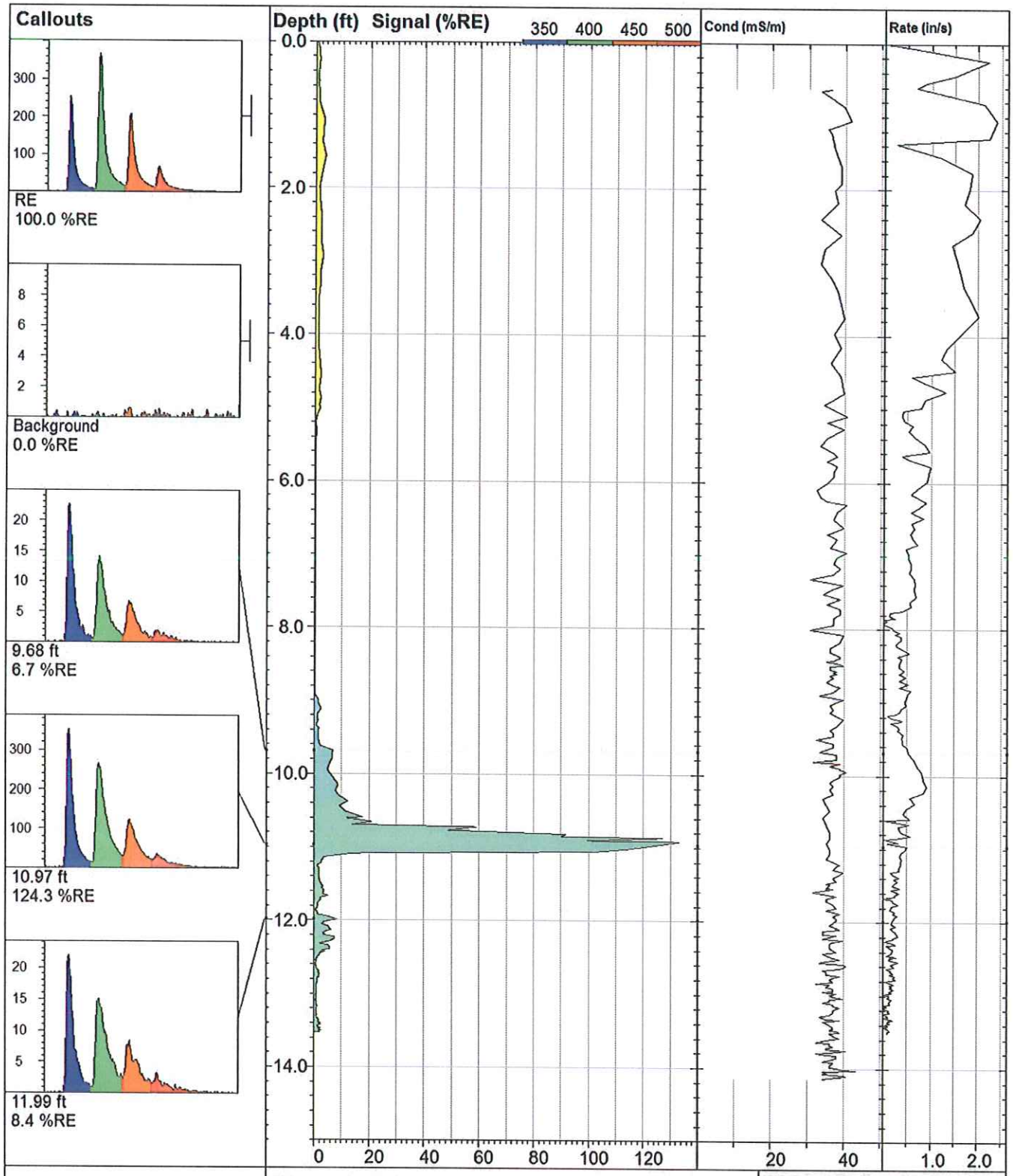


VIRONEX

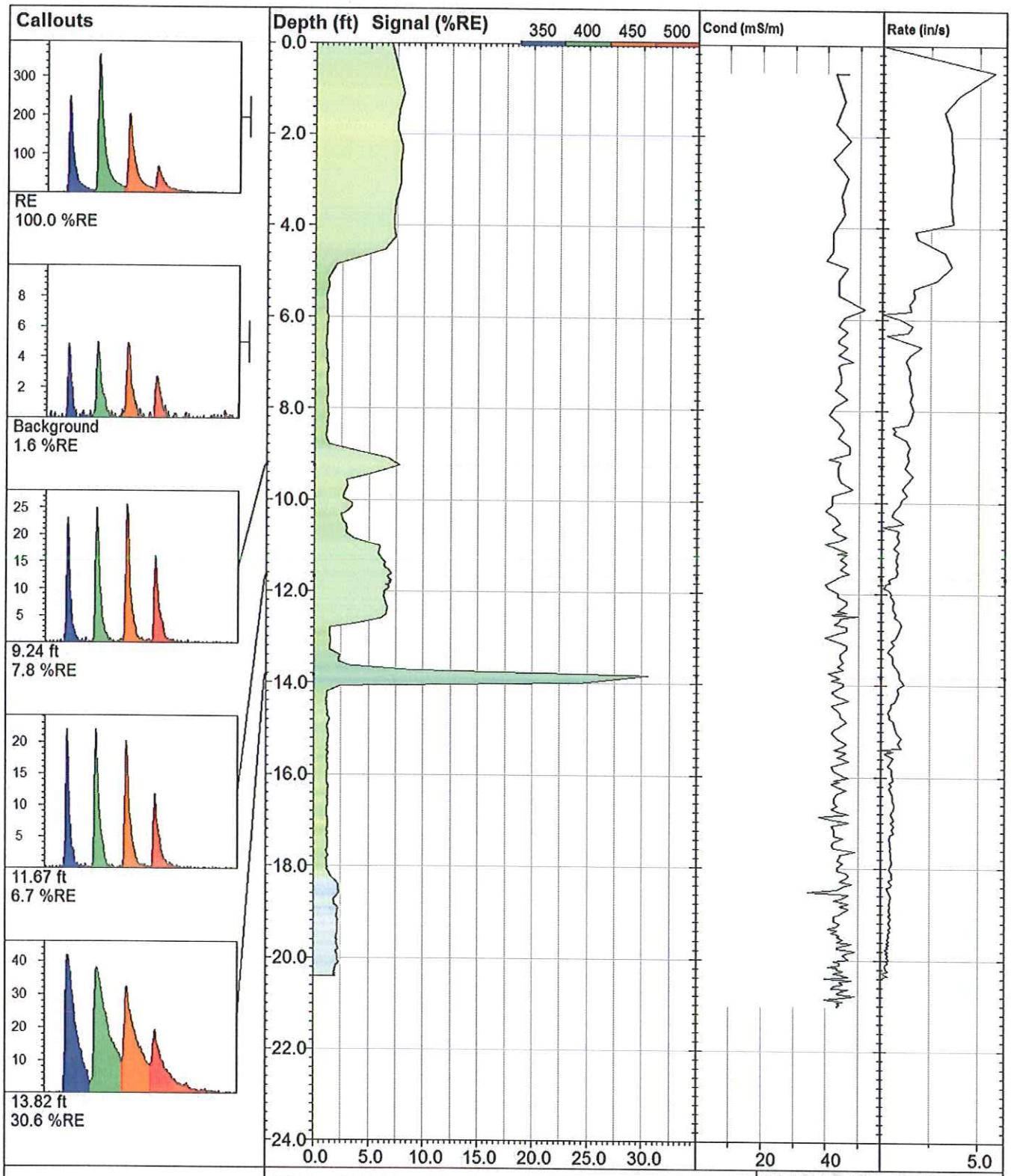
RG-AB22

UVOST By Dakota
www.DakotaTechnologies.com

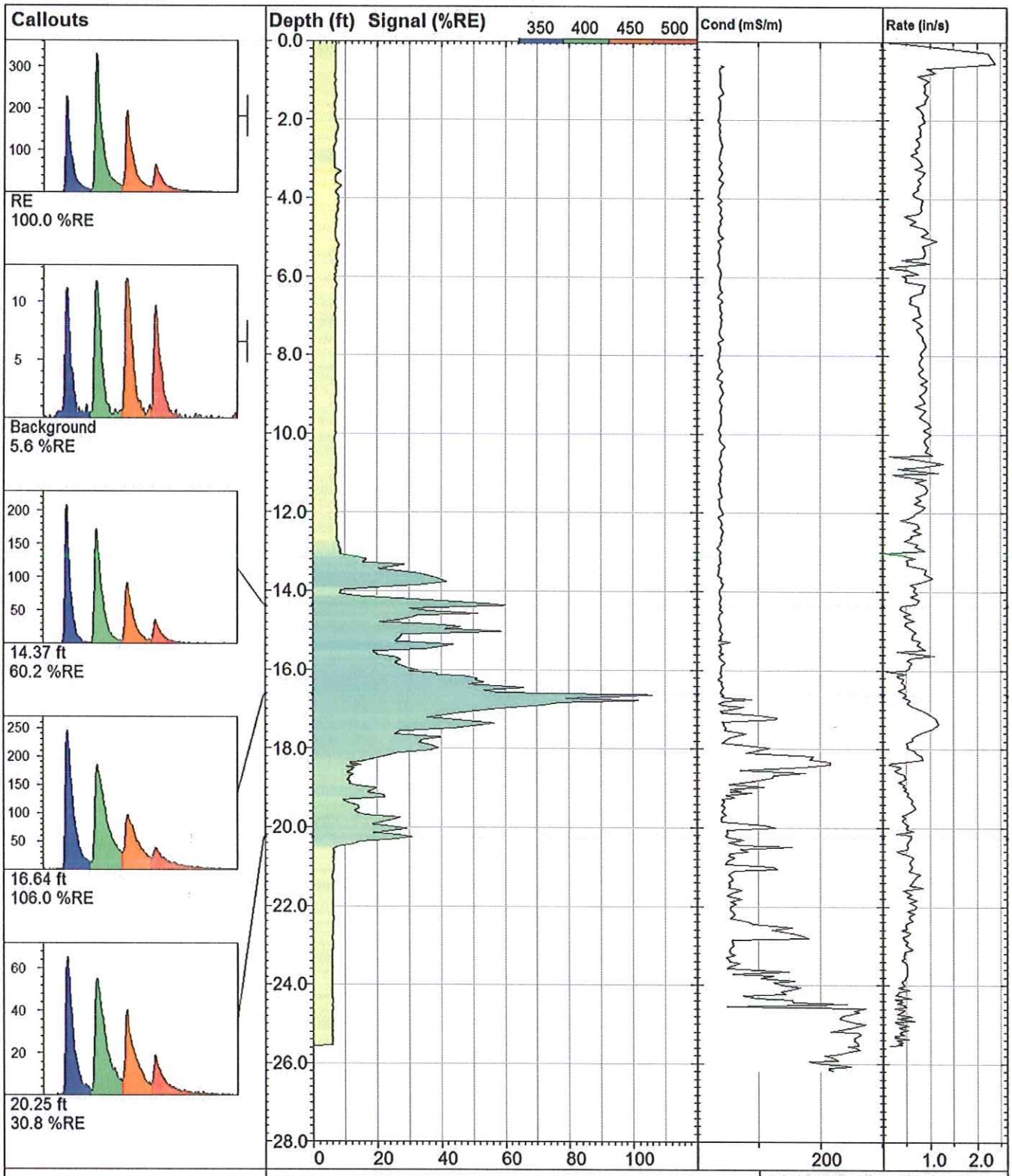
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.11 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **172.2 %RE @ 16.30 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 10:41 EDT**



RG-AB25		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **13.52 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **133.3 %RE @ 10.91 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 11:03 EDT**



RG-AC19		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.41 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **30.6 %RE @ 13.82 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 12:29 EDT**

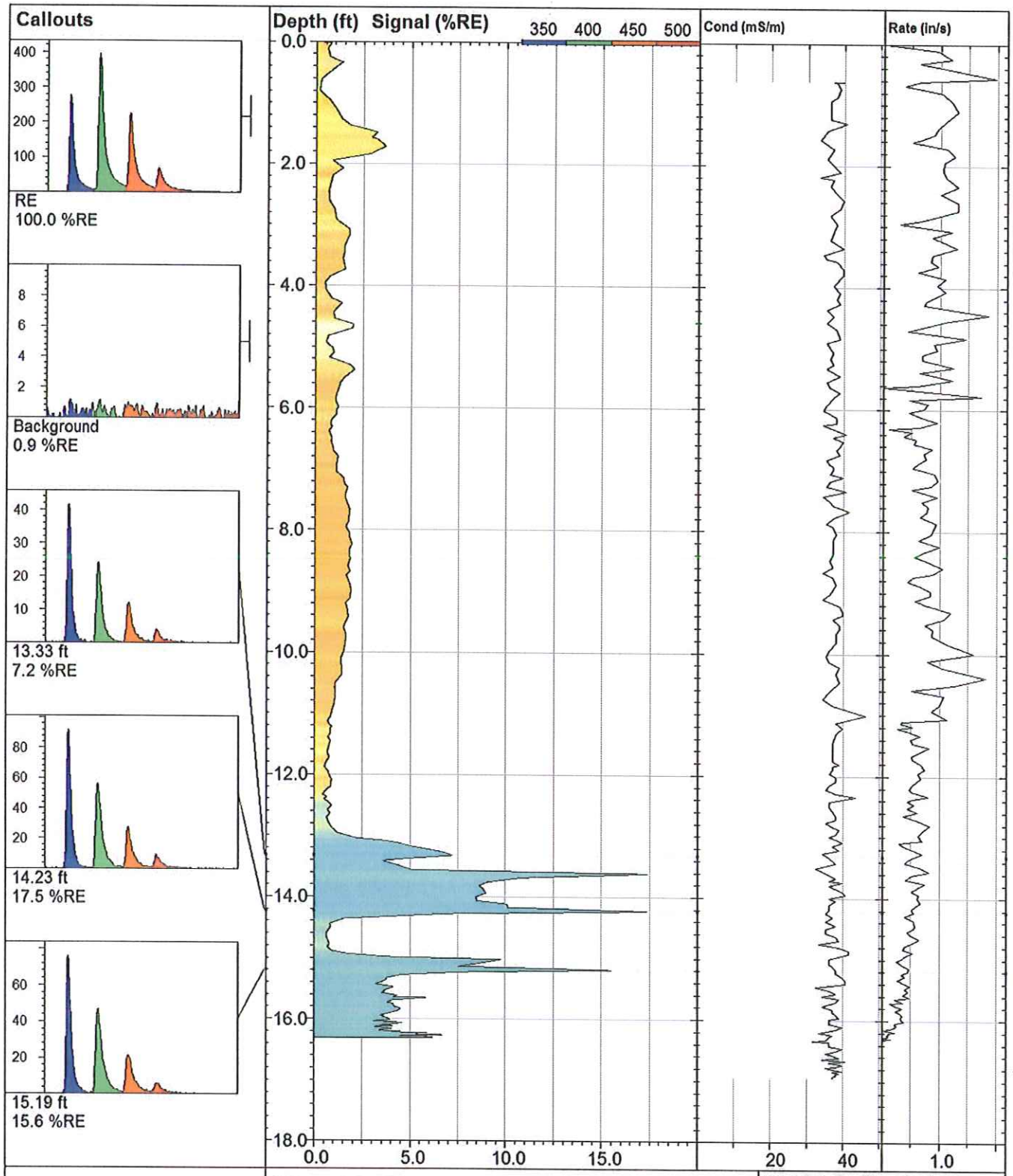


VIRONEX

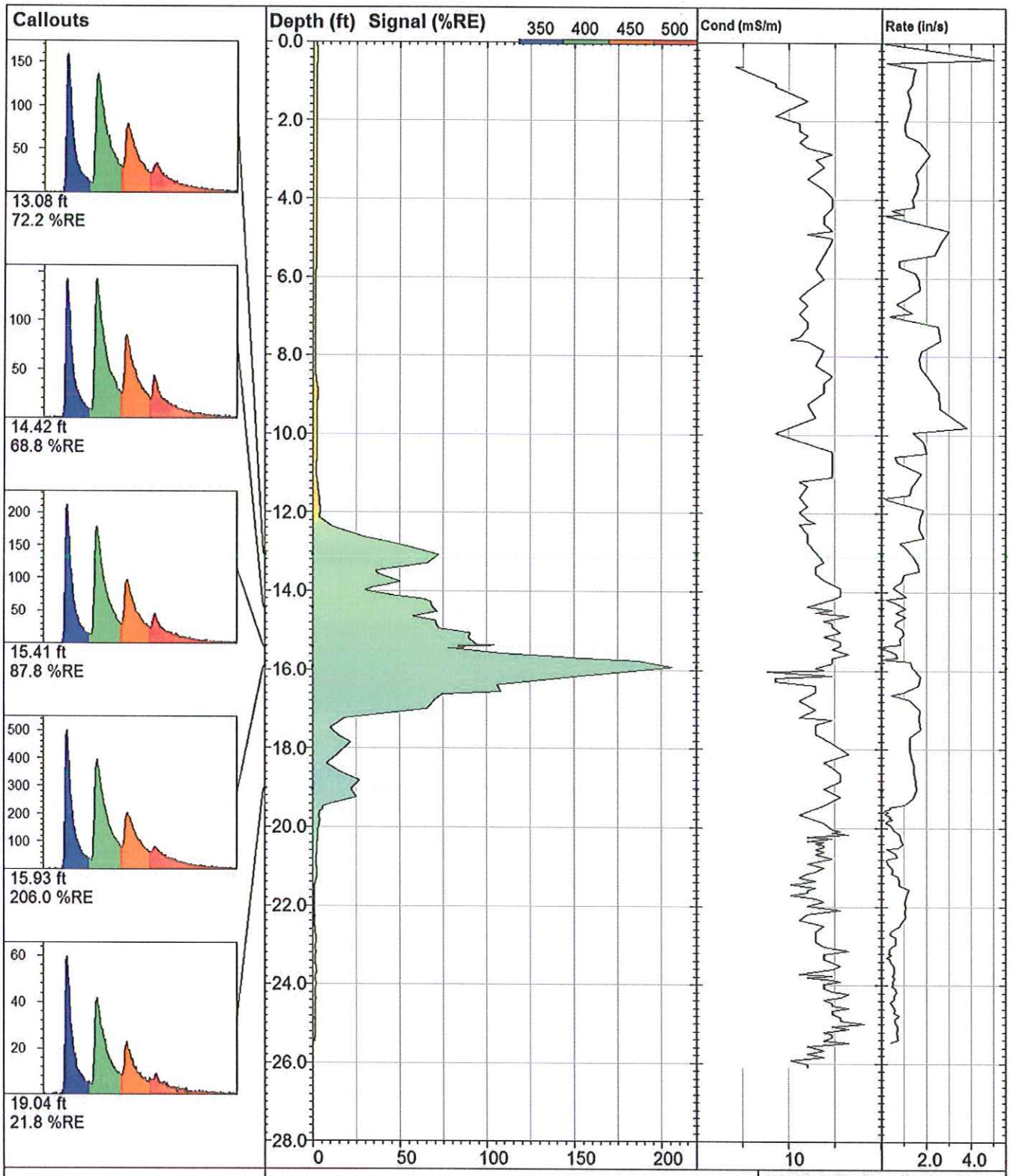
RG-AC21

UVOST By Dakota
www.DakotaTechnologies.com

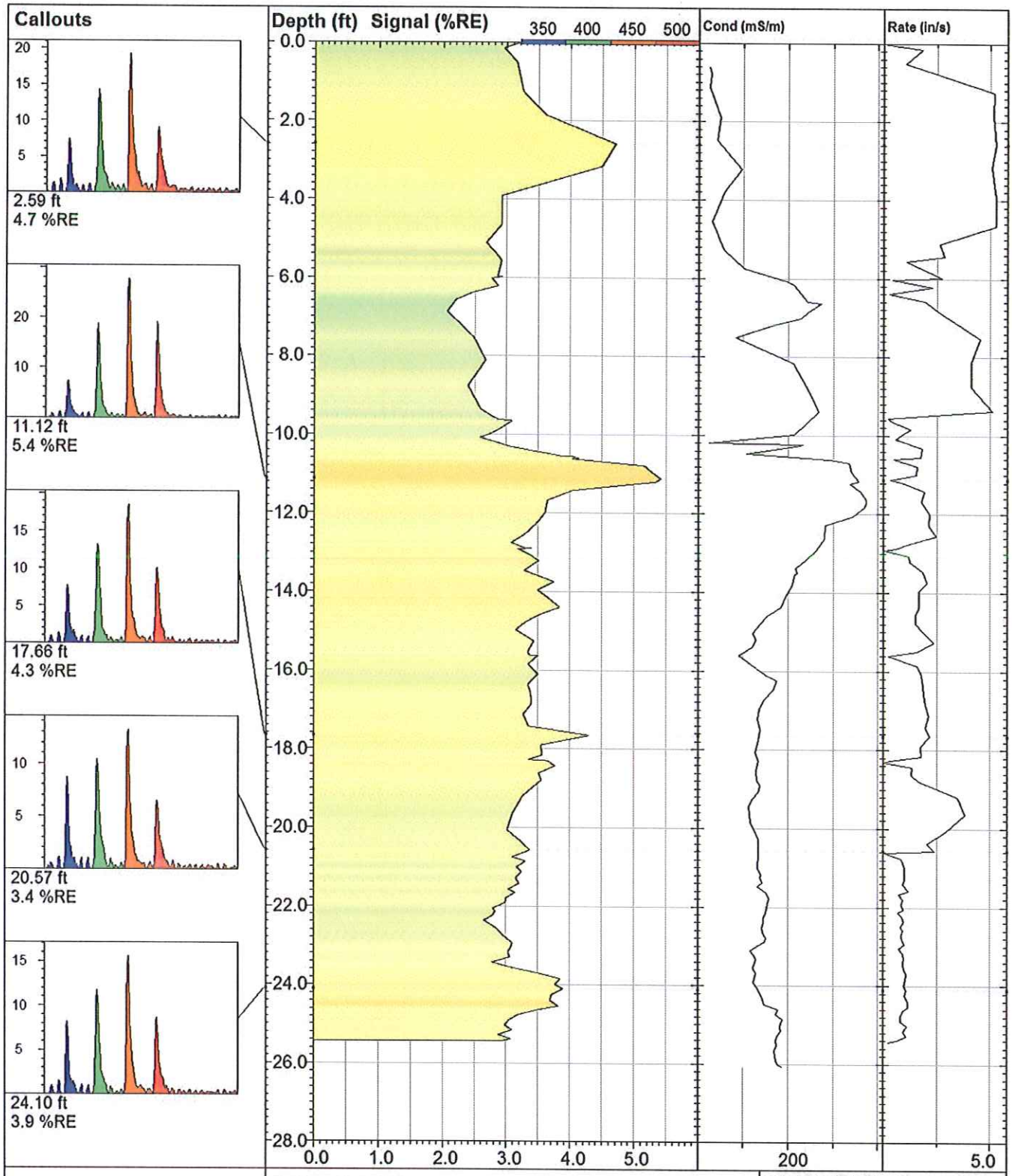
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.55 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **106.0 %RE @ 16.63 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 10:50 EDT**



RG-AC23		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.31 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.5 %RE @ 13.62 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 15:19 EDT**



RG-AC33		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.46 ft**
Client / Job: **Stanley / RG-AC33**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **206.0 %RE @ 15.93 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 14:47 MST**

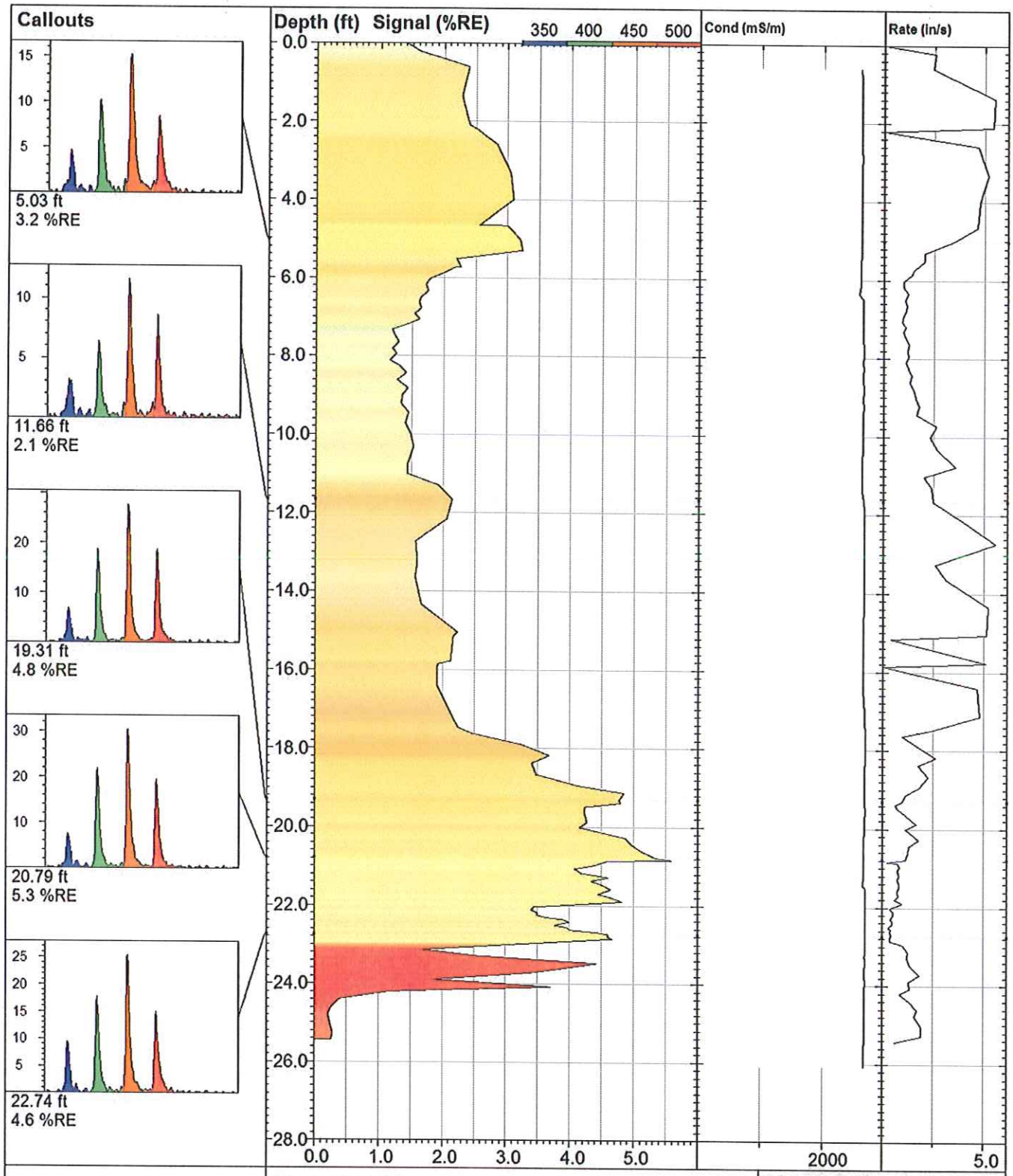


VIRONEX

RG-AC37

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.44 ft**
Client / Job: **Stanley / RG-AC37**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.4 %RE @ 11.12 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 11:00 MST**

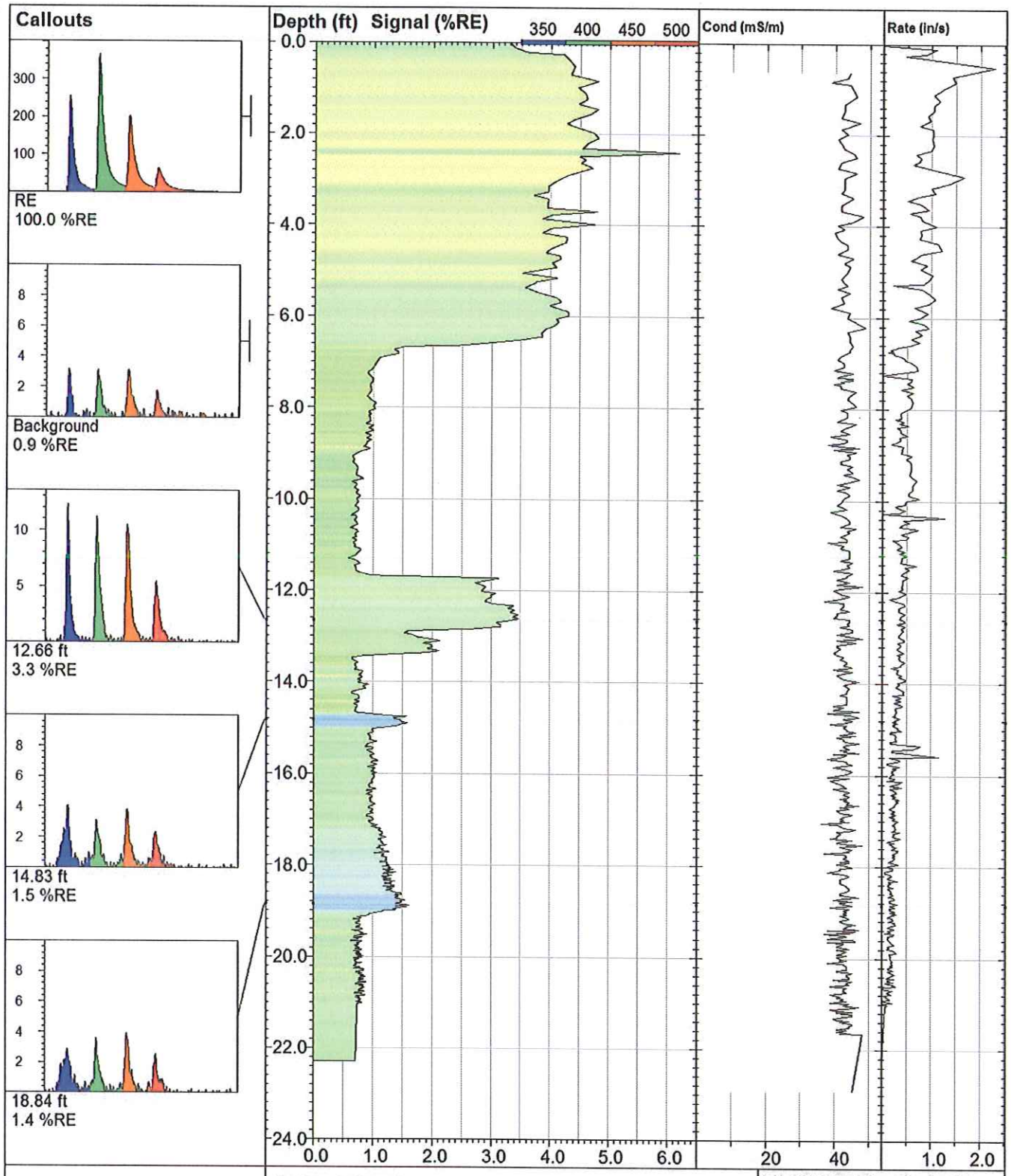


VIRONEX

RG-AC42

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.44 ft**
Client / Job: **Stanley / RG-AC42**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.6 %RE @ 20.84 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 16:10 MST**

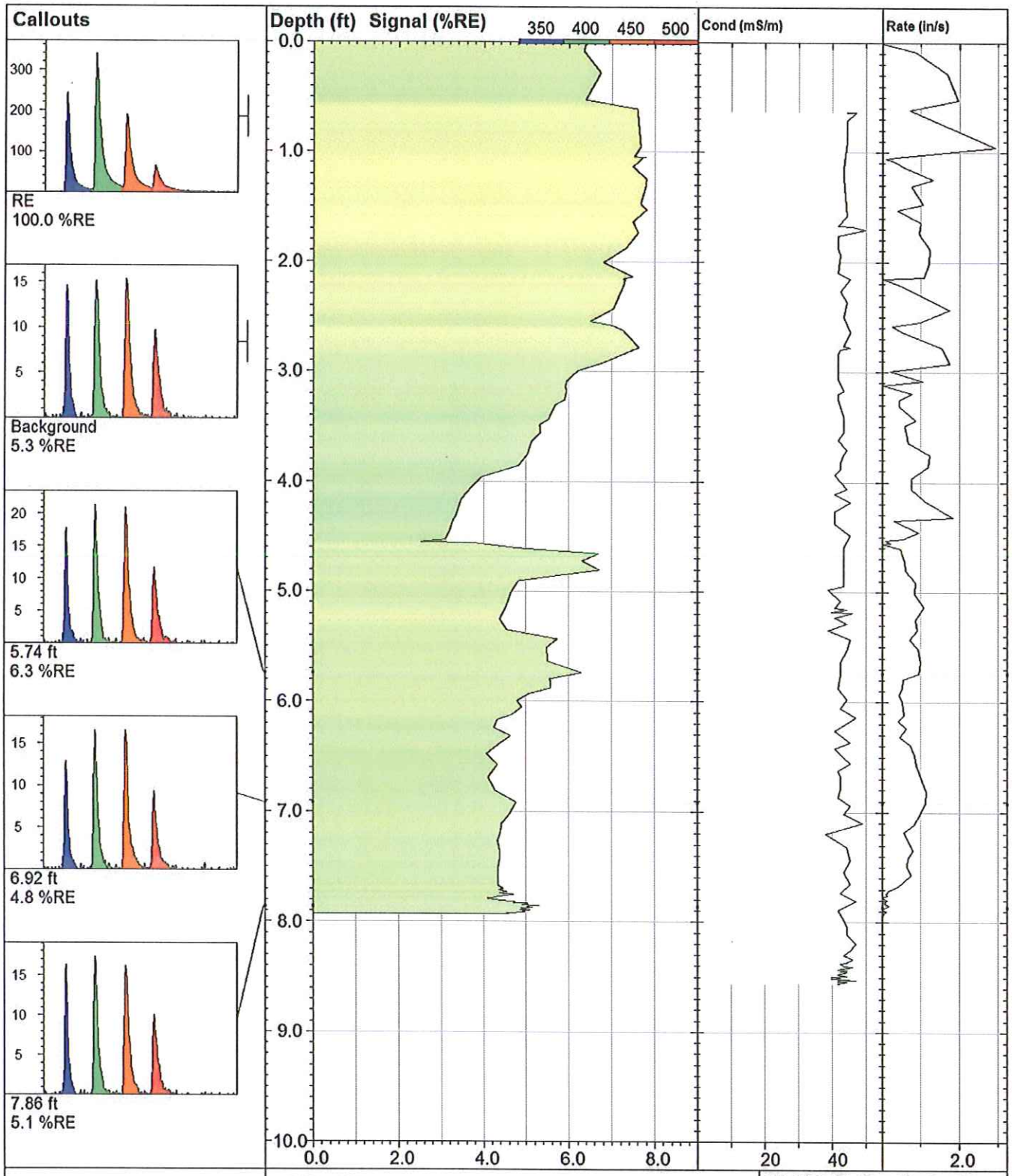


VIRONEX

RG-AD15

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.28 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.2 %RE @ 2.41 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-20 11:36 EDT**

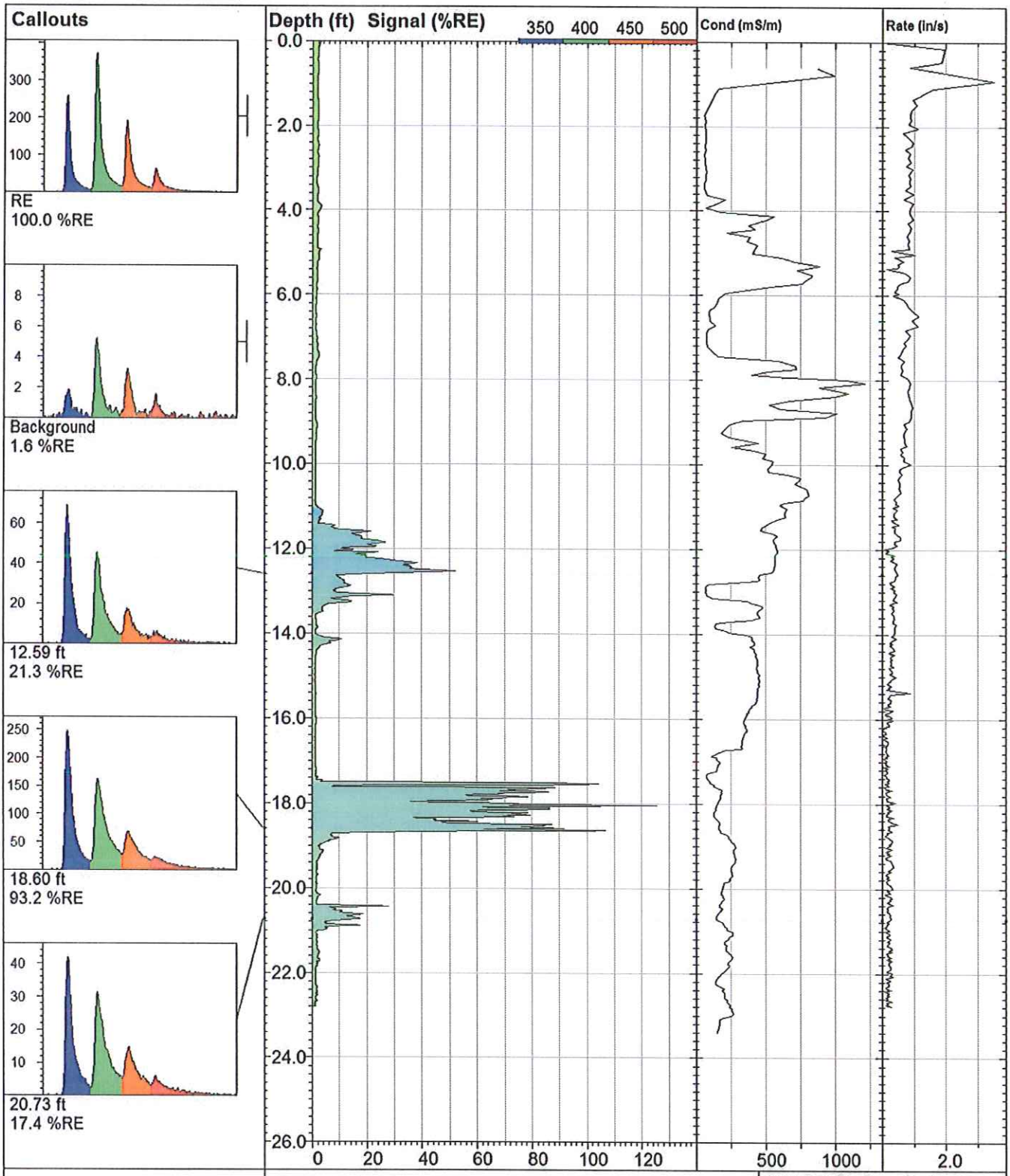


VIRONEX

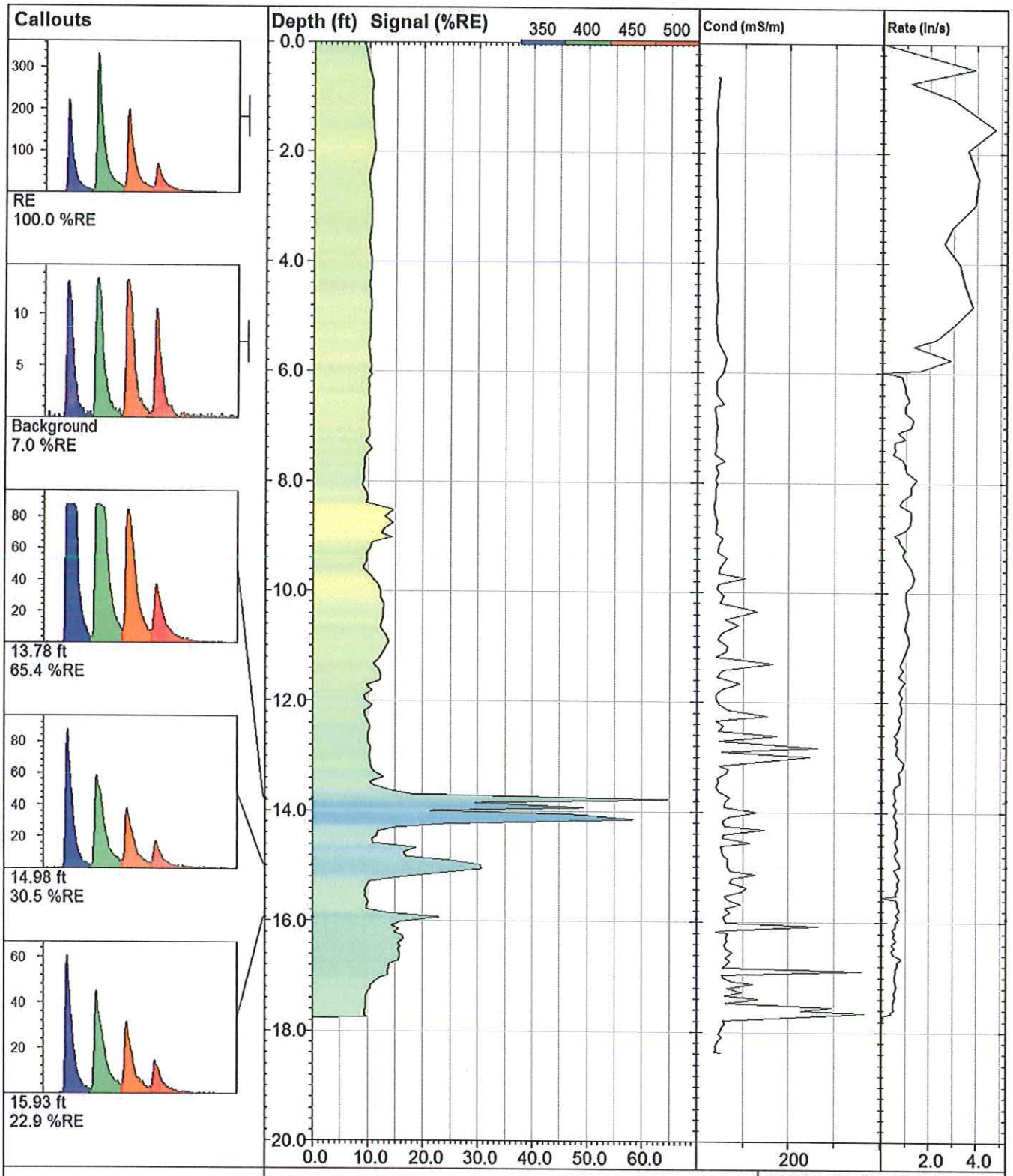
AD-17

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.93 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.8 %RE @ 1.53 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-19 15:24 EDT**



RG-AD18		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Reid Gardner LIF**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.79 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **127.2 %RE @ 18.04 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-08 07:57 EDT**

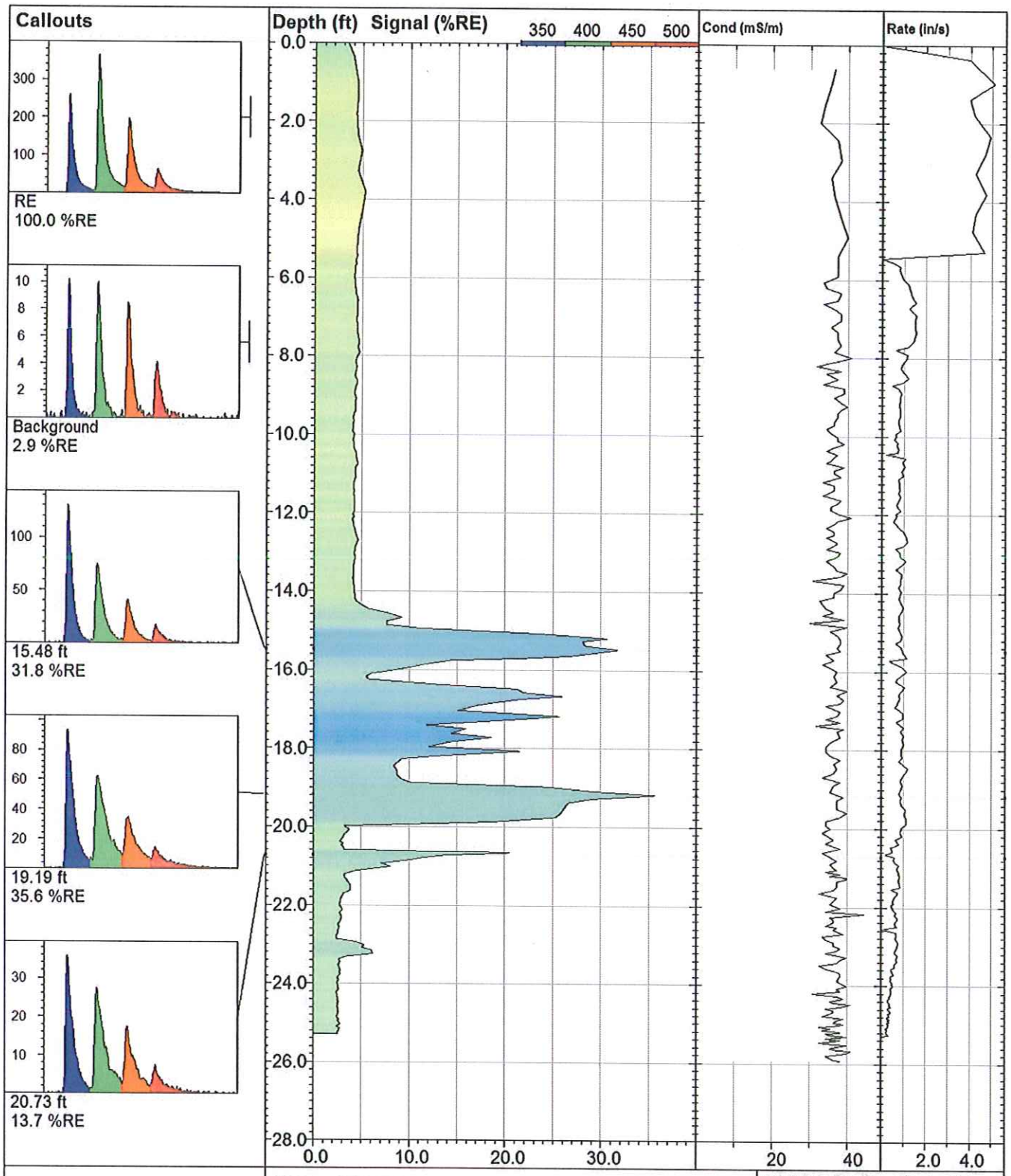


VIRONEX

RG-AD19

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.75 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **65.4 %RE @ 13.78 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 14:29 EDT**

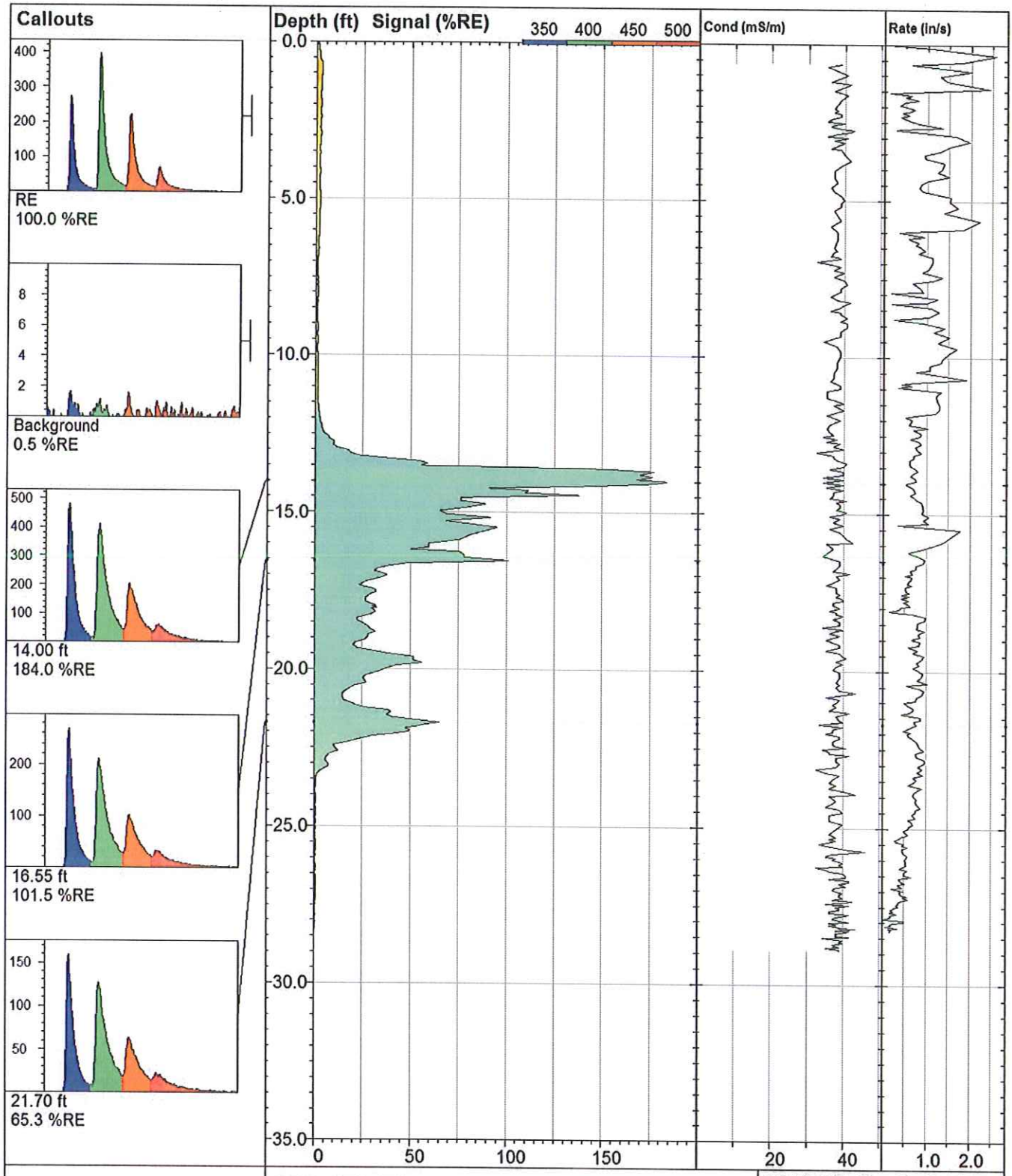


VIRONEX

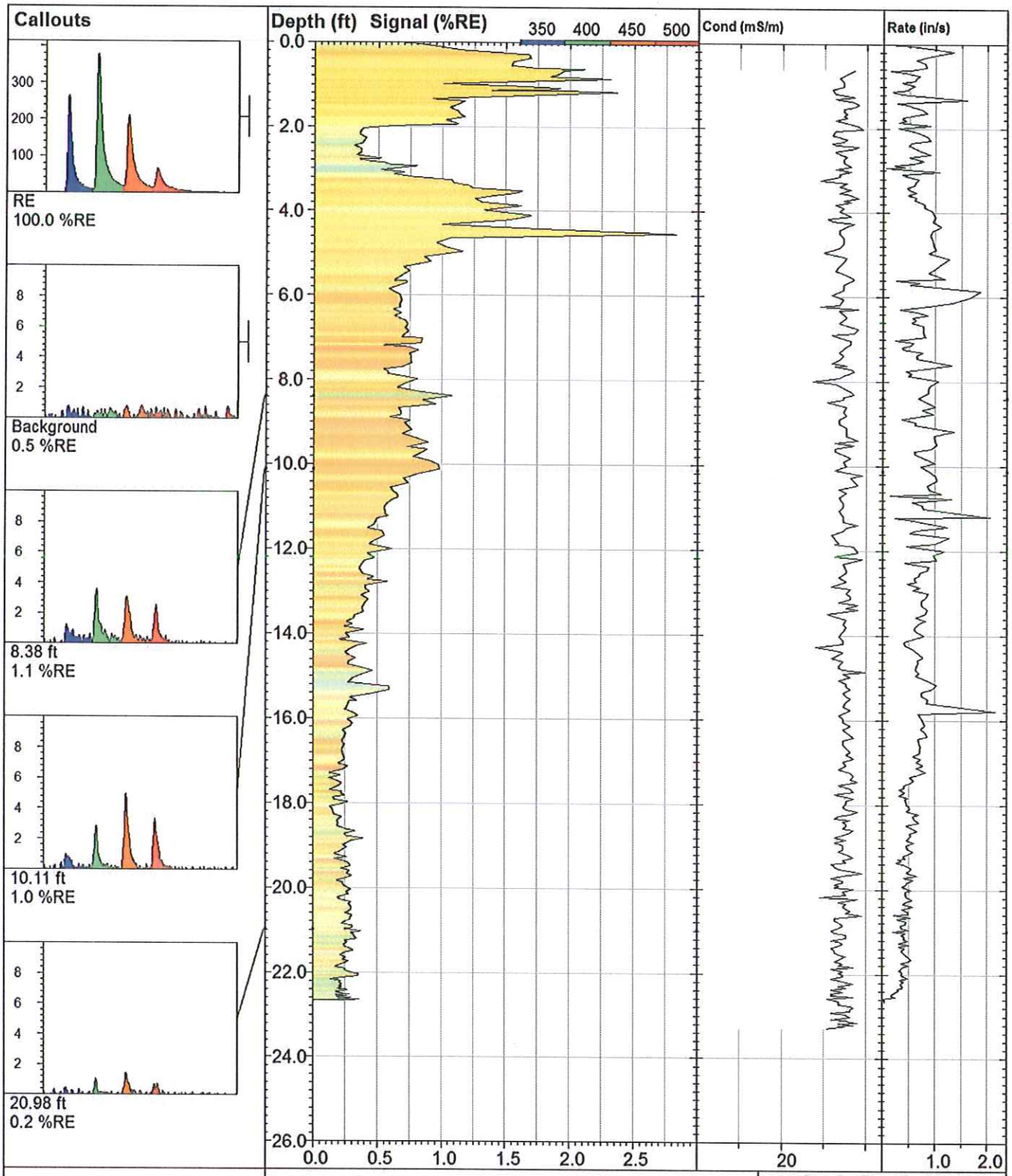
RG-AD20

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.29 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **35.6 %RE @ 19.19 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 07:42 EDT**



VIRONEX	**RG-AD22**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.27 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **184.0 %RE @ 14.00 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 10:09 EDT**

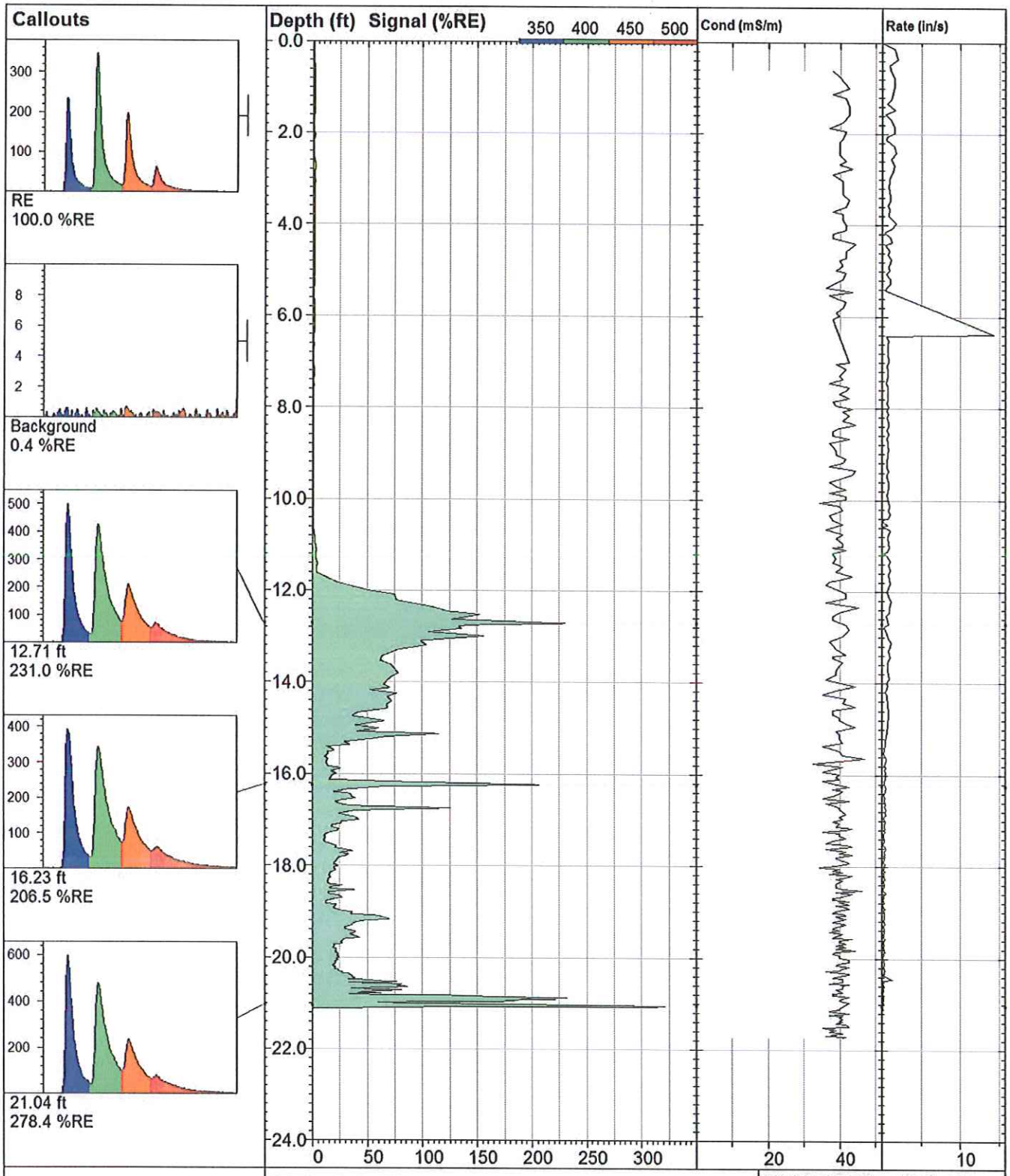


VIRONEX

RG-AD25

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.66 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.8 %RE @ 4.53 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 08:50 EDT**

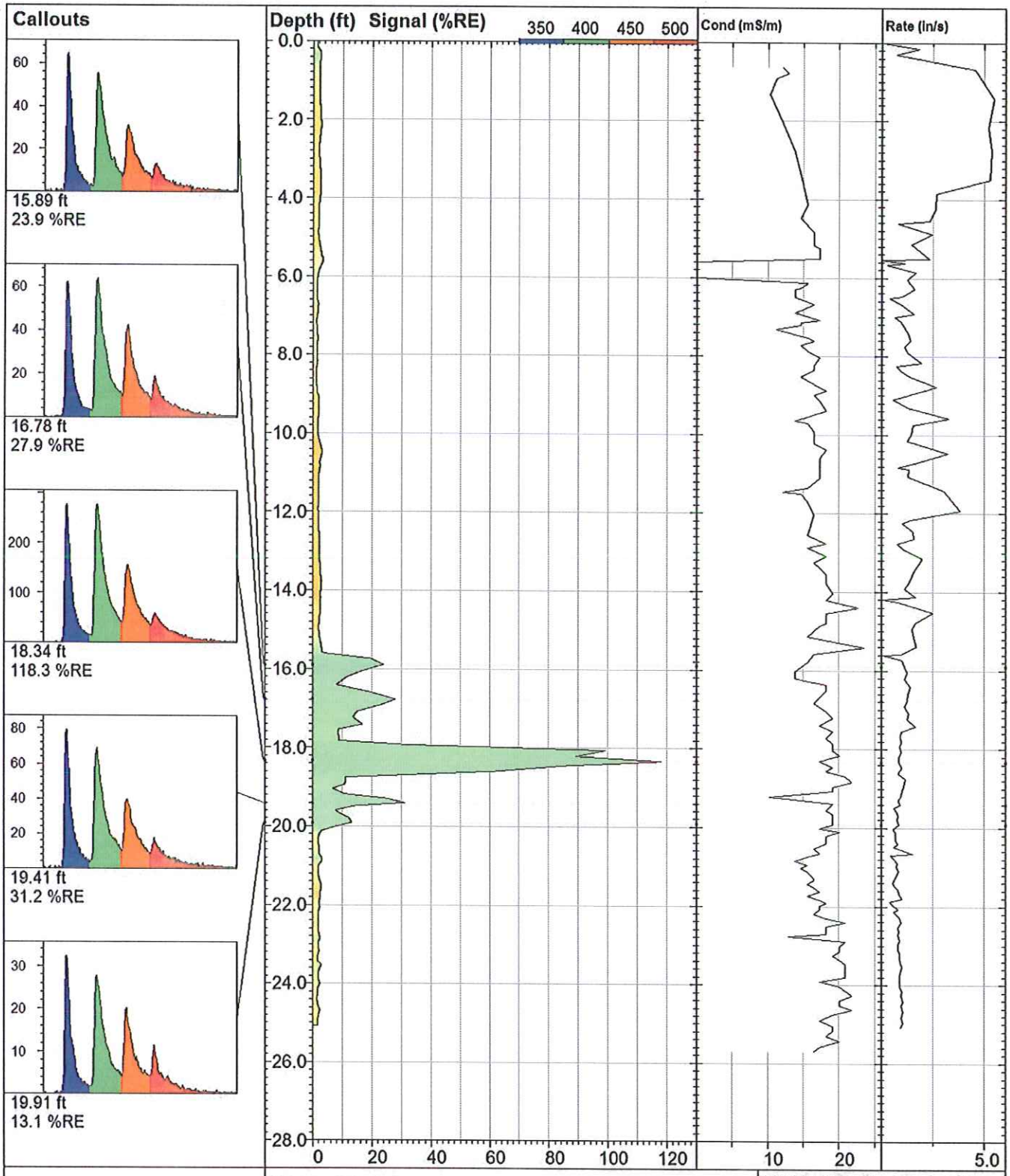


VIRONEX

RG-AD27

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.11 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **321.7 %RE @ 21.06 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 14:56 EDT**

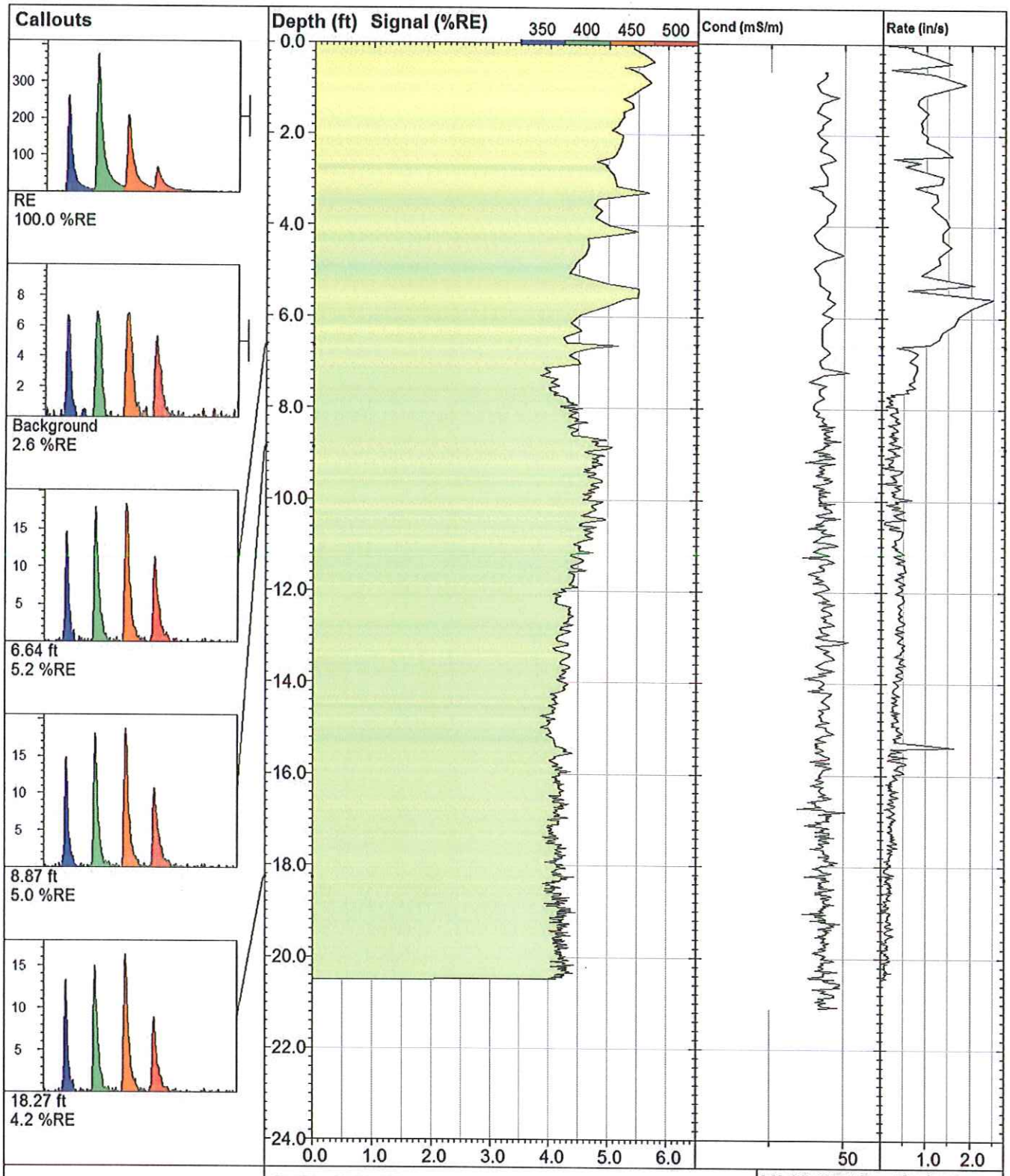


VIRONEX

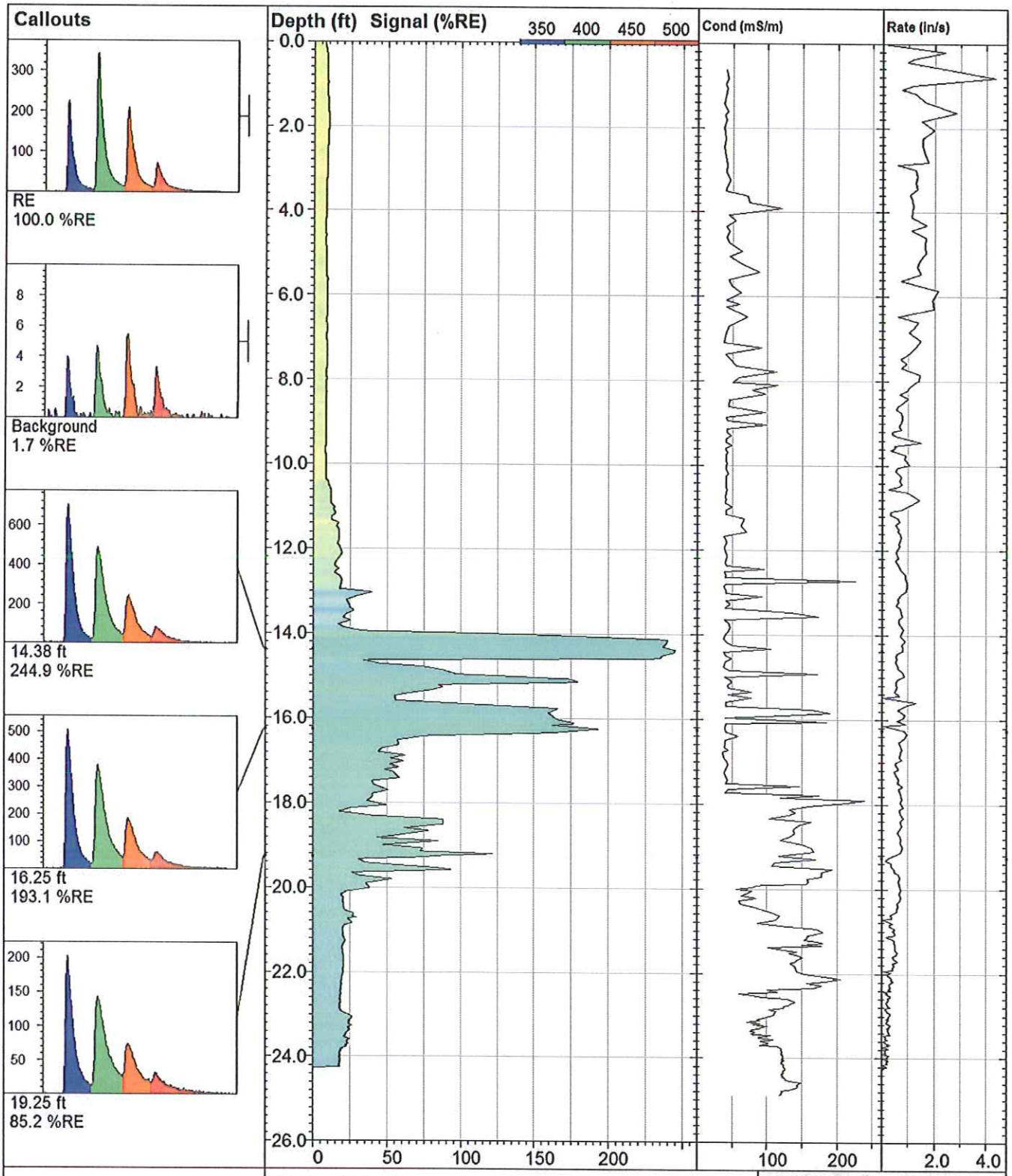
RG-AD35

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.08 ft**
Client / Job: **Stanley / RG-AD35**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **118.3 %RE @ 18.34 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 15:17 MST**



VIRONEX	**RG-AE17**	**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.49 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.8 %RE @ 0.41 ft**
	Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-19 15:55 EDT**

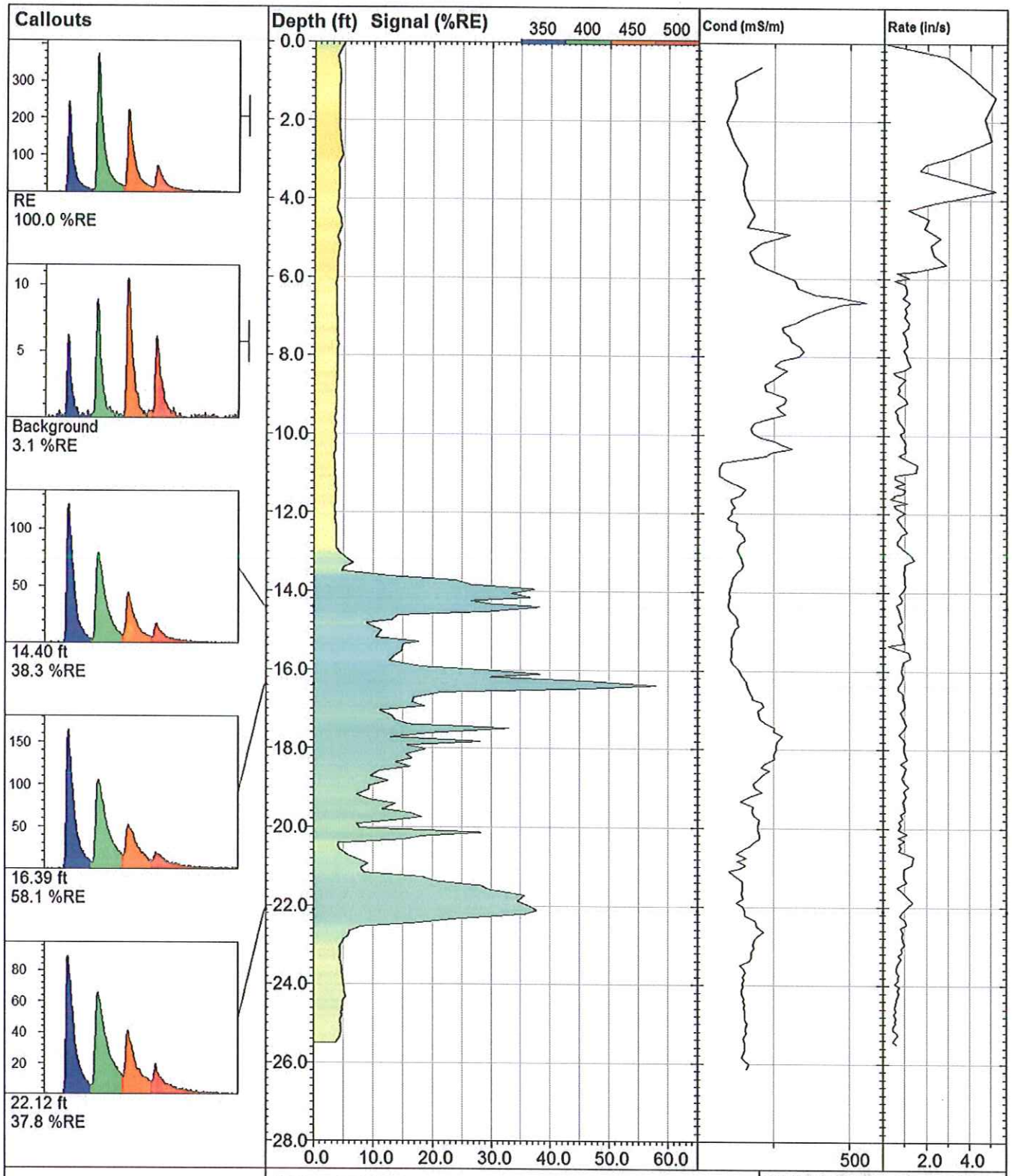


VIRONEX

RG-AE19

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.25 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **244.9 %RE @ 14.38 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 12:44 EDT**

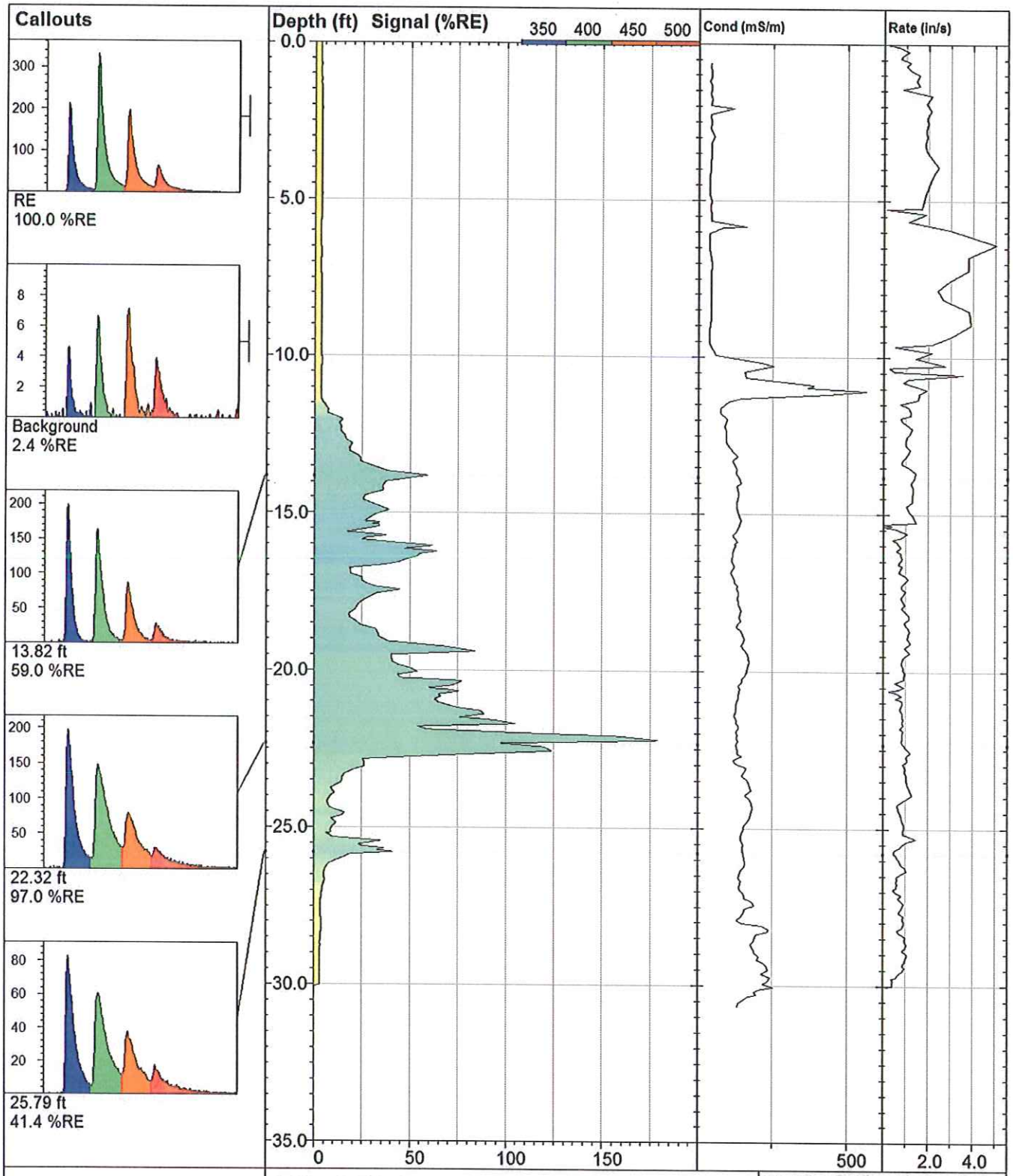


VIRONEX

RG-AE20

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.50 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **58.1 %RE @ 16.39 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 10:57 EDT**

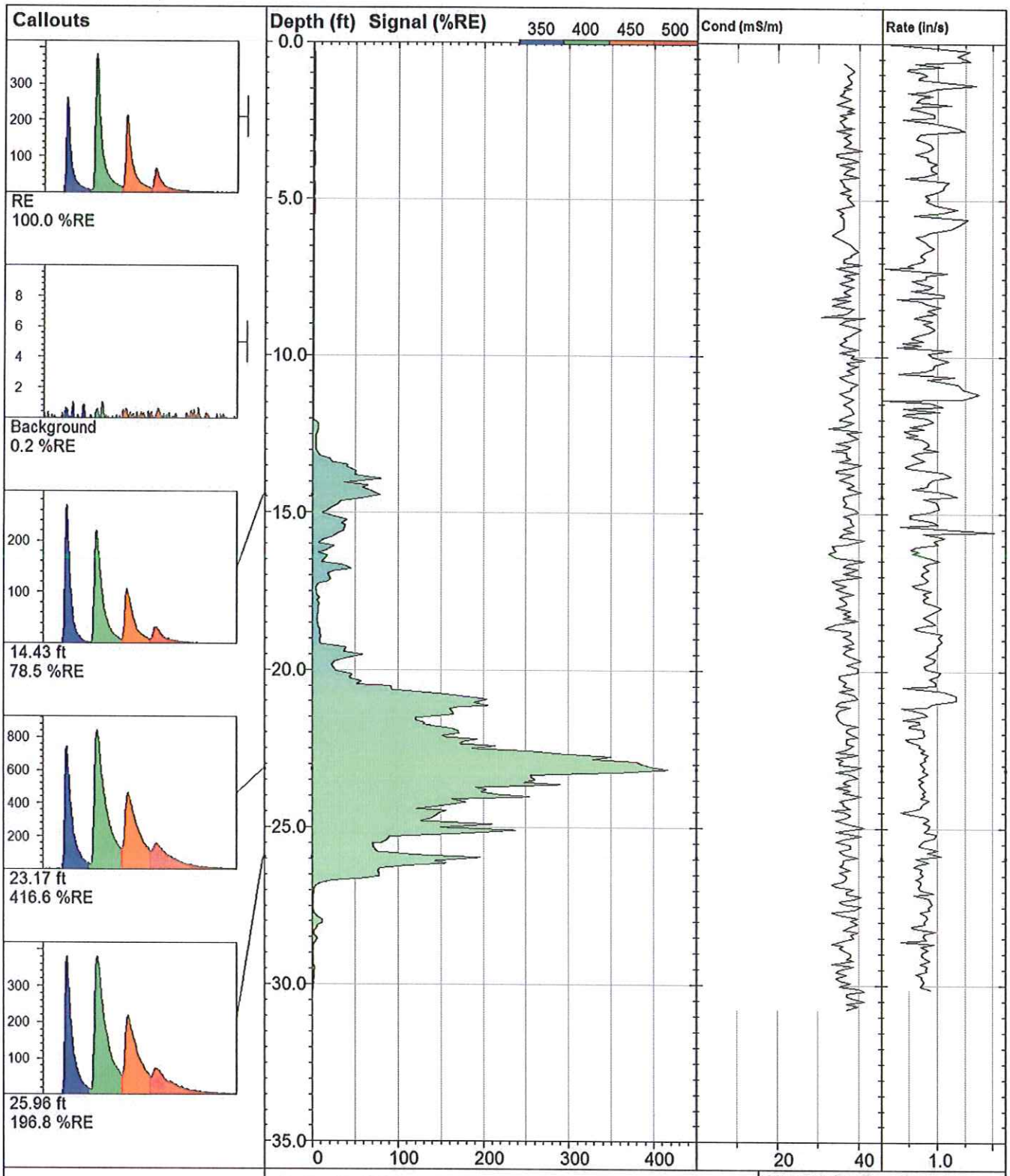


VIRONEX

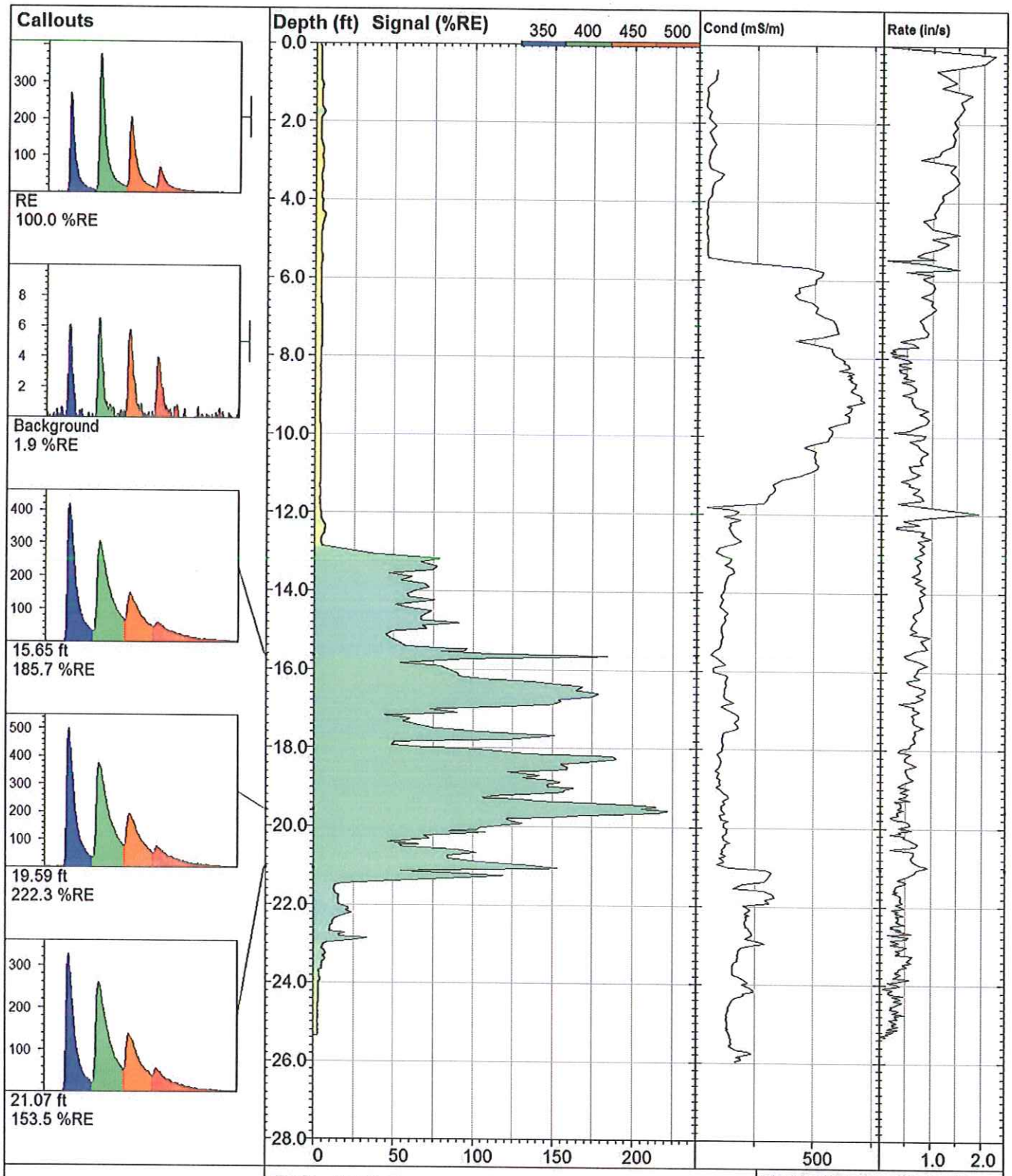
RG-AE21

UVOST By Dakota
www.DakotaTechnologies.com

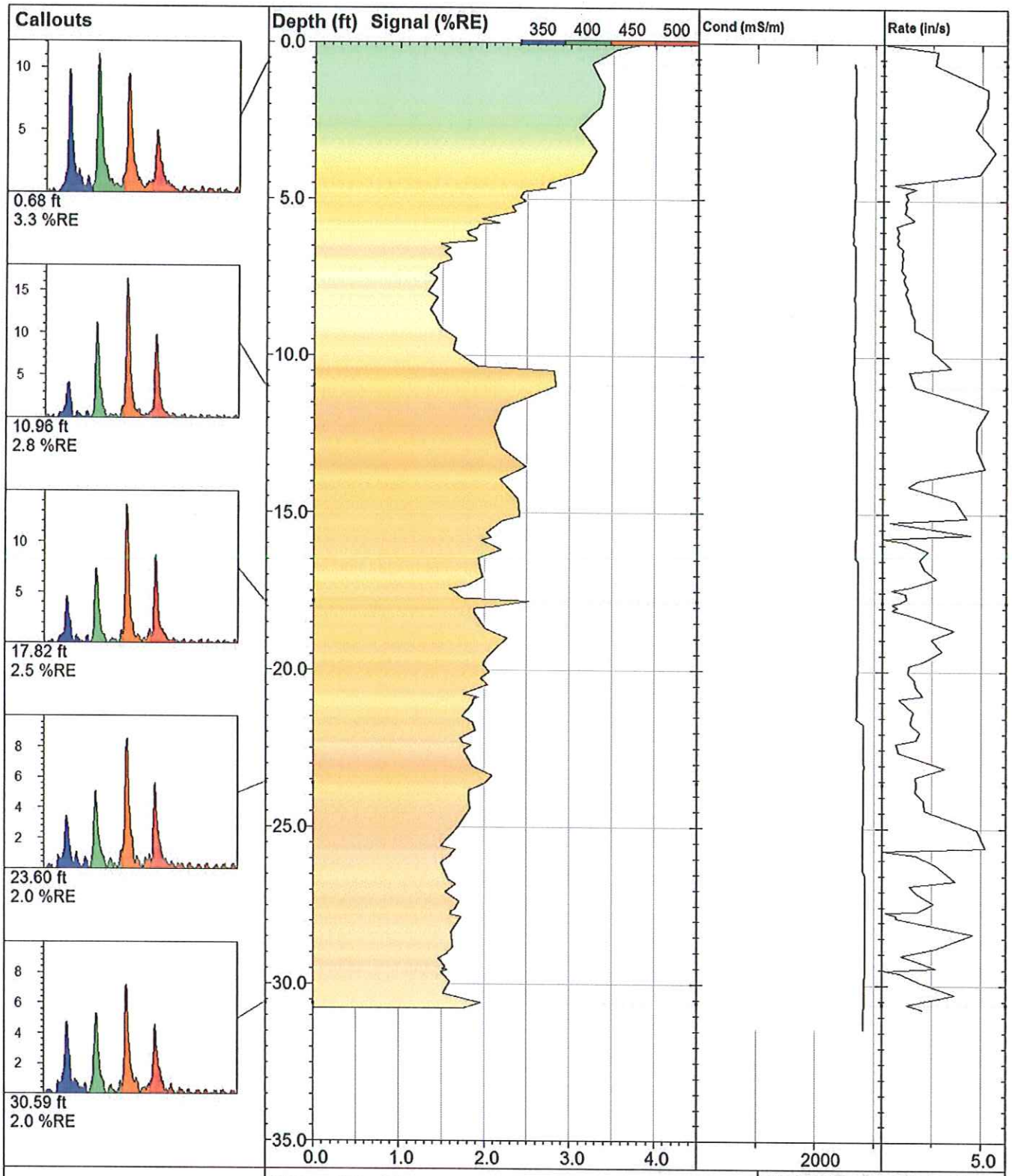
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **179.5 %RE @ 22.22 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 10:23 EDT**



VIRONEX	**RG-AE23**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.15 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **416.6 %RE @ 23.16 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 15:51 EDT**



VIRONEX	**RG-AE29**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV ENERGY**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.34 ft**
	Client / Job: **STANLEY /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **222.3 %RE @ 19.59 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 10:36 EDT**

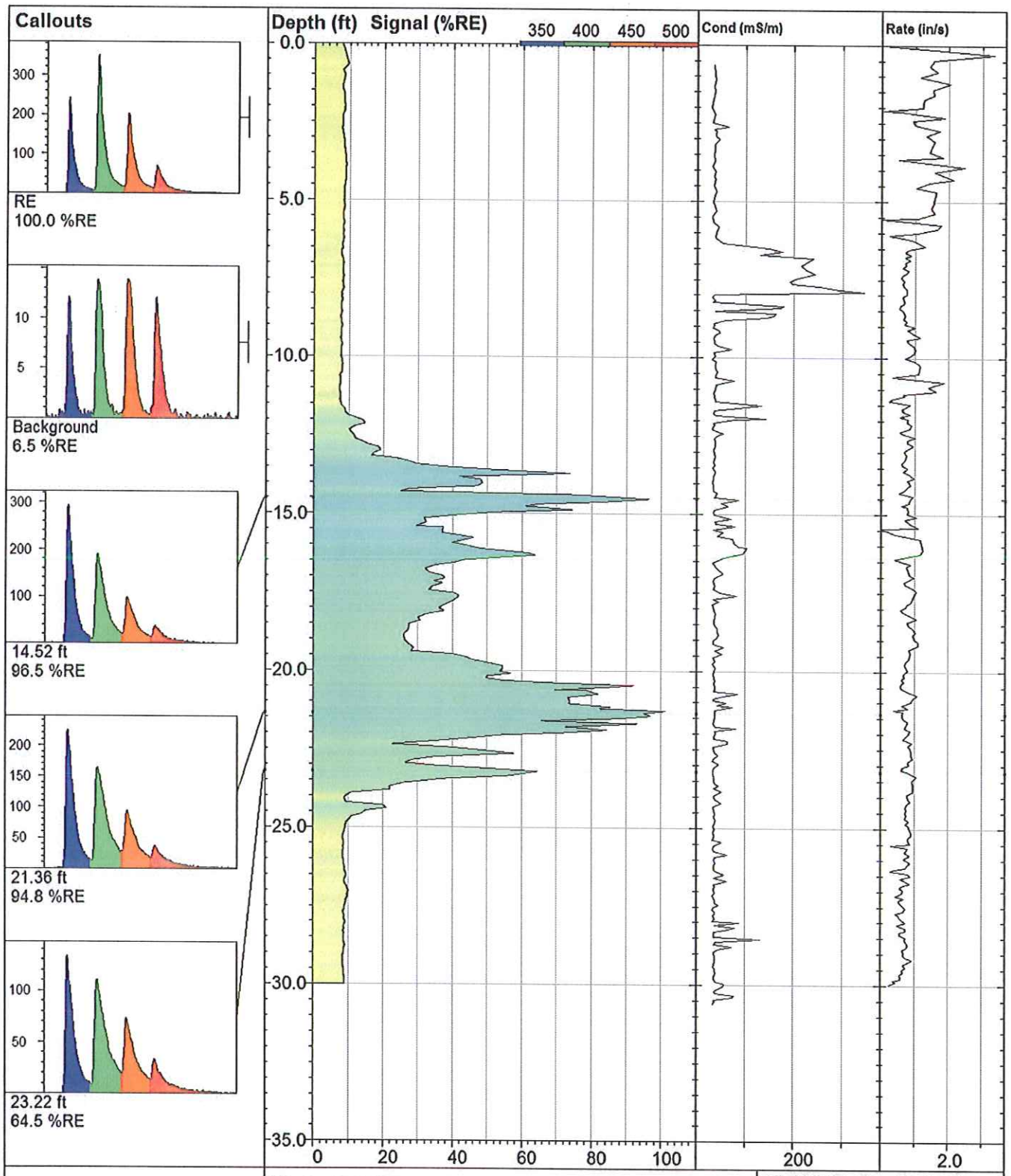


VIRONEX

RG-AE42

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.77 ft**
Client / Job: **Stanley / RG-AE42**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.9 %RE @ 0.01 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 15:49 MST**

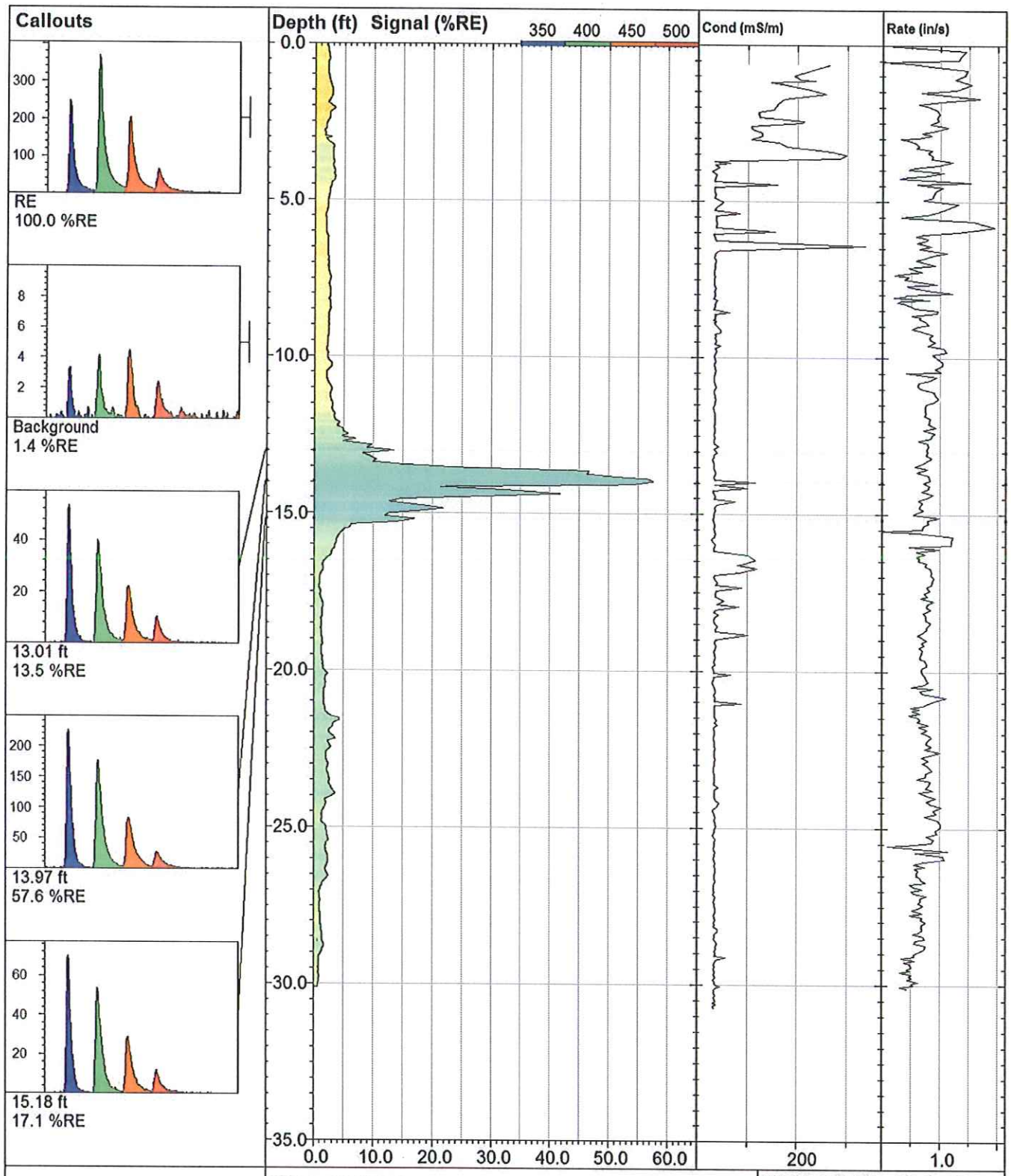


VIRONEX

RG-AF21

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **101.1 %RE @ 21.29 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 09:23 EDT**

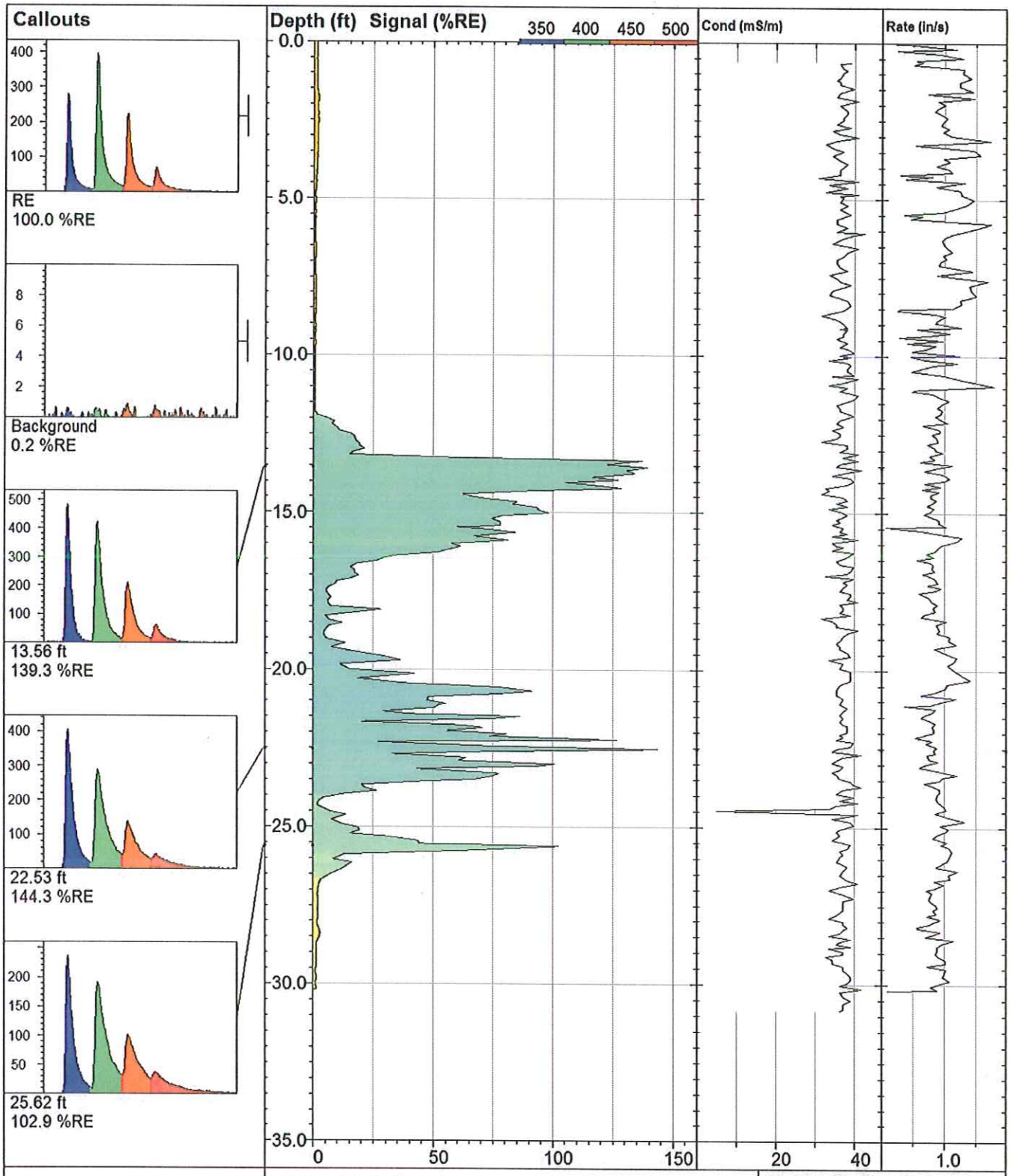


VIRONEX

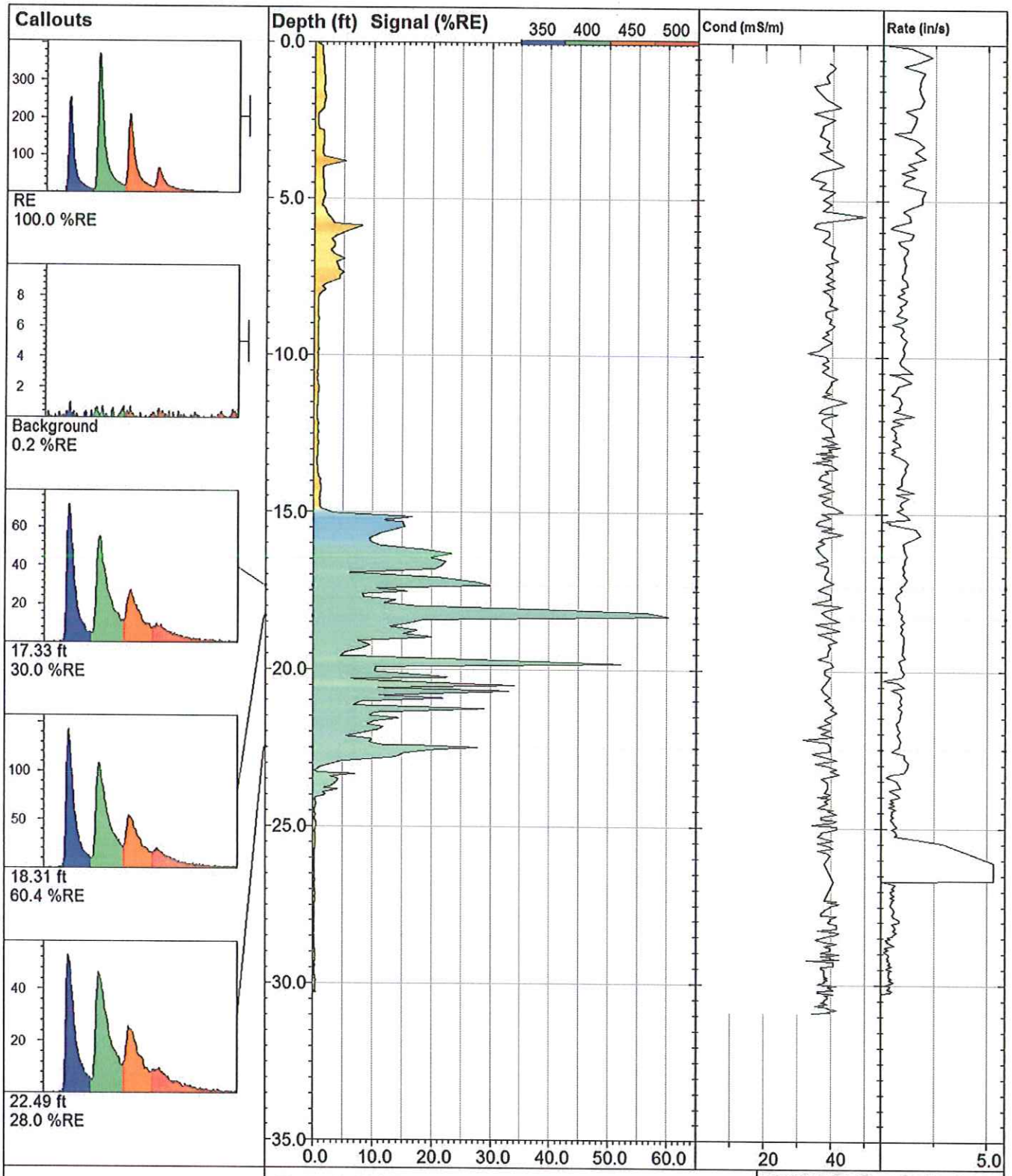
RG-AF22

UVOST By Dakota
www.DakotaTechnologies.com

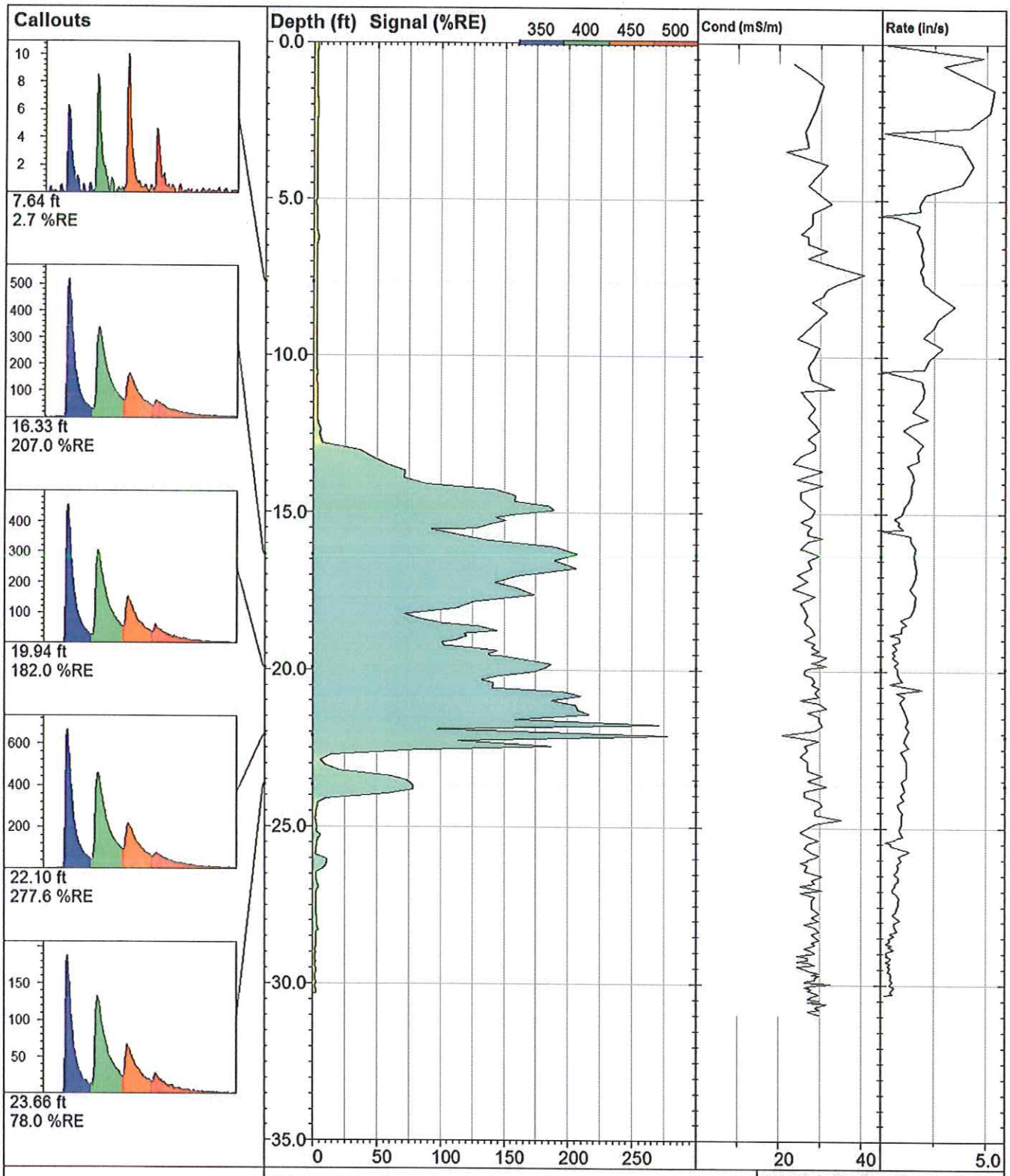
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.11 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **57.6 %RE @ 13.97 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 08:18 EDT**



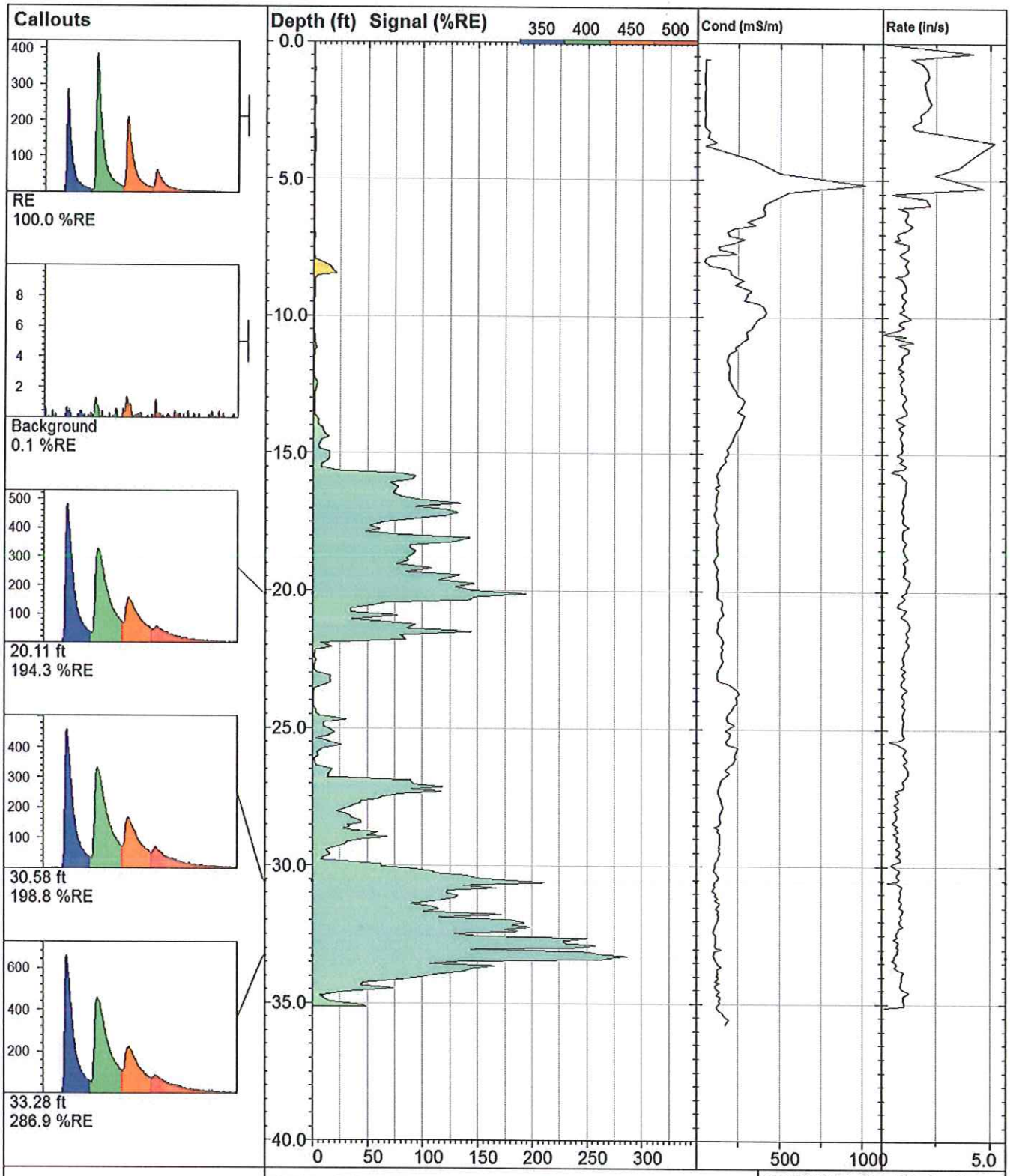
RG-AF24		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.18 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **144.3 %RE @ 22.53 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 16:30 EDT**



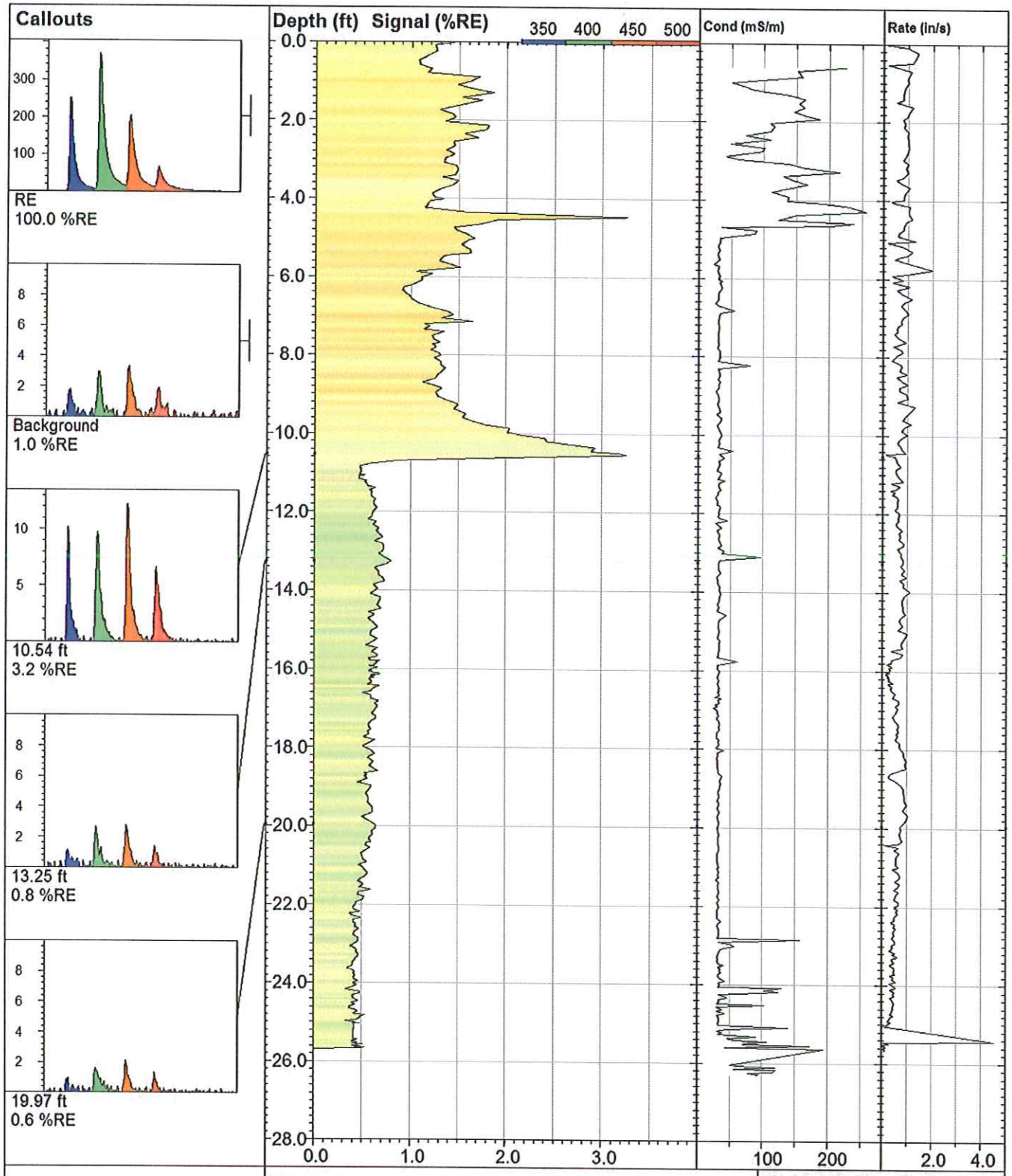
RG-AF26		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.28 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **60.4 %RE @ 18.31 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 16:45 EDT**



RG-AF32		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.31 ft**
Client / Job: **Stanley / RG-AF32**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **277.6 %RE @ 22.10 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 11:45 MST**



VIRONEX	**RG-AF34**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **35.14 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **286.9 %RE @ 33.28 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-27 15:12 EDT**

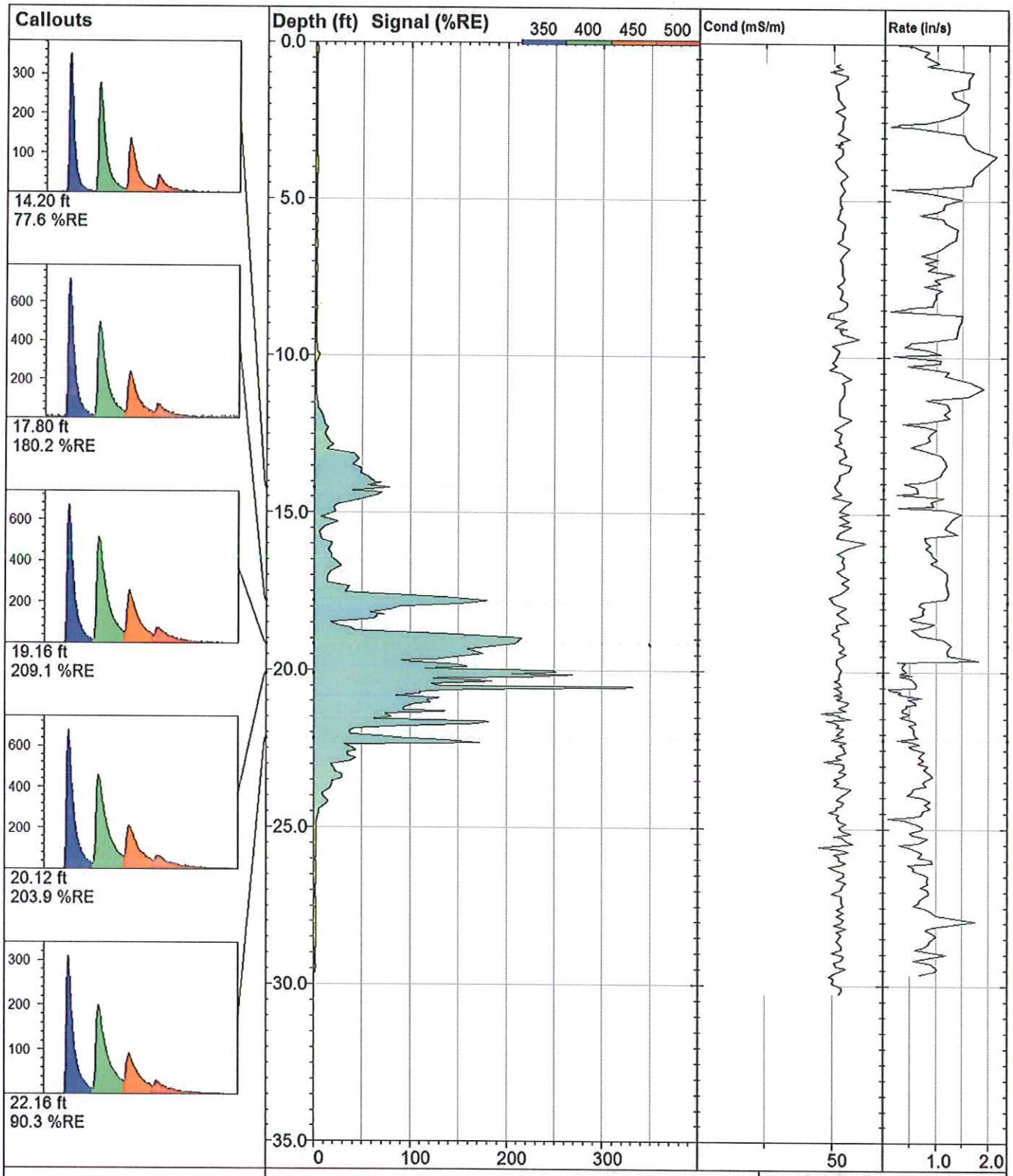


VIRONEX

RG-AG23

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.68 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.3 %RE @ 4.48 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 07:37 EDT**

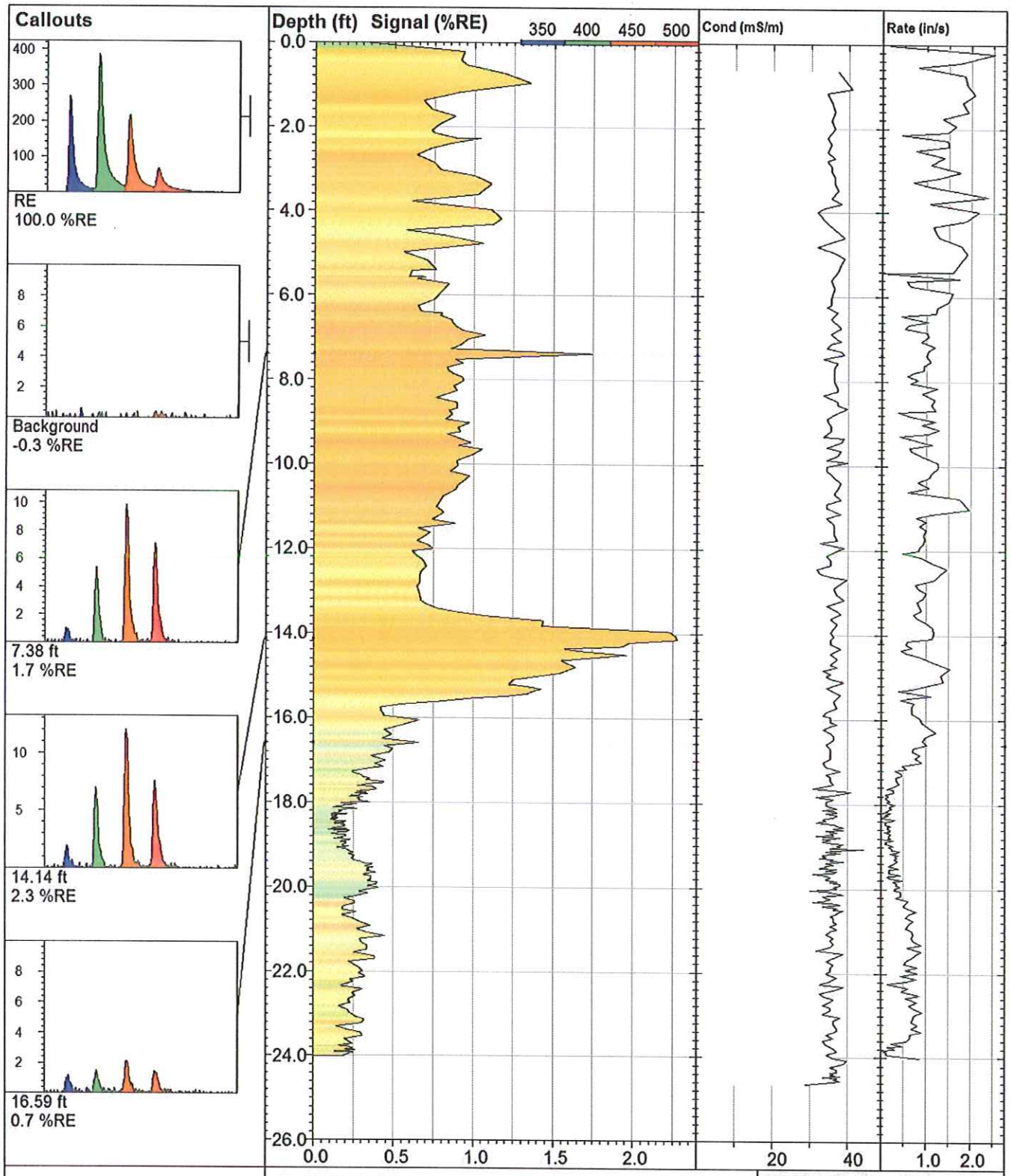


VIRONEX

RG-AG25

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **29.64 ft**
Client / Job: **Stanley / RG-AG25**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **332.4 %RE @ 20.53 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-01 11:47 MST**

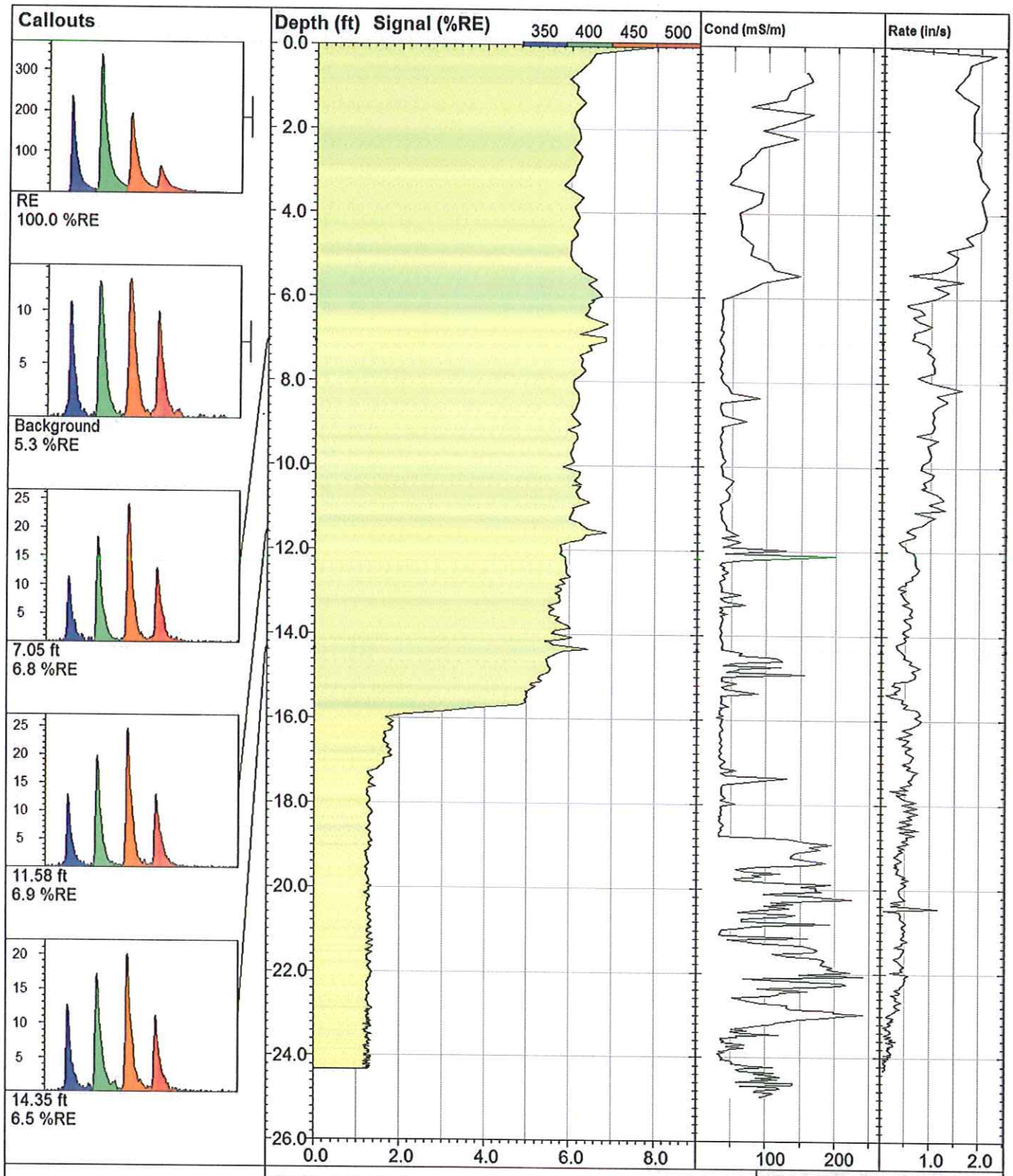


VIRONEX

RG-AG27

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.01 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.3 %RE @ 14.14 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 09:28 EDT**

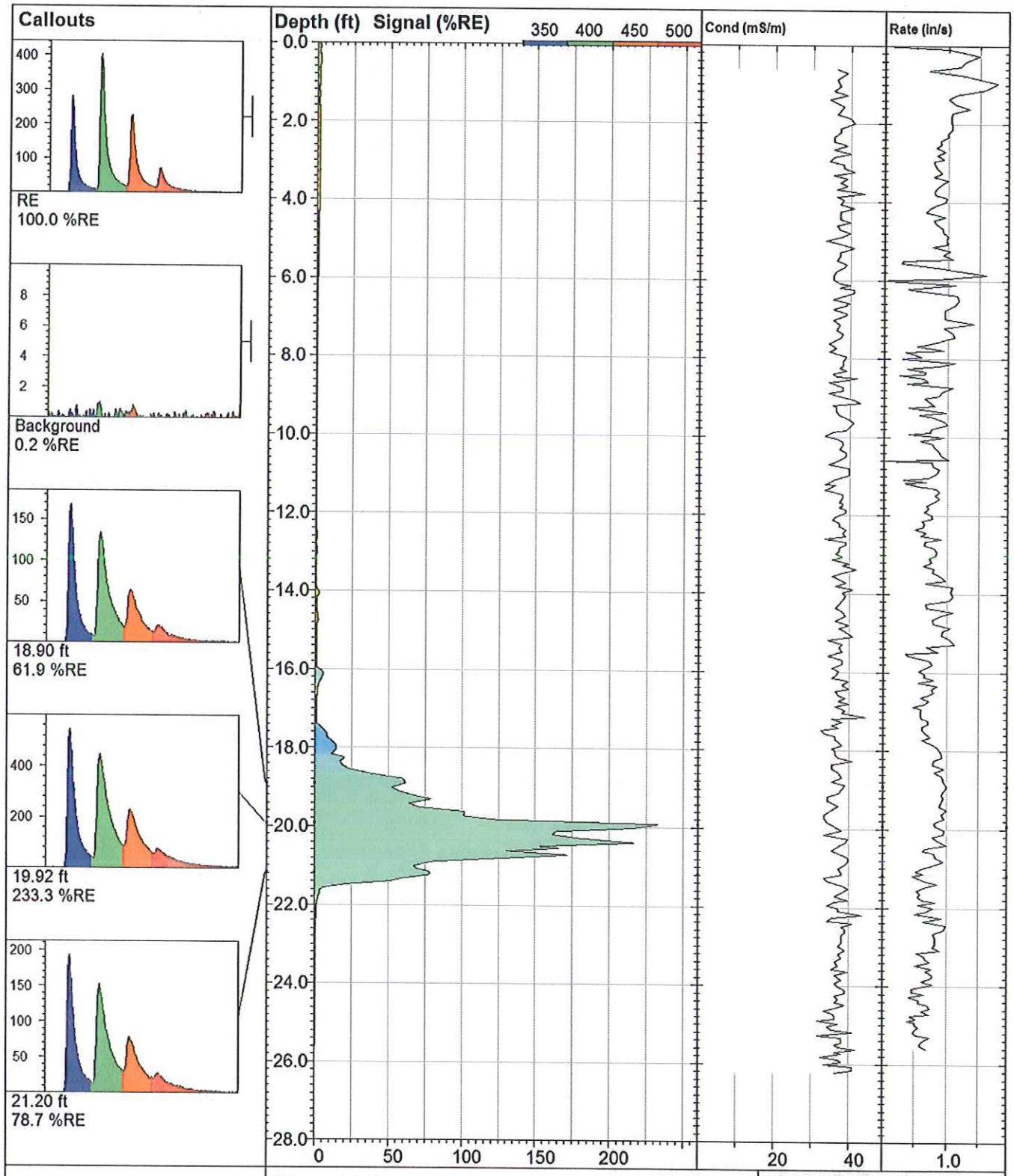


VIRONEX

RG-AH21

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.32 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.3 %RE @ 0.01 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-22 08:34 EDT**

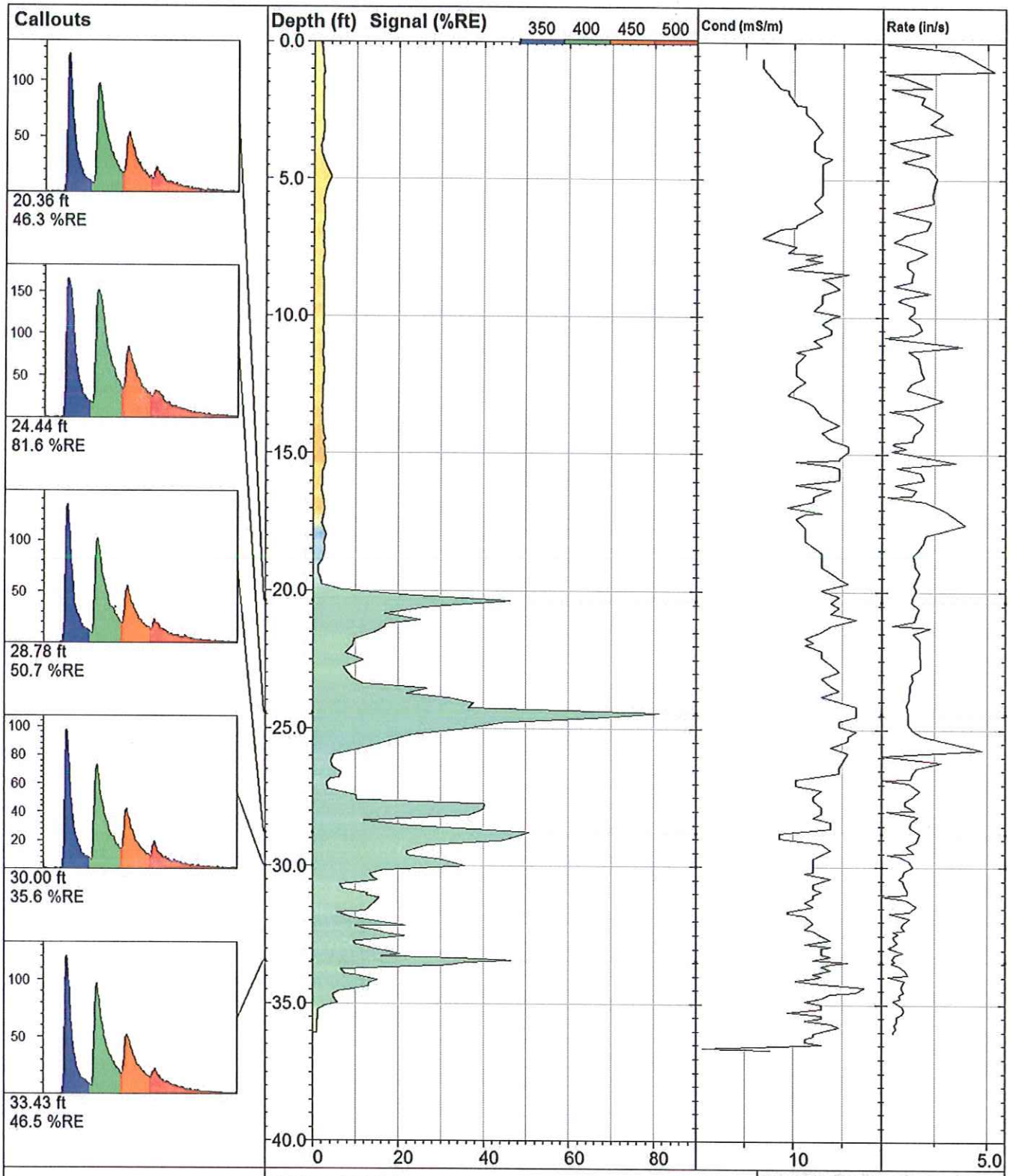


VIRONEX

RG-AH24

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.61 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **233.3 %RE @ 19.92 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-25 17:09 EDT**

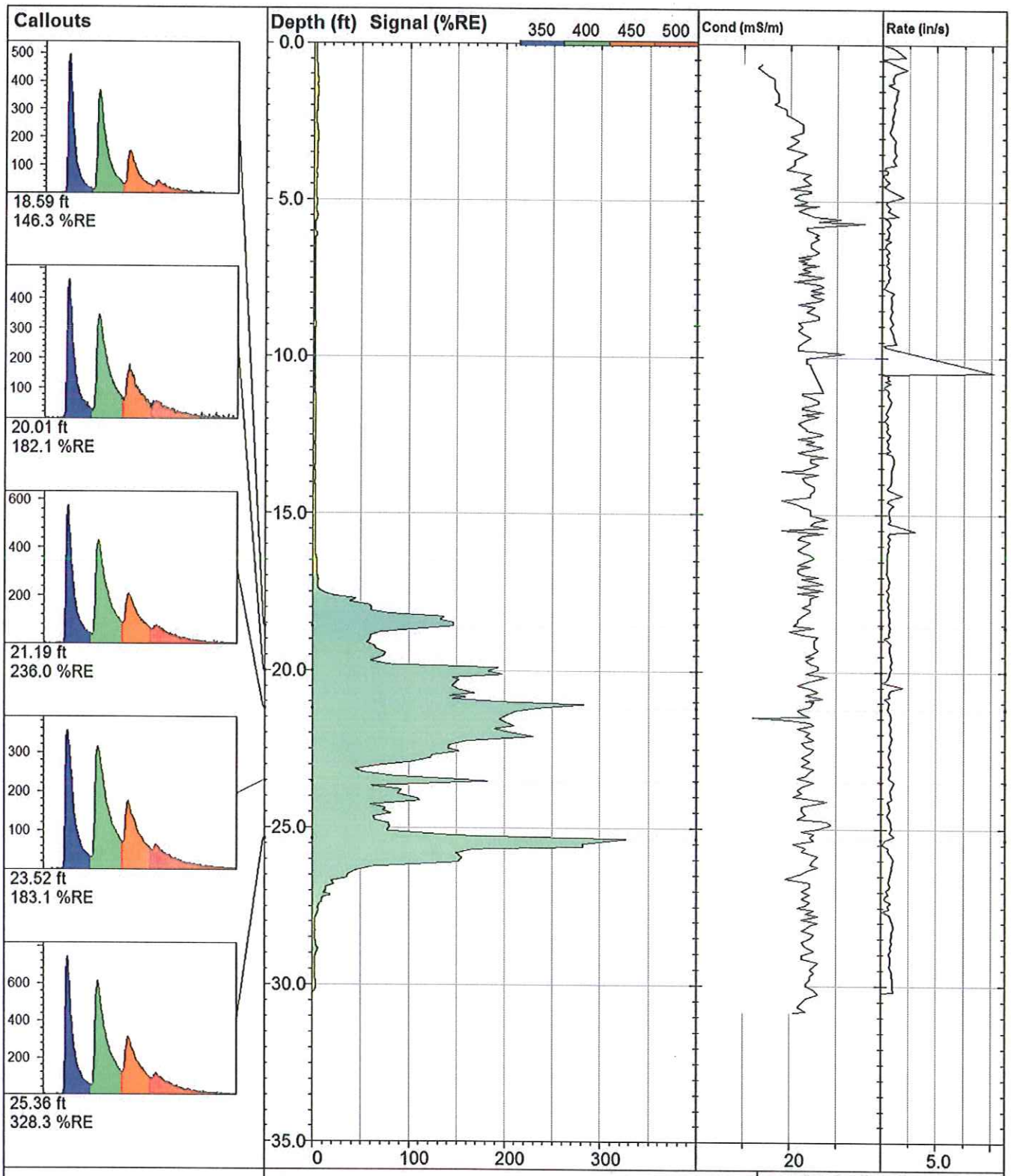


VIRONEX

RG-AH32

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **36.05 ft**
Client / Job: **Stanley / RG-AH32**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **81.6 %RE @ 24.44 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 14:18 MST**

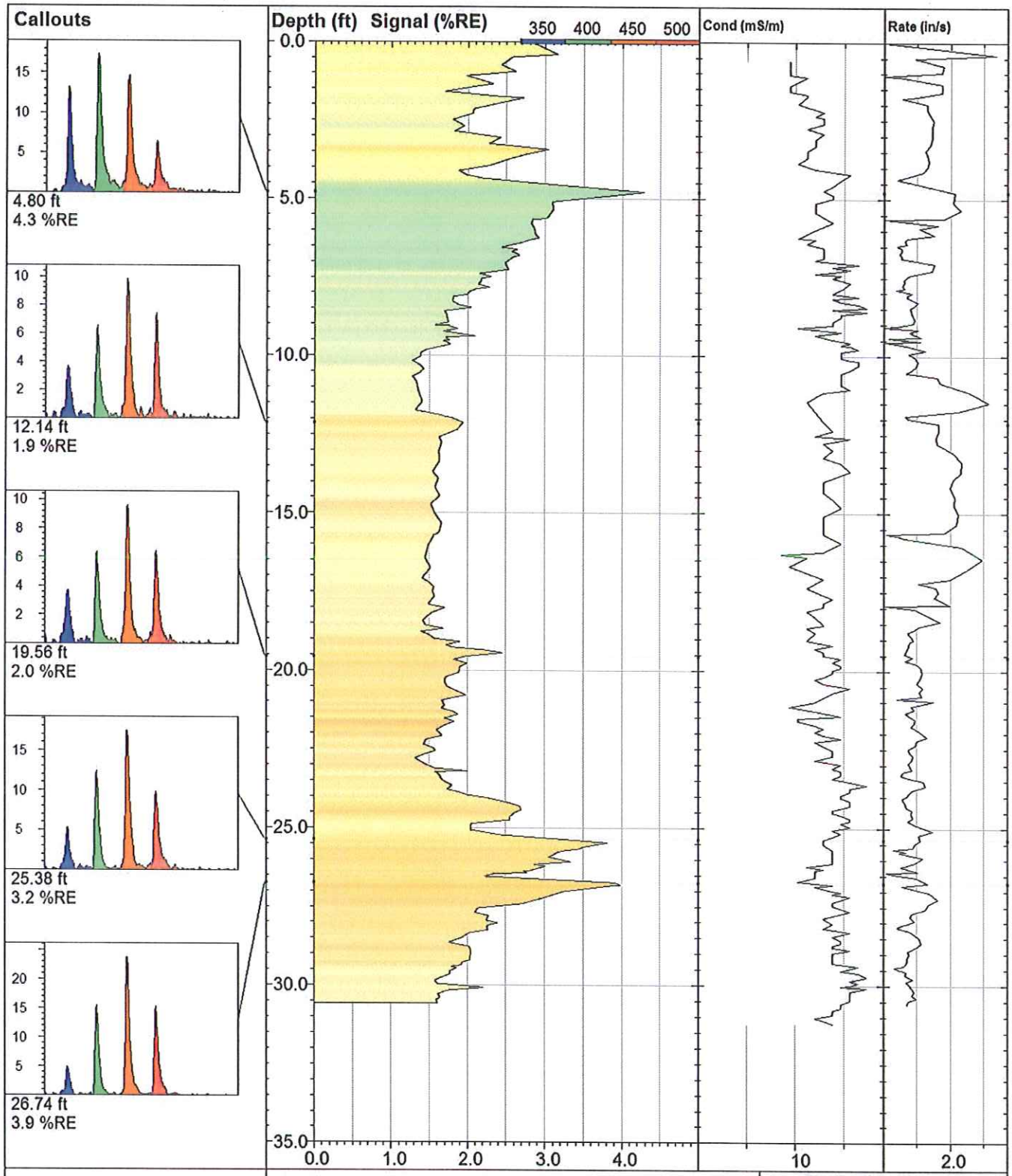


VIRONEX

RG-AH37

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.22 ft**
Client / Job: **Stanley / RG-AH37**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **328.3 %RE @ 25.35 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-02 08:35 MST**

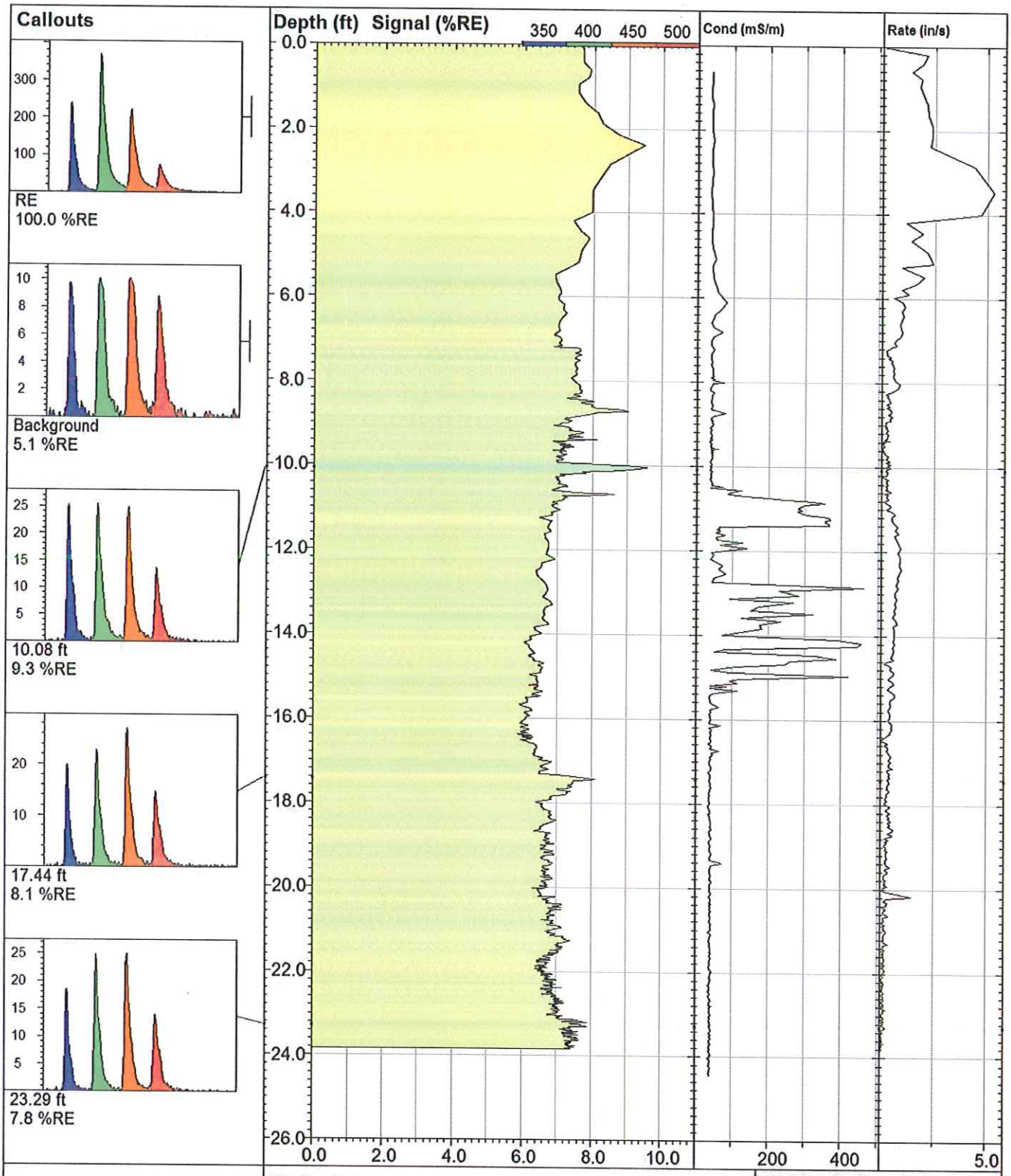


VIRONEX

RG-AH42

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.58 ft**
Client / Job: **Stanley / RG-AH42**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **4.3 %RE @ 4.80 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-03 11:25 MST**

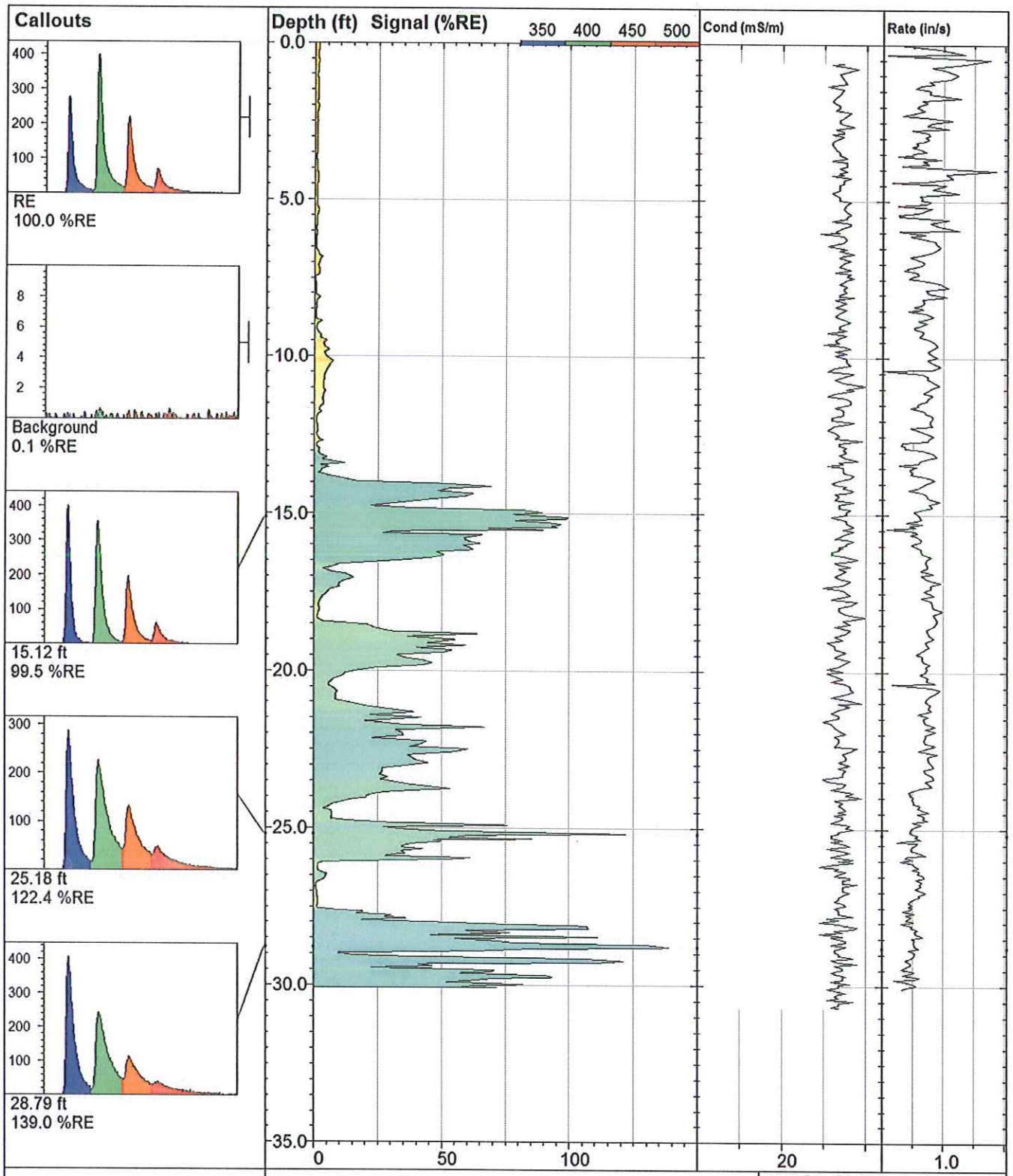


VIRONEX

RG-AI20

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.83 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.6 %RE @ 10.05 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-21 11:46 EDT**

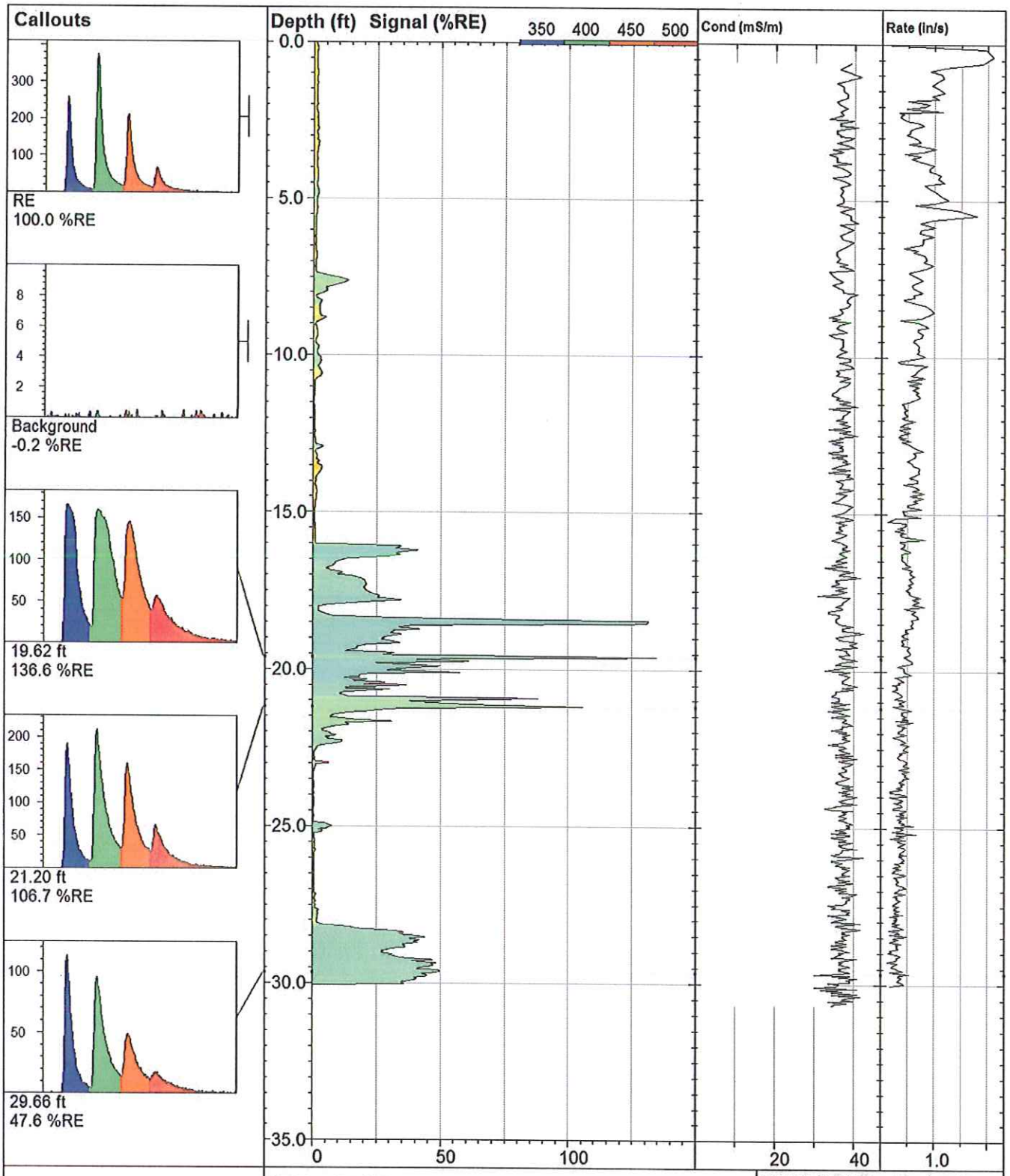


VIRONEX

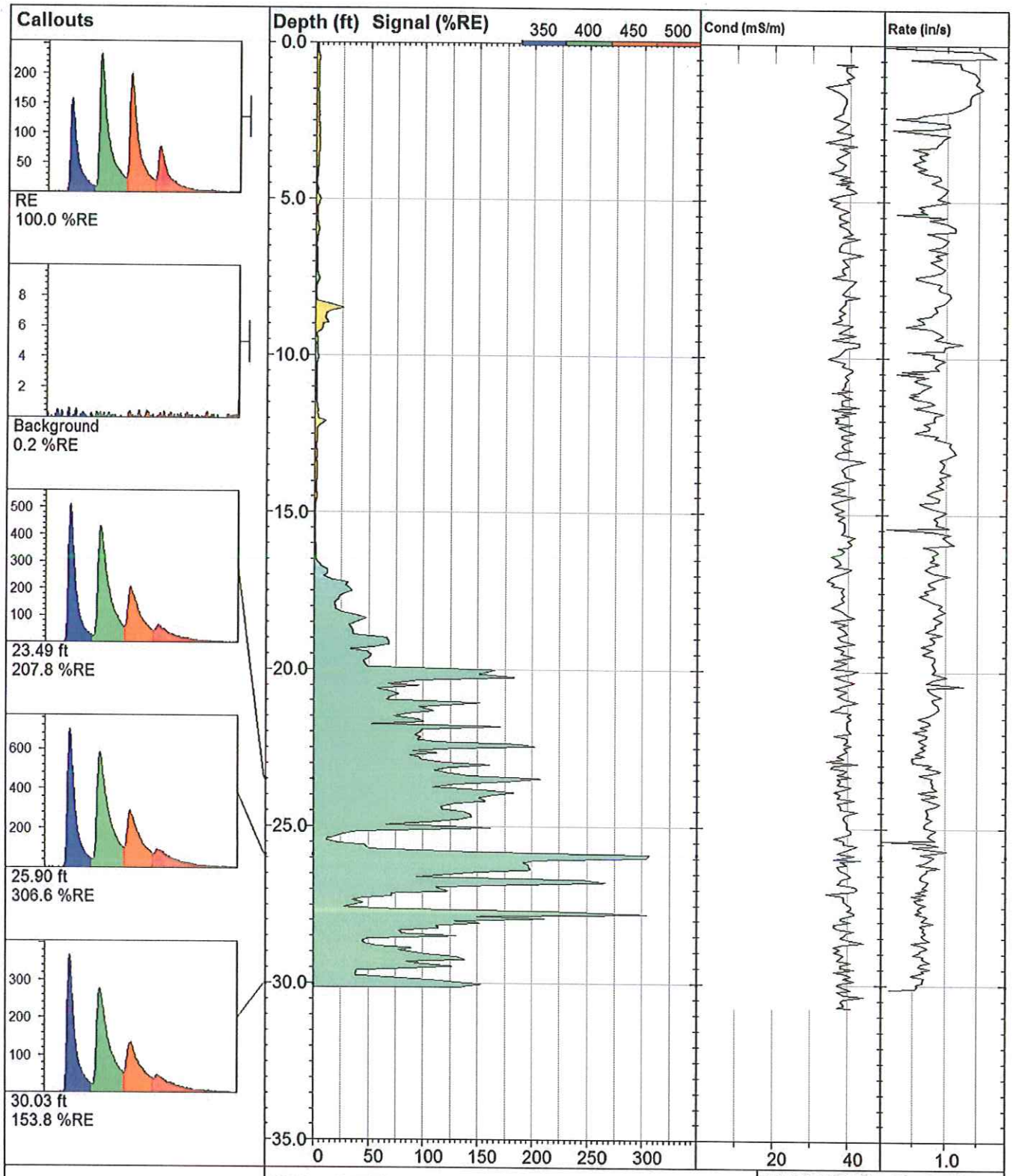
RG-AI-25

UVOST By Dakota
www.DakotaTechnologies.com

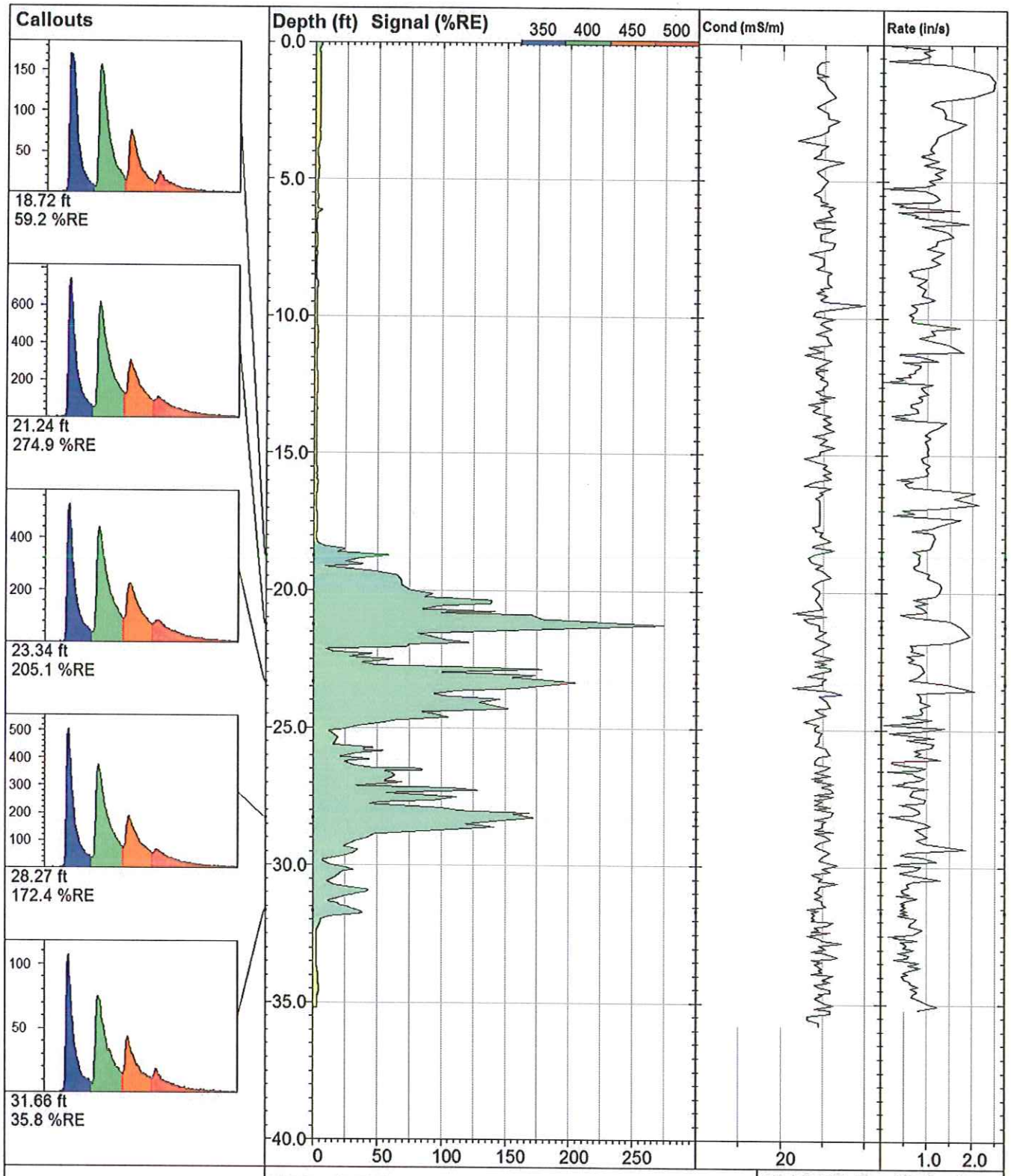
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.09 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **139.0 %RE @ 28.79 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 07:48 EDT**



VIRONEX	**RG-AI27**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **136.6 %RE @ 19.61 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 11:41 EDT**



VIRONEX	**RG-AI29**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.13 ft**
	Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **306.6 %RE @ 25.90 ft**
	Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 12:59 EDT**

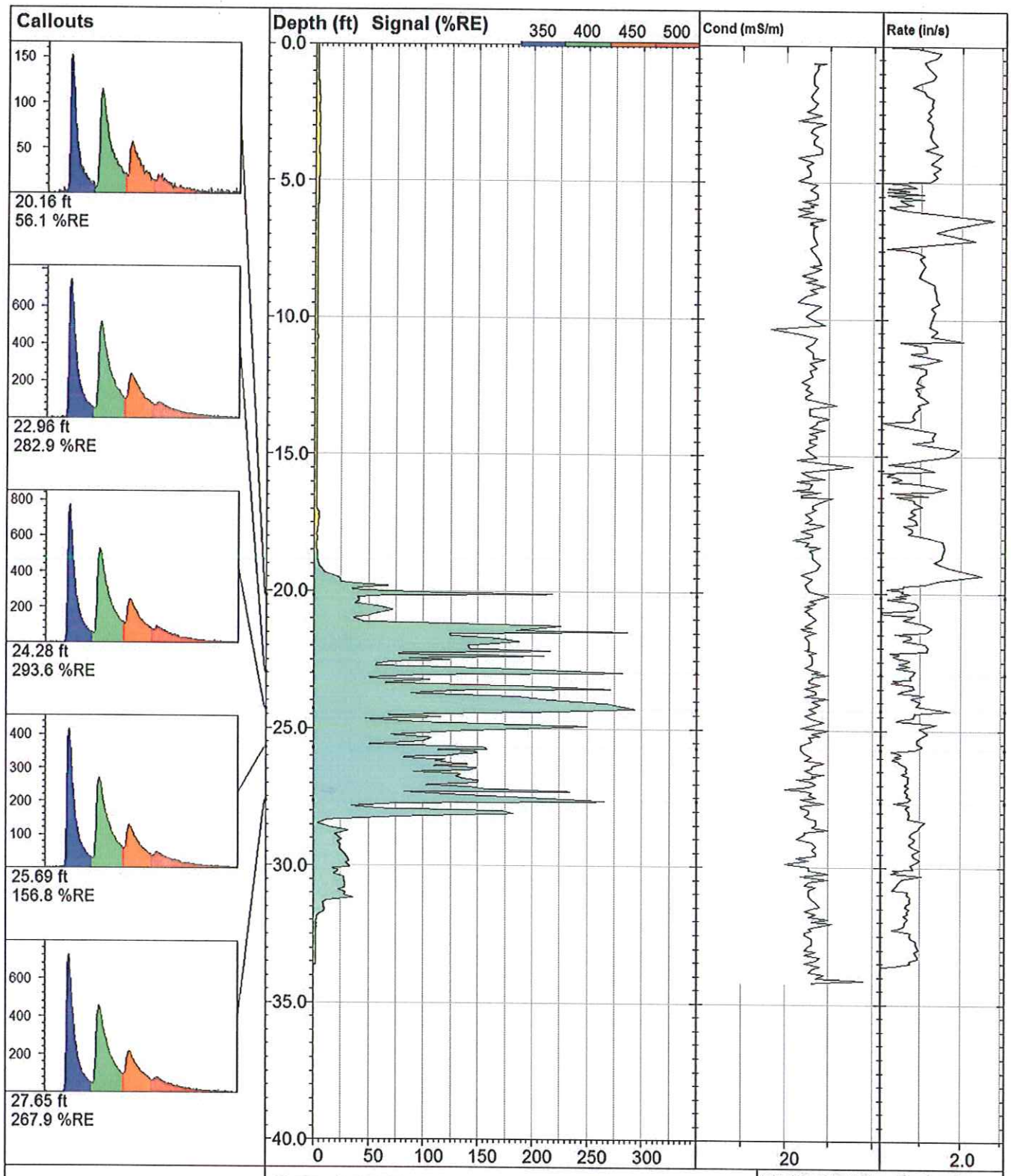


VIRONEX

RG-AI35

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **35.18 ft**
Client / Job: **Stanley / RG-AI35**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **274.9 %RE @ 21.24 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-01 14:34 MST**

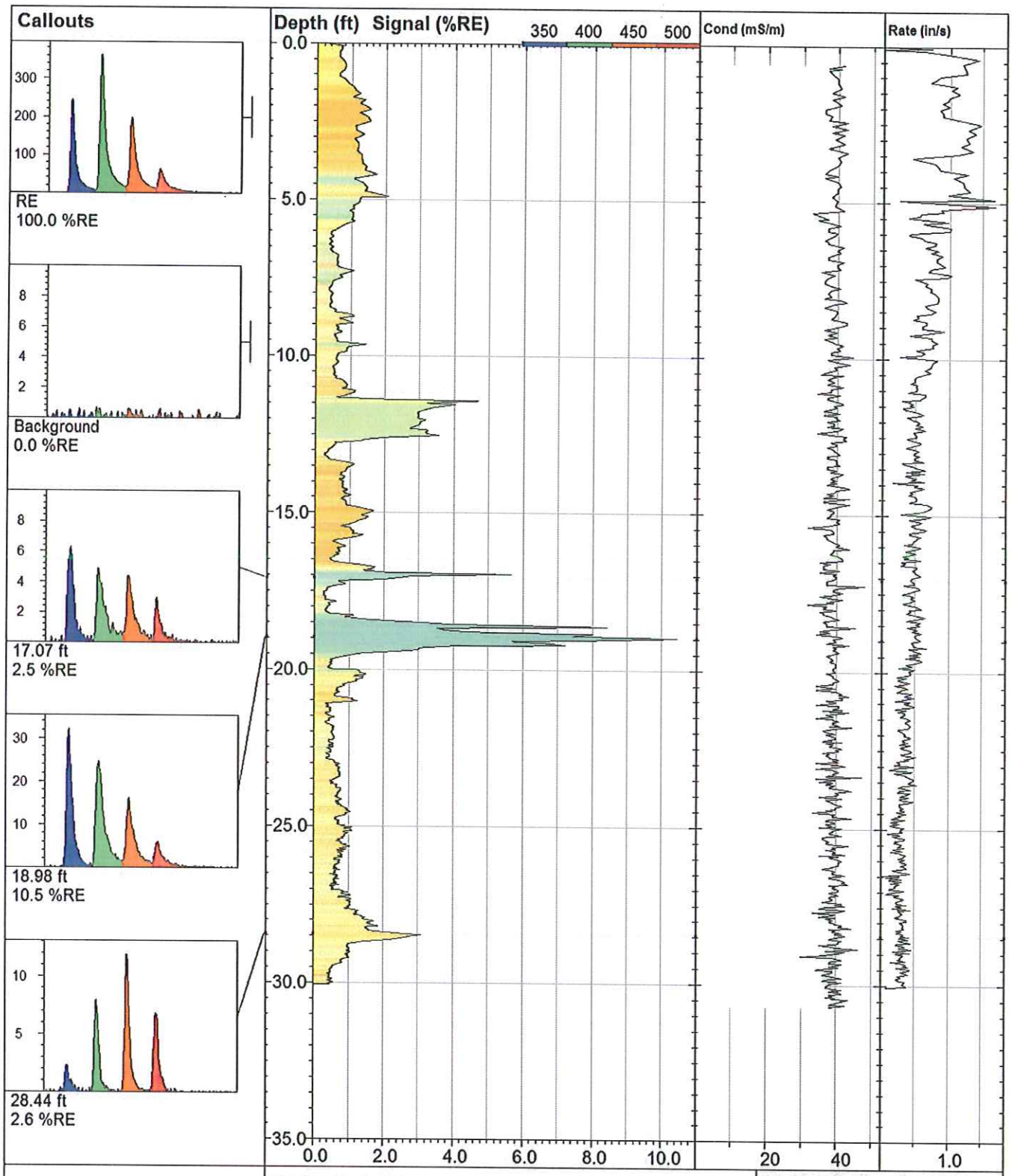


VIRONEX

RG-AJ32

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **33.62 ft**
Client / Job: **Stanley / RG-AK30**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **293.6 %RE @ 24.28 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-01 13:42 MST**

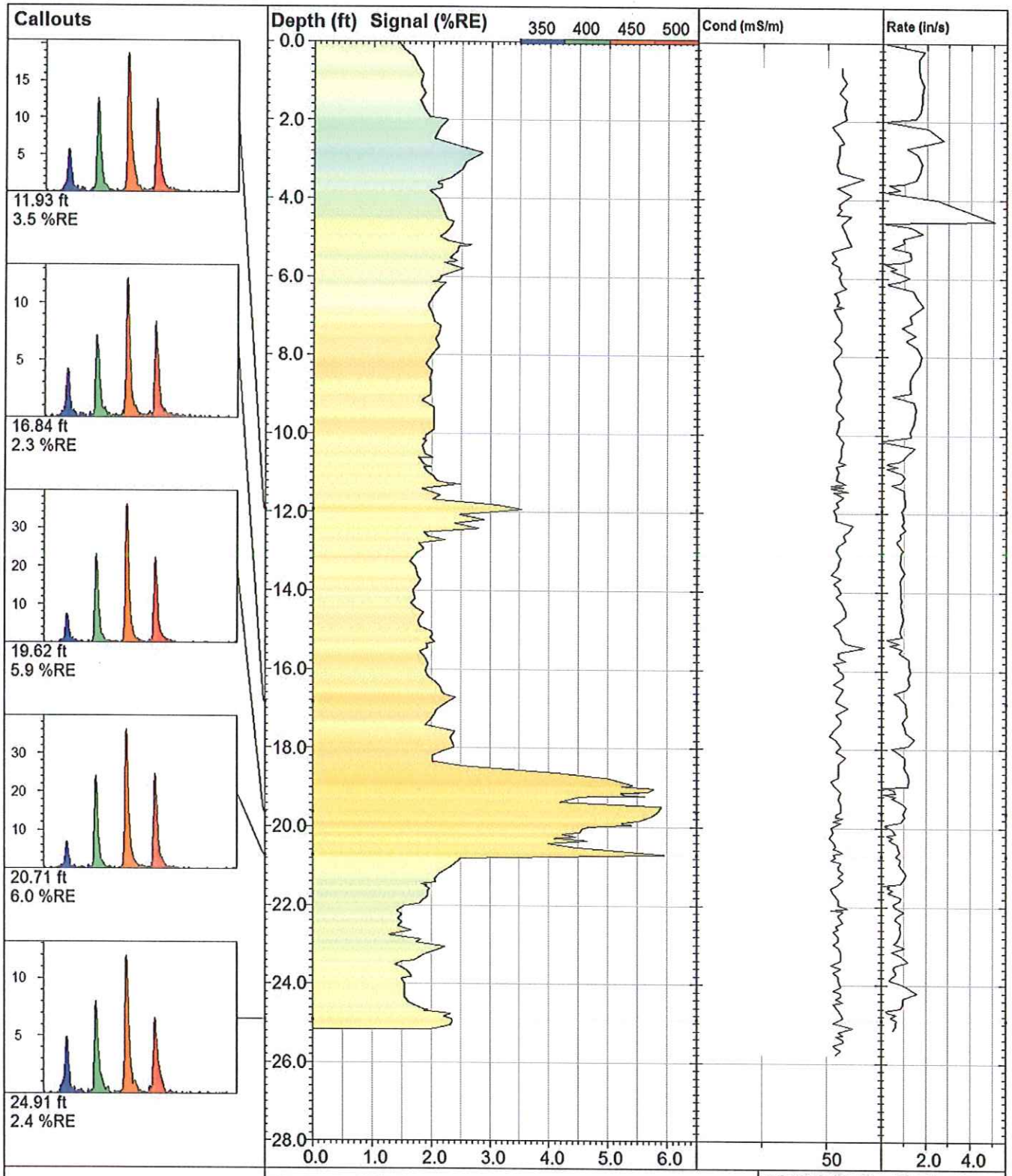


VIRONEX

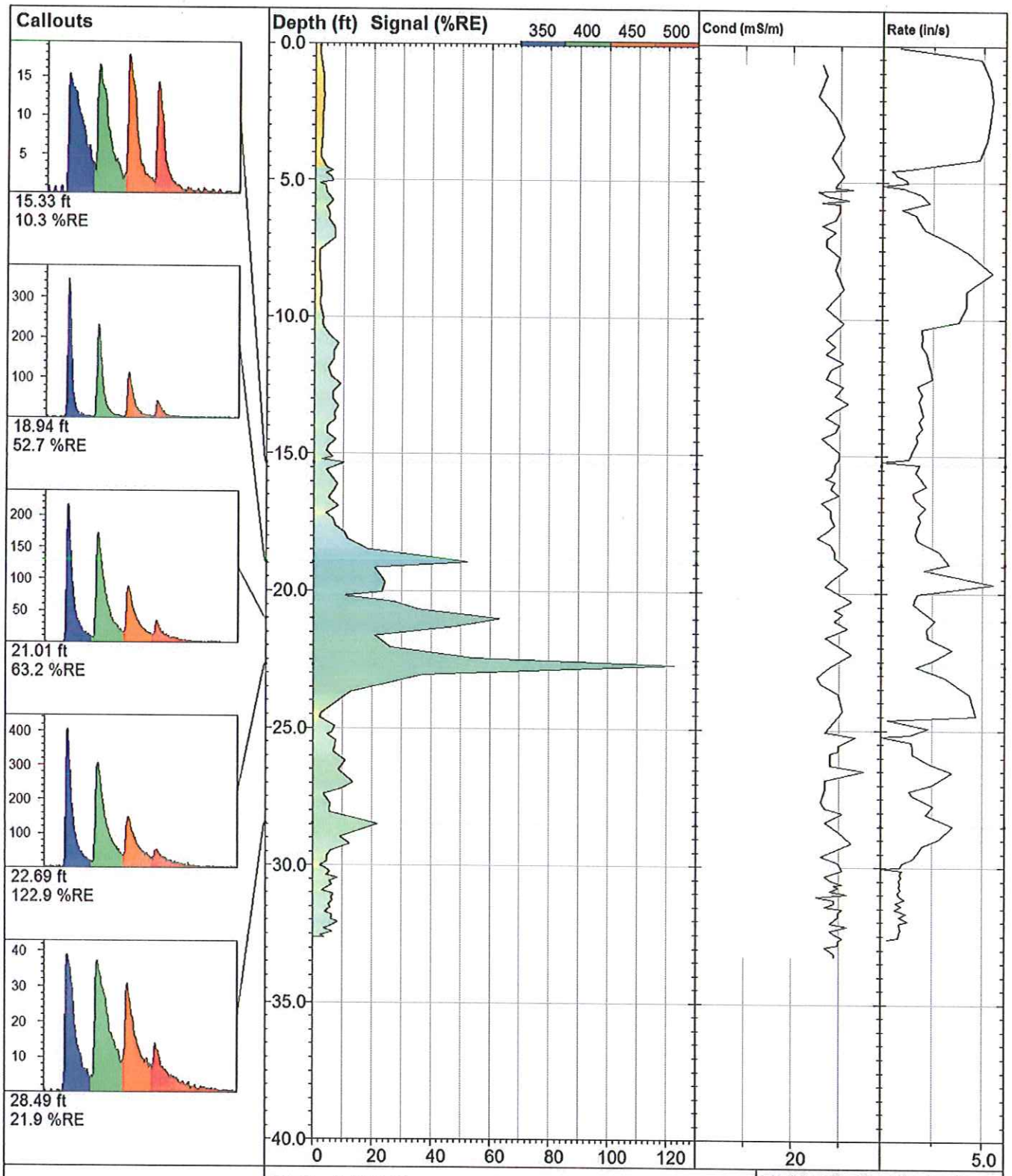
RG-AK28

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.06 ft**
Client / Job: **Stanley /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.5 %RE @ 18.98 ft**
Operator / Unit: **Kevin Ward / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-08-26 14:01 EDT**

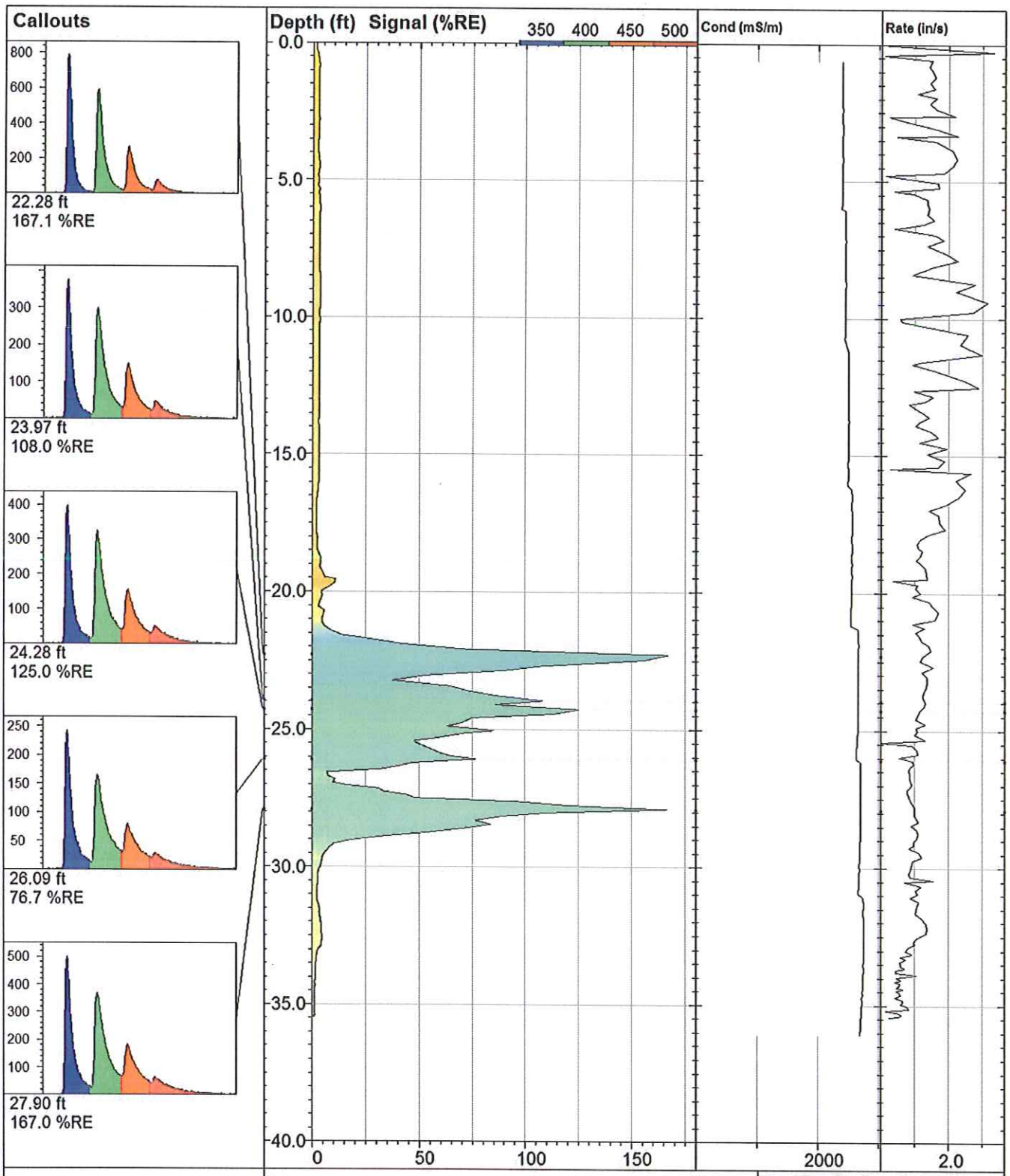


RG-AK30		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.16 ft**
Client / Job: **Stanley / RG-AK30**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.0 %RE @ 20.71 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-01 13:01 MST**



VIRONEX

RG-AK35		UVOST By Dakota www.DakotaTechnologies.com
Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **32.63 ft**
Client / Job: **Stanley / RG-AK35**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **122.9 %RE @ 22.68 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 15:21 MST**

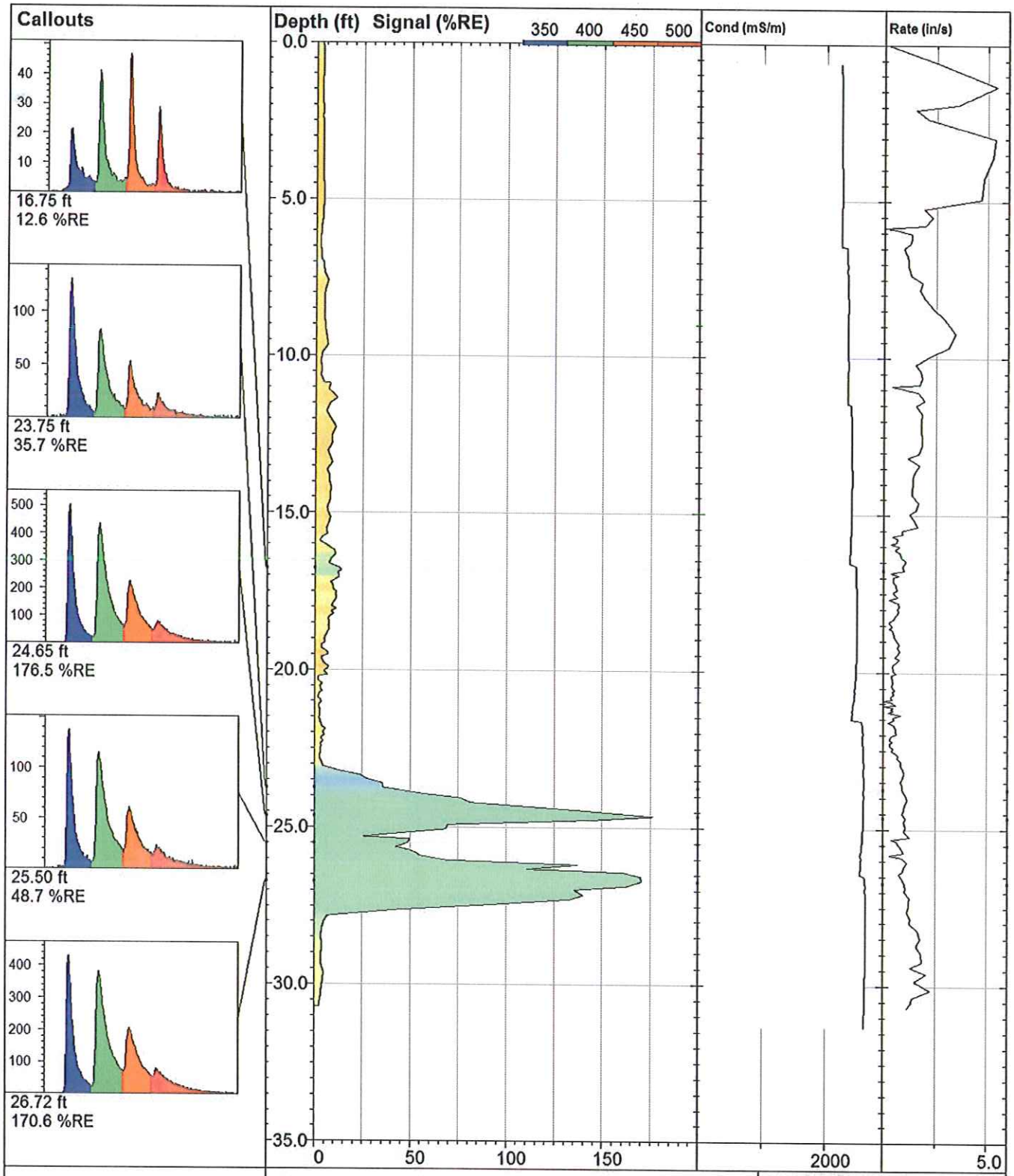


VIRONEX

RG-AN34

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **35.45 ft**
Client / Job: **Stanley / RG-AN34**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **167.1 %RE @ 22.28 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 13:50 MST**

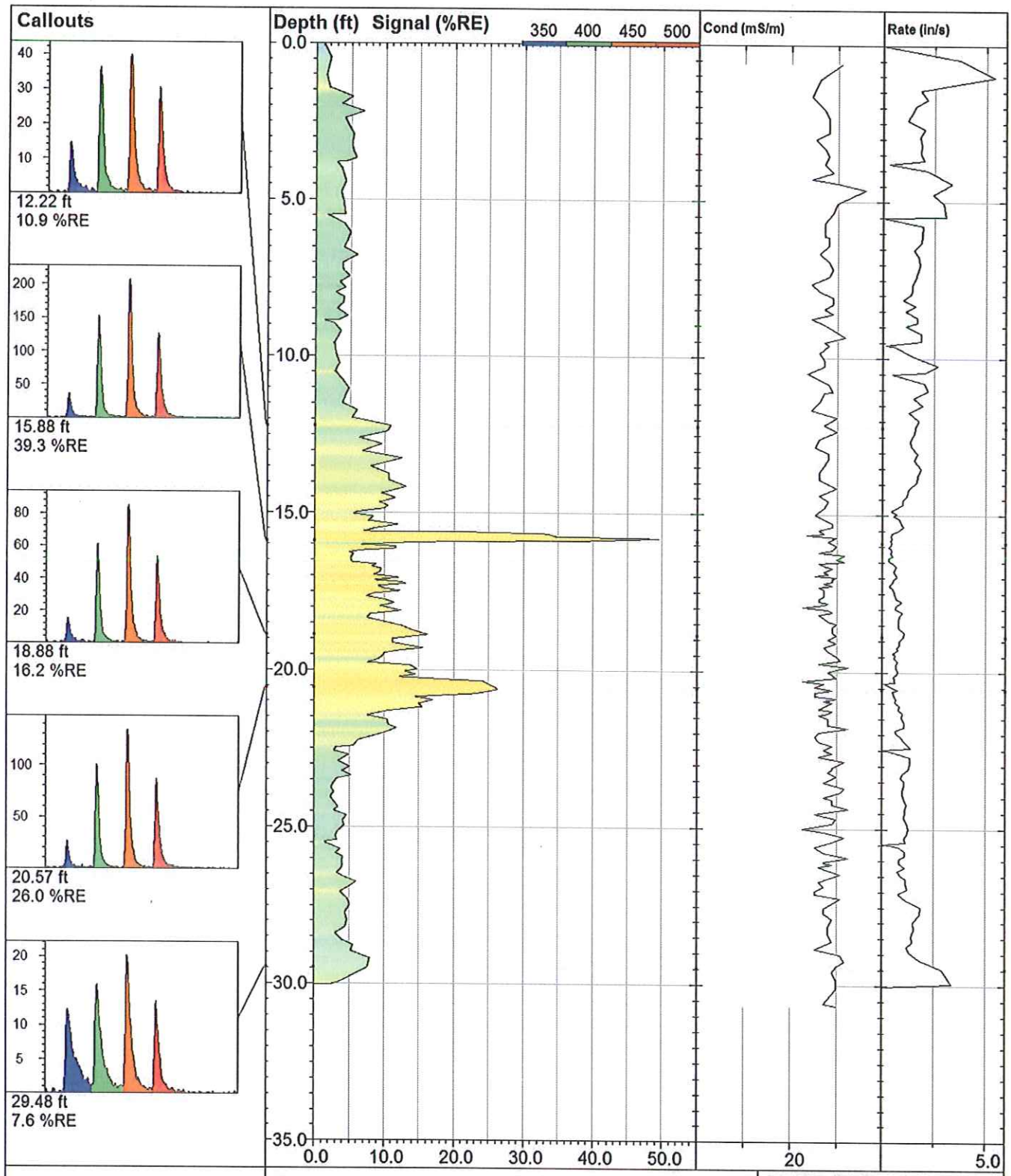


VIRONEX

RG-AN38

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.71 ft**
Client / Job: **Stanley / RG-AN38**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **176.5 %RE @ 24.65 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-04 14:28 MST**



VIRONEX

RG-AN41

UVOST By Dakota
www.DakotaTechnologies.com

Site: **NV Energy**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client / Job: **Stanley / RG-AN41**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **49.6 %RE @ 15.80 ft**
Operator / Unit: **Mike Haske / UVOST1314**	*Elevation:* **Unavailable**	*Date & Time:* **2014-12-05 14:52 MST**

Appendix C – UVOST System Overview

The Ultra-Violet Optical Screening Tool (UVOST) is a direct push system that produces semi-quantitative vertical profiles of fuel-related non-aqueous phase liquids (NAPL) in the subsurface. Multiple vertical profiles, or borings, may be advanced to develop more complex visual representations of NAPL distribution, such as transects, three dimensional models, and interactive maps. This system provides real-time information which allows users to make timely decisions during the mobilization of equipment.

The UVOST system utilizes an Eximer laser to generate ultra-violet (UV) light. The UV light is transmitted down a fiber optic cable and reflected into the subsurface through a sapphire window located on the lowermost portion of a direct push rod string. Petroleum hydrocarbons contain significant amounts of naturally fluorescent poly-cyclic aromatics (PAHs). If PAHs are encountered in sufficient quantities, those similar to that found in NAPL, the resulting fluorescence is transmitted to an oscilloscope via a second fiber optic cable. The fluoresced light is processed through four wavelength-based channels. Move volatile PAHs with show response on the shorter wavelength channels. Larger and less volatile PAHs will produce response on the longer wavelength channels. The intensity and resonance time, across each channel, and in relation to one another, will provide indication of quantity and type of NAPL that is being detected. Each data depth has a specific waveform which may be called out and reviewed. The vertical UVOST log is composed of the data from the four channels at each data depth. The color of the vertical UVOST log provides an indication of the waveform shape.

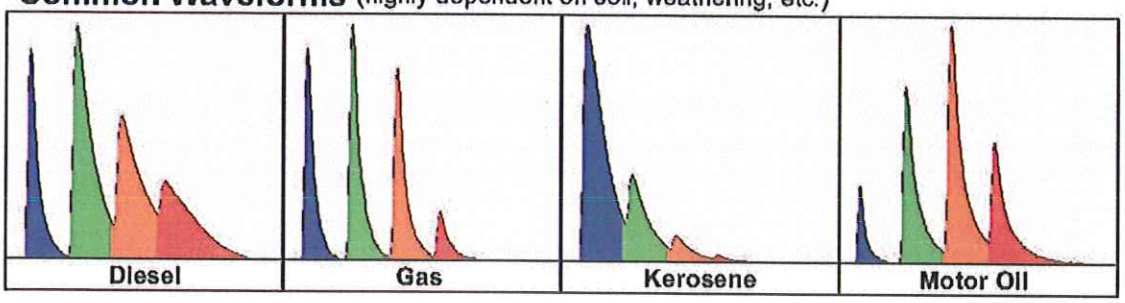
Before each boring the UVOST system is calibrated against a reference emitter (RE). The RE is a blend of fuels developed by the manufacturer for standardizing the tool. Because the tool is standardized against the RE before each boring, responses from different borings can be compared with confidence. All UVOST response is displayed in %RE, where the original RE calibration is always 100%. It is common to have background soil fluorescence between 0.1 and 5%RE. It is also possible to have positive NAPL responses higher than 100%RE.

Additionally, a background %RE is always collected prior to the advancement of each boring. The background %RE is collected with the clean sapphire window exposed to ambient conditions. The background %RE defines background noise from the system and notifies the operator is there is any problems with the system.

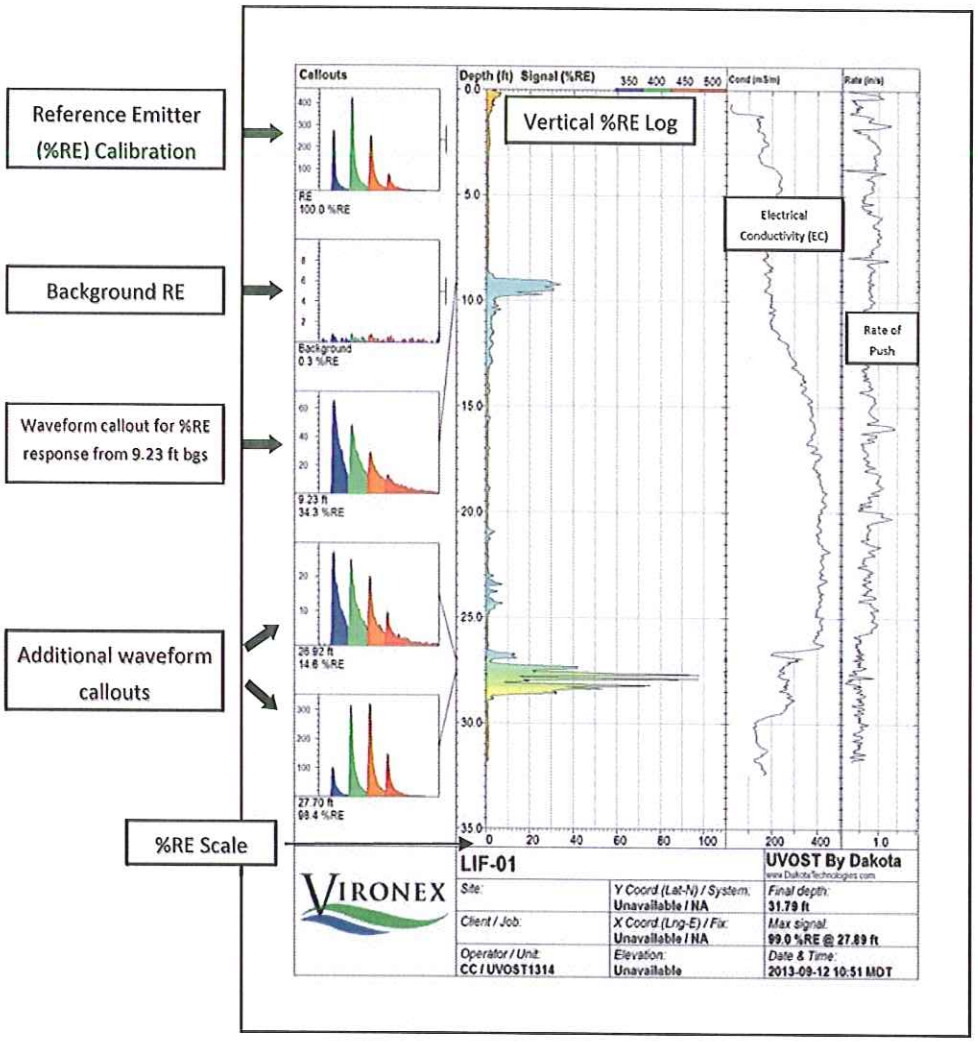
Appendix D – UVOST Reference Guide

Provided here are some common waveforms of fuels based on research done by the manufacturer.

Common Waveforms (highly dependent on soil, weathering, etc.)



Below is an example of a common UVOST log.



UVOST
Investigation and Data Imaging Report

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February 6, 2015

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Introduction

Vironex has prepared this Data Imaging Report for Stanley Consultants, Inc., based on data produced by the advancement of the UVOST system at the Reid Gardner LIF Project site located in Moapa, Nevada (herein referred to as the Site). This report provides visual renderings of data used using the Mining Visualization System (MVS) software; develop by C Tech Development Corporation (www.ctech.com). Renderings of UVSOT and EC data are provided in the four dimensional models (model files are provided individually as separate attachments). These models are composed of the three spatial dimensions with the additional dimension relating to detector response (commonly referred to as 4DIM models). The models provide an interactive interface that allows the user to produce screen shots from any angle, magnification, or detector response value for each respective model.

The sections below provide a summary of the project, a summary of the data imaging contained in this report, a description of the how the images provided were developed, a description how to navigate 4DIM models, and 4DIM files (separate files), and a description of the limitations regarding the imaging presented with this report.

Project Summary

This section provides a summary of field activities completed by Vironex at the Site: the equipment used, the duration of field activities, the configuration of the UVOST system and any relevant site information provided by Stanley Consultants, Inc.

Between August 7th through December 5th, 2014 Vironex advanced 138 direct push UVOST borings from the ground surface to the deepest of 36.05 feet below ground surface (bgs). In order to advance the UVOST borings Vironex mobilized one UVOST system, one UVOST specialist and one direct-push drill rig operator to the project site.

For the purposes of this project, the UVOST system was equipped with a %RE and Electrical Conductivity. During the advancement of each boring, the response of each detector, relative to depth, was recorded in accordance with the standard operating procedures for the UVOST system.

The details associated with each boring are presented in Table 1 below.

Table 1 Summary of UVOST Borings

UVOST Boring	Date	Time	Total Depth	Notes
RG-AD17	8/19/2014	15:24	7.93	Electrical Conductivity not working.
RG-AA17	8/7/2014	13:15	20.01	None
RG-AA19	8/20/2015	13:08	21.21	Electrical Conductivity not working.
RG-AA19b	8/22/2014	12:41	21.67	
RG-AA21	8/22/2014	11:56	24.02	Electrical Conductivity not working.
RG-AA23	8/25/2014	12:53	22.59	Electrical Conductivity not working.
RG-AA28	8/27/2014	10:16	17.69	None
RG-AA30	8/27/2014	14:32	23.55	None
RG-AA36	12/5/2014	11:21	30.53	Electrical Conductivity not working.
RG-AA42	12/4/2014	15:20	29.60	Electrical Conductivity not working.
RG-AA45	12/5/2014	10:30	25.51	None
RG-AB17	8/7/2014	14:50	22.59	None
RG-AB18	8/8/2014	9:53	14.83	None
RG-AB20	8/21/2014	7:16	11.00	Electrical Conductivity not working.
RG-AB20r	8/21/2014	15:03	21.61	Electrical Conductivity not working.
RG-AB25	8/26/2014	11:03	13.52	Electrical Conductivity not working.
RG-AC19	8/20/2014	12:29	20.41	Electrical Conductivity not working.
RG-AC21	8/22/2014	10:50	25.55	Electrical Conductivity not working.
RG-AC23	8/25/2014	15:19	16.32	Electrical Conductivity not working.
RG-AC33	12/3/2014	14:47	25.46	Electrical Conductivity not working.
RG-AC37	12/5/2014	11:00	25.44	None
RG-AD15	8/20/2014	11:36	22.28	Electrical Conductivity not working.
RG-AD18	8/8/2014	7:57	22.79	None

RG-AD19	8/21/2014	14:29	17.75	Electrical Conductivity not working.
RG-AD20	8/21/2014	7:42	25.29	Electrical Conductivity not working.
RG-AD22	8/25/2014	10:09	28.27	Electrical Conductivity not working.
RG-AD25	8/26/2014	8:50	22.66	Electrical Conductivity not working.
RG-AD27	8/26/2014	14:56	21.11	Electrical Conductivity not working.
RG-AD35	12/3/2014	15:17	25.08	Electrical Conductivity not working.
RG-AE17	8/19/2014	15:55	20.49	Electrical Conductivity not working.
RG-AE19	8/21/2014	12:44	24.25	Electrical Conductivity not working.
RG-AE20	8/21/2014	10:57	25.50	None
RG-AE21	8/21/2014	10:23	30.04	Electrical Conductivity not working.
RG-AE23	8/25/2014	15:51	30.15	Electrical Conductivity not working.
RG-AE29	8/27/2014	10:36	25.34	None
RG-AE42	12/4/2014	15:49	30.77	Electrical Conductivity not working.
RG-AF21	8/22/2014	9:23	30.00	Electrical Conductivity not working.
RG-AF22	8/25/2014	8:18	30.11	Electrical Conductivity not working.
RG-AF24	8/25/2014	16:30	30.18	Electrical Conductivity not working.
RG-AF26	8/26/2014	16:45	30.28	Electrical Conductivity not working.
RG-AF32	12/5/2014	11:45	30.31	None
RG-AF34	8/27/2014	15:12	35.14	None
RG-AG23	8/25/2014	7:37	25.68	Electrical Conductivity not working.
RG-AG25	12/1/2014	11:47	29.64	Electrical Conductivity not working.
RG-AG27	8/26/2014	9:28	24.01	Electrical Conductivity not working.
RG-AH21	8/22/2014	8:34	24.32	Electrical Conductivity not working.
RG-AH24	8/25/2014	17:09	25.61	Electrical Conductivity not working.
RG-AH32	12/3/2014	14:18	36.05	Electrical Conductivity not working.

RG-AH37	12/2/2014	8:35	30.22	Electrical Conductivity not working.
RG-AH42	12/3/2014	11:25	30.58	Electrical Conductivity not working.
RG-AI-25	8/26/2014	7:48	30.09	Electrical Conductivity not working.
RG-AI20	8/21/2014	11:46	23.83	Electrical Conductivity not working.
RG-AI27	8/26/2014	11:41	30.04	Electrical Conductivity not working.
RG-AI29	8/26/2014	12:59	30.13	Electrical Conductivity not working.
RG-AI35	12/1/2014	14:34	35.19	Electrical Conductivity not working.
RG-AJ32	12/1/2014	13:42	33.62	Electrical Conductivity not working.
RG-AK28	8/26/2014	14:01	30.06	Electrical Conductivity not working.
RG-AK30	12/1/2014	13:01	25.16	Electrical Conductivity not working.
RG-AK35	12/5/2014	15:21	32.63	Electrical Conductivity not working.
RG-AN34	12/4/2014	13:50	35.45	Electrical Conductivity not working.
RG-AN38	12/4/2014	14:28	30.71	Electrical Conductivity not working.
RG-AN41	12/5/2014	14:52	30.03	Electrical Conductivity not working.
RG-I15	12/4/2014	11:43	17.48	Electrical Conductivity not working.
RG-J19	12/4/2014	11:17	21.74	Electrical Conductivity not working.
RG-J20	8/22/2014	10:01	20.48	Electrical Conductivity not working.
RG-K16	8/28/2014	10:47	17.82	None
RG-K18	8/28/2014	7:29	3.93	Electrical Conductivity not working.
RG-K20	8/27/2014	17:18	20.50	None
RG-K21	8/28/2014	8:06	20.55	None
RG-L17	8/28/2014	10:08	20.38	None
RG-L20	8/28/2014	9:09	20.43	None
RG-M18	8/28/2014	9:42	19.88	Electrical Conductivity not working.
RG-M20	8/28/2014	8:36	24.13	None

RG-M22	**12/4/2014**	**8:21**	**20.21**	**Electrical Conductivity not working.**
RG-M23	**12/4/2014**	**9:05**	**20.48**	**Electrical Conductivity not working.**
RG-N13	**12/4/2014**	**12:10**	**10.17**	**Electrical Conductivity not working.**
RG-N22	**12/4/2014**	**8:42**	**13.54**	**Electrical Conductivity not working.**
RG-O15	**8/29/2014**	**11:22**	**16.02**	**None**
RG-O17	**8/28/2014**	**11:22**	**14.06**	**None**
RG-O19	**8/28/2014**	**11:57**	**21.29**	**None**
RG-P18	**8/28/2014**	**13:36**	**20.10**	**None**
RG-P20	**8/28/2014**	**12:55**	**20.33**	**None**
RG-Q15	**8/29/2014**	**10:58**	**12.29**	**None**
RG-Q17	**8/29/2014**	**10:35**	**14.17**	**None**
RG-Q19	**8/28/2014**	**15:36**	**11.99**	**None**
RG-Q25	**12/2/2014**	**13:50**	**24.41**	**Electrical Conductivity not working.**
RG-Q30	**12/3/2014**	**15:58**	**23.79**	**Electrical Conductivity not working.**
RG-R28	**12/2/2014**	**13:18**	**24.36**	**Electrical Conductivity not working.**
RG-S19R	**12/4/2014**	**12:29**	**16.39**	**Electrical Conductivity not working.**
RG-S41	**12/3/2014**	**9:44**	**30.53**	**Electrical Conductivity not working.**
RG-T18	**8/28/2014**	**16:39**	**8.36**	**Electrical Conductivity not working.**
RG-T23	**12/3/2014**	**11:56**	**28.98**	**Electrical Conductivity not working.**
RG-U25	**12/3/2014**	**12:28**	**23.54**	**Electrical Conductivity not working.**
RG-U28	**12/3/2014**	**13:15**	**21.36**	**Electrical Conductivity not working.**
RG-U30	**12/2/2014**	**12:53**	**24.06**	**Electrical Conductivity not working.**
RG-V18	**8/29/2014**	**7:45**	**11.25**	**Electrical Conductivity not working.**
RG-V42	**12/3/2014**	**10:36**	**30.41**	**Electrical Conductivity not working.**
RG-W10	**8/7/2014**	**9:53**	**20.68**	**None**

RG-W11	8/19/2014	14:39	15.06	Electrical Conductivity not working.
RG-W13	8/29/2014	10:04	11.42	None
RG-W15	8/29/2014	9:16	18.07	None
RG-W17R	8/29/2014	8:17	23.50	Electrical Conductivity not working.
RG-W21	8/26/2014	17:22	15.24	Electrical Conductivity not working.
RG-W23	8/27/2014	13:08	13.88	None
RG-W32	12/2/2014	9:54	26.59	Electrical Conductivity not working.
RG-W8	8/7/2014	12:08	9.41	None
RG-X10	8/7/2014	10:42	11.11	None
RG-X10R	8/19/2014	14:00	11.12	None
RG-X12	8/19/2014	13:39	9.16	None
RG-X14	8/29/2014	9:44	11.73	None
RG-X16	8/29/2014	8:46	10.41	None
RG-X18	8/8/2014	12:17	15.84	None
RG-X20	8/20/2014	15:19	13.39	Electrical Conductivity not working.
RG-X20r	8/21/2014	16:29	23.03	Electrical Conductivity not working.
RG-X24	8/27/2014	13:31	14.11	None
RG-X26	12/3/2014	13:40	18.68	Electrical Conductivity not working.
RG-X28	12/2/2014	14:36	27.33	Electrical Conductivity not working.
RG-Y11	8/20/2014	8:41	10.42	Electrical Conductivity not working.
RG-Y13	8/20/2014	9:20	14.76	Electrical Conductivity not working.
RG-Y17	8/7/2014	11:29	25.48	None
RG-Y19	8/20/2014	14:17	25.16	Electrical Conductivity not working.
RG-Y21	8/22/2014	13:45	20.25	Electrical Conductivity not working.
RG-Y23	8/25/2014	12:01	20.28	Electrical Conductivity not working.

RG-Y28	**8/27/2014**	**13:55**	**27.67**	**None**
RG-Y8	**8/20/2014**	**7:19**	**8.32**	**Electrical Conductivity not working.**
RG-Y9	**8/20/2014**	**8:05**	**13.02**	**Electrical Conductivity not working.**
RG-Z17	**8/7/2014**	**12:27**	**24.58**	**None**
RG-Z18	**8/8/2014**	**11:32**	**28.01**	**None**
RG-Z19	**8/22/2014**	**7:56**	**18.47**	**Electrical Conductivity not working.**
RG-Z20	**8/20/2014**	**15:46**	**23.10**	**Electrical Conductivity not working.**
RG-Z22	**8/25/2014**	**11:23**	**20.34**	**None**
RG-Z24	**8/26/2014**	**10:35**	**12.77**	**Electrical Conductivity not working.**
RG-Z26	**8/27/2014**	**9:27**	**24.42**	**None**
RG-Z32	**8/27/2014**	**9:27**	**18.33**	**Electrical Conductivity not working.**
RG-AB22	**12/2/2014**	**9:30**	**18.11**	**Electrical Conductivity not working.**
RG-U19	**8/29/2014**	**7:19**	**9.91**	**Electrical Conductivity not working.**
RG-T34	**12/5/2014**	**15:45**	**23.03**	**Electrical Conductivity not working.**

Summary of Data Visualization

Data Visualization is graphical display information, which is kriged and an interpolation of their data set. This information provides the user a powerful tool of a skilled visualization options. This option gives a visual statistical interpolation of the detector or analytical results. This allows the end user to see how the data comes together and potential movement of the contaminant. At the same time it provides a way for the environmental firm to display potential remediation approaches to the end user in simplistic format.

Model Development

This section describes the types of images provided in this report and the methods used to develop them. As noted above, Vironex utilizes CTech's MVS software to develop data renderings that are listed in this report. The settings and parameters associated these renderings are based on the suggested configuration by CTech. Vironex uses MVS software to develop a base model, and three types of data imaging, including:

- Three dimensional models
- Vertical cross-sections

- Horizontal cross-sections

Each of these model types may be produced using the various data types. For example, three dimensional models may be produced using UVOST response, as well as using EC to give a three dimensional indication of site lithology. Below is a discussion regarding the settings and parameters associated with each type of data images previously noted.

Prior to Kriging UVOST data, a domain is created as a hierarchy to the UVOST data, which is comprised of all the sample locations. This is called the convex hull which can be visualized as the shape assumed by a rubber band that has been stretched around the set and released to conform as closely as possible to it. UVOST data is then Kriged, which is a mathematical process recognized by the EPA as the standard means for interpolation and extrapolation of measured data.

4DIM Models Provided

Vironex has provided 4DIM models which allow the user to manipulate each model spatially and determine the detector response value. The user of these models may select various angles, magnifications, and detector response values to develop their own static figures of these models. The following 4DIM models are listed in this report in Table 1 (please note that these are standalone files and only viewable on a computer).

Three Dimensional Models

Three Dimensional Models represent a collection of points in 3D space. The models will display the interpolation of the data used within this project at various concentrations and/or responses. They give the viewer an indication of the extent of distribution based on the data set used. However the interpolation has limitations based on the gridding pattern and depth of the borings. To provide a competent interpolation the borings X,Y need to be within a grid pattern.

Vertical Cross-Sections

Vertical Cross-Sections are comprised of connecting borings and providing a vertical profile of the model providing all detector information from surface to total depth. These are viewed from a plan view (or vertical) and provide the detector response at each depth.

Horizontal Cross-Sections

Horizontal Cross-Sections are horizontal profiles of the base model at a given depth providing all detector information at a given depth in MSL. These are viewed from easting or northing of the model (or horizontal) and provide side profile of the detector responses.

Model Development Notes

The ground surface is depicted as flat in the model as Stanley Consultants, Inc. indicated that there is minimal relief across the area of investigation and Global Positioning System elevation data were subject to considerable error.

Access to 4DIM Models

4DIM Links:

To view 4DIM files the user is required to have the 4DIM Player installed on their computer. The 4DIM Player may be downloaded at http://www.ctech.com/?page=&action=download&fid=129 or accessed via the CTech website www.ctech.com.

Table 1 List of 4DIM files provided to, Stanley Consultants, Inc.

Name of file	Date issued
UVOST RE (WITH WATER)-3D - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITH WATER)-ES - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITH WATER)-HS - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITH WATER)-NS - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITHOUT WATER)-3D - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITHOUT WATER)-ES - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITHOUT WATER)-HS - MOAPA, NA -3-4-2014.4D	3/4/2015
UVOST RE (WITHOUT WATER)-NS - MOAPA, NA -3-4-2014.4D	3/4/2015

Limitations

The information and images presented in this report rely on data produced by Vironex under the supervision of Stanley Consultants, Inc. and/or data provided by Stanley Consultants, Inc. Because Vironex's report is based on information, the accuracy of which has not been determined, Vironex cannot and does not guarantee that the information and images provided in this report are exact representations of potential conditions at the Site. This graphics provided within this report have been prepared using CTech's industry accepted Mining Visualization System software. Unless requested by Stanley Consultants, Inc., the models herein were developed using the recommended settings and values provided by CTech. Unless stated otherwise herein, this report is intended for the sole use of Stanley Consultants, Inc. Vironex assumes no responsibility for decisions or actions based on the information and images contained in this report.

Appendix C

Data Tables and Graphs

Table C-1 - Survey Data **State Plane Nevada East 2701**

Location	X	Y	Z	NVE Survey (No = GPS or manual measurement)
AA17	935357.285000	26942676.244000	1592.218000	Yes
AA19	935351.797000	26942626.582000	1591.851000	Yes
AA19R	935351.680000	26942628.590000	1591.600000	Yes
AA21	935347.444000	26942565.823000	1591.844000	Yes
AA23	935352.319000	26942521.858000	1592.146000	Yes
AA28	935339.020000	26942349.395000	1589.633000	Yes
AA30	935351.632000	26942280.308000	1589.465000	Yes
AA36	935396.682369	26942096.271273	1587	No
AA42	935361.337404	26941916.676786	1587	No
AA45	935364.713361	26941842.352935	1587	No
AB17	935375.077000	26942683.635000	1591.974000	Yes
AB18	935373.605000	26942647.542000	1591.420000	Yes
AB20	935387.995000	26942587.919000	1591.302000	Yes
AB20R	935387.742000	26942592.608000	1591.276000	Yes
AB22	935377.055000	26942539.058000	1591.516000	Yes
AB25	935366.714000	26942438.511000	1590.720000	Yes
AC19	935398.004000	26942629.195000	1591.843000	Yes
AC21	935402.981000	26942565.830000	1591.143000	Yes
AC23	935395.530000	26942519.803000	1590.861000	Yes
AC33	935434.168534	26942196.823605	1588	No
AC37	935423.711254	26942074.339064	1588	No
AC42	935410.694522	26941925.846143	1587	No
AD15	935431.975000	26942755.013000	1591.594000	Yes
AD17	935419.710000	26942683.592000	1591.805000	Yes
AD18	935417.269840	26942653.612795	1591.2	No
AD19	935432.522000	26942624.951000	1590.899000	Yes
AD20	935433.759000	26942595.814000	1591.042000	Yes
AD22	935420.715008	26942541.386378	1590.5	No
AD25	935424.843000	26942437.602000	1590.728000	Yes
AD27	935430.545000	26942380.826000	1590.207000	Yes
AD35	935449.655258	26942143.937630	1587.5	No
AE17	935465.842000	26942685.347000	1590.970000	Yes
AE19	935458.834000	26942624.566000	1590.504000	Yes
AE20	935463.542000	26942594.463000	1590.169000	Yes
AE21	935452.849701	26942577.179636	1589.9	No
AE23	935445.183000	26942510.208000	1589.821000	Yes
AE29	935470.637000	26942312.267000	1589.067000	Yes
AE42	935471.045439	26941929.727132	1587	No
AF21	935488.053000	26942565.394000	1589.273000	Yes
AF22	935478.433000	26942537.283000	1589.704000	Yes
AF24	935488.797000	26942462.289000	1589.261000	Yes
AF26	935486.772000	26942408.973000	1589.098000	Yes
AF32	935497.292998	26942242.646931	1588.7	No
AF34	935500.627000	26942182.138000	1588.736000	Yes
AG23	935503.572000	26942509.899000	1589.384000	Yes
AG25	935515.461000	26942441.196000	1588.763000	Yes
AG27	935518.633000	26942380.731000	1588.969000	Yes
AH21	935544.476000	26942567.501000	1588.810000	Yes
AH24	935548.066000	26942478.021000	1589.296000	Yes
AH32	935549.415000	26942234.473000	1588.785000	Yes
AH37	935554.847000	26942076.930000	1588.037000	Yes
AH42	935552.251633	26941928.379243	1587.5	No
AI20	935582.952000	26942588.135000	1589.394000	Yes
AI25	935575.114000	26942445.581000	1589.299000	Yes
AI27	935575.153000	26942383.682000	1588.859000	Yes
AI29	935578.114000	26942316.362000	1588.938000	Yes
AI35	935572.344000	26942132.017000	1588.775000	Yes
AJ32	935612.325000	26942222.220000	1588.104000	Yes
AK28	935641.618000	26942368.471000	1587.930000	Yes
AK30	935639.171000	26942286.490000	1588.150000	Yes
AK35	935646.621565	26942112.442266	1585.9	No
AN34	935720.928000	26942172.928000	1586.643000	Yes
AN38	935721.356000	26942086.816000	1586.564000	Yes
AN41	935725.090000	26941953.179000	1587.145000	Yes
I15	934782.321000	26942746.224000	1590.334000	Yes
J19	934825.573000	26942633.527000	1589.027000	Yes
J20	934826.703000	26942590.936000	1589.128000	Yes
K16	934853.644000	26942711.479000	1589.477000	Yes

Location	X	Y	Z	NVESurvey
K18	934857.232000	26942655.803000	1589.158000	Yes
K20	934854.553000	26942591.213000	1589.160000	Yes
K21	934865.203000	26942577.664000	1588.896000	Yes
L17	934887.068000	26942679.168000	1588.998000	Yes
L20	934885.129000	26942591.333000	1589.105000	Yes
M18	934914.433000	26942651.384000	1589.122000	Yes
M20	934916.055000	26942590.735000	1588.919000	Yes
M22	934922.075000	26942532.774000	1588.443000	Yes
M23	934923.691000	26942506.462000	1588.245000	Yes
N13	934955.695000	26942811.622000	1590.548000	Yes
N22	934948.359000	26942533.944000	1588.412000	Yes
O15	934973.568000	26942778.815000	1590.416000	Yes
O17	934978.810000	26942686.846000	1589.941000	Yes
O19	934972.154000	26942632.262000	1589.512000	Yes
P18	935012.025000	26942654.869000	1590.603000	Yes
P20	935012.653000	26942590.797000	1590.040000	Yes
Q15	935079.107000	26942738.354000	1590.739000	Yes
Q17	935082.884000	26942689.069000	1591.285000	Yes
Q19	935085.145000	26942643.130000	1591.348000	Yes
Q25	935037.942000	26942459.643000	1591.017000	Yes
Q30	935038.144000	26942298.487000	1590.834000	Yes
R28	935068.639000	26942346.953000	1590.788000	Yes
S19R	935148.728000	26942651.518000	1592.290000	Yes
S41	935079.774000	26941974.192000	1586.847000	Yes
T18	935134.607000	26942620.971000	1591.897000	Yes
T23	935136.592988	26942484.760434	1592	No
U19	935211.031000	26942652.119000	1592.903000	Yes
U25	935157.710386	26942435.376913	1592	No
U28	935163.060736	26942354.949107	1592	No
U30	935159.002484	26942298.154638	1591	No
V18	935177.405283	26942617.098512	1592	No
V42	935197.684759	26941934.852011	1587	No
W10	935216.093941	26942916.006336	1594	No
W11	935219.472000	26942848.267000	1593.762000	Yes
W13	935217.437000	26942815.027000	1594.013000	Yes
W15	935241.546000	26942751.565000	1592.687000	Yes
W17R	935233.806238	26942694.441741	1592	No
W21	935206.655000	26942576.216000	1592.341000	Yes
W23	935211.533000	26942523.003000	1591.726000	Yes
W32	935207.357253	26942299.000090	1591	No
W8	935217.414000	26942965.132000	1594.399000	Yes
X10	935244.580000	26942903.734000	1594.114000	Yes
X10R	935257.471000	26942897.093000	1594.108000	Yes
X12	935253.951000	26942846.239000	1593.563000	Yes
X14	935249.446000	26942778.725000	1592.817000	Yes
X16	935248.716000	26942731.267000	1592.769000	Yes
X18	935254.613000	26942636.311000	1592.384000	Yes
X20	935275.776000	26942613.514000	1592.106000	Yes
X20R	935268.584000	26942615.207000	1592.158000	Yes
X24	935247.058000	26942474.419000	1592.196000	Yes
X26	935227.162939	26942398.430359	1590	No
X28	935224.162440	26942342.568453	1590	No
Y11	935286.091000	26942867.192000	1593.696000	Yes
Y13	935287.562000	26942814.647000	1593.672000	Yes
Y17	935279.569000	26942681.646000	1592.554000	Yes
Y19	935297.974000	26942623.649000	1592.055000	Yes
Y21	935286.697000	26942565.399000	1593.110000	Yes
Y23	935270.668000	26942516.478000	1592.686000	Yes
Y28	935286.234000	26942345.774000	1590.263000	Yes
Y8	935282.893000	26942958.941000	1594.895000	Yes
Y9	935285.601000	26942928.520000	1594.306000	Yes
Z17	935310.259000	26942681.964000	1592.756000	Yes
Z18	935310.602592	26942661.501898	1592	No
Z19	935331.915000	26942624.213000	1591.741000	Yes
Z20	935318.875885	26942601.930573	1592	No
Z22	935307.041000	26942539.913000	1592.510000	Yes
Z24	935306.885000	26942474.639000	1591.762000	Yes
Z26	935300.160300	26942405.381856	1592	No
Z32	935297.325086	26942252.014484	1589	No

Table C-2 Laser Induced Fluorescence Soil Sample Laboratory Analysis

Parameter Name	AA30 12/9/2014 14.5 - 15.5 ft		AA30 12/9/2014 23 - 24 ft		AE23 12/9/2014 14 - 15 ft		AE23 12/9/2014 22.5 - 23.5 ft		AE23 12/9/2014 25.5 - 26.5 ft		AF21 12/9/2014 13.5 - 14.5 ft		AF21 12/9/2014 21 - 22 ft		AF34 12/9/2014 19.5 - 20 ft		AF34 12/9/2014 33 - 34 ft		AG25 12/9/2014 19.5 - 20 ft		AI20 12/9/2014 17.5 - 18 ft		AK35 12/9/2014 18.5 - 19.5 ft		AK35 12/9/2014 21.5 - 22.5 ft		K20 12/8/2014 10 - 10 ft		M22 12/8/2014 15 - 15 ft		M23 12/9/2014 10.5 - 11.5 ft		O15 12/8/2014 10 - 11 ft		O15 12/8/2014 13.5 - 14.5 ft	
	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier
PAHs (ug/kg)																																				
Acenaphthene	99	-	720	-	600	-	380	-	NA	-	NA	-	NA	-	NA	-	1100	-	NA	-	NA	-	< 5	-	NA	-	< 7.5	-	< 5	-	230	-	160	-	110	-
Acenaphthylene	< 5	-	< 100	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 5	-	NA	-	200	-	< 5	-	< 5	-	< 5	-	< 5	-
Anthracene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 5	-	NA	-	NA	-	< 50	-	NA	-	< 7.5	-	< 5	-	< 5	-	< 50	-	< 50	-
Benzo(a)anthracene	< 5	-	< 100	-	< 250	-	< 250	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Benzo(a)pyrene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Benzo(b)fluoranthene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Benzo(g,h,i)perylene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Benzo(k)fluoranthene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Chrysene	< 5	-	< 100	-	< 250	-	< 250	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	80	-	60	-
Dibenzo(a,h)anthracene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
Fluoranthene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	77	-	NA	-	NA	-	< 50	-	NA	-	< 7.5	-	< 5	-	84	-	< 50	-	< 50	-
Fluorene	99	-	1700	-	< 5	-	730	-	NA	-	NA	-	NA	-	NA	-	2900	-	NA	-	NA	-	< 5	-	NA	-	220	-	< 5	-	240	-	89	-	75	-
Indeno(1,2,3-cd)pyrene	< 5	-	< 5	-	< 5	-	< 5	-	NA	-	NA	-	NA	-	NA	-	< 250	-	NA	-	NA	-	< 50	-	NA	-	< 75	-	< 5	-	< 50	-	< 50	-	< 50	-
2-Methylnaphthalene	< 5	-	< 100	-	**7700**	-	**9300**	-	NA	-	NA	-	NA	-	NA	-	**21,000**	-	NA	-	NA	-	< 50	-	NA	-	**1200**	-	< 50	-	< 50	-	**470**	-	86	-
Naphthalene (PAH)	< 5	-	< 5	-	**1700**	-	**3200**	-	NA	-	NA	-	NA	-	NA	-	**6200**	-	NA	-	NA	-	< 50	-	NA	-	**880**	-	< 50	-	< 50	-	< 50	-	< 50	-
Phenanthrene	< 5	-	2400	-	1300	-	850	-	NA	-	NA	-	NA	-	NA	-	4500	-	NA	-	NA	-	< 50	-	NA	-	440	-	< 5	-	860	-	550	-	540	-
Pyrene	22	-	< 5	-	140	-	45	-	NA	-	NA	-	NA	-	NA	-	< 5	-	NA	-	NA	-	97	-	NA	-	12	-	28	-	400	-	140	-	110	-
TPH (mg/kg)																																				
DRO	1300	-	6300	-	3200	-	1700	-	650	E	1700	-	2900	-	1800	-	5700	-	4900	-	< 20	-	4600	-	1000	-	7100	-	280	-	6800	-	2800	-	5500	-
GRO	80	-	610	-	410	-	280	-	120	-	210	-	450	-	230	-	770	-	760	-	< 10	-	280	-	180	-	1600	-	18	-	1100	-	110	-	270	-
ORO	< 20	-	22	-	26	-	< 20	-	< 20	-	< 20	-	< 20	-	< 20	-	23	-	30	-	< 20	-	48	-	< 20	-	2100	-	100	-	84	-	220	-	390	-
TPH	1400	-	7000	-	3600	-	2000	-	770	-	1900	-	3400	-	2000	-	6500	-	5700	-	< 10	-	4900	-	1200	-	11,000	-	400	-	8000	-	3100	-	6200	-
VOCs (ug/kg)																																				
Benzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Bromobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Bromodichloromethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Bromoform	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Bromomethane	< 50	-	**56**	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
sec-Butylbenzene	< 50	-	820	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	2500	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
tert-Butylbenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	89	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
n-Butylbenzene	< 50	-	530	-	1400	-	2700	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	2000	-	< 50	-	1600	-	110	-	< 100	-
Carbon Disulfide	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Carbon Tetrachloride	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Chlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Chloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
2-Chloroethylvinylether	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Chloroform	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Chloromethane	< 50	-	**93**	-	**130**	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
2-Chlorotoluene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
4-Chlorotoluene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2-Dibromo-3-Chloropropane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Dibromochloromethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2-Dibromoethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Dibromomethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2-Dichlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,3-Dichlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,4-Dichlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1-Dichloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2-Dichloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1-Dichloroethene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
cis-1,2-Dichloroethene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
trans-1,2-Dichloroethene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Dichlorodifluoromethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Dichloromethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2-Dichloropropane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,3-Dichloropropane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
2,2-Dichloropropane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1-Dichloropropene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
cis-1,3-Dichloropropene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
trans-1,3-Dichloropropene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Ethylbenzene	< 50	-	< 50	-	< 100	-	**470**	-	NA	-	NA	-	NA	-	NA	-	**1300**	-	NA	-	NA	-	< 100	-	NA	-	**120**	-	< 50	-	**490**	-	< 100	-	< 100	-
Hexachlorobutadiene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Isopropyl benzene	< 50	-	570	-	120	-	250	-	NA	-	NA	-	NA	-	NA	-	**820**	-	NA	-	NA	-	< 100	-	NA	-	600	-	< 50	-	**960**	-	< 100	-	< 100	-
p-Isopropyltoluene	< 50	-	< 50	-	380	-	840	-	NA	-	NA	-	NA	-	NA	-	1900	-	NA	-	NA	-	< 100	-	NA	-	22,000	-	160	-	< 50	-	< 100	-	210	-
Methyl-tert-butyl ether	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Naphthalene (VOC)	< 50	-	< 50	-	**660**	-	**380**	-	NA	-	NA	-	NA	-	NA	-	**950**	-	NA	-	NA	-	**1100**	-	NA	-	**100**	-	< 50	-	**350**	-	**430**	-	**110**	-
n-Propylbenzene	< 50	-	160	-	260	-	730	-	NA	-	NA	-	NA	-	NA	-	**1600**	-	NA	-	NA	-	< 100	-	NA	-	**2500**	-	< 50	-	**4400**	-	< 100	-	190	-
Styrene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1,1,2-Tetrachloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1,2,2-Tetrachloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Tetrachloroethene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Toluene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2,3-Trichlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2,4-Trichlorobenzene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1,1-Trichloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,1,2-Trichloroethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Trichloroethene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
Trichlorofluoromethane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2,3-Trichloropropane	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	< 50	-	NA	-	NA	-	< 100	-	NA	-	< 50	-	< 50	-	< 50	-	< 100	-	< 100	-
1,2,4-Trimethylbenzene	< 50	-	< 50	-	**1800**	-	**2000**	-	NA	-	NA	-	NA	-	NA	-	**11,000**	-	NA	-	NA	-	**150**	-	NA	-	**15,000**	-	**57**	-	**140**	-	< 100	-	**520**	-
1,3,5-Trimethylbenzene	< 50	-	< 50	-	< 100	-	**1000**	-	NA	-	NA	-	NA	-	NA	-	**3300**	-	NA	-	NA	-	< 100	-	NA	-	**4200**	-	< 50	-	< 50	-	< 100	-	< 100	-
Vinyl Chloride	< 20	-	< 20	-	< 40	-	< 20	-	NA	-	NA	-	NA	-	NA	-	< 20	-	NA	-	NA	-	< 40	-	NA	-	< 20	-	< 20	-	< 20	-	< 40	-	< 40	-
m,p-xylene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	**1300**	-	NA	-	NA	-	< 100	-	NA	-	120	-	< 50	-	< 50	-	< 100	-	< 100	-
o-xylene	< 50	-	< 50	-	< 100	-	< 50	-	NA	-	NA	-	NA	-	NA	-	**570**	-	NA	-	NA	-	< 100	-	NA	-	170	-	< 50	-	< 50	-	< 100	-	< 100	-

Notes: NA for soil samples means that analysis was not performed.

NA for the screening levels means that there is no screening level or that level is not available.

Table C-2 Laser Induced Fluorescence Soil Sample Laboratory Analysis

Parameter Name	O17 12/8/2014 10.5 - 11.5 ft Result	Lab Qualifier	O19 12/8/2014 11 - 12 ft Result	Lab Qualifier	R28 12/9/2014 17.5 - 18.5 ft Result	Lab Qualifier	S41 12/9/2014 18.5 - 19.5 ft Result	Lab Qualifier	U25 12/8/2014 14.5 - 15.5 ft Result	Lab Qualifier	U25 12/8/2014 18 - 19 ft Result	Lab Qualifier	W15 12/8/2014 14.5 - 15.5 ft Result	Lab Qualifier	X18 12/8/2014 8.5 - 9.5 ft Result	Lab Qualifier	X18 12/8/2014 14.5 - 15 ft Result	Lab Qualifier	Y17 12/8/2014 9 - 10 ft Result	Lab Qualifier	Y17 12/8/2014 17 - 18 ft Result	Lab Qualifier	Z18 12/8/2014 12 - 13 ft Result	Lab Qualifier	Z22 12/8/2014 12 - 13 ft Result	Lab Qualifier	EPA MCL-based soil leaching to GW SSL	EPA Risk-based soil leaching to GW SSL	EPA RSL Industrial Soil	NDEP BCL Indoor Worker w/o Dermal	NDEP BCL Outdoor Worker	NDEP LBCL (DAF 1)	NDEP LBCL (DAF 20)
PAHs (ug/kg)																																	
Acenaphthene	98	-	230	-	NA	-	NA	-	47	-	NA	-	95	-	2000	-	1200	-	230	-	NA	-	120	-	2500	-	NA	5500	45,000,000	2,350,000	2,560,000	29,000	580,000
Acenaphthylene	< 5	-	< 5	-	NA	-	NA	-	< 5	-	NA	-	< 5	-	< 250	-	< 250	-	< 7.5	-	NA	-	< 7.5	-	< 2500	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	< 50	-	< 5	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 7.5	-	NA	-	< 7.5	-	< 25	-	NA	58,000	230,000,000	9,060,000	9,920,000	590,000	11,800,000
Benzo(a)anthracene	< 50	-	**67**	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 7.5	-	NA	-	< 750	-	< 2500	-	NA	12	2900	7840	2340	80	1600
Benzo(a)pyrene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	240	4	290	784	234	400	8000
Benzo(b)fluoranthene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	NA	41	2900	7840	2340	200	4000
Benzo(g,h,i)perylene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	NA	NA	NA	61,300,000	34,100,000	NA	NA
Benzo(k)fluoranthene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	NA	400	29,000	78,400	23,400	2000	40,000
Chrysene	< 50	-	77	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	15	-	NA	-	< 750	-	< 2500	-	NA	1200	290,000	784,000	234,000	8000	160,000
Dibenzo(a,h)anthracene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	NA	13	290	784	234	80	1600
Fluoranthene	< 50	-	160	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 7.5	-	NA	-	< 7.5	-	< 25	-	NA	89,000	30,000,000	81,800,000	24,400,000	210,000	4,200,000
Fluorene	120	-	530	-	NA	-	NA	-	< 5	-	NA	-	160	-	2800	-	2200	-	< 7.5	-	NA	-	2300	-	**7000**	-	NA	5400	30,000,000	3,440,000	3,670,000	28,000	560,000
Indeno(1,2,3-cd)pyrene	< 50	-	< 50	-	NA	-	NA	-	< 5	-	NA	-	< 500	-	< 250	-	< 250	-	< 75	-	NA	-	< 750	-	< 2500	-	NA	240	2900	7840	2340	700	14,000
2-Methylnaphthalene	**2900**	-	**530**	-	NA	-	NA	-	< 50	-	NA	-	**13,000**	-	**16,000**	-	**17,000**	-	< 75	-	NA	-	**25,000**	-	**43,000**	-	NA	190	3,000,000	NA	NA	NA	NA
Naphthalene (PAH)	**890**	-	**250**	-	NA	-	NA	-	< 50	-	NA	-	**3300**	-	**6100**	-	**5800**	-	< 75	-	NA	-	**7400**	-	**14,000**	-	NA	0.54	17,000	15,600	17,400	4000	80,000
Phenanthrene	760	-	930	-	NA	-	NA	-	< 5	-	NA	-	1700	-	4400	-	2900	-	< 7.5	-	NA	-	2800	-	3800	-	NA	NA	NA	24,500	24,500	NA	NA
Pyrene	140	-	220	-	NA	-	NA	-	17	-	NA	-	< 500	-	< 250	-	< 250	-	110	-	NA	-	< 7.5	-	< 2500	-	NA	13,000	23,000,000	24,300,000	19,300,000	210,000	4,200,000
TPH (mg/kg)																																	
DRO	1100	-	10,000	-	430	-	< 20	-	440	-	3400	-	7200	-	25,000	-	14,000	-	13,000	-	5000	-	11,000	-	39,000	-	NA	NA	NA	NA	NA	NA	NA
GRO	59	-	640	-	30	-	< 10	-	16	-	210	-	1200	-	3000	-	1800	-	1600	-	770	-	1600	-	5200	-	NA	NA	NA	NA	NA	NA	NA
ORO	66	-	470	E	< 20	-	< 20	-	< 20	-	38	-	36	-	340	-	160	-	140	-	70	-	65	-	110	-	NA	NA	NA	NA	NA	NA	NA
TPH	1200	-	11,000	-	460	-	< 10	-	460	-	3600	-	8400	-	28,000	-	16,000	-	15,000	-	5800	-	13,000	-	44,000	-	NA	NA	NA	NA	NA	NA	NA
VOCs (ug/kg)																																	
Benzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	2.6	0.23	5100	4210	4500	2	40
Bromobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	42	1,800,000	695,000	695,000	NA	NA
Bromodichloromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	22	0.036	1300	3360	3600	30	600
Bromoform	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	21	2.4	290,000	724,000	242,000	40	800
Bromomethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	1.9	30,000	39,100	42,900	10	200
sec-Butylbenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	1400	-	NA	-	< 100	-	3900	-	NA	5900	120,000,000	223,000	223,000	NA	NA
tert-Butylbenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	180	-	NA	1600	120,000,000	393,000	393,000	NA	NA
n-Butylbenzene	260	-	280	-	NA	-	NA	-	72	-	NA	-	2400	-	< 100	-	**3300**	-	**4600**	-	NA	-	**5000**	-	**8000**	-	NA	3200	58,000,000	237,000	237,000	NA	NA
Carbon Disulfide	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	240	3,500,000	721,000	721,000	2000	40,000
Carbon Tetrachloride	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.9	0.18	2900	3840	4070	3	60
Chlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	68	53	1,300,000	695,000	695,000	70	1400
Chloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	5900	57,000,000	1,550,000	1,100,000	NA	NA
2-Chloroethylvinylether	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	NA	NA	NA	NA
Chloroform	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	22	0.061	1400	1550	1710	30	600
Chloromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	49	460,000	8050	8950	NA	NA
2-Chlorotoluene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	200	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	230	23,000,000	511,000	511,000	NA	NA
4-Chlorotoluene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	240	23,000,000	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	0.086	0.00014	64	52.9	58.3	NA	NA
Dibromochloromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	21	0.045	3200	6030	6150	20	400
1,2-Dibromoethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	0.014	0.0021	160	177	185	NA	NA
Dibromomethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	2	98,000	191,000	210,000	NA	NA
1,2-Dichlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	580	300	9,300,000	373,000	373,000	900	18,000
1,3-Dichlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	373,000	373,000	NA	NA
1,4-Dichlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	72	0.46	11,000	13,600	14,300	100	2000
1,1-Dichloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	0.78	16,000	21,400	23,300	1000	20,000
1,2-Dichloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.4	0.048	2000	2240	2410	1	20
1,1-Dichloroethene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	2.5	100	1,000,000	1,270,000	1,400,000	3	60
cis-1,2-Dichloroethene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	21	11	2,300,000	737,000	791,000	20	400
trans-1,2-Dichloroethene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	29	110	23,000,000	547,000	600,000	30	600
Dichlorodifluoromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	300	370,000	340,000	340,000	NA	NA
Dichloromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.3	2.9	1,000,000	58,500	60,400	1	20
1,2-Dichloropropane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.7	0.15	4400	4290	4540	1	20
1,3-Dichloropropane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	130	23,000,000	64,600	71,600	1	20
2,2-Dichloropropane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	**360**	-	**840**	-	**680**	-	**1700**	-	NA	-	**520**	-	**2200**	-	780	1.7	25,000	19,600	21,000	700	14,000
Hexachlorobutadiene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	0.57	30,000	73,400	24,600	100	2000
Isopropyl benzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	290	-	**740**	-	510	-	**1100**	-	NA	-	340	-	**1600**	-	NA	740	9,900,000	647,000	647,000	NA	NA
p-Isopropyltoluene	150	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	870	-	1000	-	860	-	2000	-	NA	-	700	-	4300	-	NA	NA	NA	647,000	647,000	NA	NA
Methyl-tert-butyl ether	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	3.2	210,000	208,000	216,000	NA	NA
Naphthalene (VOC)	**280**	-	**92**	-	NA	-	NA	-	**270**	-	NA	-	**670**	-	**930**	-	**1600**	-	**420**	-	NA	-	**1300**	-	**6300**	-	NA	0.54	17,000	15,600	17,400	4000	80,000
n-Propylbenzene	120	-	110	-	NA	-	NA	-	< 50	-	NA	-	830	-	**1200**	-	1100	-	**1300**	-	NA	-	930	-	**3200**	-	NA	1200	22,000,000	237,000	237,000	NA	NA
Styrene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	110	1300	35,000,000	1,730,000	1,730,000	200	4000
1,1,1,2-Tetrachloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	0.22	8800	19,900	20,300	NA	NA
1,1,2,2-Tetrachloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	0.03	2700	2540	2590	0.2	4
Tetrachloroethene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	2.3	5.1	100,000	4080	3280	3	60
Toluene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	180	-	690	760	47,000,000	521,000	521,000	600	12,000
1,2,3-Trichlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	21	660,000	NA	NA	NA	NA
1,2,4-Trichlorobenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	200	3.3	110,000	197,000	110,000	300	6000
1,1,1-Trichloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	70	2800	36,000,000	1,390,000	1,390,000	100	2000
1,1,2-Trichloroethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.6	0.089	5000	5510	5800	0.9	18
Trichloroethene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	1.8	0.18	6000	7540	5490	3	60
Trichlorofluoromethane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	730	3,100,000	1,980,000	1,980,000	NA	NA
1,2,3-Trichloropropane	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	< 50	-	< 100	-	< 100	-	< 100	-	NA	-	< 100	-	< 100	-	NA	0.00032	110	191	106	NA	NA
1,2,4-Trimethylbenzene	**320**	-	< 50	-	NA	-	NA	-	**50**	-	NA	-	**4800**	-	**7900**	-	**8200**	-	**690**	-	NA	-	**8500**	-	**24,000**	E	NA	21	240,000	604,000	671,000	NA	NA
1,3,5-Trimethylbenzene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	**1300**	-	**2500**	-	**2200**	-	< 100	-	NA	-	**1300**	-	**7600**	-	NA	170	12,000,000	246,000	254,000	NA	NA
Vinyl Chloride	< 40	-	< 20	-	NA	-	NA	-	< 20	-	NA	-	< 20	-	< 40	-	< 40	-	< 40	-	NA	-	< 40	-	< 40	-	0.69	0.0065	1700	2120	1860	0.7	14
m,p-xylene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	**210**	-	**930**	-	**820**	-	**260**	-	NA	-	**390**	-	**2500**	-	NA	190	2,400,000	214,000	214,000	10,000	200,000
o-xylene	< 100	-	< 50	-	NA	-	NA	-	< 50	-	NA	-	84	-	110	-	**230**	-	**450**	-	NA	-	100	-	**2800**	-	NA	190	2,800,000	282,000	282,000	9000	180,000

Notes: NA for soil samples means t

NA for the screening levels means t

Table C-3 UVOST Data at Soil Sample Interval

Note: Total Signal = %RE, channels are wavelengths

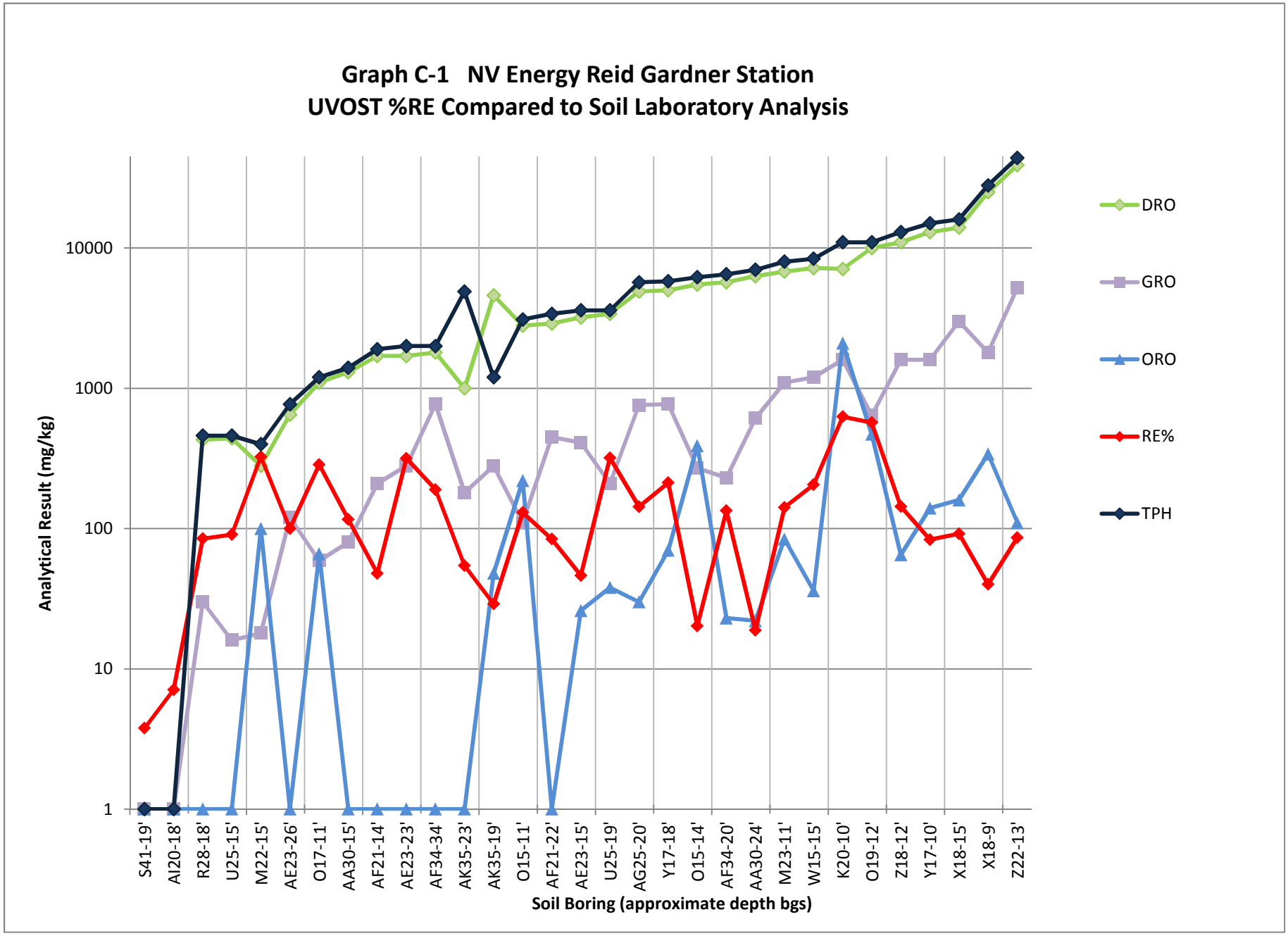
Soil Sample	Depth	TotalSignal	Ch1	Ch2	Ch3	Ch4
	14.674	136.398	44.409	48.373	27.772	15.844
AA30	14.801	157.926	52.922	56.107	31.664	17.232
12/9/2014	14.918	139.023	46.152	49.31	28.263	15.298
14.5 - 15.5 ft	15.041	99.461	32.353	35.736	20.265	11.106
TPH = 1400	15.135	83.901	27.33	29.959	17.243	9.37
	15.197	98.346	32.213	34.762	20.288	11.082
	15.3	120.779	39.292	42.826	25.012	13.649
	15.402	121.733	40.45	43.363	24.907	13.012
	15.482	89.733	29.718	31.795	18.318	9.902
	Average	**116.37**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	23.031	19.727	6.869	7.019	3.736	2.102
	23.044	21.732	7.495	7.627	4.212	2.398
AA30	23.066	20.443	7.235	7.106	3.965	2.137
12/9/2014	23.097	20.648	7.271	7.166	3.943	2.268
23 - 24 ft	23.146	19.198	6.727	6.743	3.646	2.082
TPH = 7000	23.185	23.692	8.43	8.258	4.475	2.528
	23.21	28.15	9.91	9.774	5.533	2.932
	23.249	39.678	13.732	14.107	7.686	4.153
	23.279	40.992	14.307	14.494	7.875	4.316
	23.314	82.917	27.41	30.011	16.637	8.859
	23.355	24.341	8.36	8.604	4.747	2.631
	23.39	31.217	10.537	11.131	6.134	3.416
	23.413	29.011	9.746	10.396	5.823	3.045
	23.437	21.193	7.42	7.656	4.044	2.072
	23.454	4.2	1.375	1.374	0.836	0.615
	23.476	0.969	0.3	0.301	0.236	0.131
	23.491	1.115	0.363	0.335	0.252	0.166
	23.505	1.218	0.364	0.4	0.277	0.178
	23.511	0.858	0.235	0.291	0.21	0.121
	23.532	0.539	0.136	0.17	0.149	0.084
	23.536	0.476	0.123	0.122	0.124	0.108
	23.544	0.411	0.115	0.116	0.132	0.048
	23.548	0.466	0.118	0.138	0.129	0.08
	Average	**18.83**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AE23	14.022	44.1	13.877	16.668	9.768	3.787
12/9/2014	14.04	36.578	11.472	13.688	8.058	3.36
14 - 15 ft	14.128	65.035	19.93	24.468	14.781	5.856
TPH = 3600	14.198	57.906	19.535	21.448	12.546	4.377
	14.299	67.92	23.159	25.178	14.34	5.243
	14.432	78.539	26.139	29.413	16.717	6.27
	14.522	59.928	19.995	22.079	12.705	5.149
	14.629	32.45	10.327	11.538	7.487	3.098
	14.727	29.305	9.205	10.466	6.799	2.835
	14.832	21.606	7.203	7.837	4.927	1.639
	14.941	16.35	5.193	5.855	3.779	1.524
	Average	**46.34**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	22.502	186.627	47.748	70.565	45.251	23.062
	22.578	254.761	61.529	97.306	64.373	31.553
AE23	22.66	287.471	67.783	110.311	72.834	36.543
12/9/2014	22.756	350.087	80.73	135.264	89.073	45.02
22.5 - 23.5 ft	22.838	328.207	76.12	126.113	83.466	42.508
TPH = 2000	22.918	379.723	86.729	146.166	98.013	48.815
	22.994	385.612	88.554	148.985	98.65	49.422
	23.085	397.566	90.882	153.381	101.871	51.432
	23.165	416.626	94.496	160.761	107.405	53.964
	23.249	364.934	84.641	140.516	93.129	46.649
	23.341	255.582	60.207	97.897	64.41	33.068
	23.417	256.921	61.234	98.87	63.979	32.837
	23.495	260.64	63.306	100.131	64.504	32.698
	Average	**317.29**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	25.503	80.499	19.332	29.995	20.477	10.695
	25.517	70.684	16.837	26.494	18.134	9.219
	25.57	71.244	16.946	26.79	18.022	9.485
AE23	25.582	70.749	16.916	26.2	18.012	9.62
12/9/2014	25.689	72.953	17.384	27.15	18.712	9.708
25.5 - 26.5 ft	25.781	75.349	17.901	28	19.274	10.174
TPH = 770	25.882	120.703	28.253	45.16	30.633	16.657
	25.962	196.751	48.099	73.078	49.737	25.837
	26.075	142.619	35.595	53.91	36.701	16.412
	26.151	156.302	38.288	58.748	38.709	20.557
	26.22	109.796	27.257	41.082	27.342	14.115
	26.3	78.74	18.84	29.221	19.971	10.707
	26.399	76.438	18.614	28.203	19.185	10.435
	26.473	77.79	18.965	28.711	19.307	10.807
	Average	**100.04**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	13.517	37.745	13.464	12.599	7.89	3.792
AF21	13.618	53.634	20.308	18.059	10.569	4.699
12/9/2014	13.716	74.299	28.208	25.756	14.074	6.26
13.5 - 14.5 ft	13.827	41.826	15.28	14.06	8.28	4.205
TPH = 1900	13.917	47.93	17.866	16.044	9.47	4.55
	14.03	48.459	18.067	16.238	9.62	4.534
	14.126	46.999	17.472	15.63	9.317	4.581
	14.221	27.476	9.154	8.773	6.233	3.316
	14.303	24.848	8.118	8.002	5.746	2.983
	14.397	76.027	25.596	27.616	15.786	7.03
	Average	**47.92**				

Soil Sample		UVOST raw data for soil sample interval				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AF21	21.054	73.587	23.729	25.863	15.732	8.263
12/9/2014	21.159	85.402	27.422	29.575	18.239	10.166
21 - 22 ft	21.214	82.361	27.815	28.739	17.14	8.667
TPH = 3400	21.286	101.146	36.328	36.199	19.861	8.758
	21.36	94.823	32.554	33.638	19.118	9.512
	21.444	96.899	33.392	34.337	19.754	9.417
	21.522	88.026	30.019	30.78	18.213	9.015
	21.606	65.139	22.185	22.766	13.585	6.603
	21.688	93.525	32.512	33.226	18.714	9.073
	21.795	72.35	23.86	25.253	15.215	8.022
	21.893	84.45	28.622	29.137	17.481	9.211
	21.979	72.346	23.671	25.121	15.187	8.366
	Average	**84.17**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AF34	19.61	114.534	39.184	40.675	22.539	12.136
12/9/2014	19.742	146.767	46.532	53.793	30.227	16.215
19.5 - 20 ft	19.867	129.012	44.265	46.08	25.476	13.191
TPH = 2000	20	145.979	51.049	52.329	28.013	14.588
	Average	**134.07**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AF34	33.031	143.401	50.522	49.837	27.931	15.11
12/9/2014	33.124	251.273	84.86	88.89	48.841	28.683
33 - 34 ft	33.206	261.445	87.649	93.432	51.435	28.928
TPH = 6500	33.277	286.887	95.067	101.534	56.68	33.607
	33.345	269.805	89.618	95.275	53.544	31.368
	33.396	263.471	87.961	93.574	52.614	29.322
	33.476	133.668	43.563	47.607	27.424	15.074
	33.556	105.82	34.539	37.156	21.171	12.955
	33.636	165.461	53.914	58.32	33.398	19.83
	33.724	145.391	47.604	50.895	28.914	17.977
	33.839	136.774	44.67	47.69	27.473	16.941
	33.938	112.75	36.546	39.691	22.968	13.545
	Average	**189.68**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AG25	19.477	175.697	62.62	63.929	34.159	14.988
12/9/2014	19.633	133.325	49.155	47.899	24.958	11.313
19.5 - 20 ft	19.637	133.433	49.468	48.099	25.421	10.444
TPH = 5700	19.647	132.853	48.949	47.783	25.12	11.002
	19.686	90.756	33.965	32.026	16.792	7.972
	19.723	95.481	35.863	34.044	17.677	7.896
	19.822	148.15	55.366	52.693	27.692	12.398
	19.891	159.384	60.11	56.516	29.531	13.227
	19.959	114.236	43.743	40.294	21.222	8.977
	20.006	248.787	89.42	89.613	47.925	21.829
	Average	**143.21**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AI20	17.523	7.477	1.401	2.058	2.488	1.529
12/9/2014	17.566	7.409	1.438	2.033	2.482	1.455
17.5 - 18 ft	17.594	7.325	1.474	1.958	2.484	1.409
TPH = <10	17.619	7.441	1.509	2.048	2.382	1.502
	17.666	7.286	1.412	2.056	2.426	1.392
	17.678	7.002	1.352	1.923	2.317	1.41
	17.713	7.112	1.437	1.935	2.291	1.45
	17.728	7.398	1.441	1.964	2.387	1.607
	17.748	7.291	1.498	1.995	2.325	1.473
	17.779	7.303	1.492	1.925	2.386	1.501
	17.81	7.246	1.428	1.988	2.399	1.432
	17.838	6.878	1.398	1.872	2.24	1.368
	17.863	6.816	1.363	1.803	2.283	1.367
	17.9	6.814	1.308	1.822	2.279	1.405
	17.923	6.854	1.385	1.866	2.211	1.392
	17.964	6.53	1.254	1.762	2.203	1.311
	17.986	6.412	1.228	1.8	2.126	1.258
	Average	**7.09**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AK35	18.476	18.309	6.597	5.603	3.935	2.174
12/9/2014	18.942	52.653	20.776	17.795	10.04	4.043
18.5 - 19.5 ft	19.141	20.777	7.651	7.076	4.484	1.566
TPH = 4900	19.672	24.31	9.183	8.72	4.874	1.533
	Average	**29.01**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
AK35	21.3	47.75	16.774	17.71	9.353	3.913
12/9/2014	21.62	20.916	6.964	7.494	4.546	1.913
21.5 - 22.5 ft	22.049	26.081	7.992	9.41	5.971	2.708
TPH = 1200	22.445	54.285	17.515	20.281	11.544	4.945
	22.685	122.881	40.082	46.02	25.254	11.525
	Average	**54.38**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	9.813	789.934	120.082	276.389	251.947	141.516
K20	9.92	850.261	128.948	303.96	269.96	147.393
12/8/2014	10.025	786.747	119.473	282.995	251.348	132.931
10 - 10 ft	10.109	406.293	71.756	148.862	121.981	63.694
TPH = 11000	10.187	305.153	60.91	115.613	86.51	42.12
	Average	**627.68**				

Soil Sample	UVOST raw data for soil sample interval					
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
M22	14.822	799.699	163.264	279.467	214.243	142.725
12/8/2014	14.984	623.79	134.412	218.96	164.268	106.149
15 - 15 ft	15.154	132.912	31.152	45.953	33.773	22.034
TPH = 400	15.314	54.612	13.212	18.263	14.074	9.062
	15.429	15.388	3.032	4.881	4.574	2.9
	Average	**325.28**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
M23	10.476	132.783	31.278	47.291	34.53	19.683
12/9/2014	10.617	119.671	28.242	42.876	30.84	17.713
10.5 - 11.5 ft	10.802	202.899	43.072	74.525	54.68	30.621
TPH = 8000	11.091	157.268	31.722	58.298	42.876	24.372
	11.405	95.372	20.31	35.952	25.357	13.752
	Average	**141.60**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
O15	10.047	16.219	2.054	6.163	5.257	2.745
12/8/2014	10.213	54.381	7.899	19.672	17.447	9.363
10 - 11 ft	10.338	65.891	8.74	25.947	20.953	10.252
TPH = 3100	10.472	217.326	28.625	75.834	69.185	43.682
	10.587	448.399	52.251	176.395	147.765	71.988
	10.679	261.543	32.276	104.905	83.584	40.778
	10.755	102.455	12.119	39.926	33.38	17.03
	10.857	87.396	10.92	34.533	27.92	14.023
	10.919	39.359	4.903	15.503	12.685	6.267
	10.991	9.855	1.496	3.65	3.075	1.635
	Average	**130.28**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	13.562	7.045	1.351	2.559	2.042	1.093
O15	13.61	7.599	1.405	2.746	2.234	1.214
12/8/2014	13.667	8.54	1.55	3.117	2.53	1.343
13.5 - 14.5 ft	13.712	11.55	1.994	4.356	3.442	1.759
TPH = 6200	13.753	18.12	2.944	6.836	5.548	2.791
	13.811	18.004	2.9	6.985	5.398	2.721
	13.843	21.56	3.46	8.303	6.545	3.253
	13.897	60.413	10.229	24.148	17.425	8.611
	13.952	30.779	5.126	12.013	9.05	4.591
	14.001	21.004	3.62	8.074	6.081	3.229
	14.044	17.799	3.164	6.833	5.124	2.678
	Average	**20.22**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
O17	10.56	278.57	55.97	109.836	74.777	37.988
12/8/2014	10.574	316.558	65.77	124.384	83.427	42.977
10.5 - 11.5 ft	10.576	317.322	65.409	124.796	83.123	43.993
TPH = 1200	10.603	314.779	65.103	123.25	82.525	43.901
	10.724	357.368	73.883	139.468	93.982	50.035
	10.861	544.023	102.014	213.396	147.896	80.718
	10.989	483.196	94.717	189.953	129.669	68.856
	11.085	442.074	84.303	174.285	120.092	63.394
	11.208	113.865	23.578	44.878	29.774	15.635
	11.315	64.381	13.812	25.126	16.523	8.92
	11.388	48.278	10.52	18.448	12.288	7.022
	11.499	151.39	31.149	59.273	39.646	21.322
	Average	**285.98**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
O19	10.976	549.028	66.745	210.171	179.039	93.074
12/8/2014	11.229	581.956	71.714	219.768	188.473	102.001
11 - 12 ft	11.403	548.358	68.852	209.411	177.257	92.838
TPH = 11000	11.493	596.329	76.832	228.146	191.38	99.971
	11.594	660.145	86.586	252.079	209.297	112.184
	11.671	711.339	90.825	271.379	229.93	119.205
	11.766	584.286	78.317	224.951	187.219	93.799
	11.854	435.973	58.491	168.752	138.575	70.156
	11.981	466.759	63.279	180.172	146.251	77.057
	Average	**570.46**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
R28	17.594	38.38	11.811	13.078	8.236	5.254
12/9/2014	17.717	40.799	12.394	14.094	8.666	5.645
17.5 - 18.5 ft	17.748	62.388	18.322	21.599	13.447	9.021
TPH = 460	17.75	61.471	17.823	21.571	13.348	8.728
	17.756	61.709	18.256	21.596	13.138	8.719
	17.953	124.94	36.834	44.026	26.705	17.374
	18.046	157.998	46.886	56.212	33.3	21.601
	18.261	117.091	35.764	41.245	24.691	15.391
	18.431	98.34	29.504	34.575	20.877	13.384
	Average	**84.79**				

Soil Sample		UVOST raw data for soil sample interval				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
S41	18.657	6.192	0.686	1.564	2.349	1.594
12/9/2014	18.792	6.183	0.739	1.464	2.391	1.589
18.5 - 19.5 ft	18.891	5.89	0.708	1.472	2.183	1.528
TPH = <10	18.987	4.811	0.625	1.155	1.836	1.196
	19.083	3.403	0.523	0.842	1.195	0.843
	19.172	2.913	0.481	0.743	1.028	0.661
	19.176	2.574	0.47	0.591	0.948	0.566
	19.186	2.754	0.469	0.638	1.017	0.629
	19.243	2.672	0.481	0.671	0.962	0.559
	19.36	2.201	0.44	0.516	0.802	0.442
	19.463	1.967	0.388	0.506	0.691	0.382
	Average	**3.78**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
U25	14.555	65.107	22.904	21.912	12.781	7.511
12/8/2014	14.742	75.627	27.202	25.701	14.096	8.629
14.5 - 15.5 ft	14.852	95.311	33.933	32.115	18.205	11.058
TPH = 460	15.01	140.658	50.383	48.06	26.064	16.151
	15.181	92.916	33.785	31.912	17.871	9.347
	15.289	84.238	29.811	28.526	15.956	9.946
	15.302	84.099	29.581	28.537	15.837	10.144
	15.369	86.925	30.567	29.72	16.742	9.896
	Average	**90.61**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
U25	18.054	270.917	69.082	99.058	64.798	37.98
12/8/2014	18.234	282.308	70.304	102.894	68.856	40.254
18 - 19 ft	18.421	299.6	81.198	108.887	69.945	39.57
THP = 3600	18.581	451.686	126.216	165.523	102.422	57.526
	18.765	337.77	99.207	122.063	74.719	41.781
	18.909	273.117	74.433	99.152	63.373	36.159
	Average	**319.23**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
W15	14.535	106.132	33.408	36.385	22.584	13.756
12/8/2014	14.596	107.329	33.304	37.074	23.106	13.845
14.5 - 15.5 ft	14.641	71.74	22.957	24.875	15.252	8.656
TPH = 8400	14.695	163.431	48.45	59.259	36.021	19.701
	14.762	368.986	107.696	133.567	82.75	44.973
	14.813	267.749	83.567	95.103	57.475	31.604
	14.877	257.229	78.566	92.418	56.352	29.893
	14.928	37.336	12.188	13.134	8.054	3.961
	14.984	120.289	37.523	42.925	25.729	14.111
	15.041	258.341	79.76	92.003	55.986	30.591
	15.101	185.186	60.052	65.307	39.033	20.795
	15.154	148.107	49.073	51.37	30.321	17.343
	15.207	239.565	76.211	84.603	51.004	27.747
	15.259	270.567	82.416	95.931	59.434	32.785
	15.328	351.16	104.666	124.426	78.623	43.446
	15.384	301.856	91.955	106.57	66.84	36.491
	15.421	211.939	69.138	74.964	45.035	22.802
	15.423	231.007	74.759	81.356	48.809	26.083
	Average	**205.44**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
X18	8.523	6.78	1.242	1.857	2.144	1.538
12/8/2014	8.606	18.89	4.207	5.877	5.504	3.302
8.5 - 9.5 ft	8.679	85.165	21.362	29.083	23.017	11.703
TPH = 28000	8.745	84.068	22.273	29.192	22.07	10.532
	8.794	93.258	23.766	32.751	24.988	11.753
	8.833	65.051	17.018	22.623	17.102	8.309
	8.901	28.494	9.421	9.935	6.402	2.736
	8.981	36.362	11.64	12.666	8.42	3.636
	9.061	39.007	11.226	13.438	9.785	4.557
	9.128	33.964	9.19	11.54	8.814	4.42
	9.19	34.888	10.451	12.021	8.461	3.955
	9.266	18.968	6.204	6.535	4.328	1.901
	9.36	21.512	7.2	7.475	4.699	2.137
	9.422	14.994	5.027	5.137	3.379	1.451
	9.494	18.882	6.338	6.621	4.193	1.73
	Average	**40.02**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	14.53	2.792	0.89	0.919	0.623	0.361
X18	14.543	2.526	0.745	0.867	0.563	0.351
12/8/2014	14.574	1.425	0.49	0.446	0.336	0.153
14.5 - 15 ft	14.602	1.28	0.419	0.437	0.276	0.148
TPH = 16000	14.617	2.056	0.622	0.692	0.474	0.268
	14.641	1.3	0.446	0.394	0.307	0.153
	14.658	1.165	0.391	0.347	0.322	0.106
	14.68	1.16	0.403	0.353	0.265	0.137
	14.701	1.354	0.463	0.428	0.307	0.156
	14.723	1.177	0.418	0.363	0.292	0.104
	14.748	6.104	1.835	2.027	1.358	0.884
	14.77	5.009	1.52	1.67	1.125	0.695
	14.807	3.582	1.192	1.176	0.763	0.451
	14.83	52.372	11.628	14.753	12.97	13.02
	14.842	296.56	76.945	107.646	70.248	41.721
	14.869	404.525	116.774	149.551	88.334	49.866
	14.898	395.134	115.623	145.656	86.058	47.797
	14.92	289.493	87.628	105.432	62.156	34.277
	14.953	132.48	39.929	47.093	27.565	17.893
	14.992	236.264	70.891	86.47	50.159	28.745
	Average	**91.89**				

Soil Sample	UVOST raw data for soil sample interval					
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	9.081	49.783	16.056	18.347	11.158	4.221
	9.2	85.129	25.595	32.222	19.754	7.557
	9.315	73.384	22.704	27.605	16.781	6.294
Y17	9.442	178.542	51.656	67.191	43.466	16.229
12/8/2014	9.571	175.08	55.142	65.975	40.453	13.51
9 - 10 ft	9.651	143.613	44.41	54.455	33.191	11.557
TPH = 15000	9.701	11.394	4.034	4.158	2.521	0.681
	9.75	12.809	4.204	4.719	2.876	1.01
	9.826	25.59	8.202	9.445	5.688	2.255
	9.912	79.136	20.531	27.365	21.897	9.343
	Average	**83.446**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	17.012	46.925	17.119	16.798	9.163	3.845
	17.067	24.56	8.916	8.729	4.768	2.147
	17.096	32.842	11.895	11.684	6.3	2.963
Y17	17.133	32.465	11.585	11.674	6.383	2.823
12/8/2014	17.176	157.027	40.194	51.683	42.302	22.848
17 - 18 ft	17.194	320.761	106.627	119.483	65.508	29.143
TPH = 5800	17.205	311.687	104.752	115.226	62.564	29.144
	17.211	313.466	99.998	116.076	66.41	30.982
	17.248	314.596	98.609	116.126	68.328	31.533
	17.291	296.314	96.152	110.146	61.024	28.991
	17.33	307.206	100.056	114.428	64.266	28.456
	17.365	352.324	109.184	130.636	76.124	36.381
	17.402	342.51	106.723	127.774	73.988	34.024
	17.461	392.406	112.971	147.973	89.473	41.988
	17.508	303.179	88.359	113.039	69.748	32.034
	17.535	124.294	35.527	47.125	28.949	12.693
	17.582	258.829	74.475	98.45	58.9	27.003
	17.627	217.613	66.624	81.474	48.32	21.196
	17.676	115.747	36.113	43.094	24.491	12.049
	17.711	69.241	23.755	24.936	13.56	6.99
	17.777	127.91	39.959	47.406	27.811	12.734
	Average	**212.4715238**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	12.016	353.991	91.644	133.794	85.492	43.061
	12.141	232.539	63.263	87.077	54.115	28.083
	12.264	129.583	37.397	47.766	28.66	15.759
Z18	12.381	104.441	30.781	38.732	23.221	11.708
12/8/2014	12.496	106.624	30.566	39.753	24.253	12.051
12 - 13 ft	12.611	170.41	45.544	62.644	40.71	21.512
TPH = 13000	12.726	120.798	31.685	43.88	29.393	15.84
	12.8	71.439	17.057	25.624	18.464	10.294
	12.89	70.275	17.973	26.155	17.026	9.12
	12.972	76.955	18.297	29.333	19.204	10.121
	Average	**143.7055**				
	Depth	**TotalSignal**	**Ch1**	**Ch2**	**Ch3**	**Ch4**
	12.004	20.455	7.869	7.391	3.618	1.577
	12.057	7.919	3.073	2.785	1.409	0.652
	12.112	40.764	12.907	14.856	8.951	4.049
	12.174	117.343	42.401	42.609	22.31	10.024
Z22	12.225	54.422	20.341	19.522	10.058	4.501
12/8/2014	12.26	112.777	40.393	40.637	21.407	10.34
12 - 13 ft	12.318	51.525	18.139	18.217	9.664	5.505
TPH = 44000	12.352	103.489	36.743	37.286	19.986	9.475
	12.4	217.567	74.698	79.896	42.349	20.624
	12.436	228.555	77.586	84.143	45.776	21.05
	12.471	207.367	72.096	76.231	40.998	18.042
	12.504	203.962	72.101	74.407	40.145	17.308
	12.541	224.192	75.865	82.862	44.828	20.637
	12.57	107.183	37.196	38.952	20.631	10.405
	12.621	27.88	9.963	10.233	5.712	1.971
	12.65	44.313	15.13	15.67	8.887	4.626
	12.693	30.094	10.553	10.762	5.982	2.798
	12.744	26.255	9.395	9.226	5.095	2.538
	12.761	23.225	8.105	8.083	4.715	2.322
	12.789	24.777	8.595	8.683	4.947	2.552
	12.816	27.173	9.141	9.558	5.703	2.772
	12.847	23.285	7.823	8.181	4.775	2.506
	12.873	22.258	7.514	7.879	4.573	2.291
	12.902	35.818	12.258	12.799	7.022	3.739
	12.925	110.726	32.808	41.335	24.622	11.961
	12.959	115.117	40.928	41.199	22.223	10.767
	12.988	119.173	42.288	43.032	22.833	11.02
	Average	**86.20792593**				


Graph C-1 NV Energy Reid Gardner Station
UVOST %RE Compared to Soil Laboratory Analysis
Analytical Result (mg/kg)
10000
1000
100
10
1
S41-19'
AI20-18'
R28-18'
U25-15'
M22-15'
AE23-26'
O17-11'
AA30-15'
AF21-14'
AE23-23'
AF34-34'
AK35-23'
AK35-19'
O15-11'
AF21-22'
AE23-15'
U25-19'
AG25-20'
Y17-18'
O15-14'
AF34-20'
AA30-24'
M23-11'
W15-15'
K20-10'
O19-12'
Z18-12'
Y17-10'
X18-15'
X18-9'
Z22-13'
Soil Boring (approximate depth bgs)
DRO
GRO
ORO
RE%
TPH

Appendix D

Laboratory Reports

Veritas Laboratories
Truth in Quality, Truth in Service

6245 Harrison Drive, Suite 4, Las Vegas, NV 89120

(702) 321-8315 Phone
(702) 597-2098 Fax
Email: veritaslabs@msn.com

CLIENT NAME:	Stanley Consultants, Las Vegas 5820 S. Eastern Ave., Suite 200 Las Vegas, NV 89119
PROJECT MGR:	Jonathan Sarich

CLIENT PROJECT NAME:	**NV Energy LIF Investigation**
CLIENT PROJECT NUMBER:	NA
VERITAS LAB ORDER ID:	V14L034
DATE RECEIVED AT LAB:	Dec-08-2014 17:00

Presented herein are the analytical results for samples received from the above referenced project.

Unless otherwise indicated on the chain of custody or in the report case narrative, samples submitted for this project were not sampled by Veritas Laboratories, were received in good condition, properly preserved, within the proper temperature range, and within the recommended holding time for the requested analyses.

All laboratory analytical data presented herein was generated by a laboratory certified by the Nevada Division of Environmental Protection for each constituent and media reported for which a certification is required and offered. All analyses reported were performed by Veritas Laboratories unless otherwise indicated on the data pages.

Should you have any questions or comments regarding this report or if we can be of further service to you, please do not hesitate to contact me at (702) 321-8315.

Sincerely,

Bruce G. Cunningham
Laboratory Director
Veritas Laboratories
Nevada Lab Certification ID NV00918

1/5/15
Date

Veritas Laboratories
Truth in Quality, Truth in Service
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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

SAMPLE SUMMARY

CLIENT SAMPLE ID	VERITAS SAMPLE ID	MATRIX	DATE/TIME COLLECTED	DATE/TIME RECEIVED
K20 10'	V14L034-01	Soil	12/8/14 8:00	12/8/14 17:00
M22 15'	V14L034-02	Soil	12/8/14 8:40	12/8/14 17:00
Y17 9-10'	V14L034-03	Soil	12/8/14 9:20	12/8/14 17:00
Y17 17-18'	V14L034-04	Soil	12/8/14 9:40	12/8/14 17:00
O19 11-12'	V14L034-05	Soil	12/8/14 10:30	12/8/14 17:00
O17 10.5-11.5'	V14L034-06	Soil	12/8/14 10:50	12/8/14 17:00
Z18 12-13'	V14L034-07	Soil	12/8/14 11:30	12/8/14 17:00
O15 10-11'	V14L034-08	Soil	12/8/14 12:25	12/8/14 17:00
O15 13.5-14.5'	V14L034-09	Soil	12/8/14 12:30	12/8/14 17:00
X18 8.5-9.5'	V14L034-10	Soil	12/8/14 13:05	12/8/14 17:00
X18 14.5-15'	V14L034-11	Soil	12/8/14 13:15	12/8/14 17:00
W15 14.5-15.5'	V14L034-12	Soil	12/8/14 13:40	12/8/14 17:00
U25 14.5-15.5'	V14L034-13	Soil	12/8/14 14:35	12/8/14 17:00
U25 18-19'	V14L034-14	Soil	12/8/14 14:45	12/8/14 17:00
Z22 12-13'	V14L034-15	Soil	12/8/14 15:20	12/8/14 17:00

Veritas Laboratories
Truth in Quality, Truth in Service
6245 Harrison Drive, Suite 4, Las Vegas, NV 89120
(702) 321-8315 Phone
(702) 597-2098 Fax
Email: veritaslabs@msn.com

CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **K20 10'** DATE/TIME SAMPLED: 12/8/14 8:00
VERITAS SAMPLE ID: V14L034-01 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**1200**	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	83-32-9	AST
Acenaphthylene	**200**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	208-96-8	AST
Anthracene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	120-12-7	AST
Benzo(a)anthracene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	206-44-0	AST
Fluorene	**220**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**880**	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**440**	75	µg/Kg	15	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**12**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*152*	*20-120*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*2199-69-1*	*S1*
Surrogate: 2-Fluorobiphenyl	*108*	*27-120*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*105*	*26-132*	*% Recovery*	*15*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*67.6*	*25-139*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**11000**	500	mg/Kg	50	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**1600**	500	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**7100**	1000	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**2100**	1000	mg/Kg	50	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*50*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*50*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **K20 10'**
VERITAS SAMPLE ID: V14L034-01
DATE/TIME SAMPLED: 12/8/14 8:00
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**2000**	1000	ug/Kg	200	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **K20 10'**
VERITAS SAMPLE ID: V14L034-01
DATE/TIME SAMPLED: 12/8/14 8:00
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**120**	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**600**	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**22000**	2500	ug/Kg	500	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**100**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**2500**	1000	ug/Kg	200	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**4200**	1000	ug/Kg	200	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**15000**	1000	ug/Kg	200	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**120**	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**170**	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*402*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*80.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*75.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*93.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M22 15'** DATE/TIME SAMPLED: 12/8/14 8:40
VERITAS SAMPLE ID: V14L034-02 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	85-01-8	AST
Pyrene	**28**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*90.1*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*52.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*71.1*	*26-132*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*20.0*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	*S1*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**400**	10	mg/Kg	1	Calculation	12/10/14	NA	
TPH-GRO (C6-C12)	**18**	10	mg/Kg	1	EPA 8015M	12/10/14	NA	
TPH-DRO (>C12-C28)	**280**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
TPH-ORO (>C28-C35)	**100**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene	*105*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	
Surrogate: Pentacosane	*120*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M22 15'**
VERITAS SAMPLE ID: V14L034-02
DATE/TIME SAMPLED: 12/8/14 8:40
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M22 15'** DATE/TIME SAMPLED: 12/8/14 8:40
VERITAS SAMPLE ID: V14L034-02 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**160**	50	ug/Kg	10	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**57**	50	ug/Kg	10	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*156*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*75.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*71.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*92.0*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Y17 9-10'** DATE/TIME SAMPLED: 12/8/14 9:20
VERITAS SAMPLE ID: V14L034-03 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**230**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	83-32-9	AST
Acenaphthylene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	208-96-8	AST
Anthracene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	120-12-7	AST
Benzo(a)anthracene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	56-55-3	AST
Benzo(a)pyrene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	50-32-8	AST
Benzo(b)fluoranthene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	191-24-2	AST
Benzo(k)fluoranthene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	207-08-9	AST
Chrysene	**15**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	53-70-3	AST
Fluoranthene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	206-44-0	AST
Fluorene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	193-39-5	AST
Naphthalene	ND	75	µg/Kg	15	EPA 8270C-SIM	12/30/14	91-20-3	AST
Phenanthrene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	85-01-8	AST
Pyrene	**110**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*330*	*20-120*	*% Recovery*	*15*	*EPA 8270C-SIM*	*12/30/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*200*	*27-120*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*105*	*26-132*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*45.0*	*25-139*	*% Recovery*	*15*	*EPA 8270C-SIM*	*12/30/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**15000**	20	mg/Kg	50	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**1600**	500	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**13000**	1000	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**140**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Y17 9-10'**
VERITAS SAMPLE ID: V14L034-03
DATE/TIME SAMPLED: 12/8/14 9:20
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	**1400**	1000	ug/Kg	200	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	**4600**	1000	ug/Kg	200	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Y17 9-10'** DATE/TIME SAMPLED: 12/8/14 9:20
VERITAS SAMPLE ID: V14L034-03 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**1700**	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**1100**	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**2000**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**420**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**1300**	1000	ug/Kg	200	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**690**	100	ug/Kg	20	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**260**	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**450**	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*277*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*79.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*70.1*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*96.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Y17 17-18'**
VERITAS SAMPLE ID: V14L034-04
DATE/TIME SAMPLED: 12/8/14 9:40
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**5800**	20	mg/Kg	100	Calculation	12/12/14	NA	
TPH-GRO (C6-C12)	**770**	500	mg/Kg	50	EPA 8015M	12/12/14	NA	
TPH-DRO (>C12-C28)	**5000**	2000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**70**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O19 11-12'** DATE/TIME SAMPLED: 12/8/14 10:30
VERITAS SAMPLE ID: V14L034-05 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**530**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**230**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	**67**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	**77**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	**160**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	**530**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**250**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**930**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**220**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*67.1*	*20-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*87.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*120*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*64.1*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**11000**	20	mg/Kg	100	Calculation	12/12/14	NA	
TPH-GRO (C6-C12)	**640**	500	mg/Kg	50	EPA 8015M	12/12/14	NA	
TPH-DRO (>C12-C28)	**10000**	2000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**470**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	E
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O19 11-12'** DATE/TIME SAMPLED: 12/8/14 10:30
VERITAS SAMPLE ID: V14L034-05 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**280**	50	ug/Kg	10	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O19 11-12'** DATE/TIME SAMPLED: 12/8/14 10:30
VERITAS SAMPLE ID: V14L034-05 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**92**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**110**	50	ug/Kg	10	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*200*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*78.6*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*71.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*92.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O17 10.5-11.5'** DATE/TIME SAMPLED: 12/8/14 10:50
VERITAS SAMPLE ID: V14L034-06 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**2900**	500	µg/Kg	100	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**98**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**120**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**890**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**760**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**140**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*90.1*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*58.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*90.1*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*110*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**1200**	10	mg/Kg	10	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**59**	10	mg/Kg	1	EPA 8015M	12/10/14	NA	
TPH-DRO (>C12-C28)	**1100**	200	mg/Kg	10	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**66**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene	*101*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	
Surrogate: Pentacosane	*108*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O17 10.5-11.5'** DATE/TIME SAMPLED: 12/8/14 10:50
VERITAS SAMPLE ID: V14L034-06 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**260**	100	ug/Kg	20	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O17 10.5-11.5'** DATE/TIME SAMPLED: 12/8/14 10:50
VERITAS SAMPLE ID: V14L034-06 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**150**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**280**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**120**	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**320**	100	ug/Kg	20	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*140*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*79.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*71.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*91.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z18 12-13'** DATE/TIME SAMPLED: 12/8/14 11:30
VERITAS SAMPLE ID: V14L034-07 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**25000**	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**120**	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	83-32-9	AST
Acenaphthylene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	208-96-8	AST
Anthracene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	120-12-7	AST
Benzo(a)anthracene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	56-55-3	AST
Benzo(a)pyrene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	50-32-8	AST
Benzo(b)fluoranthene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	191-24-2	AST
Benzo(k)fluoranthene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	207-08-9	AST
Chrysene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	53-70-3	AST
Fluoranthene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	206-44-0	AST
Fluorene	**2300**	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	193-39-5	AST
Naphthalene	**7400**	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	91-20-3	AST
Phenanthrene	**2800**	750	µg/Kg	150	EPA 8270C-SIM	12/30/14	85-01-8	AST
Pyrene	ND	7.5	µg/Kg	1.5	EPA 8270C-SIM	12/24/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*450*	*20-120*	*% Recovery*	*150*	*EPA 8270C-SIM*	*12/30/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*120*	*27-120*	*% Recovery*	*1.5*	*EPA 8270C-SIM*	*12/24/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*150*	*26-132*	*% Recovery*	*150*	*EPA 8270C-SIM*	*12/30/14*	*1718-51-0*	*M*
Surrogate: Nitrobenzene-d5	*0*	*25-139*	*% Recovery*	*150*	*EPA 8270C-SIM*	*12/30/14*	*4165-60-0*	*DO*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**13000**	20	mg/Kg	100	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**1600**	1000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**11000**	2000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**65**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z18 12-13'** DATE/TIME SAMPLED: 12/8/14 11:30
VERITAS SAMPLE ID: V14L034-07 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**5000**	1000	ug/Kg	200	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z18 12-13'** DATE/TIME SAMPLED: 12/8/14 11:30
VERITAS SAMPLE ID: V14L034-07 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**520**	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**340**	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**700**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**1300**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**930**	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**1300**	100	ug/Kg	20	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**8500**	1000	ug/Kg	200	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**390**	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**100**	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*188*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*76.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*68.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*89.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 10-11'** DATE/TIME SAMPLED: 12/8/14 12:25
VERITAS SAMPLE ID: V14L034-08 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**470**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**160**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	**80**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**89**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**550**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**140**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*100*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*50.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*90.1*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**3100**	10	mg/Kg	50	Calculation	12/10/14	NA	
TPH-GRO (C6-C12)	**110**	10	mg/Kg	1	EPA 8015M	12/10/14	NA	
TPH-DRO (>C12-C28)	**2800**	1000	mg/Kg	50	EPA 8015M	12/10/14	NA	
TPH-ORO (>C28-C35)	**220**	20	mg/Kg	1	EPA 8015M	12/10/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/10/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 10-11'**
VERITAS SAMPLE ID: V14L034-08
DATE/TIME SAMPLED: 12/8/14 12:25
DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**110**	100	ug/Kg	20	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 10-11'** DATE/TIME SAMPLED: 12/8/14 12:25
VERITAS SAMPLE ID: V14L034-08 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**430**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*122*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	
Surrogate: Dibromofluoromethane	*80.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*72.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*91.0*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 13.5-14.5'** DATE/TIME SAMPLED: 12/8/14 12:30
VERITAS SAMPLE ID: V14L034-09 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**86**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**110**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	**60**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**75**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**540**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**110**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*100*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*59.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*80.1*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**6200**	10	mg/Kg	50	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**270**	10	mg/Kg	1	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**5500**	1000	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**390**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 13.5-14.5'** DATE/TIME SAMPLED: 12/8/14 12:30
VERITAS SAMPLE ID: V14L034-09 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **O15 13.5-14.5'** DATE/TIME SAMPLED: 12/8/14 12:30
VERITAS SAMPLE ID: V14L034-09 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**210**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**110**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**190**	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**520**	100	ug/Kg	20	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*148*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*77.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*69.7*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*89.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 8.5-9.5'** DATE/TIME SAMPLED: 12/8/14 13:05
VERITAS SAMPLE ID: V14L034-10 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**16000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**2000**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	208-96-8	AST
Anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**2800**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**6100**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**4400**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*1250*	*20-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*250*	*27-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*200*	*26-132*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	*M*
Surrogate: Nitrobenzene-d5	*150*	*25-139*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	*M*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**28000**	20	mg/Kg	100	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**3000**	1000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**25000**	2000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**340**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 8.5-9.5'** DATE/TIME SAMPLED: 12/8/14 13:05
VERITAS SAMPLE ID: V14L034-10 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 8.5-9.5'** DATE/TIME SAMPLED: 12/8/14 13:05
VERITAS SAMPLE ID: V14L034-10 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**840**	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**740**	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**1000**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**930**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**1200**	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**2500**	500	ug/Kg	100	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**7900**	500	ug/Kg	100	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**930**	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**110**	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*307*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*75.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*65.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*89.6*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 14.5-15'** DATE/TIME SAMPLED: 12/8/14 13:15
VERITAS SAMPLE ID: V14L034-11 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**17000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**1200**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	208-96-8	AST
Anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**2200**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**5800**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**2900**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*601*	*20-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*200*	*27-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*150*	*26-132*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	*M*
Surrogate: Nitrobenzene-d5	*43.0*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**16000**	20	mg/Kg	100	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**1800**	1000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**14000**	2000	mg/Kg	100	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**160**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 14.5-15'** DATE/TIME SAMPLED: 12/8/14 13:15
VERITAS SAMPLE ID: V14L034-11 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**3300**	1000	ug/Kg	200	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **X18 14.5-15'** DATE/TIME SAMPLED: 12/8/14 13:15
VERITAS SAMPLE ID: V14L034-11 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**680**	100	ug/Kg	20	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**510**	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**860**	100	ug/Kg	20	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**1600**	100	ug/Kg	20	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**1100**	100	ug/Kg	20	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**2200**	1000	ug/Kg	200	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**8200**	1000	ug/Kg	200	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**820**	100	ug/Kg	20	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**230**	100	ug/Kg	20	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*253*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*77.0*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*68.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*87.6*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **W15 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 13:40
VERITAS SAMPLE ID: V14L034-12 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**13000**	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**95**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	**160**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**3300**	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**1700**	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	ND	500	µg/Kg	100	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*200*	*20-120*	*% Recovery*	*100*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*82.1*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*100*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*100*	*25-139*	*% Recovery*	*100*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**8400**	20	mg/Kg	50	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**1200**	500	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**7200**	1000	mg/Kg	50	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**36**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **W15 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 13:40
VERITAS SAMPLE ID: V14L034-12 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**2400**	500	ug/Kg	100	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	**200**	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **W15 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 13:40
VERITAS SAMPLE ID: V14L034-12 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**360**	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**290**	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**870**	50	ug/Kg	10	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**670**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**830**	50	ug/Kg	10	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**1300**	500	ug/Kg	100	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**4800**	500	ug/Kg	100	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**210**	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**84**	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*178*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*72.6*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*64.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*89.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **U25 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 14:35
VERITAS SAMPLE ID: V14L034-13 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**47**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	85-01-8	AST
Pyrene	**17**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*60.1*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*37.0*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*48.0*	*26-132*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*50.1*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**460**	10	mg/Kg	1	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**16**	10	mg/Kg	1	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**440**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene	*100*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	
Surrogate: Pentacosane	*104*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **U25 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 14:35
VERITAS SAMPLE ID: V14L034-13 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**72**	50	ug/Kg	10	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **U25 14.5-15.5'** DATE/TIME SAMPLED: 12/8/14 14:35
VERITAS SAMPLE ID: V14L034-13 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**270**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**50**	50	ug/Kg	10	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*123*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	
Surrogate: Dibromofluoromethane	*76.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*68.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*88.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **U25 18-19'** DATE/TIME SAMPLED: 12/8/14 14:45
VERITAS SAMPLE ID: V14L034-14 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**3600**	10	mg/Kg	25	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**210**	10	mg/Kg	1	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**3400**	500	mg/Kg	25	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**38**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z22 12-13'** DATE/TIME SAMPLED: 12/8/14 15:20
VERITAS SAMPLE ID: V14L034-15 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**43000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**2500**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	83-32-9	AST
Acenaphthylene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	208-96-8	AST
Anthracene	ND	25	µg/Kg	5	EPA 8270C-SIM	12/24/14	120-12-7	AST
Benzo(a)anthracene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	56-55-3	AST
Benzo(a)pyrene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	50-32-8	AST
Benzo(b)fluoranthene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	191-24-2	AST
Benzo(k)fluoranthene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	207-08-9	AST
Chrysene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	53-70-3	AST
Fluoranthene	ND	25	µg/Kg	5	EPA 8270C-SIM	12/24/14	206-44-0	AST
Fluorene	**7000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	193-39-5	AST
Naphthalene	**14000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	91-20-3	AST
Phenanthrene	**3800**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	85-01-8	AST
Pyrene	ND	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*1000*	*20-120*	*% Recovery*	*500*	*EPA 8270C-SIM*	*12/30/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*501*	*27-120*	*% Recovery*	*500*	*EPA 8270C-SIM*	*12/30/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*0*	*26-132*	*% Recovery*	*500*	*EPA 8270C-SIM*	*12/30/14*	*1718-51-0*	*DO*
Surrogate: Nitrobenzene-d5	*501*	*25-139*	*% Recovery*	*500*	*EPA 8270C-SIM*	*12/30/14*	*4165-60-0*	*M*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**44000**	20	mg/Kg	250	Calculation	12/11/14	NA	
TPH-GRO (C6-C12)	**5200**	2500	mg/Kg	250	EPA 8015M	12/11/14	NA	
TPH-DRO (>C12-C28)	**39000**	5000	mg/Kg	250	EPA 8015M	12/11/14	NA	
TPH-ORO (>C28-C35)	**110**	20	mg/Kg	1	EPA 8015M	12/11/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/11/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z22 12-13'** DATE/TIME SAMPLED: 12/8/14 15:20
VERITAS SAMPLE ID: V14L034-15 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	**180**	100	ug/Kg	20	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	**3900**	500	ug/Kg	100	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	**8000**	500	ug/Kg	100	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **Z22 12-13'** DATE/TIME SAMPLED: 12/8/14 15:20
VERITAS SAMPLE ID: V14L034-15 DATE/TIME RECEIVED: 12/8/14 17:00

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**2200**	500	ug/Kg	100	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**1600**	100	ug/Kg	20	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**4300**	500	ug/Kg	100	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**6300**	500	ug/Kg	100	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	**3200**	500	ug/Kg	100	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	127-18-4	
Toluene	**180**	100	ug/Kg	20	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**7600**	500	ug/Kg	100	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**24000**	500	ug/Kg	100	EPA 8260B	12/22/14	526-73-8	E
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**2500**	500	ug/Kg	100	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	**2800**	500	ug/Kg	100	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*187*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*76.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*68.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*91.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Total Petroleum Hydrocarbons by GC/FID - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1451006 - TNRCC Method 1005										
Blank (1451006-BLK1)				Analyzed: 10-Dec-14						
TPH-GRO (C6-C12)	ND	10	mg/Kg							
TPH-DRO (>C12-C28)	ND	20	mg/Kg							
TPH-ORO (>C28-C35)	ND	20	mg/Kg							
Surrogate: Bromofluorobenzene	*21*		*mg/Kg*	*20.0*		*103*	*70-130*			
Surrogate: Pentacosane	*22*		*mg/Kg*	*20.0*		*109*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453001 - No Prep VOA										
Blank (1453001-BLK1)				Analyzed: 21-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							

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CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453001 - No Prep VOA										
Blank (1453001-BLK1)				Analyzed: 21-Dec-14						
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*45*		*ug/Kg*	*40.0*		*112*	*70-130*			
Surrogate: Dibromofluoromethane	*34*		*ug/Kg*	*40.0*		*84.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		*ug/Kg*	*40.0*		*73.8*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453001 - No Prep VOA										
Blank (1453001-BLK1)				Analyzed: 21-Dec-14						
Surrogate: Toluene-d8	*37*		*ug/Kg*	*40.0*		*93.1*	*70-130*			
Blank (1453001-BLK2)				Analyzed: 22-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453001 - No Prep VOA										
Blank (1453001-BLK2)				Analyzed: 22-Dec-14						
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*43*		*ug/Kg*	*40.0*		*106*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L034

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453001 - No Prep VOA										
Blank (1453001-BLK2)				Analyzed: 22-Dec-14						
Surrogate: Dibromofluoromethane	*33*		*ug/Kg*	*40.0*		*82.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		*ug/Kg*	*40.0*		*75.1*	*70-130*			
Surrogate: Toluene-d8	*35*		*ug/Kg*	*40.0*		*88.2*	*70-130*			

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CLIENT COMPANY NAME:	Stanley Consultants, Las Vegas
CLIENT PROJECT NAME:	**NV Energy LIF Investigation**
CLIENT PROJECT NUMBER:	NA
VERITAS LAB ORDER ID:	V14L034

Report Definitions

DF - Dilution Factor. Represents the factor applied to the reported data due to the dilution of the sample aliquot
DUP - Duplicate Sample
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MDL - Method Detection Limit
MRL - Method Reporting Limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Analyte Not Detected at or above the Reporting Limit (MRL)
% REC - Percent Recovery
RL - Reporting Limit
RPD - Relative Percent Difference
NR - Result is outside of acceptable limits and not reportable due to size constraints of the associated field

Lab/Qualifier Definitions

S1 Spike/Surrogate recovery outside of accepted recovery limits due to probable matrix interference

M Surrogate masked by hydrocarbon concentration in the same peak range.

E Reported concentration exceeded the calibration range of the instrument.

DO Spike/Surrogate diluted out

AST Analysis performed by ASSET Laboratories, Las Vegas, NV. State of Nevada Certified Laboratory ID NV-009222007A.

Veritas Lab Order ID: V14034

Veritas Laboratories

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Company: STANLEY CONSULTANTS
Address: 5820 S. EASTERN AVE SUITE 200 LAS VEGAS, NV 89119
Attention: JONATHAN SARICH
Invoice To:
Sampled By: SCOTT BEHRENDS

Telephone: 702-534-2123
Fax: 702-369-9793
Email: sarichjonathan@stanleygroup.com
Project Name/Project Number: NV ENERGY LIF INVESTIGATION
P.O. Number:

Client Sample Identification	Veritas Sample Identification	Date Sampled	Time Sampled	Composite	Grab	Matrix Code[1]	TPH	GRO	DRO	ORO	VOC's (EPA 8260)	PAH's (EPA 8270)				Total # of Containers / Preservation Code[2] / Container Code[3]
K20 10'	V14034-01	12-8-14	0800	X		S	X	X	X	X	X	X				
M22 15'	02	12-8-14	0840	X		S	X	X	X	X	X	X				
Y17 9-10'	03	12-8-14	0920	X		S	X	X	X	X	X	X				
Y17 17-18'	04	12-8-14	0940	X		S	X	X	X	X						
O19 11-12'	05	12-8-14	1030	X		S	X	X	X	X	X	X				
O17 10.5-11.5'	06	12-8-14	1050	X		S	X	X	X	X	X	X				
Z18 12-15'	07	12-8-14	1130	X		S	X	X	X	X	X	X				
O15 10-11'	08	12-8-14	1225	X		S	X	X	X	X	X	X				
O15 13.5-14.5'	09	12-8-14	1230	X		S	X	X	X	X	X	X				

ATTESTATION OF AUTHORITY
By signing this Chain of Custody, the sampler attests to the validity and authenticity of submitted sample(s). Sampler is aware that tampering with or intentionally mislabeling the sample(s) location, date, or time of collection may be considered fraud and subject to legal action.

Comments

All Data Reported on a Wet-Weight Basis Unless Otherwise Specified

Relinquished by: (Signature)	Date/Time:
	12/8 1700
Received by: (Signature)	Date/Time:
	12/8 1700
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Turnaround Time:
____ Same Day
____ 1 Day
____ 2 Days
____ 3 Days
X 5 Days (Normal)
____ Other

Date Needed

[1]Matrix Code
GW = Groundwater
WW = Wastewater
DW = Drinking Water
S = Soil/Solid
SL = Sludge
OL = Organic Liquid
A = Air
W = Wipe
O = Other

[2]Preservation Code
I = Iced
H = HCL
N = HNO_3
S = H_2SO_4
X = NaOH
T = $Na_2S_2O_3$
Z = ZnAc
NO = None
O = Other

[3]Container Code
A = Amber
G = Glass
P = Plastic
ST = Sterile
V = VOA Vial
T = Tedlar Bag
W = Wipe
O = Other

For Lab Use Only
Received in Good Condition? Yes/No
Custody Seals? Yes/No
Temperature 10.7 °C

By signing this Chain of Custody, the Client Agrees to Veritas Laboratories' Published Standard Terms and Conditions.

CHAIN OF CUSTODY

TO REORDER: CALL CREATIVE DIGITAL PRINTING 702-637-9009 FORM NO. 88984

Veritas Laboratories

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(702) 597-2098 Fax
Email: veritaslabs@msn.com

Veritas Lab Order ID: V14L034

Company: STANLEY CONSULTANTS	Telephone: 702-534-2123
Address: 5820 S. EASTERN AVE SUITE 200 LAS VEGAS, NV 89119	Fax: 702-369-9793
	Email: sarichjonathan@stanleygroup.com
Attention: JONATHAN SARICH	Project Name/Project Number: NV ENERGY LIF INVESTIGATION
Invoice To:	
Sampled By: SCOTT BEHRENDS	P.O. Number:

Client Sample Identification	Veritas Sample Identification	Date Sampled	Time Sampled	Composite	Grab	Matrix Code[1]	TPH	GRO	DRO	ORO	VOC's (EPA 8260)	PAH's (EPA 8270)			
X18 8.5-9.5'	V14L034-10	12-8-14	1505	X		S	X	X	X	X	X	X			
X18 14.5-15'	11	12-8-14	1315	X		S	X	X	X	X	X	X			
W15 14.5-15.5'	12	12-8-14	1340	X		S	X	X	X	X	X	X			
U25 14.5-15.5'	13	12-8-14	1435	X		S	X	X	X	X	X	X			
U25 18-19'	14	12-8-14	1445	X		S	X	X	X	X					
X22 12-13'	15	12-8-14	1520	X		S	X	X	X	X	X	X			
Z															

Total # of Containers
Preservation Code[2]
Container Code[3]

ATTESTATION OF AUTHORITY
By signing this Chain of Custody, the sampler attests to the validity and authenticity of submitted sample(s). Sampler is aware that tampering with or intentionally mislabeling the sample(s) location, date, or time of collection may be considered fraud and subject to legal action.

Comments

All Data Reported on a Wet-Weight Basis Unless Otherwise Specified

Relinquished by: (Signature)	Date/Time: 12/8 1700
Received by: (Signature)	Date/Time: 12/8 1700
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Turnaround Time:
- ____ Same Day
- ____ 1 Day
- ____ 2 Days
- ____ 3 Days
- X 5 Days (Normal)
- ____ Other

Date Needed

[1]Matrix Code
GW = Groundwater
WW = Wastewater
DW = Drinking Water
S = Soil/Solid
SL = Sludge
OL = Organic Liquid
A = Air
W = Wipe
O = Other

[2]Preservation Code
I = Iced
H = HCL
N = HNO_3
S = H_2SO_4
X = NaOH
T = $Na_2S_2O_3$
Z = ZnAc
NO = None
O = Other

[3]Container Code
A = Amber
G = Glass
P = Plastic
ST = Sterile
V = VOA Vial
T = Tedlar Bag
W = Wipe
O = Other

For Lab Use Only
Received in Good Condition? Yes/No
Custody Seals? Yes/No
Temperature 10.7 °C

By signing this Chain of Custody, the Client Agrees to Veritas Laboratories' Published Standard Terms and Conditions.

CHAIN OF CUSTODY

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(702) 321-8315 Phone
(702) 597-2098 Fax
Email: veritaslabs@msn.com

CLIENT NAME:	Stanley Consultants, Las Vegas 5820 S. Eastern Ave., Suite 200 Las Vegas, NV 89119
PROJECT MGR:	Jonathan Sarich

CLIENT PROJECT NAME:	**NV Energy LIF Investigation**
CLIENT PROJECT NUMBER:	NA
VERITAS LAB ORDER ID:	V14L043
DATE RECEIVED AT LAB:	Dec-09-2014 17:30

Presented herein are the analytical results for samples received from the above referenced project.

Unless otherwise indicated on the chain of custody or in the report case narrative, samples submitted for this project were not sampled by Veritas Laboratories, were received in good condition, properly preserved, within the proper temperature range, and within the recommended holding time for the requested analyses.

All laboratory analytical data presented herein was generated by a laboratory certified by the Nevada Division of Environmental Protection for each constituent and media reported for which a certification is required and offered. All analyses reported were performed by Veritas Laboratories unless otherwise indicated on the data pages.

Should you have any questions or comments regarding this report or if we can be of further service to you, please do not hesitate to contact me at (702) 321-8315.

Sincerely,

Bruce G. Cunningham
Laboratory Director
Veritas Laboratories
Nevada Lab Certification ID NV00918

1/5/15
Date

Veritas Laboratories
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(702) 321-8315 Phone
(702) 597-2098 Fax
Email: veritaslabs@msn.com

CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

SAMPLE SUMMARY

CLIENT SAMPLE ID	VERITAS SAMPLE ID	MATRIX	DATE/TIME COLLECTED	DATE/TIME RECEIVED
AG25 19.5-20'	V14L043-01	Soil	12/9/14 7:35	12/9/14 17:30
AF34 19.5-20'	V14L043-02	Soil	12/9/14 8:20	12/9/14 17:30
AF34 33-34'	V14L043-03	Soil	12/9/14 8:35	12/9/14 17:30
M23 10.5-11.5'	V14L043-04	Soil	12/9/14 9:15	12/9/14 17:30
R28 17.5-18.5	V14L043-05	Soil	12/9/14 9:55	12/9/14 17:30
AA30 14.5-15.5	V14L043-06	Soil	12/9/14 10:20	12/9/14 17:30
AA30 23-24	V14L043-07	Soil	12/9/14 10:30	12/9/14 17:30
AE23 14-15'	V14L043-08	Soil	12/9/14 10:50	12/9/14 17:30
AE23 22.5-23.5'	V14L043-09	Soil	12/9/14 11:10	12/9/14 17:30
AE23 25.5-26.5'	V14L043-10	Soil	12/9/14 11:20	12/9/14 17:30
AF21 13.5-14.5'	V14L043-11	Soil	12/9/14 12:20	12/9/14 17:30
AF21 21-22'	V14L043-12	Soil	12/9/14 12:25	12/9/14 17:30
AI20 17.5-18'	V14L043-13	Soil	12/9/14 13:00	12/9/14 17:30
AK35 18.5-19.5'	V14L043-14	Soil	12/9/14 13:40	12/9/14 17:30
AK35 21.5-22.5'	V14L043-15	Soil	12/9/14 13:50	12/9/14 17:30
S41 18.5-19.5'	V14L043-16	Soil	12/9/14 14:50	12/9/14 17:30

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AG25 19.5-20'** DATE/TIME SAMPLED: 12/9/14 7:35
VERITAS SAMPLE ID: V14L043-01 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**5700**	20	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**760**	500	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-DRO (>C12-C28)	**4900**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**30**	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF34 19.5-20'** DATE/TIME SAMPLED: 12/9/14 8:20
VERITAS SAMPLE ID: V14L043-02 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**2000**	10	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**230**	10	mg/Kg	1	EPA 8015M	12/16/14	NA	
TPH-DRO (>C12-C28)	**1800**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene	*123*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	
Surrogate: Pentacosane	*124*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF34 33-34'** DATE/TIME SAMPLED: 12/9/14 8:35
VERITAS SAMPLE ID: V14L043-03 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**21000**	2500	µg/Kg	500	EPA 8270C-SIM	12/30/14	91-57-6	AST
Acenaphthene	**1100**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	**77**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	**2900**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	**6200**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**4500**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*300*	*20-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*150*	*27-120*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*250*	*25-139*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	*M*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**6500**	20	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**770**	500	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-DRO (>C12-C28)	**5700**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**23**	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF34 33-34'** DATE/TIME SAMPLED: 12/9/14 8:35
VERITAS SAMPLE ID: V14L043-03 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	**89**	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	**2500**	500	ug/Kg	100	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF34 33-34'** DATE/TIME SAMPLED: 12/9/14 8:35
VERITAS SAMPLE ID: V14L043-03 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**1300**	500	ug/Kg	100	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**820**	50	ug/Kg	10	EPA 8260B	12/21/14	98-82-8	
p-Isopropyltoluene	**1900**	500	ug/Kg	100	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**950**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**1600**	500	ug/Kg	100	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	**3300**	500	ug/Kg	100	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**11000**	1000	ug/Kg	200	EPA 8260B	12/23/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	**1300**	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	**570**	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*208*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*74.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*64.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*86.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M23 10.5-11.5'** DATE/TIME SAMPLED: 12/9/14 9:15
VERITAS SAMPLE ID: V14L043-04 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**230**	5.0	µg/Kg	1	EPA 8270C-SIM	12/24/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/24/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/24/14	120-12-7	AST
Benzo(a)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	**84**	5.0	µg/Kg	1	EPA 8270C-SIM	12/24/14	206-44-0	AST
Fluorene	**240**	5.0	µg/Kg	1	EPA 8270C-SIM	12/24/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**860**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**400**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*210*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*M*
Surrogate: 2-Fluorobiphenyl	*102*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/24/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*120*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*120*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**8000**	20	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**1100**	500	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-DRO (>C12-C28)	**6800**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**84**	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M23 10.5-11.5'** DATE/TIME SAMPLED: 12/9/14 9:15
VERITAS SAMPLE ID: V14L043-04 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	135-98-8	
n-Butylbenzene	**1600**	250	ug/Kg	50	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/21/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/21/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **M23 10.5-11.5'** DATE/TIME SAMPLED: 12/9/14 9:15
VERITAS SAMPLE ID: V14L043-04 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	10061-01-5	
Ethylbenzene	**490**	50	ug/Kg	10	EPA 8260B	12/21/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-68-3	
Isopropylbenzene	**960**	250	ug/Kg	50	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-09-2	
Naphthalene	**350**	50	ug/Kg	10	EPA 8260B	12/21/14	91-20-3	
n-Propylbenzene	**4400**	250	ug/Kg	50	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/21/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/21/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	108-67-8	
1,2,4-Trimethylbenzene	**140**	50	ug/Kg	10	EPA 8260B	12/21/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/21/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/21/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*194*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*68.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*1868-53-7*	*S1*
Surrogate: 1,2-Dichloroethane-d4	*70.5*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*10706-07-0*	
Surrogate: Toluene-d8	*79.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/21/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **R28 17.5-18.5**
VERITAS SAMPLE ID: V14L043-05
DATE/TIME SAMPLED: 12/9/14 9:55
DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**460**	10	mg/Kg	1	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**30**	10	mg/Kg	1	EPA 8015M	12/16/14	NA	
TPH-DRO (>C12-C28)	**430**	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene	*90.7*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	
Surrogate: Pentacosane	*99.5*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 14.5-15.5** DATE/TIME SAMPLED: 12/9/14 10:20
VERITAS SAMPLE ID: V14L043-06 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	91-57-6	AST
Acenaphthene	**99**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	**99**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	91-20-3	AST
Phenanthrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	85-01-8	AST
Pyrene	**22**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*55.1*	*20-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*40.0*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*58.1*	*26-132*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*32.0*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**1400**	10	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**80**	10	mg/Kg	1	EPA 8015M	12/16/14	NA	
TPH-DRO (>C12-C28)	**1300**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene	*111*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	
Surrogate: Pentacosane	*108*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 14.5-15.5** DATE/TIME SAMPLED: 12/9/14 10:20
VERITAS SAMPLE ID: V14L043-06 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/22/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 14.5-15.5** DATE/TIME SAMPLED: 12/9/14 10:20
VERITAS SAMPLE ID: V14L043-06 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	10061-01-5	
Ethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-68-3	
Isopropylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-09-2	
Naphthalene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/22/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*158*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*460-00-4*	*S1*
Surrogate: Dibromofluoromethane	*75.1*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*67.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*88.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 23-24** DATE/TIME SAMPLED: 12/9/14 10:30
VERITAS SAMPLE ID: V14L043-07 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**720**	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	**1700**	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	91-20-3	AST
Phenanthrene	**2400**	100	µg/Kg	20	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*67.1*	*20-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*100*	*27-120*	*% Recovery*	*20*	*EPA 8270C-SIM*	*12/29/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*20*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*79.1*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**7000**	20	mg/Kg	50	Calculation	12/16/14	NA	
TPH-GRO (C6-C12)	**610**	500	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-DRO (>C12-C28)	**6300**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**22**	20	mg/Kg	1	EPA 8015M	12/16/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/16/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 23-24** DATE/TIME SAMPLED: 12/9/14 10:30
VERITAS SAMPLE ID: V14L043-07 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-25-2	
Bromomethane	**56**	50	ug/Kg	10	EPA 8260B	12/22/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	98-06-6	
sec-Butylbenzene	**820**	500	ug/Kg	100	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	**530**	50	ug/Kg	10	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	67-66-3	
Chloromethane	**93**	50	ug/Kg	10	EPA 8260B	12/22/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/22/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AA30 23-24** DATE/TIME SAMPLED: 12/9/14 10:30
VERITAS SAMPLE ID: V14L043-07 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	10061-01-5	
Ethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-68-3	
Isopropylbenzene	**570**	50	ug/Kg	10	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-09-2	
Naphthalene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	**160**	50	ug/Kg	10	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-18-4	
1,3,5-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/22/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*295*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*75.1*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*66.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*88.0*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 14-15'** DATE/TIME SAMPLED: 12/9/14 10:50
VERITAS SAMPLE ID: V14L043-08 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**7700**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**600**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	**1700**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**1300**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**140**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*72.1*	*20-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*299*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*299*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	*M*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**3600**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**410**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**3200**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**26**	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*117*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*105*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 14-15'** DATE/TIME SAMPLED: 12/9/14 10:50
VERITAS SAMPLE ID: V14L043-08 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	**1400**	100	ug/Kg	20	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/22/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/22/14	67-66-3	
Chloromethane	**130**	100	ug/Kg	20	EPA 8260B	12/22/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/22/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 14-15'** DATE/TIME SAMPLED: 12/9/14 10:50
VERITAS SAMPLE ID: V14L043-08 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	10061-01-5	
Ethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	87-68-3	
Isopropylbenzene	**120**	100	ug/Kg	20	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	**380**	100	ug/Kg	20	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-09-2	
Naphthalene	**660**	100	ug/Kg	20	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	**260**	100	ug/Kg	20	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**1800**	100	ug/Kg	20	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/22/14	75-01-4	
m,p-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*171*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*78.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*69.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*88.9*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 22.5-23.5'** DATE/TIME SAMPLED: 12/9/14 11:10
VERITAS SAMPLE ID: V14L043-09 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	**9300**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	**380**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	120-12-7	AST
Benzo(a)anthracene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	50-32-8	AST
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	191-24-2	AST
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	207-08-9	AST
Chrysene	ND	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	53-70-3	AST
Fluoranthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	206-44-0	AST
Fluorene	**730**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	193-39-5	AST
Naphthalene	**3200**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	**850**	250	µg/Kg	50	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**45**	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*77.1*	*20-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*2199-69-1*	
Surrogate: 2-Fluorobiphenyl	*333*	*27-120*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*321-60-8*	*M*
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*50*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*318*	*25-139*	*% Recovery*	*1*	*EPA 8270C-SIM*	*12/23/14*	*4165-60-0*	*M*

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**2000**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**280**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**1700**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*112*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*105*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 22.5-23.5'** DATE/TIME SAMPLED: 12/9/14 11:10
VERITAS SAMPLE ID: V14L043-09 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-43-2	
Bromobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-86-1	
Bromodichloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-27-4	
Bromoform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-25-2	
Bromomethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-83-9	
tert-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	98-06-6	
sec-Butylbenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	**2700**	250	ug/Kg	50	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-15-0	
Carbon Tetrachloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	56-23-5	
Chlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-90-7	
Chloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-00-3	
Chloroform	ND	50	ug/Kg	10	EPA 8260B	12/22/14	67-66-3	
Chloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-87-3	
2-Chloroethyl vinyl ether	ND	50	ug/Kg	10	EPA 8260B	12/22/14	110-75-8	
2-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-49-8	
4-Chlorotoluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-12-8	
Dibromochloromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	124-48-1	
1,2-Dibromoethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-93-4	
Dibromomethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	74-95-3	
1,3-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	541-73-1	
1,2-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-50-1	
1,4-Dichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	106-46-7	
Dichlorodifluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-71-8	
1,1-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-34-3	
1,2-Dichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	107-06-2	
1,1-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-35-4	
trans-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-60-5	
cis-1,2-Dichloroethene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	156-59-4	
2,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	594-20-7	
1,2-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	78-87-5	
1,3-Dichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	142-28-9	
1,1-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	563-58-6	
trans-1 3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 22.5-23.5'** DATE/TIME SAMPLED: 12/9/14 11:10
VERITAS SAMPLE ID: V14L043-09 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	10061-01-5	
Ethylbenzene	**470**	50	ug/Kg	10	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-68-3	
Isopropylbenzene	**250**	50	ug/Kg	10	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	**840**	50	ug/Kg	10	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	1634-04-4	
Methylene Chloride	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-09-2	
Naphthalene	**380**	50	ug/Kg	10	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	**730**	50	ug/Kg	10	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-34-5	
Tetrachloroethene (PCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	127-18-4	
Toluene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	108-88-3	
1,2,4-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	120-82-1	
1,2,3-Trichlorobenzene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	87-61-6	
1,1,1-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	71-55-6	
1,1,2-Trichloroethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-00-5	
Trichloroethene (TCE)	ND	50	ug/Kg	10	EPA 8260B	12/22/14	79-01-6	
Trichlorofluoromethane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	75-69-4	
1,2,3-Trichloropropane	ND	50	ug/Kg	10	EPA 8260B	12/22/14	96-18-4	
1,3,5-Trimethylbenzene	**1000**	250	ug/Kg	50	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**2000**	250	ug/Kg	50	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	20	ug/Kg	10	EPA 8260B	12/22/14	75-01-4	
m,p-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	ND	50	ug/Kg	10	EPA 8260B	12/22/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*201*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*74.4*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*64.2*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*85.3*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AE23 25.5-26.5'** DATE/TIME SAMPLED: 12/9/14 11:20
VERITAS SAMPLE ID: V14L043-10 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**770**	10	mg/Kg	1	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**120**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**650**	20	mg/Kg	1	EPA 8015M	12/17/14	NA	E
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*111*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*112*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF21 13.5-14.5'** DATE/TIME SAMPLED: 12/9/14 12:20
VERITAS SAMPLE ID: V14L043-11 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**1900**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**210**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**1700**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*112*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*128*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AF21 21-22'** DATE/TIME SAMPLED: 12/9/14 12:25
VERITAS SAMPLE ID: V14L043-12 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**3400**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**450**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**2900**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*126*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*118*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AI20 17.5-18'** DATE/TIME SAMPLED: 12/9/14 13:00
VERITAS SAMPLE ID: V14L043-13 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	ND	10	mg/Kg	1	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	ND	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*104*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*107*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AK35 18.5-19.5'** DATE/TIME SAMPLED: 12/9/14 13:40
VERITAS SAMPLE ID: V14L043-14 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: PAH's by GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
2-Methylnaphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-57-6	AST
Acenaphthene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	83-32-9	AST
Acenaphthylene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	208-96-8	AST
Anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	120-12-7	AST
Benzo(a)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	56-55-3	AST
Benzo(a)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	50-32-8	AST
Benzo(b)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	205-99-2	AST
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	191-24-2	AST
Benzo(k)fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	207-08-9	AST
Chrysene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	218-01-9	AST
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	53-70-3	AST
Fluoranthene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	206-44-0	AST
Fluorene	ND	5.0	µg/Kg	1	EPA 8270C-SIM	12/23/14	86-73-7	AST
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	193-39-5	AST
Naphthalene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	91-20-3	AST
Phenanthrene	ND	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	85-01-8	AST
Pyrene	**97**	50	µg/Kg	10	EPA 8270C-SIM	12/29/14	129-00-0	AST
Surrogate: 1,2-Dichlorobenzene-d4	*130*	*20-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*2199-69-1*	*S1*
Surrogate: 2-Fluorobiphenyl	*50.1*	*27-120*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*321-60-8*	
Surrogate: 4-Terphenyl-d14	*100*	*26-132*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*1718-51-0*	
Surrogate: Nitrobenzene-d5	*70.1*	*25-139*	*% Recovery*	*10*	*EPA 8270C-SIM*	*12/29/14*	*4165-60-0*	

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**4900**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**280**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**4600**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	**48**	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	*DO*
Surrogate: Pentacosane		*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	*DO*

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AK35 18.5-19.5'** DATE/TIME SAMPLED: 12/9/14 13:40
VERITAS SAMPLE ID: V14L043-14 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Benzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	71-43-2	
Bromobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-86-1	
Bromodichloromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-27-4	
Bromoform	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-25-2	
Bromomethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	74-83-9	
tert-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	98-06-6	
sec-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	135-98-8	
n-Butylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	104-51-8	
Carbon disulfide	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-15-0	
Carbon Tetrachloride	ND	100	ug/Kg	20	EPA 8260B	12/22/14	56-23-5	
Chlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-90-7	
Chloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-00-3	
Chloroform	ND	100	ug/Kg	20	EPA 8260B	12/22/14	67-66-3	
Chloromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	74-87-3	
2-Chloroethyl vinyl ether	ND	100	ug/Kg	20	EPA 8260B	12/22/14	110-75-8	
2-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-49-8	
4-Chlorotoluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	96-12-8	
Dibromochloromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	124-48-1	
1,2-Dibromoethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-93-4	
Dibromomethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	74-95-3	
1,3-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	541-73-1	
1,2-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-50-1	
1,4-Dichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	106-46-7	
Dichlorodifluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-71-8	
1,1-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-34-3	
1,2-Dichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	107-06-2	
1,1-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-35-4	
trans-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	156-60-5	
cis-1,2-Dichloroethene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	156-59-4	
2,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	594-20-7	
1,2-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	78-87-5	
1,3-Dichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	142-28-9	
1,1-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	563-58-6	
trans-1 3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	1006-10-26	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AK35 18.5-19.5'** DATE/TIME SAMPLED: 12/9/14 13:40
VERITAS SAMPLE ID: V14L043-14 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Volatile Organic Compounds, GC/MS

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
cis-1,3-Dichloropropene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	10061-01-5	
Ethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	100-41-4	
Hexachlorobutadiene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	87-68-3	
Isopropylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	98-82-8	
p-Isopropyltoluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	99-87-6	
Methyl-tert-butyl-ether (MTBE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	1634-04-4	
Methylene Chloride	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-09-2	
Naphthalene	**1100**	100	ug/Kg	20	EPA 8260B	12/22/14	91-20-3	
n-Propylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	103-65-1	
Styrene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-34-5	
Tetrachloroethene (PCE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	127-18-4	
Toluene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-88-3	
1,2,4-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	120-82-1	
1,2,3-Trichlorobenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	87-61-6	
1,1,1-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	71-55-6	
1,1,2-Trichloroethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-00-5	
Trichloroethene (TCE)	ND	100	ug/Kg	20	EPA 8260B	12/22/14	79-01-6	
Trichlorofluoromethane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	75-69-4	
1,2,3-Trichloropropane	ND	100	ug/Kg	20	EPA 8260B	12/22/14	96-18-4	
1,3,5-Trimethylbenzene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	108-67-8	
1,2,4-Trimethylbenzene	**150**	100	ug/Kg	20	EPA 8260B	12/22/14	526-73-8	
Vinyl chloride	ND	40	ug/Kg	20	EPA 8260B	12/22/14	75-01-4	
m,p-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	7816-60-0	
o-Xylene	ND	100	ug/Kg	20	EPA 8260B	12/22/14	95-47-6	
Surrogate: 4-Bromofluorobenzene	*193*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*460-00-4*	*M*
Surrogate: Dibromofluoromethane	*77.8*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*1868-53-7*	
Surrogate: 1,2-Dichloroethane-d4	*67.0*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*10706-07-0*	*S1*
Surrogate: Toluene-d8	*83.6*	*70-130*	*% Recovery*	*1*	*EPA 8260B*	*12/22/14*	*2037-26-5*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **AK35 21.5-22.5'** DATE/TIME SAMPLED: 12/9/14 13:50
VERITAS SAMPLE ID: V14L043-15 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	**1200**	10	mg/Kg	50	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	**180**	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	**1000**	1000	mg/Kg	50	EPA 8015M	12/13/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*118*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*111*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

ANALYTICAL RESULTS

CLIENT SAMPLE ID: **S41 18.5-19.5'** DATE/TIME SAMPLED: 12/9/14 14:50
VERITAS SAMPLE ID: V14L043-16 DATE/TIME RECEIVED: 12/9/14 17:30

Matrix: Soil

Analysis: Total Petroleum Hydrocarbons by GC/FID

PARAMETER	RESULT	RL (MRL)	UNITS	DF	METHOD	DATE ANALYZED	CAS NO.	SUB LAB/ QUAL
Total TPH (C6-C35)	ND	10	mg/Kg	1	Calculation	12/17/14	NA	
TPH-GRO (C6-C12)	ND	10	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-DRO (>C12-C28)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
TPH-ORO (>C28-C35)	ND	20	mg/Kg	1	EPA 8015M	12/17/14	NA	
Surrogate: Bromofluorobenzene	*106*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*460-00-4*	
Surrogate: Pentacosane	*108*	*70-130*	*% Recovery*	*1*	*EPA 8015M*	*12/17/14*	*629-99-2*	

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Total Petroleum Hydrocarbons by GC/FID - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1451027 - TNRCC Method 1005										
Blank (1451027-BLK1)				Analyzed: 12-Dec-14						
TPH-GRO (C6-C12)	ND	10	mg/Kg							
TPH-DRO (>C12-C28)	ND	20	mg/Kg							
TPH-ORO (>C28-C35)	ND	20	mg/Kg							
Surrogate: Bromofluorobenzene	*14*		*mg/Kg*	*20.0*		*68.0*	*70-130*			*S*
Surrogate: Pentacosane	*21*		*mg/Kg*	*20.0*		*106*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK1)				Analyzed: 21-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK1)				Analyzed: 21-Dec-14						
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*45*		*ug/Kg*	*40.0*		*112*	*70-130*			
Surrogate: Dibromofluoromethane	*34*		*ug/Kg*	*40.0*		*84.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		*ug/Kg*	*40.0*		*73.8*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK1)				Analyzed: 21-Dec-14						
Surrogate: Toluene-d8	*37*		*ug/Kg*	*40.0*		*93.1*	*70-130*			
Blank (1453002-BLK2)				Analyzed: 22-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK2)				Analyzed: 22-Dec-14						
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*42*		*ug/Kg*	*40.0*		*106*	*70-130*			

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK2)				Analyzed: 22-Dec-14						
Surrogate: Dibromofluoromethane	*34*		*ug/Kg*	*40.0*		*84.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*37*		*ug/Kg*	*40.0*		*91.9*	*70-130*			
Surrogate: Toluene-d8	*34*		*ug/Kg*	*40.0*		*85.4*	*70-130*			
Blank (1453002-BLK3)				Analyzed: 22-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK3)				Analyzed: 22-Dec-14						
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK3)				Analyzed: 22-Dec-14						
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*43*		*ug/Kg*	*40.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*33*		*ug/Kg*	*40.0*		*82.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		*ug/Kg*	*40.0*		*75.1*	*70-130*			
Surrogate: Toluene-d8	*35*		*ug/Kg*	*40.0*		*88.2*	*70-130*			
Blank (1453002-BLK4)				Analyzed: 23-Dec-14						
Benzene	ND	5.0	ug/Kg							
Bromobenzene	ND	5.0	ug/Kg							
Bromodichloromethane	ND	5.0	ug/Kg							
Bromoform	ND	5.0	ug/Kg							
Bromomethane	ND	5.0	ug/Kg							
tert-Butylbenzene	ND	5.0	ug/Kg							
sec-Butylbenzene	ND	5.0	ug/Kg							
n-Butylbenzene	ND	5.0	ug/Kg							
Carbon disulfide	ND	5.0	ug/Kg							
Carbon Tetrachloride	ND	5.0	ug/Kg							
Chlorobenzene	ND	5.0	ug/Kg							
Chloroethane	ND	5.0	ug/Kg							
Chloroform	ND	5.0	ug/Kg							
Chloromethane	ND	5.0	ug/Kg							
2-Chloroethyl vinyl ether	ND	5.0	ug/Kg							
2-Chlorotoluene	ND	5.0	ug/Kg							
4-Chlorotoluene	ND	5.0	ug/Kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg							
Dibromochloromethane	ND	5.0	ug/Kg							
1,2-Dibromoethane	ND	5.0	ug/Kg							
Dibromomethane	ND	5.0	ug/Kg							
1,3-Dichlorobenzene	ND	5.0	ug/Kg							
1,2-Dichlorobenzene	ND	5.0	ug/Kg							
1,4-Dichlorobenzene	ND	5.0	ug/Kg							
Dichlorodifluoromethane	ND	5.0	ug/Kg							
1,1-Dichloroethane	ND	5.0	ug/Kg							

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CLIENT COMPANY NAME: Stanley Consultants, Las Vegas
CLIENT PROJECT NAME: **NV Energy LIF Investigation**
CLIENT PROJECT NUMBER: NA
VERITAS LAB ORDER ID: V14L043

Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK4)				Analyzed: 23-Dec-14						
1,2-Dichloroethane	ND	5.0	ug/Kg							
1,1-Dichloroethene	ND	5.0	ug/Kg							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg							
2,2-Dichloropropane	ND	5.0	ug/Kg							
1,2-Dichloropropane	ND	5.0	ug/Kg							
1,3-Dichloropropane	ND	5.0	ug/Kg							
1,1-Dichloropropene	ND	5.0	ug/Kg							
trans-1 3-Dichloropropene	ND	5.0	ug/Kg							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg							
Ethylbenzene	ND	5.0	ug/Kg							
Hexachlorobutadiene	ND	5.0	ug/Kg							
Isopropylbenzene	ND	5.0	ug/Kg							
p-Isopropyltoluene	ND	5.0	ug/Kg							
Methyl-tert-butyl-ether (MTBE)	ND	5.0	ug/Kg							
Methylene Chloride	ND	5.0	ug/Kg							
Naphthalene	ND	5.0	ug/Kg							
n-Propylbenzene	ND	5.0	ug/Kg							
Styrene	ND	5.0	ug/Kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg							
Tetrachloroethene (PCE)	ND	5.0	ug/Kg							
Toluene	ND	5.0	ug/Kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg							
1,1,1-Trichloroethane	ND	5.0	ug/Kg							
1,1,2-Trichloroethane	ND	5.0	ug/Kg							
Trichloroethene (TCE)	ND	5.0	ug/Kg							
Trichlorofluoromethane	ND	5.0	ug/Kg							
1,2,3-Trichloropropane	ND	5.0	ug/Kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg							

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Volatile Organic Compounds, GC/MS - Quality Control

Veritas Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Reference Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch 1453002 - No Prep VOA										
Blank (1453002-BLK4)				Analyzed: 23-Dec-14						
Vinyl chloride	ND	2.0	ug/Kg							
m,p-Xylene	ND	5.0	ug/Kg							
o-Xylene	ND	5.0	ug/Kg							
Surrogate: 4-Bromofluorobenzene	*42*		*ug/Kg*	*40.0*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*32*		*ug/Kg*	*40.0*		*79.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*29*		*ug/Kg*	*40.0*		*72.4*	*70-130*			
Surrogate: Toluene-d8	*34*		*ug/Kg*	*40.0*		*84.0*	*70-130*			

Veritas Laboratories
Truth in Quality, Truth in Service
6245 Harrison Drive, Suite 4, Las Vegas, NV 89120
(702) 321-8315 Phone
(702) 597-2098 Fax
Email: veritaslabs@msn.com

CLIENT COMPANY NAME:	Stanley Consultants, Las Vegas
CLIENT PROJECT NAME:	**NV Energy LIF Investigation**
CLIENT PROJECT NUMBER:	NA
VERITAS LAB ORDER ID:	V14L043

Report Definitions

DF - Dilution Factor. Represents the factor applied to the reported data due to the dilution of the sample aliquot
DUP - Duplicate Sample
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MDL - Method Detection Limit
MRL - Method Reporting Limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Analyte Not Detected at or above the Reporting Limit (MRL)
% REC - Percent Recovery
RL - Reporting Limit
RPD - Relative Percent Difference
NR - Result is outside of acceptable limits and not reportable due to size constraints of the associated field

Lab/Qualifier Definitions

S1	Spike/Surrogate recovery outside of accepted recovery limits due to probable matrix interference
S	Spike/Surrogate recovery outside of accepted recovery limits
M	Surrogate masked by hydrocarbon concentration in the same peak range.
E	Reported concentration exceeded the calibration range of the instrument.
DO	Spike/Surrogate diluted out
AST	Analysis performed by ASSET Laboratories, Las Vegas, NV. State of Nevada Certified Laboratory ID NV-009222007A.

Veritas Lab Order ID: V14L043

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Company: STANLEY CONSULTANTS	Telephone: 702-534-2123
Address: 5820 S. EASTERN AVE SUITE 200 LAS VEGAS, NV 89119	Fax: 702-369-9793
	Email: sarichjonathan@stanleygroup.com
	Project Name/Project Number: NV ENERGY LIF INVESTIGATION
Attention: JONATHAN SARICH	
Invoice To:	
Sampled By: SCOTT BEHRENDS	P.O. Number:

Client Sample Identification	Veritas Sample Identification	Date Sampled	Time Sampled	Composite	~~Grab~~ Composite	Matrix Code[1]	TPH	GRO	DRO	ORO	VOC's (EPA 8260)	PAH's (EPA 8270)				Total # of Containers / Preservation Code[2] / Container Code[3]
AG25 19.5-20'	V14L043-01	12/9/14	735		S	S	X	X	X	X						Only 1 jar
AF34 19.5-20'	02	12/9/14	820		S	S	X	X	X	X						
AF34 33-34'	03	12/9/14	835		S	S	X	X	X	X	X	X				
M23 10.5-11.5'	04	12/9/14	915		S	S	X	X	X	X	X	X				
R24 17.5-18.5	05	12/9/14	955		S	S	X	X	X	X						
AA30 14.5-15.5	06	12/9/14	1020		S	S	X	X	X	X	X	X				
AH30 23-24'	07	12/9/14	1030		S	S	X	X	X	X	X	X				
AE23 14-15'	08	12/9/14	1050		S	S	X	X	X	X	X	X				
AE23 22.5-23.5	09	12/9/14	1110		S	S	X	X	X	X	X	X				
AE23 25.5-26.5	10	12/9/14	1120		S	S	X	X	X	X						

ATTESTATION OF AUTHORITY
By signing this Chain of Custody, the sampler attests to the validity and authenticity of submitted sample(s). Sampler is aware that tampering with or intentionally mislabeling the sample(s) location, date, or time of collection may be considered fraud and subject to legal action.

Comments
Only 1 jar

All Data Reported on a Wet-Weight Basis Unless Otherwise Specified

Relinquished by: (Signature)	Date/Time:
	1730 / 12/9/14
Received by: (Signature)	Date/Time:
	12/9/14, 1730
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Turnaround Time:
- ____ Same Day
- ____ 1 Day
- ____ 2 Days
- ____ 3 Days
- X 5 Days (Normal)
- ____ Other

12/16/14
Date Needed

[1]Matrix Code
GW = Groundwater
WW = Wastewater
DW = Drinking Water
S = Soil/Solid
SL = Sludge
OL = Organic Liquid
A = Air
W = Wipe
O = Other

[2]Preservation Code
I = Iced
H = HCL
N = HNO_3
S = H_2SO_4
X = NaOH
T = $Na_2S_2O_3$
Z = ZnAc
NO = None
O = Other

[3]Container Code
A = Amber
G = Glass
P = Plastic
ST = Sterile
V = VOA Vial
T = Tedlar Bag
W = Wipe
O = Other

For Lab Use Only
Received in Good Condition? Yes/No
Custody Seals? Yes/No
Temperature 3.4 °C

By signing this Chain of Custody, the Client Agrees to Veritas Laboratories' Published Standard Terms and Conditions.

CHAIN OF CUSTODY

TO REORDER: CALL CREATIVE DIGITAL PRINTING 702-837-9009 FORM NO. 65964

Veritas Lab Order ID: V14L043

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Address: 5820 S. EASTERN AVE SUITE 200 LAS VEGAS, NV 89119	Fax: 702-369-9793
	Email: sarich.jonathan@stanleygroup.com
Attention: Jonathan Sarich	Project Name/Project Number:
Invoice To:	
Sampled By: SCOTT BEHRENDS	P.O. Number:

Client Sample Identification	Veritas Sample Identification	Date Sampled	Time Sampled	Com-posite	Grab	Matrix Code[1]	TPH	GRO	DRO	ORO	VOC's (EPA 8260)	PAH's (EPA 8270)				Total # of Containers / Preservation Code[2] / Container Code[3]
AF 21 13.5-14.5'	V14L043-11	12-9-14	1220	X		S	X	X	X	X						
AF 21 21-22'	12		1225	X		S	X	X	X	X						
AI20 17.5-18'	13		1300	X		S	X	X	X	X						
AK 35 18.5-19.5	14		1340	X		S	X	X	X	X	X	X				
AK35 21.5-22.5	15		1350	X		S	X	X	X	X						
S41 18.5-19.5	16		1450	X		S	X	X	X	X						

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Comments

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Relinquished by: (Signature)	Date/Time: 12/9/14 - 1730
Received by: (Signature)	Date/Time: 12/9/14, 1730
Relinquished by: (Signature)	Date/Time:
Received by: (Signature)	Date/Time:

Turnaround Time:
- ___ Same Day
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- ___ Other

12/16/14
Date Needed

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