

August 1, 2024

## **180/400-Foot Aquifer Subbasin Monitoring Well Construction, Development, Testing, Sampling, & Equipping**

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# 1 INTRODUCTION

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This report summarizes drilling, construction, development, testing, and equipping of 4 monitoring wells in the 180/400-Foot Aquifer Subbasin (Subbasin) on behalf of the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA). SVBGSA installed the monitoring wells to fill data gaps identified in the approved 180/400-Foot Aquifer Subbasin Groundwater Sustainability Plan (GSP). Since GSP submittal, additional wells have been added to the monitoring networks and the data gaps list has been refined. Of the 4 new wells, 3 wells fill groundwater level monitoring network data gaps, 1 well fills an interconnected surface water monitoring network data gap, and all wells also fill hydrogeologic conceptual model (HCM) data gaps identified in the GSP. The work was funded by the Department of Water Resources (DWR) Sustainable Groundwater Management (SGM) Round 1 Implementation Grant.

## 1.1 Background

The Subbasin consists of 3 principal aquifers (SVBGSA, 2022): the 180-Foot Aquifer, the 400-Foot Aquifer, and the Deep Aquifers. The geology of the 180-Foot and 400-Foot aquifers is characterized by alluvium, terrace deposits, the Aromas Red Sands Formation, and the Upper Paso Robles Formation (DWR, 2004). The geology is a result of both fluvial sedimentary deposits from the Salinas River and marine deposits from the Pacific Ocean. The Deep Aquifers are the water-bearing sediments that are below a relatively continuous aquitard or area of higher clay content encountered between approximately 500 feet and 900 feet below ground surface (bgs) within the Salinas Valley Basin. The Deep Aquifers geology is characterized by the Lower Paso Robles Formation, the Purisima Formation, and the Santa Margarita Sandstone which are bounded by the Monterey Formation. Most of the sediments in the Subbasin are a mix of sands, gravels, and clays of varying thickness. Aquitards are primarily composed of several interbedded clay and sand layers.

## 1.2 Summary of Installed Wells

The GSP describes data gaps in the groundwater level and interconnected surface water monitoring networks. Data gaps were first filled with existing wells monitored by Monterey County Water Resources Agency (MCWRA) for groundwater elevations, and then the data gaps were re-evaluated. Revised data gaps included areas where there was a low density of wells perforated solely in the Deep Aquifers, and an area where shallow groundwater may be interconnected with surface water near a United States Geological Survey (USGS) stream gage.

The 4 wells summarized in this memorandum partially fill these 2 data gaps. Monitoring wells 180/400-DA-1, 180/400-DA-2, and 180/400-DA-3 (Figure 1) fill data gaps in the groundwater



level monitoring network. Monitoring Well 180/400-ISW-1 (Figure 1) fills a data gap in the interconnected surface water monitoring network.

Drilling, construction, development, testing, sampling, and equipping of the 4 monitoring wells occurred from September 2023 to June 2024. A summary of the work conducted and monitoring well construction details at each of the 4 monitoring well locations is provided in the sections that follow.

S:\projects\19100\_Salinas\_GSP\Field Work\180\_400 Implementation\19100\_59 Salinas Monitoring Wells\19100\_5901\_mw\_const\06\_report\03\_GIS\Reports and Deliverables\NewMonitoringWells\_180400\_Overview

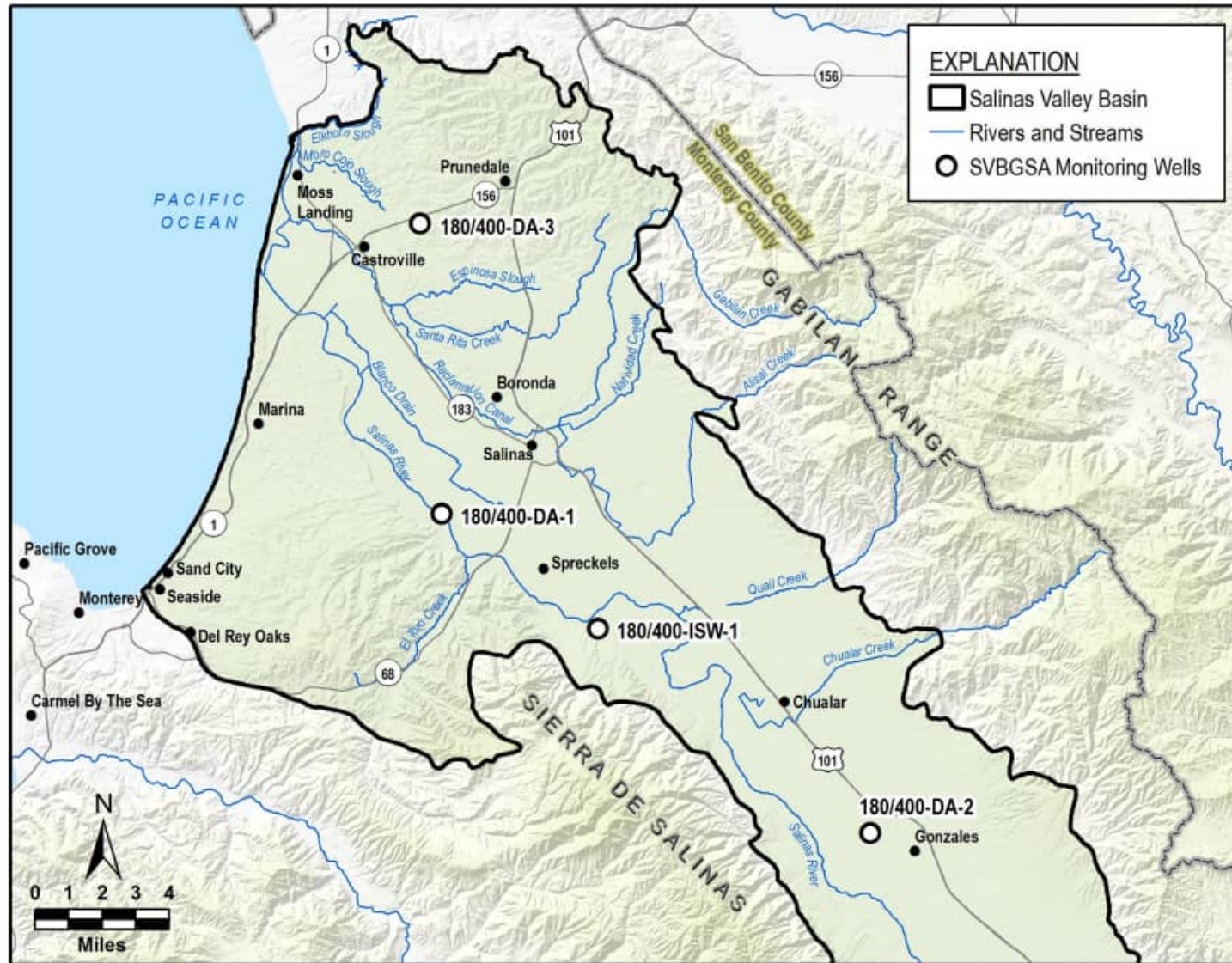


Figure 1. Monitoring Well Locations

## 2 MONITORING WELL INSTALLATION

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This section describes the drilling, construction, development, testing, sampling, and equipping of the 4 monitoring wells to fill data gaps in the 180/400-Foot Aquifer Subbasin. Well installation involved the following parties:

- Gregg Drilling, LLC. (Gregg) of Benicia, CA, a C-57 well driller licensed in the state of California – Contracted to SVBGSA for drilling, construction, and development of the monitoring wells.
- Pacific Surveys, LLC. (Pacific) – Contracted to Gregg to conduct geophysical and caliper logs.
- Montgomery & Associates (M&A) – Contracted to SVBGSA for planning, field construction management services, pneumatic slug testing, and reporting of well installation activities.
- Confluence Environmental Field Services (Confluence) – Contracted to M&A for groundwater quality sampling.
- Polaris Land Surveying, Inc. (Polaris), a land surveyor licensed in the state of California – Contracted to SVBGSA for surveying horizontal and vertical locations of wells.

M&A witnessed most site activities; information provided in this report is a combination of events observed by M&A and information provided by Gregg and Pacific. Construction, development, testing, sampling, and equipping were completed in accordance with M&A's *Technical Specifications, Salinas Valley Basin Groundwater Sustainability Agency Monitoring Well Construction and Development* (Montgomery & Associates, 2023) as well as State of California Water Well Standard Bulletins 74-81 (State of California, 1981) and 74-90 (State of California, 1991).

### 2.1 Monitoring Wells Locations

Monitoring well locations were targeted to best fill data gaps in the monitoring network with the available resources. Goals of the project were to:

1. Screen the 3 deep wells solely in transmissive sediments of the Deep Aquifers to obtain representative groundwater levels.
2. Screen the shallow well across the water table near a stream gage on the Salinas River to assess the depletion of interconnected surface water.

The northernmost and first monitoring well installed was 180/400-DA-3, located northeast of Castroville near Highway 156, alongside Blackie Road. This location was selected because it is near the northern edge of the Deep Aquifers where there were no other wells screened solely within the Deep Aquifers. The new well will enable groundwater elevation contours to be extended to this area and help understand the interaction between the Deep Aquifers and the adjacent aquifer.

The second monitoring well installed was 180/400-DA-1, located near the Salinas River off South Davis Road. This well will help extend Deep Aquifers groundwater elevation contours and provide additional information to understand the relationship between the Ord Area in the Monterey Subbasin and the Deep Aquifers.

The third monitoring well installed was the shallow 180/400-ISW-1, located off Laguna Road between Salinas and Chualar. Few areas of potential interconnection between the Salinas River and the 180-Foot Aquifer exist within the Subbasin due to the presence of the Salinas Valley Aquitard and other shallow clay layers; however, nearby wells show a thinning of the aquitard in this area. This location was selected because of the potential interconnection and presence of a USGS stream gage. Interconnected surface water monitoring wells are paired with USGS stream gages to assess the interaction between streamflow and groundwater.

The southernmost and fourth monitoring well is 180/400-DA-2, located near Gonzales off Corda Road. No wells screened solely in the Deep Aquifers exist in this area; however, there is extensive pumping at deep depths just outside of the extent of the Deep Aquifers. This new well will add groundwater elevations and quality monitoring within the southeastern part of the Deep Aquifers and will help understand the relationship between the deep wells within the adjacent Eastside alluvial fans.

## 2.2 Chronology

The following is a generalized chronological summary of key field events:

1. 180/400-DA-1 drilling, construction, and development: September 21 – November 8, 2023
2. 180/400-DA-3 drilling, construction, and development: October 18 – November 10, 2023
3. 180/400-ISW-1 drilling, construction, and development: November 11, 2023 – May 16, 2024
4. 180/400-DA-2 drilling, construction, and development: November 11, 2023 – April 19, 2024
5. Collect groundwater quality samples: June 10 – June 11, 2024

6. Conduct pneumatic slug testing: June 12 – June 13, 2024
7. Install In-Situ Level TROLL 500 and 700 pressure transducers: June 13, 2024

Drilling the first 3 wells proceeded as planned; however, Gregg encountered several challenges while drilling 180/400-DA-2 that caused the well installation to take much longer than anticipated. Section 2.3.1 describes the challenges and process in greater depth. Despite the delay the monitoring wells were completed within the timeframe of the SGM Grant.

## **2.3 Drilling and Construction**

Monitoring well construction permits were obtained from the Monterey County Environmental Health Bureau for construction of all 4 wells, copies of which are included in Appendix A.

Gregg conducted the drilling, well construction, and development using a GEFCO 30K drill rig using the direct-rotary method with bentonite-based drilling fluid. Drill cuttings and drilling fluids were hauled away for proper off-site disposal.

M&A and Pacific collected lithologic and geophysical data used to support well design. In drilling the boreholes, Gregg used a 10.625-inch diameter mill tooth bit and collected samples of cuttings off the shaker every 10 feet of vertical drilling, which were then stored in resealable plastic bags. M&A geologists described these cuttings in the field and prepared chip trays with representative samples. Detailed logs describing the lithology and photographs of the cuttings are included in Appendix A.

Following completion of each borehole, Pacific conducted downhole geophysical surveys that included natural gamma radiation, spontaneous potential, short and long normal resistivities, and single point resistance. Results of the geophysical surveys are included in Appendix A. Pacific conducted a caliper survey to measure the borehole's diameter and shape following the completion of each one; the survey results are also included in Appendix A.

M&A interpreted multiple types of data together to determine the downhole lithology. This included the cuttings samples, observations made during drilling, and the geophysical survey results. The interpreted lithology of each borehole is included in Appendix A.

Well casing and screen at all wells consisted of nominal 4-inch diameter (3.8-inch inner diameter and 4.5-inch outer diameter), flush threaded, Schedule 80 poly vinyl-chloride (PVC). The screened sections consisted of horizontal machine-cut 0.040-inch slots and the wells were completed with a 5-foot cellar with a stainless steel threaded end cap. Casing centralizers were installed at the top and bottom of the screened interval and every 60 feet along the casing to ensure that it was centered in the borehole.



Annular materials were placed at all wells using the tremie method beginning at the bottom of the borehole and included, in order from bottom to top: hydrated bentonite, 8 x 20 gradation filter media provided by Cemex Lapis Lustre, #60 transition sand, hydrated bentonite, and a batch-plant mixed 10.3 sack sand-cement grout. A Monterey County Environmental Health Bureau inspector was present to witness placement of all annular seals.

### **2.3.1 180/400-DA-2 Borehole Stability Issues**

The first attempt at drilling the 180/400-DA-2 borehole began on November 29, 2023. Borehole advancement continued with daytime-only drilling through December 1, 2023, after which the borehole collapsed at a depth of approximately 486 feet bgs. Attempts were made to free the drill stem which resulted in shearing it off, leaving the drill bit and 1 weight collar at the bottom of the borehole. On December 5, 2023, the first borehole was destroyed in accordance with Monterey County permit conditions and applicable standards.

A second attempt at drilling the 180/400-DA-2 borehole began on December 7, 2023, when a conductor casing was installed to 80 feet bgs. Drilling began on the second borehole December 9, 2023, and continued with daytime-only drilling through December 13<sup>th</sup>, 2023, when the second borehole collapsed at a depth of approximately 1,240 feet bgs. Unsuccessful attempts were made to free the drill string using the up, down, and rotational capabilities of the drilling rig.

On January 11, 2024, Gregg subcontracted CogCo Wireline Services, Inc. (CogCo) to detonate a string shot charge to free the seized drilling stem. After detonating the charge, Gregg was able to remove 180 feet of drill pipe from the borehole, which left approximately 860 feet of drill pipe in the borehole. Hoping to retrieve more of their drill pipe, Gregg went back into the borehole to tie into the remaining drill stem. CogCo then detonated a string shot charge at a depth of approximately 1,017 feet bgs. The first string shot detonation didn't work, but the second charge was successful, and Gregg removed the remaining drill stem. The drill bit and 1 weight collar were left at the bottom of the borehole. The second borehole was determined to be unusable because the target screen depth was below the obstruction. On January 30, 2023, the second borehole was destroyed in accordance with Monterey County permit conditions and applicable standards.

Severe weather delayed the beginning of the third borehole until March 19, 2024. On March 21, 2024, Gregg installed a conductor casing to a depth of 80 feet bgs. Drilling began on the third borehole March 23, 2024, and was halted due to weather conditions early on March 24 at a depth of 180 feet bgs. Drilling resumed on a 24-hour schedule on April 8, 2024, and continued uninterrupted until the target depth of 1,300 feet bgs was reached on April 11, 2024.

## 2.4 Well Development

Gregg completed well development at all monitoring wells after allowing a minimum of 24 hours for the sanitary seal to cure. Using a 1-inch airline and the well casing as an eductor pipe, airlifting was completed from the top of the well to the bottom until the discharge was free of drilling fluid and purge water was visibly clear. Fill generated during this process was removed from the bottom of the well by lowering the airline into the cellar section.

## 2.5 Well Completion

As requested by MCWRA, each monitoring well was completed with a standpipe monument and locking cover to prevent tampering. Figure 2 shows 180/400-DA-3 as an example. The standpipe monuments were protected using 3 traffic bollards. The State of California Well Completion Reports are included in Attachment A.



Figure 2. Standpipe Monument

## 2.6 Monitoring Well Surveying

Between May 24 and May 31, 2024, Polaris Land Surveying recorded the exact location and land surface elevation of each completed monitoring well. Survey information is included in Table 1 with the signed licensed land surveyor data sheets included in Appendix B.

Table 1. Monitoring Well Surveyed Elevations

Well	California State Plane Zone IV, NAD 83		Land Surface Elevation NAVD 88 (feet)	Measuring Point Elevation* NAVD 88 (feet)	Approximate Elevation at Top of Screen NAVD 88 (feet)	Approximate Elevation at Bottom of Screen NAVD 88 (feet)	Approximate Elevation of Groundwater Surface NAVD 88 (feet,)
	X Coordinate (feet)	Y Coordinate (feet)					
180/400-DA-1	5,769,042.3	2,129,929.9	35.79	38.36	-912	-962	-37
180/400-DA-2	5,836,352.1	2,079,630.1	122.60	125.71	-894	-954	14
180/400-DA-3	5,765,673.2	2,175,553.1	93.36	96.16	-1,054	-1,104	-47
180/400-ISW-1	5,793,706.4	2,111,913.4	67.93	70.64	36	-14	17

NAVD – North American Vertical Datum

\*Measuring point elevation or reference point elevation is marked on the north side of the casing in permanent marker.

## 2.7 Well Construction Summary

Table 2 below summarizes the as-built construction details for all 4 monitoring wells.

Table 2. Well Construction Summary

	180/400-DA-1	180/400-DA-2	180/400-DA-3	180/400-ISW-1
Total Drilled Depth (feet)	1,400	1,300	1,300	202
Borehole Diameter (inches)	10.625	10.625	10.625	10.625
Completed Depth (feet)	1,010	1,090	1,210	95
Casing Diameter (inches)	4 (nominal)	4 (nominal)	4 (nominal)	4 (nominal)
Casing Material	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC	Schedule 80 PVC
Screened Interval (feet)	950-1,000	1,020-1,080	1,150-1,200	35-85
Filter Pack Material	8 x 20	8 x 20	8 x 20	8 x 20
Depth of Annular Seal (feet)	50	50	50	20
Static Water Level (feet btoc) <sup>a</sup>	74.96	111.41	143.54	54.12

<sup>a</sup> btoc – below top of casing

Notes: Static water levels collected June 12-13, 2024. The completed depth is defined as the bottom of the casing.



### 3 MONITORING WELL SAMPLING, TESTING, AND EQUIPPING

After the monitoring wells were installed, M&A conducted sampling and analyses on the Deep Aquifers wells. This included sampling to collect groundwater quality data, testing to measure aquifer properties, and equipping the wells with transducers to monitor changes in groundwater elevations over time. M&A also installed a transducer in the shallow well. M&A conducted sampling, testing, and equipping from June 10 to June 13, 2024. The sections below describe each activity in more detail.

#### 3.1 Groundwater Sampling

M&A contracted Confluence Environmental Field Services to collect groundwater samples for water quality analysis at each of the 3 Deep Aquifers monitoring wells from June 10 to June 11, 2024. Confluence purged 3 casings volumes of water from each well prior to collecting the samples.

Table 3 provides a summary of the groundwater quality results. Water from well 180/400-DA-3 was above the primary MCL for Arsenic and above the secondary MCL for Chloride, Conductivity, Iron, Manganese, and Total Dissolved Solids, shown in red in Table 3. The full laboratory reports are provided in Appendix C.

Table 3. Water Quality Summary

Analyte	180/400-DA-1	180/400-DA-2	180/400-DA-3	State MCL	Units
Arsenic	4.6	ND	27	10	ug/L
Boron	0.19	0.18	2.5		mg/L
Calcium	14	57	57		mg/L
Chloride	19	23	890	250 <sup>b</sup>	mg/L
Conductivity @ 25°C	603	606	3,220	900 <sup>b</sup>	umho/cm
Hardness	80.3	221	192		mg/L
Iron	ND	ND	2,870	300 <sup>b</sup>	ug/L
Magnesium	11	19	12		mg/L
Manganese	7	7	303	50 <sup>b</sup>	ug/L
Nitrate as NO3	1.3	1.4	ND	45	mg/L
pH	9.2	7.2	7.4		pH
Potassium	30	2.9	3.5		mg/L
Sulfate	91	120	2.9	250 <sup>b</sup>	mg/L
Sodium	93	42	582		mg/L
Total Alkalinity as CaCO3	183	157	193		mg/L
Total Dissolved Solids	365	405	1,750	500 <sup>b</sup>	mg/L

Notes: <sup>a</sup>mg/L = milligrams per liter; <sup>b</sup>Secondary maximum contaminant level; <sup>c</sup>umhos/cm = micromhos per centimeter

## 3.2 Pneumatic Slug Testing

M&A conducted pneumatic slug testing by applying air pressure to the sealed monitoring wells to lower the groundwater level in the wells. Once the water level was lowered to the desired displacement distance and equilibrated, a rising head test was conducted by releasing a valve allowing instantaneous release of the air pressure.

During testing, each monitoring well was equipped with a wellhead manifold and a datalogging pressure transducer (Figure 3). M&A conducted 3 rising head tests using 2 different pressures at each well to verify test repeatability.

Following testing, M&A processed the rising head slug test data and analyzed the data to estimate hydraulic conductivity (K).

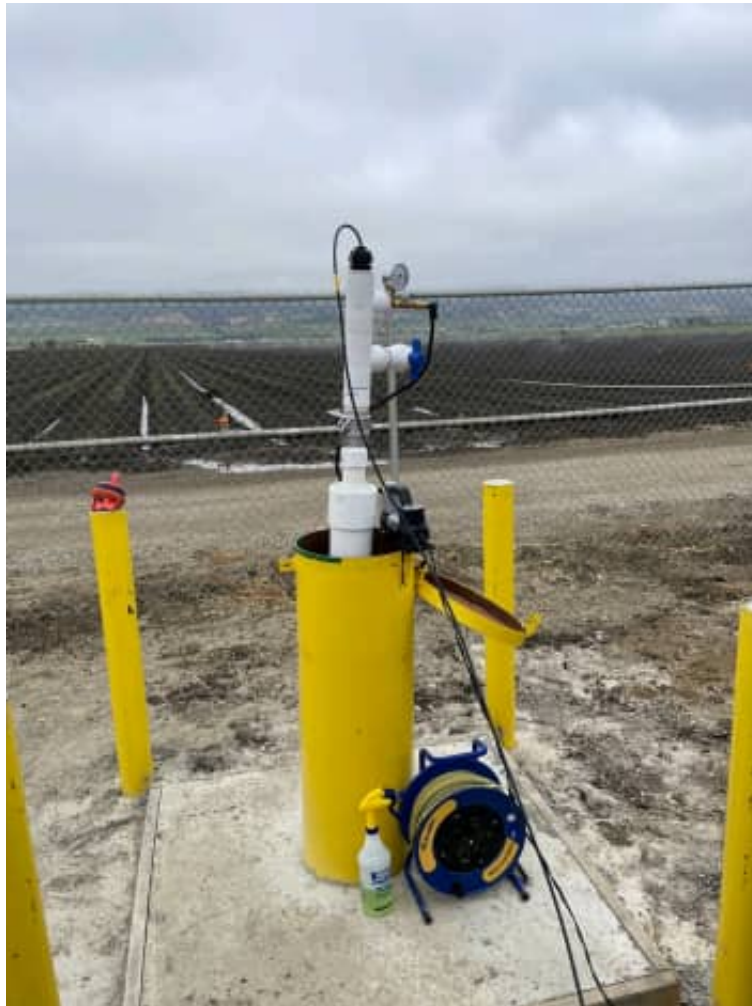


Figure 3. Wellhead Manifold and Data Logging Pressure Transducer

### 3.2.1 Testing Procedure

Pneumatic slug testing was conducted at the 3 deep monitoring wells from June 12 to June 13, 2024. The shallow monitoring well that was installed to monitor interconnected surface water was not tested because it was intentionally screened across the water table to monitor the shallowest groundwater. This well would not be able to maintain air pressure because the gas would dissipate into the unsaturated portions of the formation.

Prior to pneumatic slug testing, all the monitoring wells were left undisturbed for a period of at least 2 days following groundwater sampling activities. Pneumatic slug testing comprised the pressurization and instantaneous depressurization of the water column in the monitoring wells, displacing a known volume of water in each well and measuring the imposed fluctuation of the groundwater level. A minimum of 3 rising head pneumatic slug tests were conducted at each well to verify that the data were repeatable. Slugs of different air pressure were used at each location for comparative analysis.

In-Situ® Level TROLL® 500 and Level TROLL® 700 vented pressure transducer/dataloggers were used to measure water level response during pneumatic slug testing. The dataloggers were programmed to record water levels at a rate of 1 reading per second. After the monitoring equipment was installed in a well, the air column in the well casing was pressurized to displace the water column downward and the water level was allowed to re-equilibrate to the slug pressure. The valve was then opened to initiate the test and release the gas slug to observe water level response to the slug release and track the water level as it rose back to the static position. Monitoring of rising head continued until the water level recovered to within approximately 99 percent of the initial static water level.

### 3.2.2 Pneumatic Slug Test Results

Multiple sets of tests were conducted at each well using slugs of different air pressure to demonstrate that measurements were repeatable.

Water level recovery data for rising head tests were analyzed using the aquifer test analytical software AQTESOLV (HydroSOLVE, 2015). Either the Butler-Zahn Inertial method (Butler and Zahn, 2004) or the KGS method (Hyder *et al.*, 1994) were used to analyze the observed water level response for all wells. The water level response at well 180/400-DA-1 and well 180/400-DA-2 were both underdamped so the Butler-Zahn analytical method was used. The water level response at 180/400-DA-3 was overdamped so the KGS analytical method was used. These methods are applicable for analysis of fully and partially penetrating wells under confined conditions.

For pneumatic slug tests, displacement (i.e., change in water level in the well) at time  $t$  ( $H_t$ ) is normalized by the initial displacement ( $H_0$ ) as follows:

$$\text{normalized head} = H_t/H_0$$

The normalized head was plotted against time and matched against type curves of known horizontal  $K$ . Analytical results are presented as horizontal  $K$  in units of feet per day (ft/d). Horizontal  $K$  was also estimated using a straight-line method (Hvorslev, 1951) to compare to the values estimated using type curves and to validate the results. For each well tested, the estimated horizontal  $K$  values for each analytical method, and the arithmetic mean of values from both analytical methods for the slug tests are given in Table 4. The low  $K$  values estimated at 180/400-DA-3 are not surprising when compared to the resistivity log collected during the geophysical surveys.

Graphs of observed water level response, and the selected type curve, are provided in Appendix D. The horizontal  $K$  values from the slug tests at each well are considered representative of the area near the well at the depth of their screen intervals. Table 4 summarizes the  $K$  data from the 2024 pneumatic slug testing program.

Table 4. Summary of Pnuematic Slug Testing Analysis

Well ID	Analytical Method	K (ft/day)	Analytical Method	K (ft/day)	Kavg (ft/day)
180/400-DA-1	Butler-Zahn	25.1	Hvorslev	26.5	25.8
180/400-DA-2	Butler-Zahn	44.0	Hvorslev	29.3	36.6
180/400-DA-3	KGS	6.8	Hvorslev	6.5	6.7

### 3.3 Well Instrumentation Summary

The static groundwater levels and screened interval depths were used for design and installation of customized, dedicated monitoring equipment for each well. The 3 Deep Aquifers monitoring wells were equipped with In-Situ Level TROLL 500 pressure transducers and the 1 interconnected surface water monitoring well was equipped with an In-Situ Level TROLL 700 pressure transducer. Instrumentation was installed in all 4 wells on June 13, 2024.

In-Situ Level TROLL 500 and In-Situ Level TROLL 700 pressure transducers were installed in each respective well to continuously measure groundwater levels. The transducers were placed at approximately 200 feet below the static water level in the Deep Aquifers monitoring wells, and at approximately 85 feet below top of casing (bottom of screened interval) in the interconnected surface water monitoring well. The transducers were suspended using vented direct data cables. Pressure transducer specifications and depths are summarized in Table 5.

Table 5. Transducer Specifications

Monitoring Well	Screened Interval (feet btoc)	Static Groundwater Level (feet btoc)	Transducer Depth (feet btoc)	Range (ft H <sub>2</sub> O)	Transducer Model
180/400-DA-1	950-1,000	74.96	278	692	Level TROLL 500
180/400-DA-2	1,020-1,080	111.41	284	692	Level TROLL 500
180/400-DA-3	1,150-1,200	143.54	343	692	Level TROLL 500
180/400-ISW-1	35-85	54.12	85	69	Level TROLL 700

btoc – below top of casing  
ft H<sub>2</sub>O - feet of Water Column

## 4 REFERENCES

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## 5 ACRONYMS & ABBREVIATIONS

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bgs .....	below ground surface
btoc .....	below top of casing
DWR .....	Department of Water Resources
ft/d .....	feet per day
GSP .....	Groundwater Sustainability Plan
HCM .....	hydrogeologic conceptual model
M&A .....	Montgomery & Associates
MCWRA .....	Monterey County Water Resources Agency
mg/L .....	milligrams per liter
PVC .....	polyvinyl chloride
SGM .....	Sustainable Groundwater Management
SVBGSA .....	Salinas Valley Basin Groundwater Sustainability Agency
USGS .....	United States Geological Survey

## **Appendix A**

**Well Permits, Geophysical, Caliper, and Lithologic Logs,  
Cuttings Photos, As-Built Diagrams, Well Completion  
Reports, Development Field Logs, Encroachment Permits,  
Concrete Tickets, and Project Chronology**



# **MONTEREY COUNTY**

**DEPARTMENT OF HEALTH**

**ENVIRONMENTAL HEALTH BUREAU**

1270 Natividad Road

Salinas, CA 93906

(831) 755-4507



## **MONITORING WELL CONSTRUCTION PERMIT**

**DA-1**

**WELL PERMIT # 23-SEA24-000037**

**INTENDED USE: Monitoring Well**

**SITE LOCATION: S. Davis Rd APN 207-201-011-000**

**ISSUED: 9-10-2023.**

**EXPIRES: 9-10-2024.**

**GPS 36.6474, 121.50251**

**OWNER: Salinas Valley Basin Groundwater Sustainability Agency**

**PHONE: (831) 471-7512**

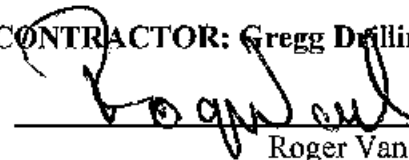
**ADDRESS: P.O. Box 1350**

**CITY: Carmel Valley, CA 93924**

**DRILLING CONTRACTOR: Gregg Drilling LLC**

**LICENSE: 94510**

**ISSUED BY:**

  
Roger Van Horn, R.E.H.S.

### **PROJECT DESCRIPTION:**

This permit authorizes the construction of a Monitoring Well to be utilized by the SVBGSA for monitoring ground water levels and quality within the Salinas Valley Basins.

### **CONDITIONS OF APPROVAL:**

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90, shall be complied with at all times.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.
3. This monitoring well permit shall be kept on site at all times while work is in progress.
4. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
5. Any water well on the premises, which is to be abandoned, or which has been abandoned shall be properly destroyed within six months of the completion of this well.

6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The permit applicants shall indemnify and hold harmless the County and its officers, agents, and employees from actions or claims of any description brought on account of any injury or damages sustained, by any person or property resulting from the issuance of the permit and the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a monitoring well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not permit that this well can be approved for domestic use.
13. A geologic log shall be performed, and it shall be submitted to the EHB before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3<sup>rd</sup> party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END



# EXHIBIT A

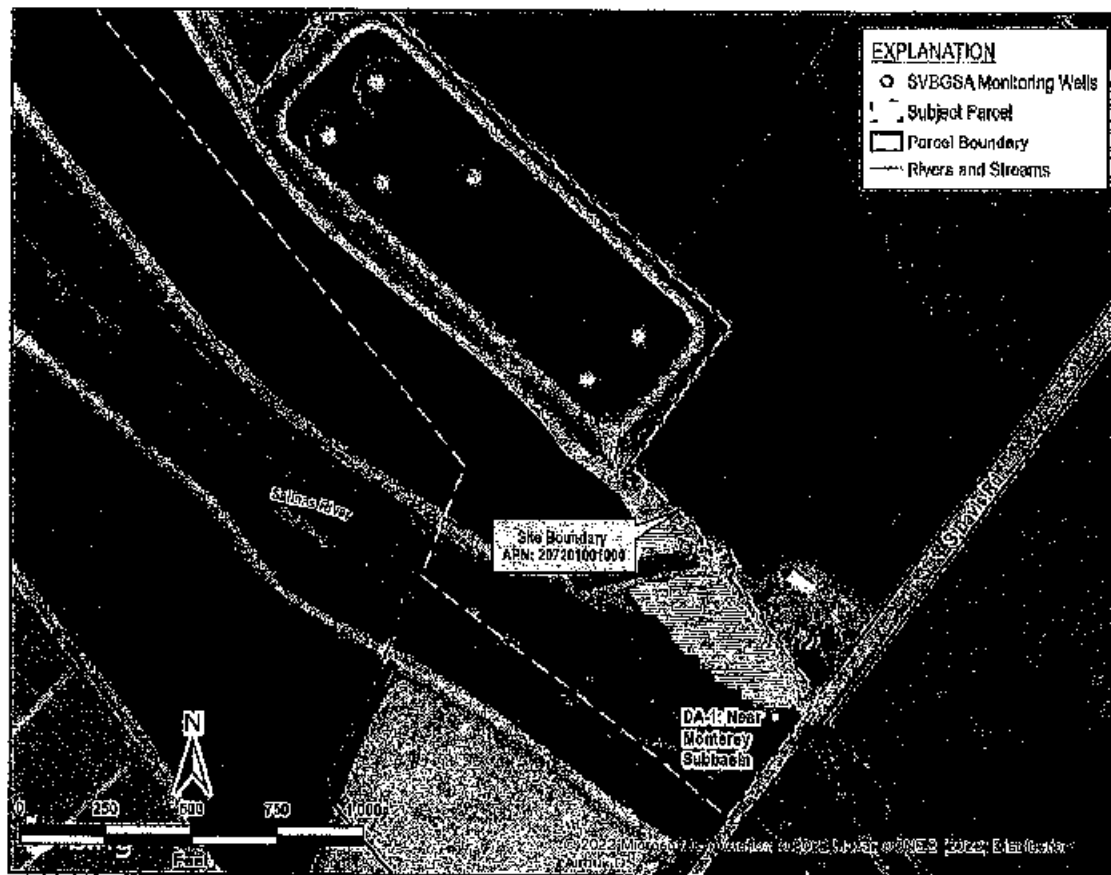


Figure 2. DA-1 Site Location

# **MONTEREY COUNTY**

**DEPARTMENT OF HEALTH  
ENVIRONMENTAL HEALTH BUREAU  
1270 Natividad Road  
Salinas, CA 93906  
(831) 755-4507**



## **MONITORING WELL CONSTRUCTION PERMIT**

**DA-2**

**WELL PERMIT # 23-SEA24-000036**

**INTENDED USE: Monitoring Well**

**SITE LOCATION: APN 223-011-011-000 Corda Rd**

**ISSUED: 9-10-2023.**

**EXPIRES: 9-10-2024.**

**GPS 36.51435, 121.46799**

**OWNER: Salinas Valley Basin Groundwater Sustainability Agency**

**PHONE: (831) 471-7512**

**ADDRESS: P.O. Box 1350**

**CITY: Carmel Valley, CA 93924**

**DRILLING CONTRACTOR: Gregg Drilling LLC**

**LICENSE: 94510**

**ISSUED BY:**

  
Roger Van Horn, R.E.H.S.

### **PROJECT DESCRIPTION:**

This permit authorizes the construction of a Monitoring Well to be utilized by the SVBGSA for monitoring ground water levels and quality within the Salinas Valley Basins.

### **CONDITIONS OF APPROVAL:**

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90, shall be complied with at all times.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.
3. This monitoring well permit shall be kept on site at all times while work is in progress.
4. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
5. Any water well on the premises, which is to be abandoned, or which has been abandoned shall be properly destroyed within six months of the completion of this well.

6. Notify the EHB at least 24 hours prior to moving on site.
7. Notify the EHB 24 hours prior to the time you expect to place any seal.
8. If the seal(s) cannot be witnessed by the EHB, a detailed, written description of the seal(s) shall be submitted to the EHB within ten days.
9. Surface construction features of the completed well shall be in accordance with the California Well Standards Bulletin 74-81 and Bulletin 74-90 Section 10.
10. The permit applicants shall indemnify and hold harmless the County and its officers, agents, and employees from actions or claims of any description brought on account of any injury or damages sustained, by any person or property resulting from the issuance of the permit and the conduct of the activities authorized under said permit.
11. Issuance of this permit to construct a monitoring well does not create, transfer, assign or acknowledge any legal rights to water associated with this property.
12. Issuance of this permit to construct a monitoring well does not permit that this well can be approved for domestic use.
13. A geologic log shall be performed, and it shall be submitted to the EHB before the well is sealed. Interpretation of the geologic log shall be provided by the contractor indicating the best location(s) for sealing off poor quality water and the proposed seal depth. The exact location of sanitary and strata seals shall be approved by the EHB in consultation with any appropriate water management agency before the well is sealed. The permit applicant may request review of the approved seal depth by a 3<sup>rd</sup> party licensed hydrogeologist at the applicant's expense if the applicant disagrees with EHB's decision.

END

# EXHIBIT A

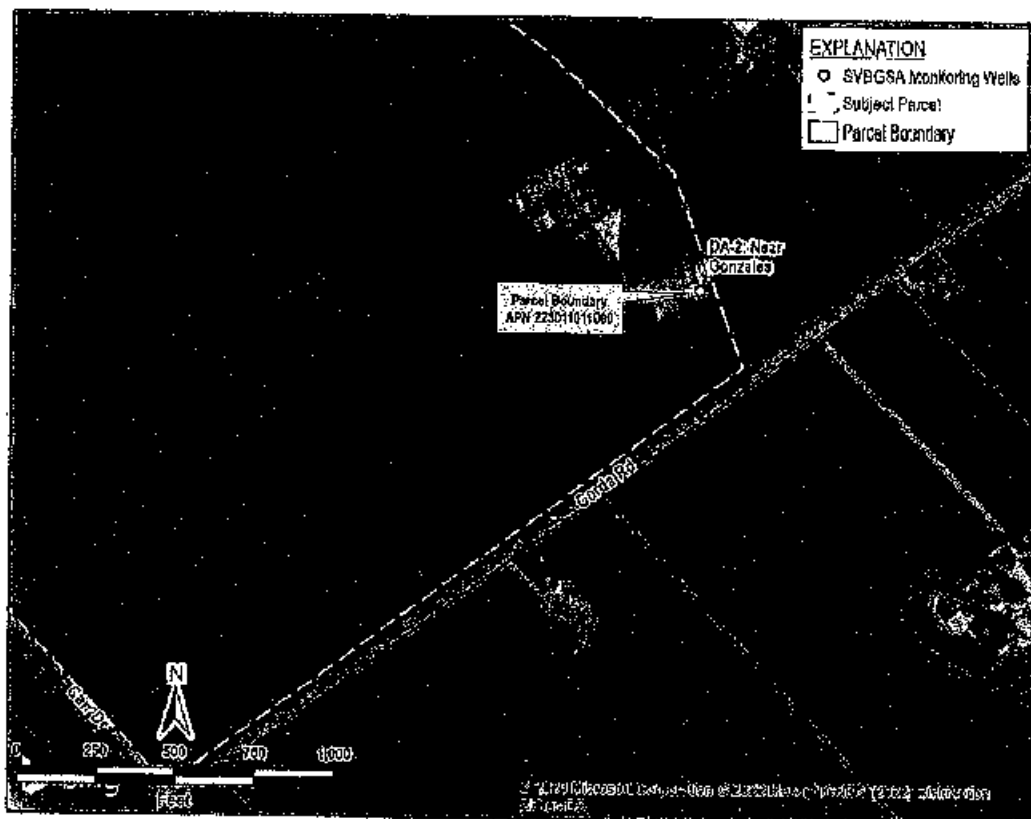


Figure 3. DA-2 Site Location

# MONTEREY COUNTY

DEPARTMENT OF HEALTH  
ENVIRONMENTAL HEALTH BUREAU  
1270 Natividad Road  
Salinas, CA 93906  
(831) 755-4507



## MONITORING WELL CONSTRUCTION PERMIT

DA-3

WELL PERMIT # 23-SEA24-000035  
INTENDED USE: Monitoring Well  
SITE LOCATION: County Road Easement Blacky Road

ISSUED: 9-10-2023.  
EXPIRES: 9-10-2024.  
GPS 36.772496, 121.718429

OWNER: Salinas Valley Basin Groundwater Sustainability Agency

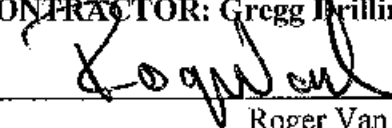
PHONE: (831) 471-7512

ADDRESS: P.O. Box 1350

CITY: Carmel Valley, CA 93924

DRILLING CONTRACTOR: Gregg Drilling LLC

LICENSE: 94510

ISSUED BY:   
Roger Van Horn, R.E.H.S.

### PROJECT DESCRIPTION:

This permit authorizes the construction of a Monitoring Well to be utilized by the SVBGSA for monitoring ground water levels and quality within the Salinas Valley Basins.

### CONDITIONS OF APPROVAL:

1. Owner, Applicant and any agents working on Owner's or Applicant's behalf (hereafter collectively referred to as "Permittee") shall comply with all requirements set forth in Monterey Code Chapter 15.08 and the California Department of Water Resources California Well Standards Bulletins 74-81 and 74-90, shall be complied with at all times.
2. The well shall be at least 100 feet from any septic tank; any portion of any leach field or animal enclosure; 50 feet from any sewer main, line or lateral; and 150 feet from any seepage pit. If type of absorption field is unknown, the distance shall be 150 feet.
3. This monitoring well permit shall be kept on site at all times while work is in progress.
4. The well shall be drilled in the approved location delineated on the attached map, **Exhibit A**. The well cannot be drilled in any other location without prior approval from Monterey County Health Department, Environmental Health Bureau (EHB) and receipt of an amended permit.
5. Any water well on the premises, which is to be abandoned, or which has been abandoned shall be properly destroyed within six months of the completion of this well.

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END





# EXHIBIT A

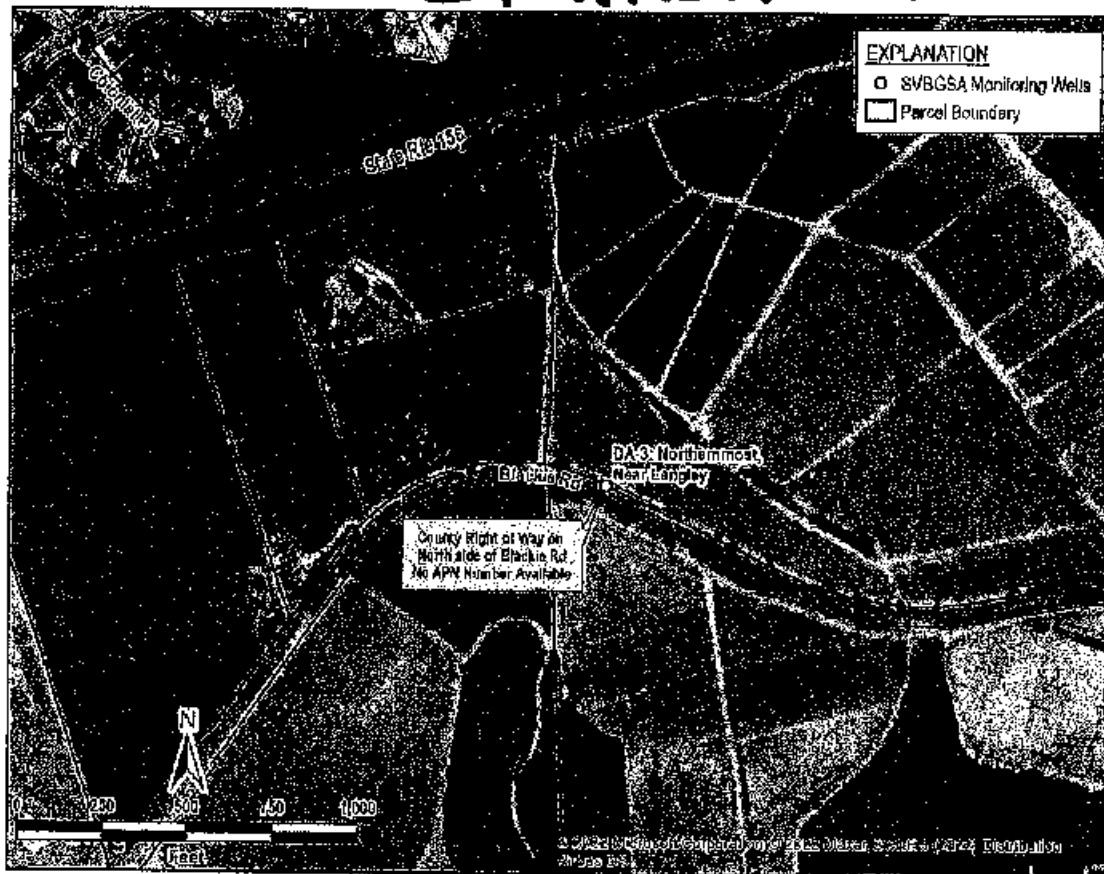


Figure 4. DA-3 Site Location

# MONTEREY COUNTY

DEPARTMENT OF HEALTH  
ENVIRONMENTAL HEALTH BUREAU  
1270 Natividad Road  
Salinas, CA 93906  
(831) 755-4507



## MONITORING WELL CONSTRUCTION PERMIT

ISW-1

WELL PERMIT # 23-SEA24-000032 Laguna Rd  
INTENDED USE: Monitoring Well  
SITE LOCATION: County Road Easement Laguna Road

ISSUED: 9-10-2023.  
EXPIRES: 9-10-2024.  
GPS 36.599212, 121.616937

OWNER: Salinas Valley Basin Groundwater Sustainability Agency

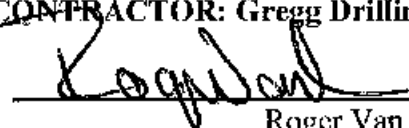
PHONE: (831) 471-7512

ADDRESS: P.O. Box 1350

CITY: Carmel Valley, CA 93924

DRILLING CONTRACTOR: Gregg Drilling LLC

LICENSE: 94510

ISSUED BY:   
Roger Van Horn, R.E.H.S.

### PROJECT DESCRIPTION:

This permit authorizes the construction of a Monitoring Well to be utilized by the SVBGSA for monitoring ground water levels and quality within the Salinas Valley Basins.

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3. This monitoring well permit shall be kept on site at all times while work is in progress.
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END

# EXHIBIT A

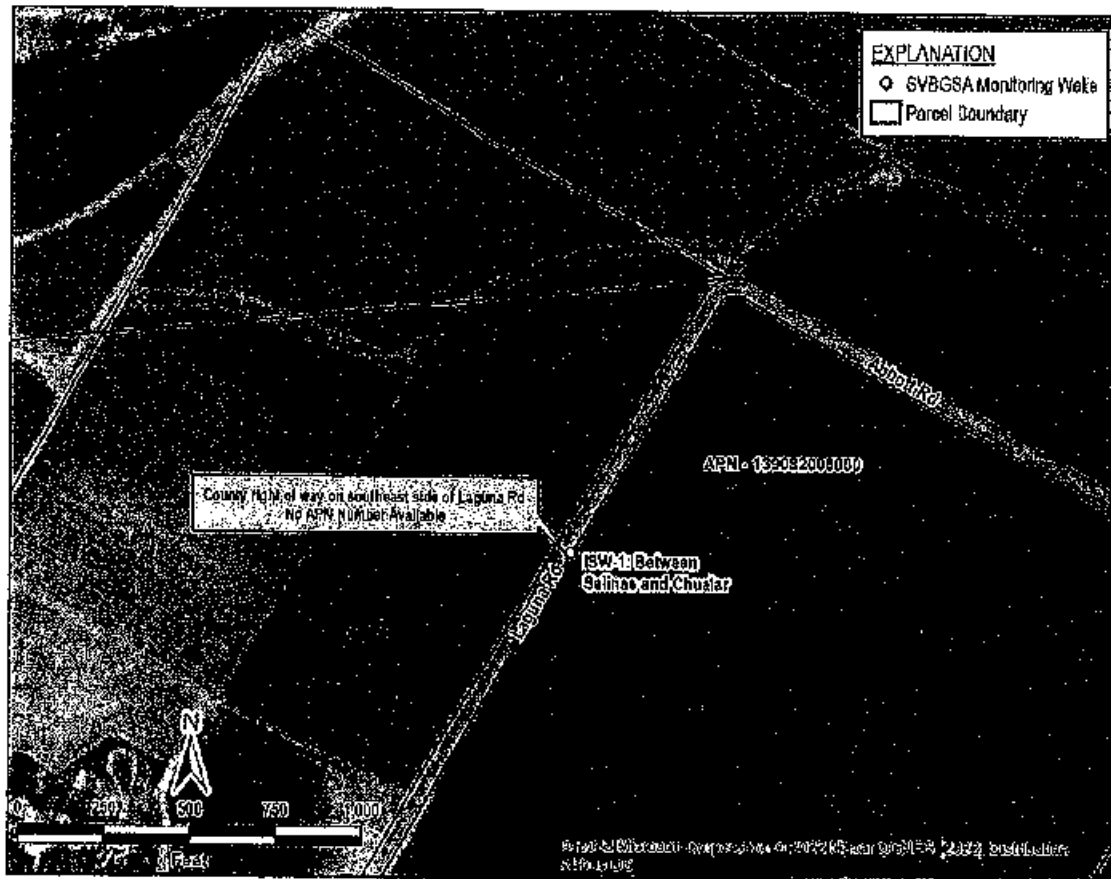


Figure 5. ISW-1 Site Location

<div><div>PACIFIC SURVEYS</div><div>ELECTRIC LOG GAMMA RAY</div></div>	
Job No. 31631	Company GREGG DRILLING, LLC.
Well DA-1	
Field SALINAS	
File No. County MONTEREY	State CALIFORNIA
Location: 240 S DAVIS RD. SALINAS, CA 93306 GPS: 36.6472 -121.7021	
Sec. Typ. Rpt.	Other Services: LL3 TEMP CALIPER
Permanent Datum Log Measured From Drilling Measured From	GL GL 0' GL
Date	7 OCT, 2023
Run Number	ONE
Depth Driller	1400'
Depth Logger	1397'
Bottom Logged Interval	1397'
Top Log Interval	30'
Casing Driller	12 3/4" @ 10'
Casing Logger	10'
Bit Size	9.875"
Type Fluid in Hole	BENTONITE
Density / Viscosity	NA
pH / Fluid Loss	NA
Source of Sample	WELL
Rin @ Meas. Temp	8.9 @ 67F
Rin @ Meas. Temp	8.6 @ 67F
Rin @ Meas. Temp	NA
Source of Rin / Rinic	MEAS.
Rin @ BHT	NA
Time Circulation Stopped	00:00
Time Logger on Bottom	06:45
Max. Recorded Temperature	NA
Equipment Number	PS 7
Location	BFL
Recorded By	BURGE
Witnessed By	---

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Calibration Report									
Database File		31631.db							
Dataset Pathname		ELOG							
Dataset Creation		Sat Oct 07 06:34:24 2023							
ELOG Calibration Report									
Serial:		PS-5							
Model:		DTQ							
Shop Calibration Performed:		Tue May 16 09:37:30 2023							
Before Survey Verification Performed:		Thu Mar 3 10:07:12 2022							
After Survey Verification Performed:		Thu Mar 3 10:07:23 2022							
Shop Calibration									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	0.824	51.232		0.500	50.000	Ohm-m	0.982	-0.211	
Long	3.295	204.923		2.000	200.000	Ohm-m	0.982	-1.236	
IEE	17.980	5072.540	counts	0.020	5.551	A			
VSN	67.400	5756.360	counts	1.286	109.796	V			
VLN	89.060	1475.800	counts	1.699	28.149	V			
Before Survey Verification									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	163.989	102.056		155.138	102.004	Ohm-m	0.858	14.447	
Long	1448.760	107.451		1385.580	107.471	Ohm-m	0.953	5.083	
IEE	45.060	5047.340	counts	0.049	5.524	A			
VSN	83.020	5787.320	counts	1.584	110.386	V			
VLN	183.360	1523.320	counts	3.497	29.055	V			

After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	164.862	102.044		163.989	102.056	Ohm-m	0.986	1.450
Long	1471.250	107.311		1448.760	107.451	Ohm-m	0.983	1.920
IEE	44.260	5117.640	counts	0.048	5.601	A		
VSN	81.980	5867.240	counts	1.564	111.910	V		
VLN	182.900	1542.520	counts	3.489	29.422	V		

After Survey Verification compared to Before Survey Calibration

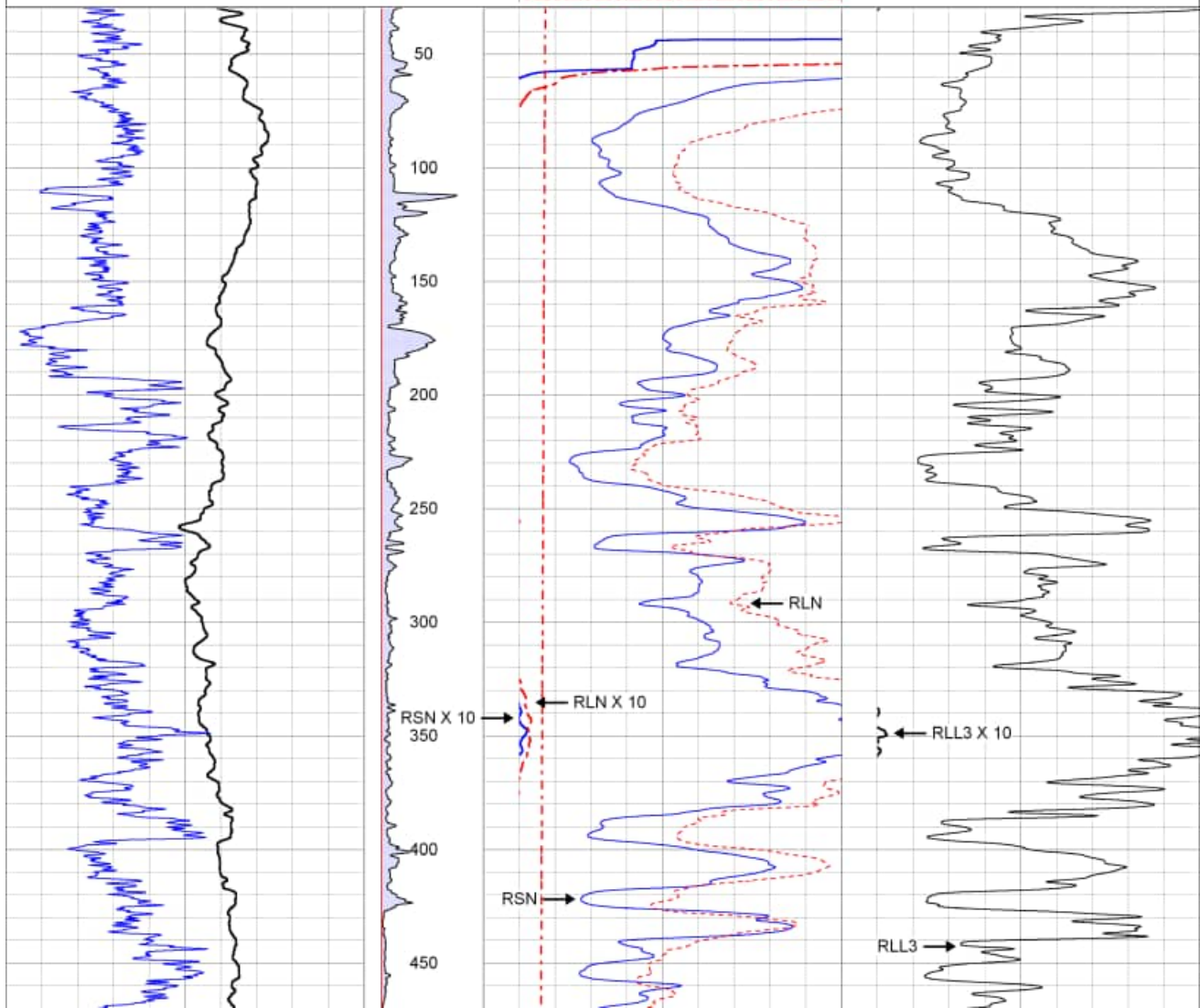
	Zero			Cal		
	Before	After		Before	After	
Short	155.138	163.989	Ohm-m	102.004	102.056	Ohm-m
Long	1385.580	1448.760	Ohm-m	107.471	107.451	Ohm-m

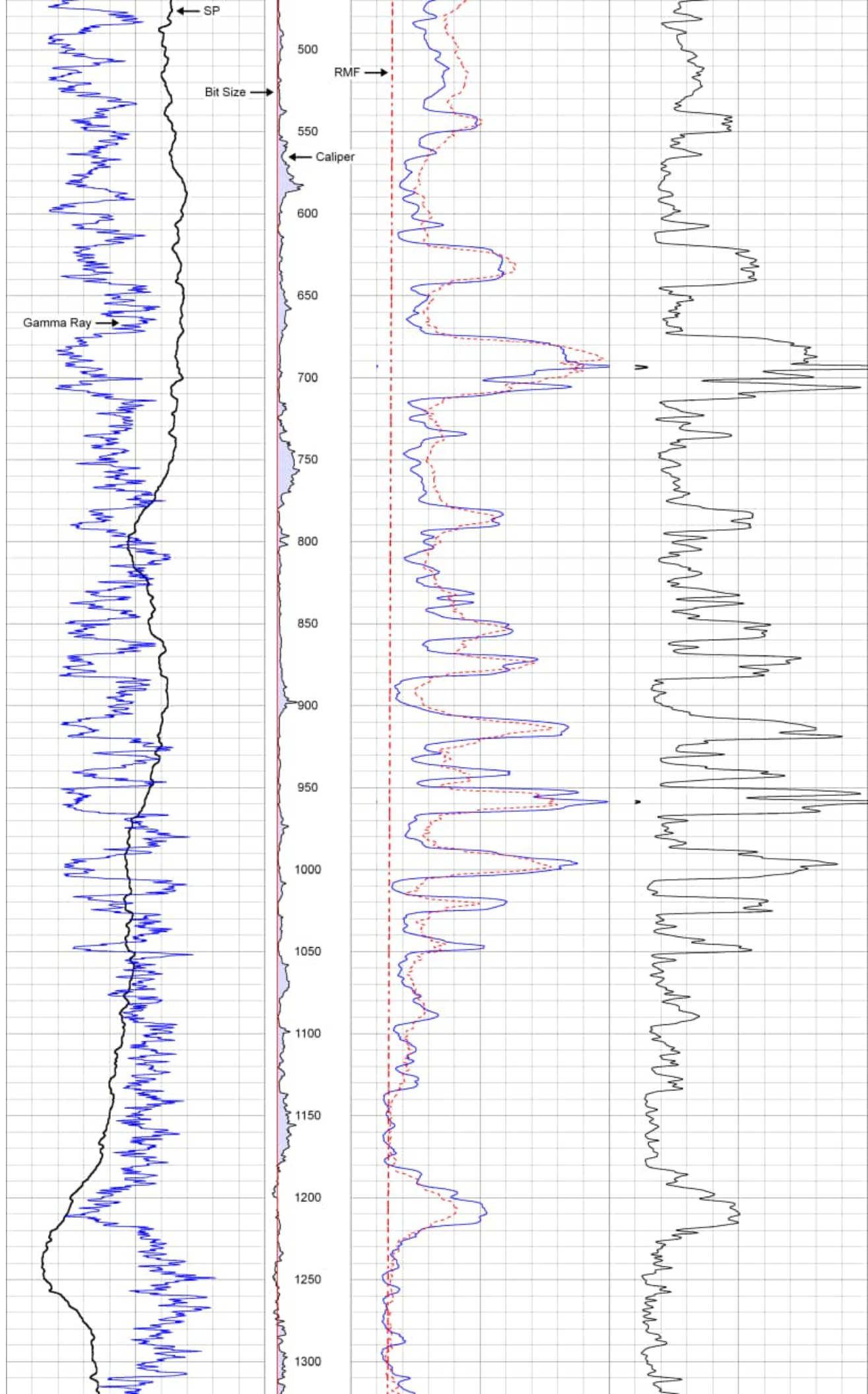
Gamma Ray Calibration Report

Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Sat Jul 8 01:58:30 2023	
Calibrator Value:	162.0	GAPI
Background Reading:	101.7	cps
Calibrator Reading:	326.7	cps
Sensitivity:	0.7200	GAPI/cps

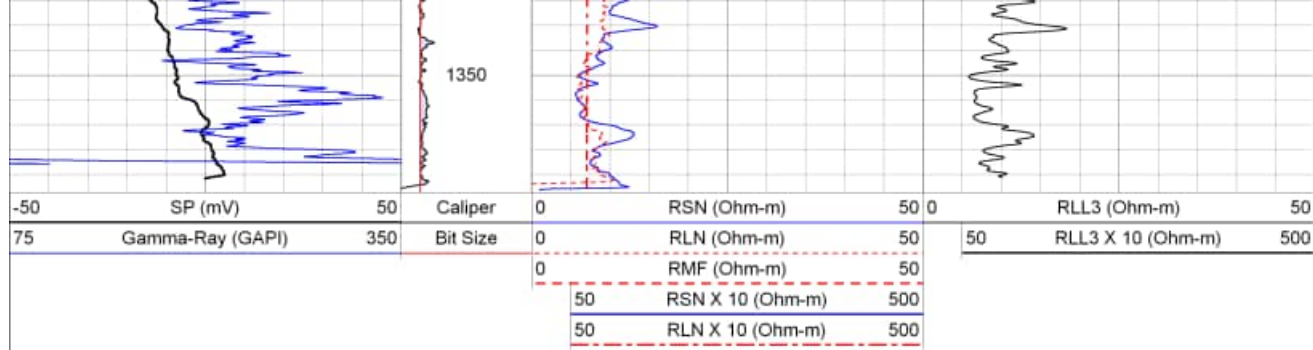
Database File 31631.db  
 Dataset Pathname ELOG.2  
 Presentation Format elog\_cwa  
 Dataset Creation Sat Oct 07 11:21:56 2023  
 Charted by Depth in Feet scaled 1:600

-50	SP (mV)	50	Caliper	0	RSN (Ohm-m)	50	0	RLL3 (Ohm-m)	50
75	Gamma-Ray (GAPI)	350	Bit Size	0	RLN (Ohm-m)	50	50	RLL3 X 10 (Ohm-m)	500
				0	RMF (Ohm-m)	50			
				50	RSN X 10 (Ohm-m)	500			
				50	RLN X 10 (Ohm-m)	500			









## Log Variables

DatabaseC:\ProgramData\WarriorData\31631.db

Dataset field/well/run1/ELOG/\_vars\_

### Top - Bottom

BOREID in 9.875	BOTTEMP degF 85	CASEOD in 5.5	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 8.9	RM_MEAS_T degF 67	RMF Ohm-m 8.8	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 68	TDEPTH ft 1400	TempGrad degF/ft 0.01235					

### Variable Description

BOREID : Borehole I.D.

BOTTEMP : Bottom Hole Temperature

CASEOD : Casing O.D.

CASETHCK : Casing Thickness

PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured

RM\_MEAS\_T : Mud Temperature Measured

RMF : Resistivity of Mud Filtrate

RSH : Resistivity of Shale

SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature

TDEPTH : Total Depth

TempGrad : Temperature Gradient

### Filter Report

Database File 31631.db

Dataset Pathname ELOG

Dataset Creation Sat Oct 07 06:34:24 2023

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
IEE	None	
VSN	None	
VLN	None	
SP	Triangle	2.00
RSN	Gaussian	2.00
RLN	Gaussian	3.00
SPR	Gaussian	1.00
GR	Gaussian	2.00
HVOLT	Gaussian	1.00
INCL	None	
AZI	None	
ROLL	None	
MAG ROLL	None	
ACC TOTAL	None	
MTEMP	None	



<div><div>PACIFIC SURVEYS</div><div>ELECTRIC LOG GAMMA RAY</div></div>	
Job No. 32294	Company GREGG DRILLING, LLC.
Well DA 2	
Field GONZALES	
File No. County MONTEREY	State CALIFORNIA
Location: N OF CORDA RD. & W OF HWY 101 GPS: 36.5141 -121.4684	
Sec. Typ.	Rpt. Elevation above perm. datum
Permanent Datum Log Measured From Drilling Measured From	GL GL 0' GL
Date	12 APR. 2024
Run Number	ONE
Depth Driller	1300'
Depth Logger	1300'
Bottom Logged Interval	1300'
Top Log Interval	30'
Casing Driller	10" @ 80'
Casing Logger	80'
Bit Size	9.675"
Type Fluid in Hole	BENTONITE
Density / Viscosity	NA
pH / Fluid Loss	NA
Source of Sample	PIT
Rin @ Meas. Temp	12.3 @ 72F
Rin @ Meas. Temp	12.4 @ 72F
Rinc @ Meas. Temp	NA
Source of Rin / Rinc	MEAS.
Rin @ BHT	NA
Time Circulation Stopped	10:00
Time Logger on Bottom	14:00
Max. Recorded Temperature	NA
Equipment Number	PS7
Location	BFL
Recorded By	BURGE
Witnessed By	---

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Calibration Report									
Database File		32294.db							
Dataset Pathname		ELOG							
Dataset Creation		Fri Apr 12 13:52:46 2024							
ELOG Calibration Report									
Serial:		PS-5							
Model:		DTQ							
Shop Calibration Performed:		Tue May 16 09:37:30 2023							
Before Survey Verification Performed:		Thu Mar 3 10:07:12 2022							
After Survey Verification Performed:		Thu Mar 3 10:07:23 2022							
Shop Calibration									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	0.824	51.232		0.500	50.000	Ohm-m	0.982	-0.211	
Long	3.295	204.923		2.000	200.000	Ohm-m	0.982	-1.236	
IEE	17.980	5072.540	counts	0.020	5.551	A			
VSN	67.400	5756.360	counts	1.286	109.796	V			
VLN	89.060	1475.800	counts	1.699	28.149	V			
Before Survey Verification									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	163.989	102.056		155.138	102.004	Ohm-m	0.858	14.447	
Long	1448.760	107.451		1385.580	107.471	Ohm-m	0.953	5.083	
IEE	45.060	5047.340	counts	0.049	5.524	A			
VSN	83.020	5787.320	counts	1.584	110.386	V			
VLN	183.360	1523.320	counts	3.497	29.055	V			

## After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	164.862	102.044		163.989	102.056	Ohm-m	0.986	1.450
Long	1471.250	107.311		1448.760	107.451	Ohm-m	0.983	1.920
IEE	44.260	5117.640	counts	0.048	5.601	A		
VSN	81.980	5867.240	counts	1.564	111.910	V		
VLN	182.900	1542.520	counts	3.489	29.422	V		

## After Survey Verification compared to Before Survey Calibration

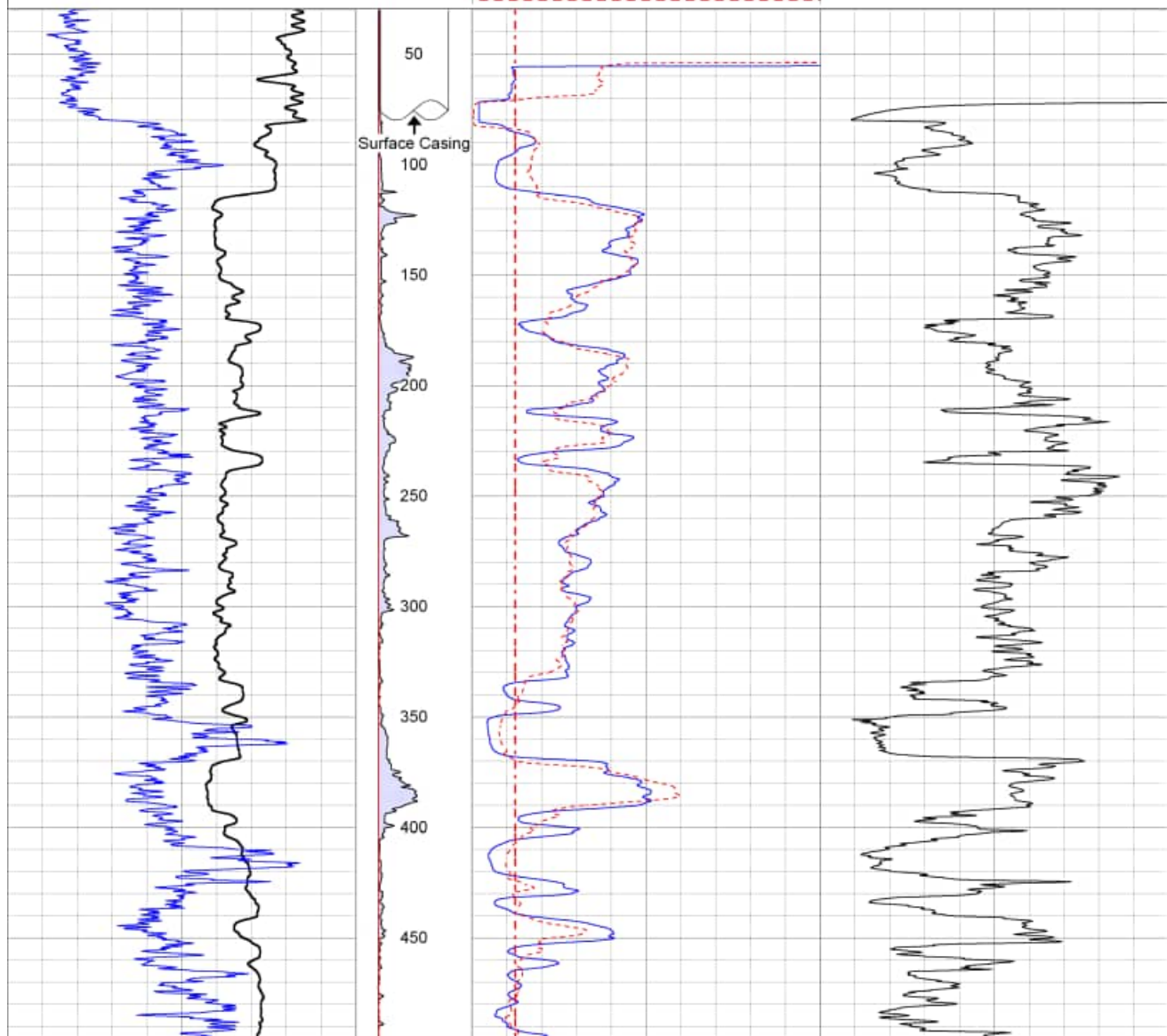
	Zero			Cal		
	Before	After		Before	After	
Short	155.138	163.989	Ohm-m	102.004	102.056	Ohm-m
Long	1385.580	1448.760	Ohm-m	107.471	107.451	Ohm-m

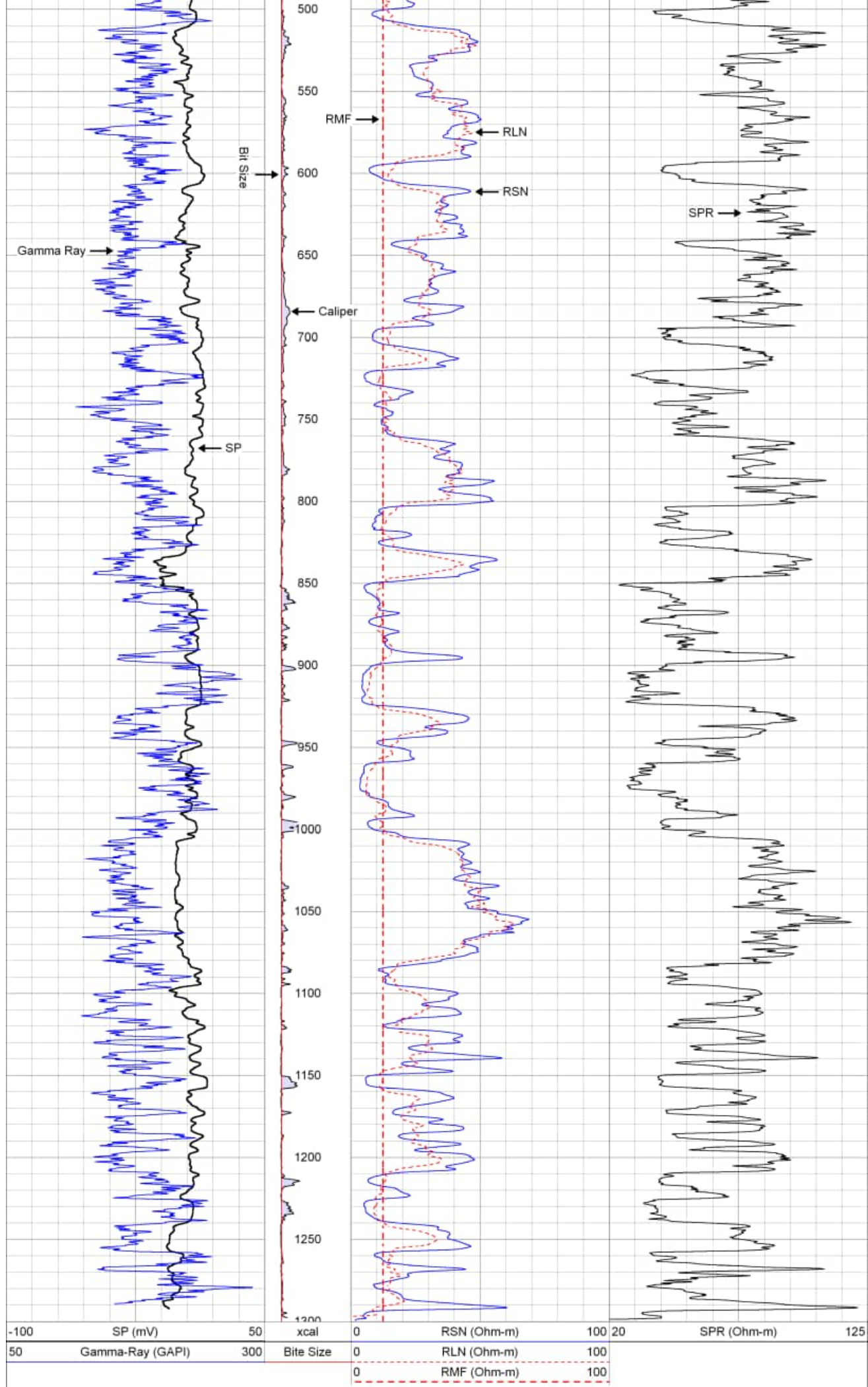
## Gamma Ray Calibration Report

Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Sat Jul 8 01:58:30 2023	
Calibrator Value:	162.0	GAPI
Background Reading:	101.7	cps
Calibrator Reading:	326.7	cps
Sensitivity:	0.7200	GAPI/cps

Database File 32294.db  
Dataset Pathname ELOG1  
Presentation Format elog\_cwa  
Dataset Creation Fri Apr 12 13:59:57 2024  
Charted by Depth in Feet scaled 1:600

-100	SP (mV)	50	xcal	0	RSN (Ohm-m)	100	20	SPR (Ohm-m)	125
50	Gamma-Ray (GAPI)	300	Bite Size	0	RLN (Ohm-m)	100			
				0	RMF (Ohm-m)	100			





-100	SP (mV)	50	xcal	0	RSN (Ohm-m)	100	20	SPR (Ohm-m)	125
50	Gamma-Ray (GAPI)	300	Bite Size	0	RLN (Ohm-m)	100			
				0	RMF (Ohm-m)	100			

Log Variables

DatabaseC:\ProgramData\Warrior\Data\32294.db  
Dataset field/well/run1/ELOG1/\_vars\_

Top - Bottom								
BOREID in 9.875	BOTTEMP degF 80	CASEOD in 5.5	CASETHCK in 0	PERFS  No	RM_MEAS_R Ohm-m 12.3	RM_MEAS_T degF 72	RMF Ohm-m 12.4	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 64	TDEPTH ft 1300	TempGrad degF/ft 0.01235					

Variable Description		
BOREID : Borehole I.D.	RM_MEAS_R : Mud Resistivity Measured	SRFTEMP : Surface Temperature
BOTTEMP : Bottom Hole Temperature	RM_MEAS_T : Mud Temperature Measured	TDEPTH : Total Depth
CASEOD : Casing O.D.	RMF : Resistivity of Mud Filtrate	TempGrad : Temperature Gradient
CASETHCK : Casing Thickness	RSH : Resistivity of Shale	
PERFS : Perforation Flag	SPSHIFT : S.P. Baseline Offset	

Filter Report		
Database File	32294.db	
Dataset Pathname	ELOG	
Dataset Creation	Fri Apr 12 13:52:46 2024	
Filter Name	Filter Type	Filter Length
		(ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
IEE	None	
VSN	None	
VLN	None	
SP	Triangle	2.00
RSN	Gaussian	2.00
RLN	Gaussian	3.00
SPR	Gaussian	1.00
GR	Gaussian	2.00
HVOLT	Gaussian	1.00
INCL	None	
AZI	None	
ROLL	None	
MAG ROLL	None	
ACC TOTAL	None	
MTEMP	None	
Cwa	Triangle	3.00

<div>PACIFIC SURVEYS</div>		<div>ELECTRIC LOG GAMMA RAY</div>	
Job No. 31645		Company GREGG DRILLING, LLC.	
Well DA-3			
Field SALINAS			
File No.	County MONTEREY	State CALIFORNIA	
Location: N OF BLACKIE RD & S OF RTE 156 GPS: 36.7723 -121.7162		Other Services: CALIPER LL3 TEMP	
Sec.	Typ.	Rq.	Elevation above perm. datum
Permanent Datum	GL		
Log Measured From	GL 0'		
Drilling Measured From	GL		Elevation K.B. D.F. GL
Date	26 OCT 2023		
Run Number	ONE		
Depth Driller	1300'		
Depth Logger	1297'		
Bottom Logged Interval	1297'		
Top Log Interval	30'		
Casing Driller	12" @ 9'		
Casing Logger	9'		
Bit Size	9.675"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	NA		
pH / Fluid Loss	NA		
Source of Sample	WELL		
Rin @ Meas. Temp	9 @ 73F		
Rin @ Meas. Temp	8.6 @ 73F		
Rinc @ Meas. Temp	NA		
Source of Rin / Rinc	MEAS.		
Rin @ BHT	NA		
Time Circulation Stopped	10.30		
Time Logger on Bottom	13.45		
Max. Recorded Temperature	NA		
Equipment Number	PS 7		
Location	BFL		
Recorded By	BURGE		
Witnessed By	---		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Calibration Report									
Database File		31645.db							
Dataset Pathname		ELOG							
Dataset Creation		Thu Oct 26 13:34:22 2023							
ELOG Calibration Report									
Serial:		PS-5							
Model:		DTQ							
Shop Calibration Performed:		Tue May 16 09:37:30 2023							
Before Survey Verification Performed:		Thu Mar 3 10:07:12 2022							
After Survey Verification Performed:		Thu Mar 3 10:07:23 2022							
Shop Calibration									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	0.824	51.232		0.500	50.000	Ohm-m	0.982	-0.211	
Long	3.295	204.923		2.000	200.000	Ohm-m	0.982	-1.236	
IEE	17.980	5072.540	counts	0.020	5.551	A			
VSN	67.400	5756.360	counts	1.286	109.796	V			
VLN	89.060	1475.800	counts	1.699	28.149	V			
Before Survey Verification									
	Readings			References			Results		
	Zero	Cal		Zero	Cal		Gain	Offset	
Short	163.989	102.056		155.138	102.004	Ohm-m	0.858	14.447	
Long	1448.760	107.451		1385.580	107.471	Ohm-m	0.953	5.083	
IEE	45.060	5047.340	counts	0.049	5.524	A			
VSN	83.020	5787.320	counts	1.584	110.386	V			
VLN	183.360	1523.320	counts	3.497	29.055	V			



## After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	164.862	102.044		163.989	102.056	Ohm-m	0.986	1.450
Long	1471.250	107.311		1448.760	107.451	Ohm-m	0.983	1.920
IEE	44.260	5117.640	counts	0.048	5.601	A		
VSN	81.980	5867.240	counts	1.564	111.910	V		
VLN	182.900	1542.520	counts	3.489	29.422	V		

## After Survey Verification compared to Before Survey Calibration

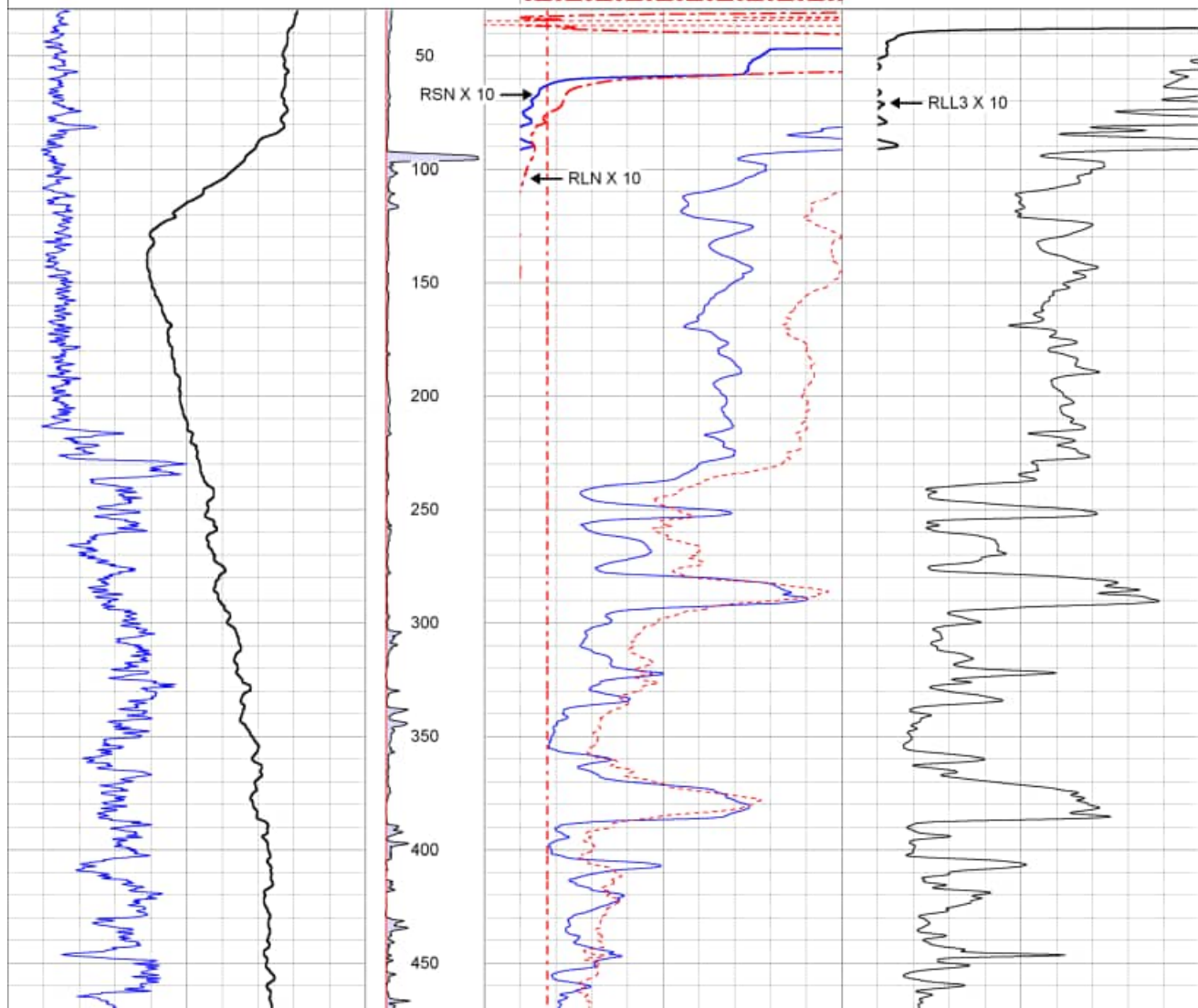
	Zero			Cal		
	Before	After		Before	After	
Short	155.138	163.989	Ohm-m	102.004	102.056	Ohm-m
Long	1385.580	1448.760	Ohm-m	107.471	107.451	Ohm-m

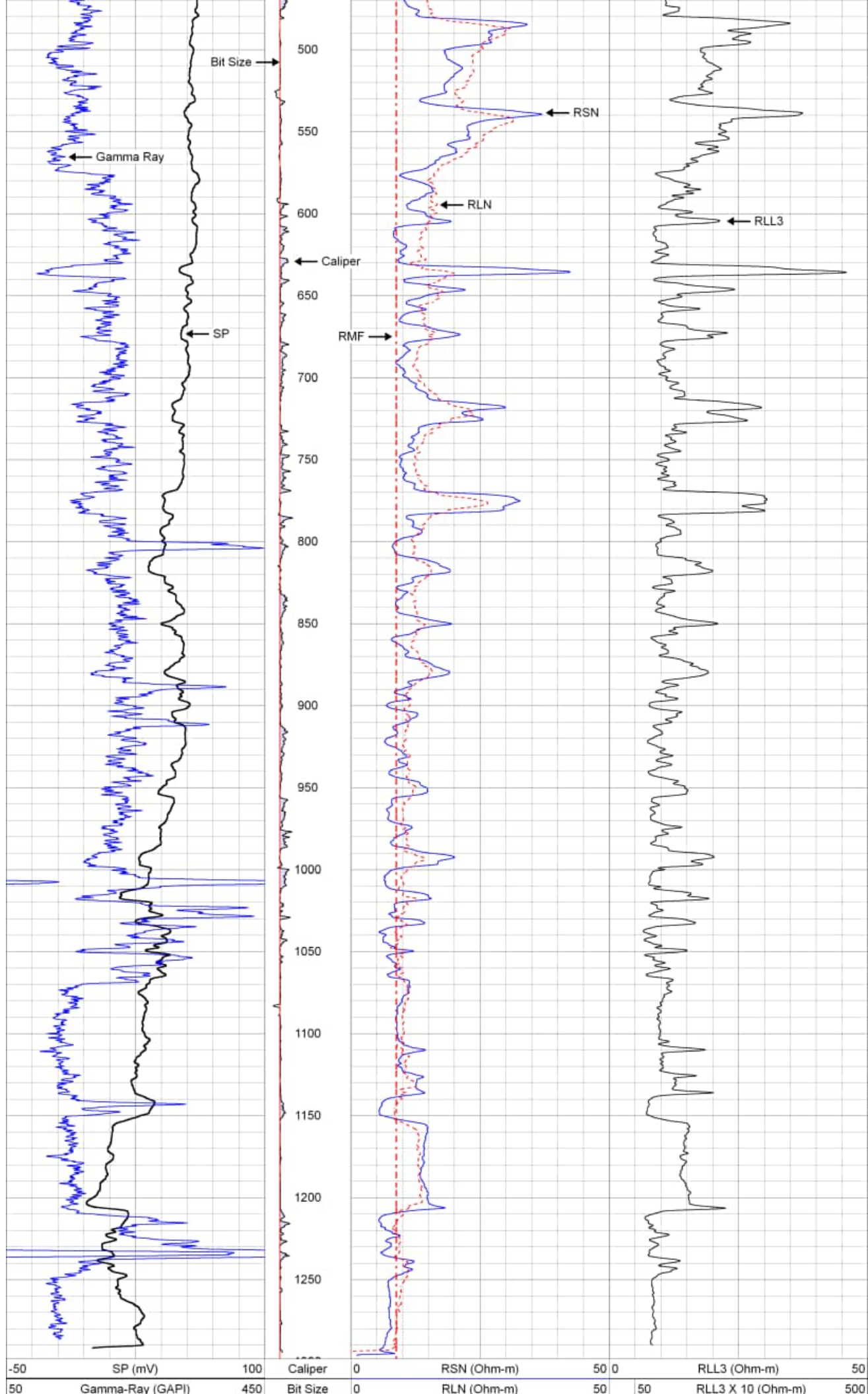
## Gamma Ray Calibration Report

Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Sat Jul 8 01:58:30 2023	
Calibrator Value:	162.0	GAPI
Background Reading:	101.7	cps
Calibrator Reading:	326.7	cps
Sensitivity:	0.7200	GAPI/cps

Database File 31645.db  
Dataset Pathname ELOG1.1  
Presentation Format elog\_cwa  
Dataset Creation Thu Oct 26 14:44:03 2023  
Charted by Depth in Feet scaled 1:600

-50	SP (mV)	100	Caliper	0	RSN (Ohm-m)	50	0	RLL3 (Ohm-m)	50
50	Gamma-Ray (GAPI)	450	Bit Size	0	RLN (Ohm-m)	50	50	RLL3 X 10 (Ohm-m)	500
				0	RMF (Ohm-m)	50			
				50	RSN X 10 (Ohm-m)	500			
				50	RLN X 10 (Ohm-m)	500			





		0	RMF (Ohm-m)	50
		50	RSN X 10 (Ohm-m)	500
		50	RLN X 10 (Ohm-m)	500

## Log Variables

Database C:\ProgramData\Warrior\Data\31645.db  
Dataset field/well/run1/ELOG/\_vars\_

### Top - Bottom

BOREID in 9.875	BOTTEMP degF 86	CASEOD in 5.5	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 9	RM_MEAS_T degF 73	RMF Ohm-m 8.8	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 70	TDEPTH ft 1300	TempGrad degF/ft 0.01235					

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

### Filter Report

Database File 31645.db  
Dataset Pathname ELOG  
Dataset Creation Thu Oct 26 13:34:22 2023

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
IEE	None	
VSN	None	
VLN	None	
SP	Triangle	2.00
RSN	Gaussian	2.00
RLN	Gaussian	3.00
SPR	Gaussian	1.00
GR	Gaussian	2.00
HVOLT	Gaussian	1.00
INCL	None	
AZI	None	
ROLL	None	
MAG ROLL	None	
ACC TOTAL	None	
MTEMP	None	



Before Survey Verification								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	163.989	102.056		155.138	102.004	Ohm-m	0.858	14.447
Long	1448.760	107.451		1385.580	107.471	Ohm-m	0.953	5.083
IEE	45.060	5047.340	counts	0.049	5.524	A		
VSN	83.020	5787.320	counts	1.584	110.386	V		
VLN	183.360	1523.320	counts	3.497	29.055	V		

## After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	164.862	102.044		163.989	102.056	Ohm-m	0.986	1.450
Long	1471.250	107.311		1448.760	107.451	Ohm-m	0.983	1.920
IEE	44.260	5117.640	counts	0.048	5.601	A		
VSN	81.980	5867.240	counts	1.564	111.910	V		
VLN	182.900	1542.520	counts	3.489	29.422	V		

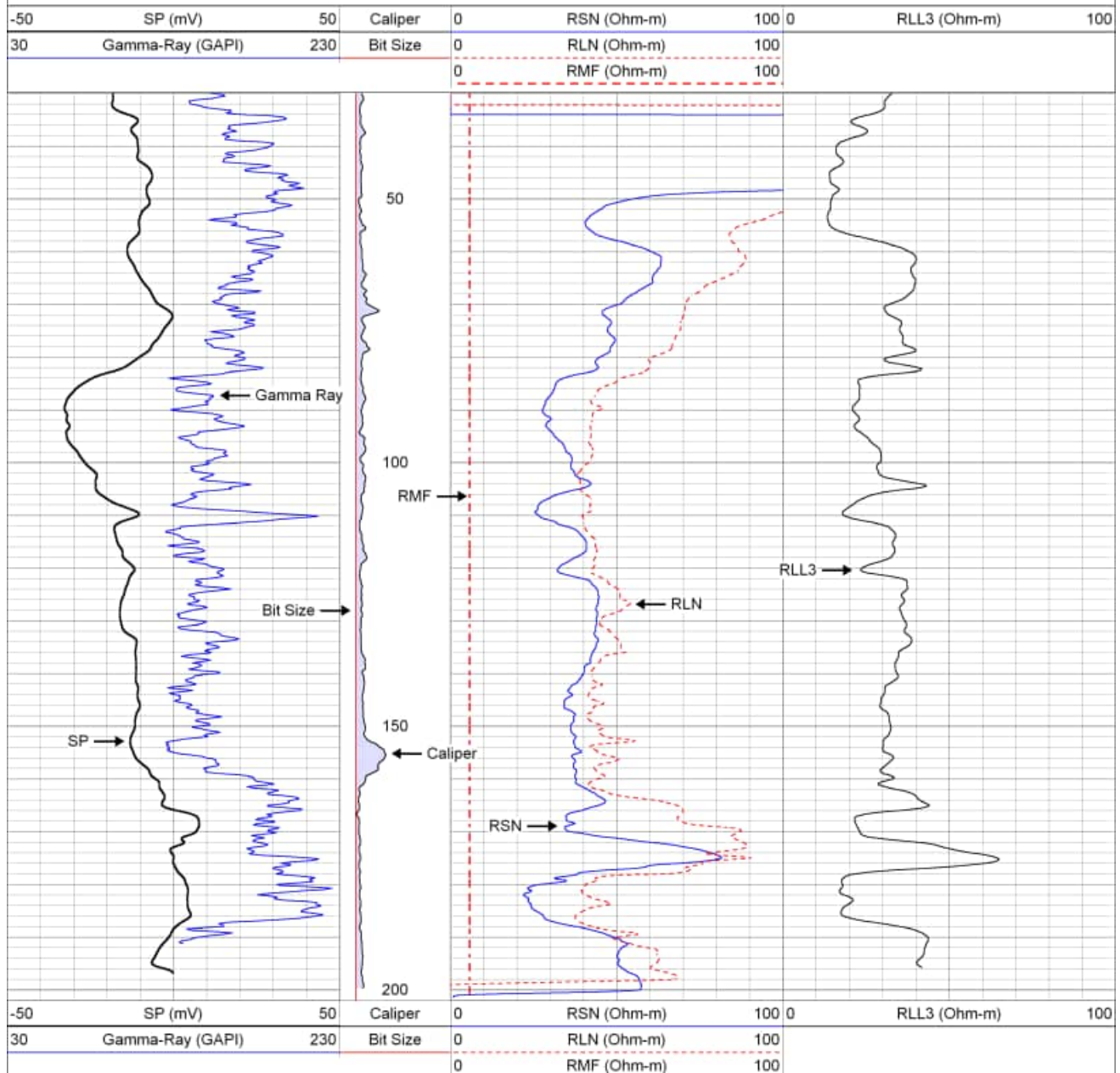
## After Survey Verification compared to Before Survey Calibration

	Zero			Cal		
	Before	After		Before	After	
Short	155.138	163.989	Ohm-m	102.004	102.056	Ohm-m
Long	1385.580	1448.760	Ohm-m	107.471	107.451	Ohm-m

## Gamma Ray Calibration Report

Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Sat Jul 8 01:58:30 2023	
Calibrator Value:	162.0	GAPI
Background Reading:	101.7	cps
Calibrator Reading:	326.7	cps
Sensitivity:	0.7200	GAPI/cps

Database File 28973.db  
Dataset Pathname ELOG1.1  
Presentation Format elog\_cwa  
Dataset Creation Thu Nov 09 14:54:11 2023  
Charted by Depth in Feet scaled 1:240



# Log Variables

DatabaseC:\ProgramData\Warrior\Data\28973.db  
Dataset field/well/run1/ELOG1/\_vars\_

## Top - Bottom

BOREID in 9.875	BOTTEMP degF 77	CASEOD in 5.5	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 6.1	RM_MEAS_T degF 71	RMF Ohm-m 5.8	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 75	TDEPTH ft 202	TempGrad degF/ft 0.01235					

## Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

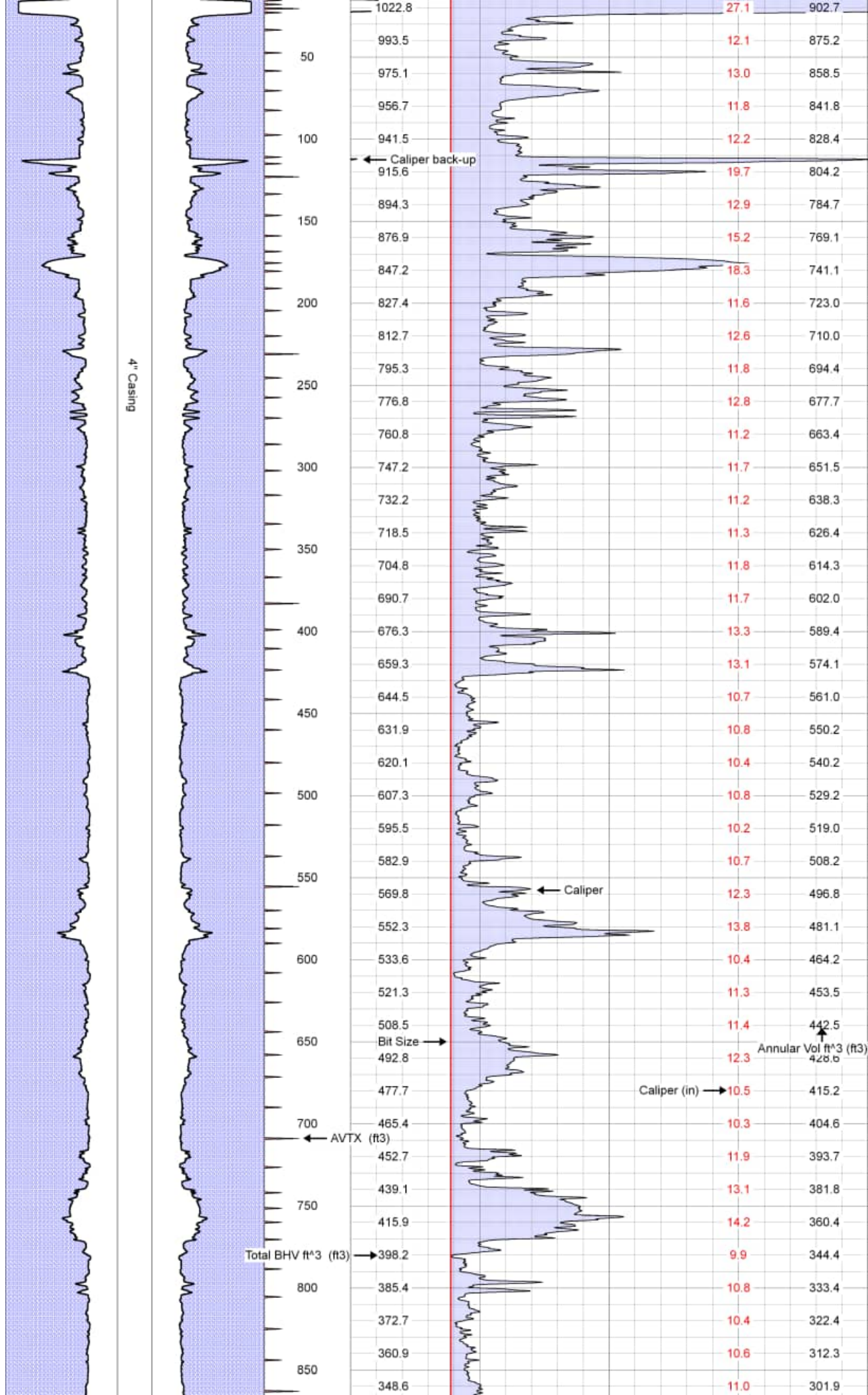
## Filter Report

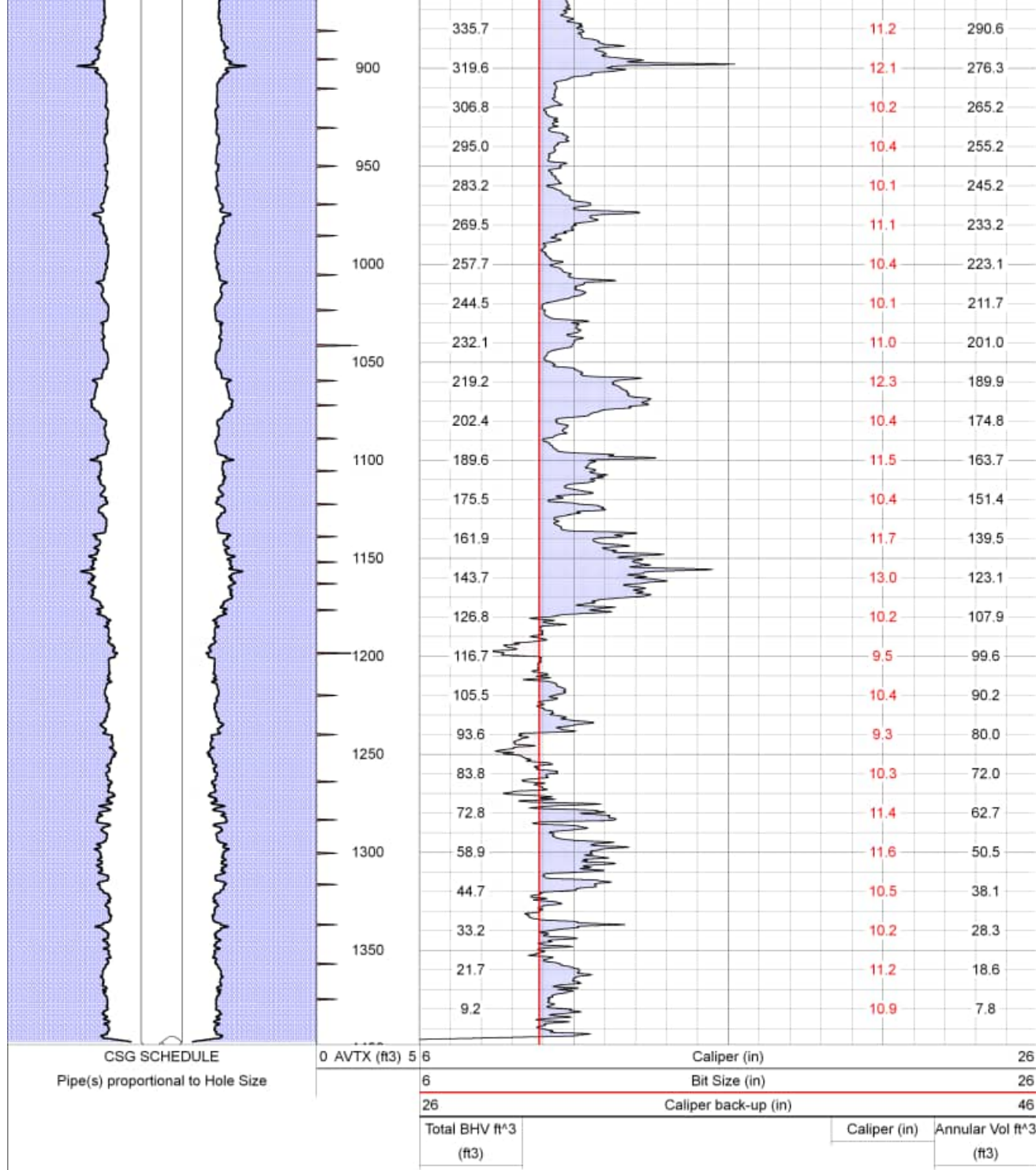
Database File 28973.db  
Dataset Pathname ELOG1  
Dataset Creation Thu Nov 09 14:45:32 2023

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
IEE	None	
VSN	None	
VLN	None	
SP	Triangle	2.00
RSN	Gaussian	2.00
RLN	Gaussian	3.00
SPR	Gaussian	1.00
GR	Gaussian	2.00
HVOLT	Gaussian	1.00
INCL	None	
AZI	None	
ROLL	None	
MAG ROLL	None	
ACC TOTAL	None	
MTEMP	None	









## Log Variables

DatabaseC:\ProgramData\Warrior\Data\31631.db  
Dataset field/well/run1/CAL/\_vars\_

### Top - Bottom

BOREID in 9.875	BOTTEMP degF 85	CASEOD in 4	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 8.9	RM_MEAS_T degF 67	RMF Ohm-m 8.8	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 68	TDEPTH ft 1400	TempGrad degF/ft 0.01235					

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

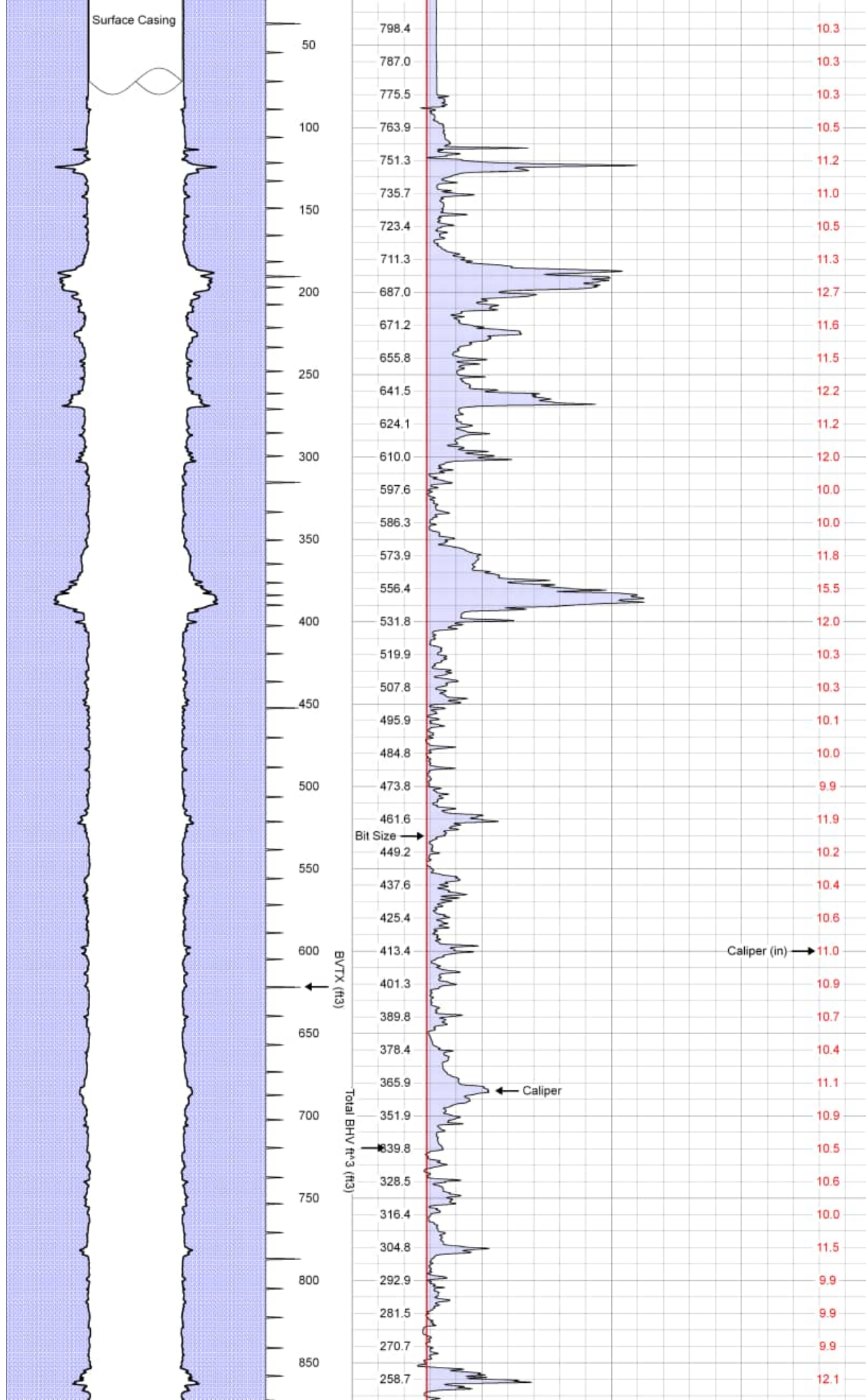
### Filter Report

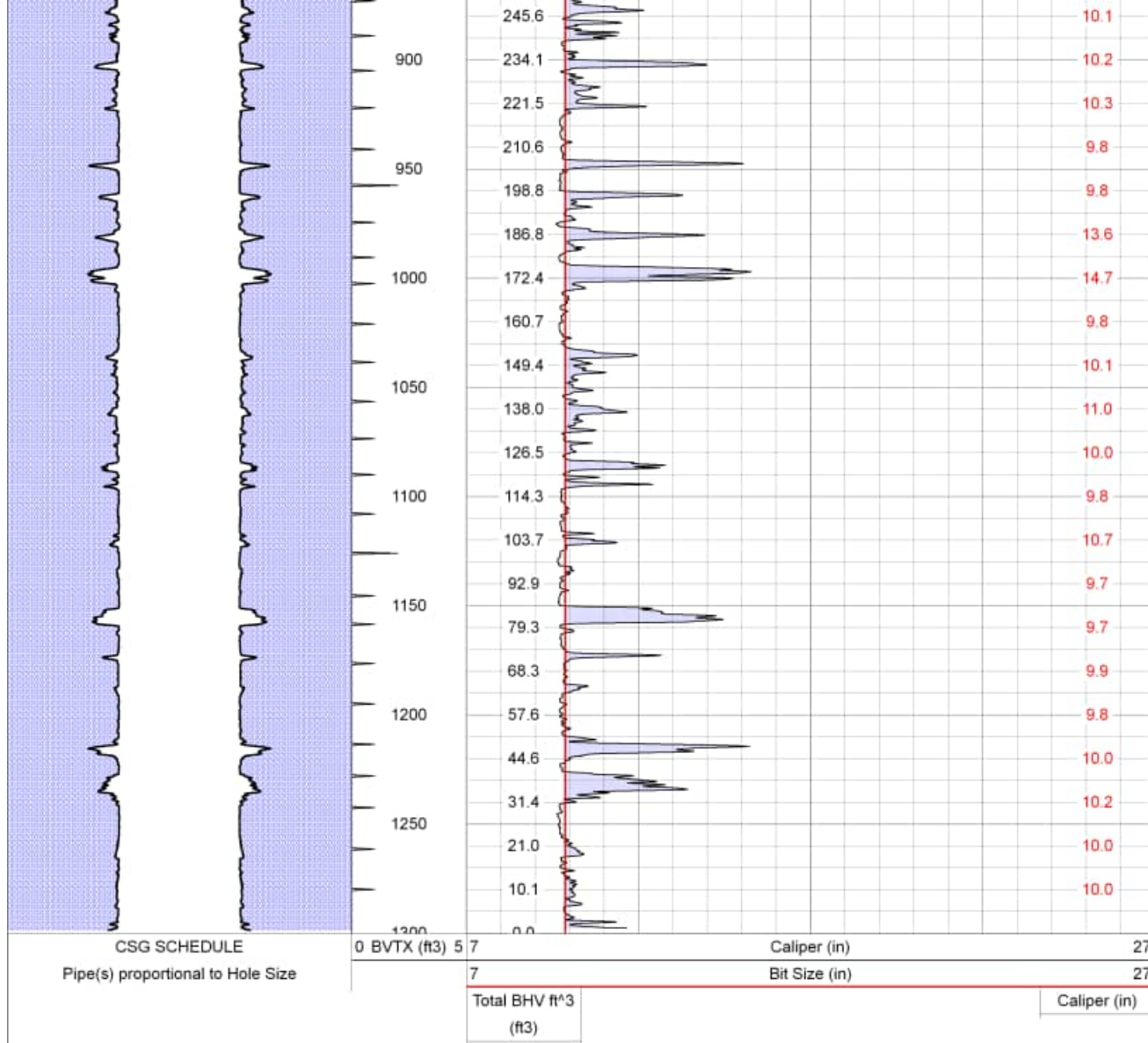
Database File 31631.db  
Dataset Pathname CAL  
Dataset Creation Sat Oct 07 08:18:32 2023

Filter Name	Filter Type	Filter Length
		(ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
XCAL	Gaussian	2.00
YCAL	Gaussian	2.00
Radius	Gaussian	2.00









## Log Variables

Database C:\ProgramData\Warrior\Data\32294.db  
Dataset field/well/run1/CAL/\_vars\_

### Top - Bottom

BOREID in 9.875	BOTTEMP degF 80	CASEOD in 5.5	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 12.3	RM_MEAS_T degF 72	RMF Ohm-m 12.4	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 64	TDEPTH ft 1300	TempGrad degF/ft 0.01235					

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

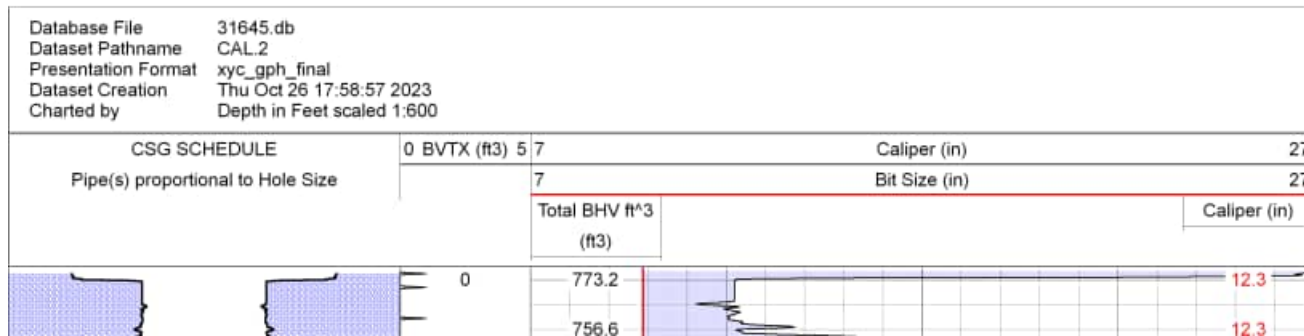
RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

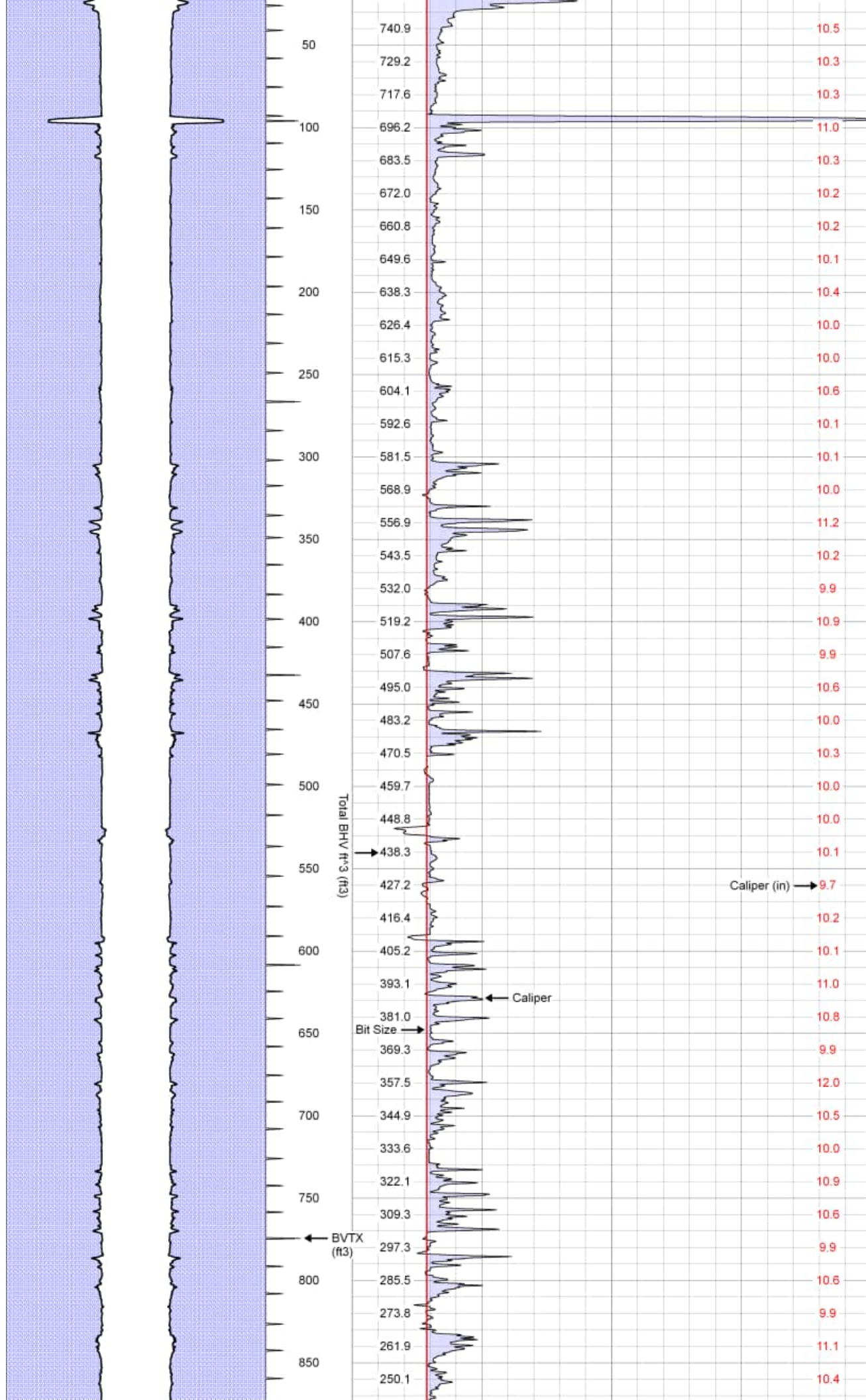
### Filter Report

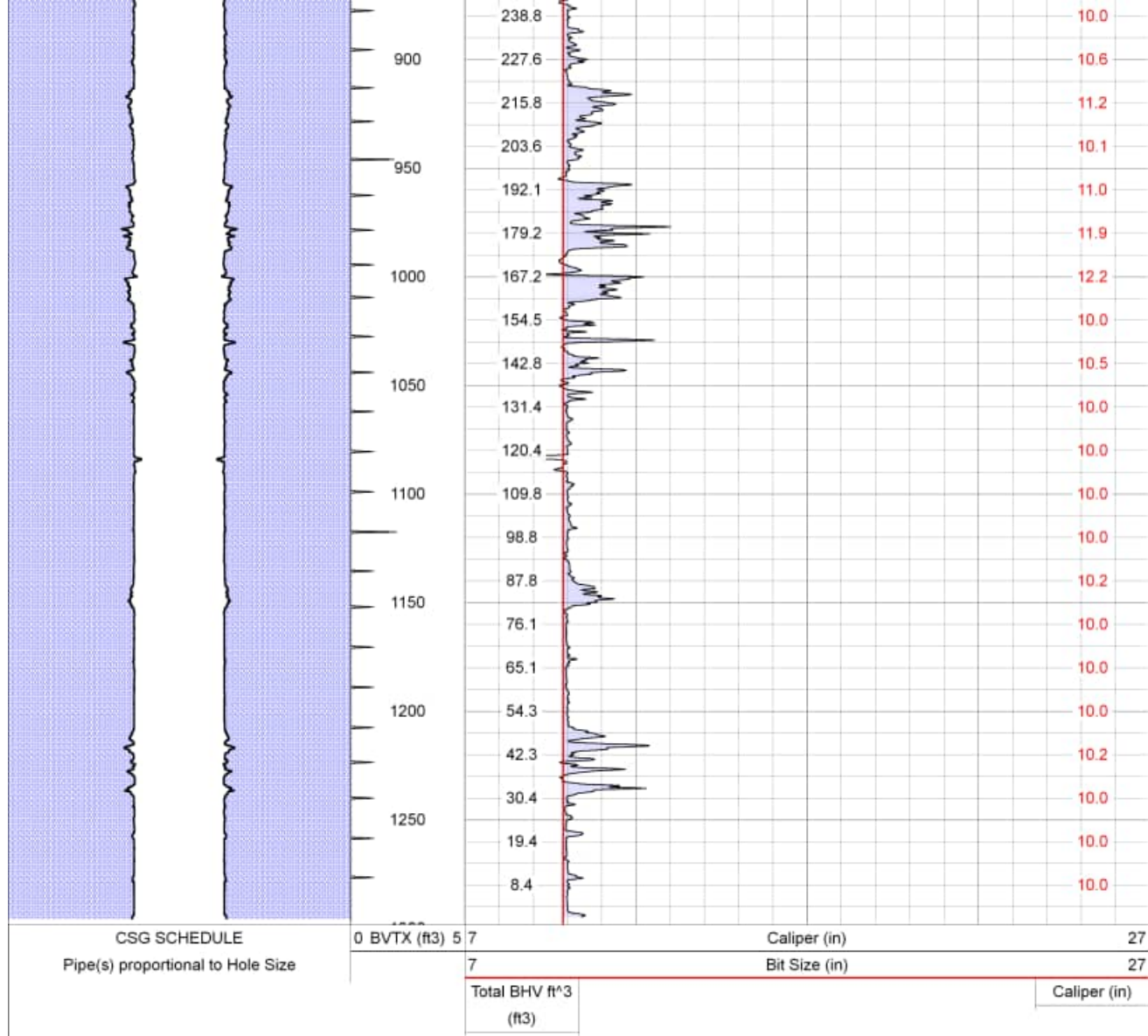
Database File 32294.db  
Dataset Pathname CAL  
Dataset Creation Fri Apr 12 15:56:55 2024

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
XCAL	Gaussian	2.00
YCAL	Gaussian	2.00
Radius	Gaussian	2.00









## Log Variables

DatabaseC:\ProgramData\Warrior\Data\31645.db  
Dataset field/well/run1/CAL.2/\_vars\_

### Top - Bottom

BOREID	BOTTEMP	CASEOD	CASETHCK	PERFS	RM_MEAS_R	RM_MEAS_T	RMF	RSH
in	degF	in	in	No	Ohm-m	degF	Ohm-m	Ohm-m
9.875	86	0	0	No	9	73	8.8	20
SPSHIFT	SRFTEMP	TDEPTH	TempGrad					
mV	degF	ft	degF/ft					
0	70	1300	0.01235					

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

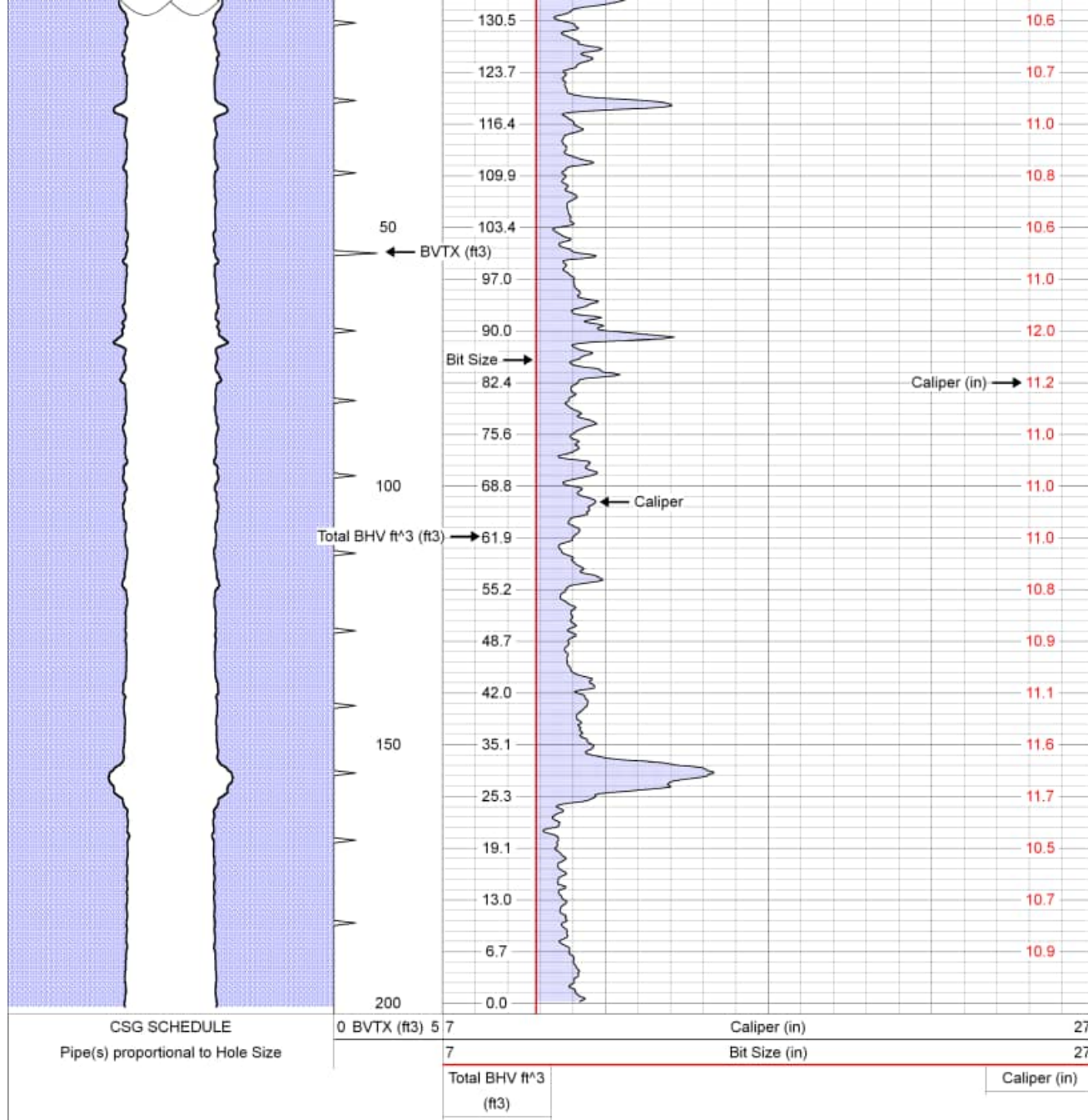
### Filter Report

Database File 31645.db  
Dataset Pathname CAL  
Dataset Creation Thu Oct 26 14:55:05 2023

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
XCAL	Gaussian	2.00
YCAL	Gaussian	2.00
Radius	Gaussian	2.00







## Log Variables

DatabaseC:\ProgramData\WarriorData\28973.db  
Dataset field/well/run1/CAL/\_vars\_

### Top - Bottom

BOREID in 9.875	BOTTEMP degF 77	CASEOD in 5.5	CASETHCK in 0	PERFS No	RM_MEAS_R Ohm-m 6.1	RM_MEAS_T degF 71	RMF Ohm-m 5.8	RSH Ohm-m 20
SPSHIFT mV 0	SRFTEMP degF 75	TDEPTH ft 202	TempGrad degF/ft 0.01235					

### Variable Description

BOREID : Borehole I.D.  
BOTTEMP : Bottom Hole Temperature  
CASEOD : Casing O.D.  
CASETHCK : Casing Thickness  
PERFS : Perforation Flag

RM\_MEAS\_R : Mud Resistivity Measured  
RM\_MEAS\_T : Mud Temperature Measured  
RMF : Resistivity of Mud Filtrate  
RSH : Resistivity of Shale  
SPSHIFT : S.P. Baseline Offset

SRFTEMP : Surface Temperature  
TDEPTH : Total Depth  
TempGrad : Temperature Gradient

### Filter Report

Database File 28973.db  
Dataset Pathname CAL  
Dataset Creation Thu Nov 09 15:19:19 2023

Filter Name	Filter Type	Filter Length (ft)
LSPD	Gaussian	4.00
LTEN	None	
LSPDRT	None	
XCAL	Gaussian	2.00
XCAL	Gaussian	2.00

TCAL  
Radius

Gaussian  
Gaussian

2.00  
2.00



180/400-DA-1

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Sand: Redish brown sand, loose, moist, subangular - sub rounded grains, very fine - fine grained, moderately sorted
10	20	Sand: Brown, very fine - fine grained, loose, moist, subangular - subrounded grains, moderately sorted
20	30	Sand: Light brown, very fine grained, loose, wet, subangular - rounded grains, very well sorted
30	40	Sand: Light brown, very fine - fine grained, loose, wet, subangular- rounded grains, well sorted
40	50	Sand: Brownish grey, very fine - medium grained, loose, wet, subangular - subrounded grains, well sorted
50	60	Sand: Brown, very fine grained, loose, wet, subangular - rounded grains, well sorted
60	70	Clayey Sand: Grey, very fine - medium grained, loose, wet, subangular - rounded grains, poorly sorted with moderate plasticity clay
70	80	Sand: Brown, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
80	90	Sand: Brown, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
90	100	Sand: Grey, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
100	110	Sand: Grey, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
110	120	Sand: Grey, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
120	130	Sand: Grey, very fine - medium grained, loose, wet, angular - subrounded grains, poorly sorted
130	140	Sand: Grey, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
140	150	Sand: Grey, very fine - medium grained, loose, wet, angular - subrounded grains, poorly sorted
150	160	Sand: Grey, very fine - medium grained, loose, wet, angular - subrounded grains, poorly sorted
160	170	Sand: Grey, very fine - coarse grained, loose, wet, subangular - subrounded grains, very poorly sorted
170	180	Sand: Brownish Grey, fine - coarse grained, angular - subrounded grains, very poorly sorted
180	190	Sand: Brownish grey, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
190	200	Sand: Brown, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
200	210	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
210	220	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
220	230	Sand: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, very poorly sorted

230	240	Clayey Sand: Tan, very fine - coarse, loose, wet, angular - subrounded grains, with low - moderate plasticity clay
240	250	Clayey Sand: Tan, very fine - coarse, loose, wet, angular - subrounded grains, with low - moderate plasticity clay
250	260	Sand: Tan, fine - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with less than 5% gravel up to 10mm
260	270	Sand: Tan, fine - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with less than 5% gravel up to 10mm
270	280	Gravelly Sand: Tan, very fine - coarse grained, loose, wet, angular - subrounded grains, very poorly sorted, with gravel up to 10mm
280	290	Sand: Tan, very fine - coarse grained, loose, wet, subangular - subrounded grains, very poorly sorted, with less than 5% gravel
290	300	Gravelly Sand: Tan, very fine - coarse grained, loose, wet, angular - subrounded grains, very poorly sorted, with gravel up to 8mm
300	310	Gravel: Tan, loose, wet, angular - subrounded grains, poorly sorted, with gravel up to 13mm
310	320	Gravelly Sand: Tan, medium - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with gravel up to 20mm
320	330	Gravelly Sand: Tan, medium - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with gravel up to 20mm
330	340	Gravelly Sand: Tan, medium - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with gravel up to 20mm
340	350	Sand: Tan, medium - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with less than 5% gravel
350	360	Sand: Tan, medium - coarse grained, loose, moist, subangular - rounded, moderately sorted, with less than 5% gravel
360	370	Sand: Tan, medium - coarse grained, loose, moist, subangular - rounded, moderately sorted, with less than 5% gravel
370	380	Sand: Tan, medium - coarse grained, loose, moist, subangular - rounded, moderately sorted, with less than 5% gravel
380	390	Sand: Tan, medium - coarse grained, loose, moist, subangular - rounded, moderately sorted, with less than 5% gravel
390	400	Sand: Tan, medium - coarse grained, loose, moist, subangular - rounded, moderately sorted, with less than 5% gravel
400	410	Sand: Tan, very fine grained, loose, moist, subrounded - rounded grains, well sorted, with rare gravel up to 15mm
410	420	Sand: Tan, fine - medium grained, loose, moist, subangular - rounded grains, moderately sorted
420	430	Sand: Tan, fine- coarse grained, loose, wet, subangular - rounded grains, moderately sorted
430	440	Sand: Tan, fine- coarse grained, loose, wet, subangular - rounded grains, moderately sorted

440	450	Sand: Tan, fine- coarse grained, loose, wet, subangular - rounded grains, moderately sorted
450	460	Sand: Tan, fine- coarse grained, loose, wet, subangular - rounded grains, moderately sorted
460	470	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
470	480	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
480	490	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
490	500	Sand: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted
500	510	Sand: Very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted
510	520	Sand: Very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted
520	530	Clayey Sand: Brown, very fine - fine grained, loose, moist, subrounded - rounded grains, very well sorted, with minimal high plasticity clay
530	540	Clayey Sand: Brown, very fine - fine grained, loose, moist, subrounded - rounded grains, very well sorted, with minimal high plasticity clay
540	550	Sand: very fine - coarse grained, loose, wet, subangular - subrounded grains, poorly sorted
550	560	Sand: very fine - coarse grained, loose, wet, subangular - subrounded grains, poorly sorted
560	570	Gravelly Clayey Sand: Tan, very fine - coarse, loose, wet, angular - subrounded, very poorly sorted, with gravel up to 10mm and moderate - high plasticity clay
570	580	Sandy Gravelly Clay: Tan, very fine - coarse, loose, wet, angular - subrounded grains, with gravel up to 10mm and moderate - high plasticity clay
580	590	Sandy Gravelly Clay: Tan, very fine - coarse, loose, wet, angular - subrounded grains, with gravel up to 10mm and moderate - high plasticity clay
590	600	Gravelly Clayey Sand: Tan, very fine - coarse, loose, wet, angular - subrounded grains, with gravel up to 14mm and low - moderate plasticity clay
600	610	Sandy Clay: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with low - moderate plasticity clay
610	620	Sandy Clay: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with low - moderate plasticity clay
620	630	Clayey Sand: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with low - moderate plasticity clay
630	640	Clayey Sand: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with low - moderate plasticity clay
640	650	Sand: Tan, very fine - medium grained, loose, wet, subangular - rounded grains, well sorted
650	660	Sand: Tan, fine - coarse grained, loose, wet, angular - subrounded grains, moderately sorted

660	670	Clayey Sand: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted with low plasticity clay
670	680	Clayey Sand: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted with low plasticity clay
680	690	Clayey Sand: Very fine - coarse grained, loose, wet, angular - subrounded grains, poorly sorted, with low plasticity clay
690	700	Clayey Sand: Tan, very fine - medium grained, loose, wet, subangular - rounded, moderately sorted, with low plasticity clay
700	710	Clayey Sand: Very fine - fine grained, loose, wet, subangular - rounded grains, very well sorted, with low plasticity clay
710	720	Clayey Sand: Very fine - medium grained, loose, wet, subangular - rounded grains, moderately sorted, with low plasticity clay
720	730	Clayey Sand: Very fine - medium grained, loose, wet, subangular - rounded grains, moderately sorted, with less than 5% gravel and moderate plasticity clay
730	740	Clayey Sand: Very fine - coarse grained, loose, wet, subangular - rounded grains, poorly sorted, with increasing amounts of moderate plasticity clay
740	750	Clayey Sand: Very fine - coarse grained, loose, wet, subangular - rounded grains, poorly sorted, with increasing amounts of moderate plasticity clay
750	760	Clayey Sand: Tan, very fine - medium grained, loose, wet, subangular - rounded grains, with low plasticity clay
760	770	Clay: Brownish tan, very fine grained, wet, loose, high - very high plasticity
770	780	Clay: Brownish tan, very fine grained, wet, loose, high - very high plasticity
780	790	Clay: Brownish tan, very fine grained, wet, loose, high - very high plasticity
790	800	Clay: Brownish tan, very fine grained, wet, loose, high - very high plasticity
800	810	Sandy Clay: Tan, very fine - fine grained, loose, moist, well sorted, subangular - rounded grains
810	820	Sandy Clay: Tan, very fine - fine grained, loose, moist, well sorted, subangular - rounded grains
820	830	Sandy Silt: Tan, very fine grained, loose, moist, very well sorted, subrounded - rounded grains
830	840	Clayey Sand: Tan, very fine - fine grained, loose, wet, well sorted, subangular - rounded grains
840	850	Clayey Sand: Tan, very fine - fine grained, loose, wet, well sorted, subangular - rounded grains
850	860	Clayey Sand: Tan, very fine - fine grained, loose, wet, well sorted, subangular - rounded grains
860	870	Clayey Sand: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - rounded grains, with less than 5% gravel and minimal clay

870	880	Clayey Sand: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - rounded grains, with less than 5% gravel and minimal clay
880	890	Clayey Sand: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - rounded grains, with less than 5% gravel and minimal clay
890	900	Clayey Sand: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - rounded grains, with less than 5% gravel and minimal clay
900	910	Sandy Clay: Tan, very fine - fine grained, loose, wet, moderately sorted, angular - rounded grains, with high plasticity clay
910	920	Sandy Clay: Tan, very fine - fine grained, loose, wet, moderately sorted, angular - rounded grains, with high plasticity clay
920	930	Clayey Sand: Tan, very fine - coarse grained, loose, wet, poor - moderately sorted, subangular - rounded grains, with less than 5% gravel and minimal clay
930	940	Clayey Sand: Tan, very fine - coarse grained, loose, wet, poor - moderately sorted, subangular - rounded grains, with less than 5% gravel and minimal clay
940	950	Sandy Silt: Tan, very fine grained, loose, wet, very well sorted, subrounded - rounded grains
950	960	Sandy Silt: Tan, very fine grained, loose, moist, very well sorted, subrounded - rounded grains
960	970	Sandy Clay: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with moderate - high plasticity clay and less than 5% gravel
970	980	Sandy Clay: Tan, very fine - coarse grained, loose, wet, subangular - rounded grains, with moderate - high plasticity clay and less than 5% gravel
980	990	Sandy Clay: Tan, very fine - fine grained, loose, wet, subangular - subrounded grains, with moderate plasticity clay
990	1000	Sandy Clay: Tan, very fine - fine grained, loose, wet, subangular - subrounded grains, with moderate plasticity clay
1000	1010	Sandy Clay: Tan, very fine - coarse grained, loose, moist, poorly sorted, subangular - subrounded grains, moderate - high plasticity
1010	1020	Gravelly Clayey Sand: Tan, very fine - coarse grained, loose, moist, very poorly sorted, angular - rounded grains, with less than 5% gravel and low - moderate plasticity clay
1020	1030	Sandy Clay: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - subrounded grains, with moderate - high plasticity clay
1030	1040	Sandy Clay: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - subrounded grains, with moderate - high plasticity clay
1040	1050	Sandy Clay: Tan, very fine - coarse grained, loose, moist, poorly sorted, angular - subrounded grains, with moderate - high plasticity clay

1050	1060	Silty Sandy Clay: Tan, very fine - medium grained, loose, wet, poor - moderately sorted, subangular - rounded grains, with silt and low - moderate plasticity clay
1060	1070	Silty Sandy Clay: Tan, very fine - medium grained, loose, wet, poor - moderately sorted, subangular - rounded grains, with silt and low - moderate plasticity clay
1070	1080	Sandy Silt: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1080	1090	Sandy Silt: Tan, very fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1090	1100	Sandy Clay: Tan, very fine - coarse grained, loose, wet, subangular - subrounded grains, poorly sorted, with moderate - high plasticity clay
1100	1110	Silt: Tan, extremely fine grained, wet, loose, no plasticity
1110	1120	Sandy Clay: Tan, very fine - medium grained, wet, loose, subangular - subrounded grains, poor - moderately sorted, with high plasticity clay
1120	1130	Sandy Clay: Tan, very fine - medium grained, wet, loose, subangular - subrounded grains, poor - moderately sorted, with high plasticity clay
1130	1140	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1140	1150	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1150	1160	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1160	1170	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1170	1180	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1180	1190	Sandy Silt: Tan, very fine - fine grained, loose, wet, subrounded - rounded grains, very well sorted, no plasticity
1190	1200	Sandy Clay: Tan, very fine - medium grained, loose, wet, angular - subrounded grains, poorly sorted, with high plasticity clay

180/400-DA-2

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
10	20	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
20	30	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
30	40	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
40	50	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
50	60	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
60	70	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
70	80	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
80	90	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
90	100	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
100	110	Sand: Brown, very fine - medium grained, loose, subangular - subrounded grains, moderately sorted
110	120	Sand: Brown, very fine - medium grained, loose, subangular - subrounded grains, moderately sorted
120	130	Sand: Brown, fine - medium grained, loose, subrounded - rounded grains, well sorted
130	140	Sand: Brown, fine - medium grained, loose, subrounded - rounded grains, well sorted
140	150	Sand: Brown, fine - medium grained, loose, subrounded - rounded grains, well sorted
150	160	Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted
160	170	Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted
170	180	Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted
180	190	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
190	200	Sand: Brown, very fine grained, loose, subrounded - rounded grains, very well sorted
200	210	Gravelly Sand: Tanish brown, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with gravel up to 15mm
210	220	Gravelly Sand: Tanish brown, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with gravel up to 15mm
220	230	Sand: Tan, very fine grained, loose, angular - rounded grains, very well sorted

230	240	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
240	250	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
250	260	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
260	270	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
270	280	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
280	290	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
290	300	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
300	310	Sand: Brown, very fine - coarse grained, loose, subangular - rounded grains, poor - moderately sorted
310	320	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
320	330	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
330	340	Gravelly Sand: Brown, fine - coarse grained, loose, subangular - rounded grains, poorly sorted, with cobbles up to 20mm
340	350	Gravelly Sand: Brown, fine - coarse grained, loose, subangular - rounded grains, poorly sorted, with cobbles up to 20mm
350	360	Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted
360	370	Gravel: Brown, coarse - cobbles, loose, subangular - subrounded grains, poorly sorted
370	380	Gravel: Brown, coarse - cobbles, loose, subangular - subrounded grains, poorly sorted
380	390	Gravelly Sand: Brown, very fine - coarse grained, loose, angular - rounded grains, poor - moderately sorted
390	400	Gravelly Sand: Brown, very fine - coarse grained, loose, angular - rounded grains, poor - moderately sorted
400	410	Gravelly Sand: Brown, very fine - coarse grained, loose, angular - rounded grains, poor - moderately sorted
410	420	Gravelly Sand: Brown, very fine - coarse grained, loose, angular - rounded grains, poor - moderately sorted
420	430	Sandy Clayey Gravel: Brown, very fine - coarse grained, loose, soft, subangular - subrounded, poorly sorted, with moderate plasticity clay
430	440	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
440	450	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
450	460	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
460	470	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted



470	480	Sand: Brown, very fine - medium grained, loose, angular - rounded grains, moderate - well sorted
480	490	Clayey Sand: Tan, very fine - medium grained, loose, soft, subangular - rounded grains, poor - moderately sorted, with moderate plasticity clay
490	500	Clayey Sand: Tan, very fine - medium grained, loose, soft, subangular - rounded grains, poor - moderately sorted, with moderate plasticity clay
500	510	Sand: Brown, very fine - fine grained, loose, subrounded - rounded grains, very well sorted
510	520	Sand: Brown, very fine - fine grained, loose, subrounded - rounded grains, very well sorted
520	530	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
530	540	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
540	550	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
550	560	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
560	570	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
570	580	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
580	590	Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poorly sorted
590	600	Sand: Tan, very fine - fine grained, loose, subangular - rounded grains, moderate - well sorted
600	610	Sand: Tan, very fine - fine grained, loose, subangular - rounded grains, moderate - well sorted
610	620	Sand: Tan, very fine - fine grained, loose, subangular - rounded grains, moderate - well sorted
620	630	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
630	640	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
640	650	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
650	660	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
660	670	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
670	680	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay

680	690	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
690	700	Clayey Sand: Tan, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
700	710	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
710	720	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
720	730	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
730	740	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
740	750	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
750	760	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
760	770	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
770	780	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
780	790	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
790	800	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
800	810	Clayey Sand: Tan, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
810	820	Clayey Sand: Tan, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with moderate plasticity clay
820	830	Clayey Sand: Tan, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with moderate plasticity clay
830	840	Clayey Sand: Tan, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with moderate plasticity clay
840	850	Clayey Sand: Tan, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with moderate plasticity clay
850	860	Clayey Sand: Tan, very fine - coarse grained, loose, angular - rounded grains, poorly sorted, with moderate plasticity clay
860	870	Clayey Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
870	880	Clayey Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
880	890	Clayey Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay
890	900	Clayey Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderate - well sorted, with low plasticity clay

900	910	Sandy Clay: Tan, fine - medium grained, loose, subangular - rounded grains, poor - moderately sorted, with low - moderate plasticity clay
910	920	Sandy Clay: Tan, fine - medium grained, loose, subangular - rounded grains, poor - moderately sorted, with low - moderate plasticity clay
920	930	Clayey Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted, with low plasticity clay
930	940	Clayey Sand: Brown, very fine - fine grained, loose, subangular - rounded grains, well sorted, with low plasticity clay
940	950	Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderately sorted
950	960	Sand: Brown, very fine - medium grained, loose, subangular - rounded grains, moderately sorted
960	970	Sandy Clay: Tan, very fine - coarse grained, soft, subrounded - rounded grains, poorly sorted, with high plasticity clay
970	980	Sandy Clay: Tan, very fine - coarse grained, soft, subrounded - rounded grains, poorly sorted, with high plasticity clay
980	990	Sandy Clay: Tan, very fine - coarse grained, soft, subrounded - rounded grains, poorly sorted, with high plasticity clay
990	1000	Sandy Clay: Tan, very fine - coarse grained, soft, subrounded - rounded grains, poorly sorted, with high plasticity clay
1000	1010	Clayey Sand: Brown, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
1010	1020	Clayey Sand: Brown, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
1020	1030	Clayey Sand: Brown, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
1030	1040	Clayey Sand: Brown, very fine - coarse grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay
1040	1050	Sandy Clay: Tan, very fine - medium grained, soft, angular - subrounded grains, poorly sorted, with high plasticity clay
1050	1060	Sandy Clay: Tan, very fine - medium grained, soft, angular - subrounded grains, poorly sorted, with high plasticity clay
1060	1070	Sandy Clay: Tan, very fine - medium grained, soft, angular - subrounded grains, poorly sorted, with high plasticity clay
1070	1080	Sandy Clay: Tan, very fine - medium grained, soft, angular - subrounded grains, poorly sorted, with high plasticity clay
1080	1090	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1090	1100	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics

1100	1110	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1110	1120	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1120	1130	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1130	1140	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1140	1150	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1150	1160	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1160	1170	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1170	1180	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1180	1190	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1190	1200	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1200	1210	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1210	1220	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1220	1230	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics
1230	1240	Clayey Sand: Brown, fine - medium grained, loose, angular - subrounded grains, poor - moderately sorted, with low plasticity clay and an increase in dark lithics

180/400-DA-3

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Sandy Clay: Redish brown, loose, fine grained sand, sub rounded-rounded grains, very well sorted with moderate plasticity clay
10	20	Sandy Clay: Redish brown, loose, fine grained sand, sub rounded-rounded grains, very well sorted with moderate plasticity clay
20	30	Sandy silt: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted with silt
30	40	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
40	50	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
50	60	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
60	70	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
70	80	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
80	90	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
90	100	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
100	110	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
110	120	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
120	130	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
130	140	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
140	150	Sand: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted
150	160	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
160	170	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
170	180	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
180	190	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
190	200	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
200	210	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
210	220	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
220	230	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted

230	240	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
240	250	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
250	260	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
260	270	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
270	280	Sand: Greyish brown, loose, very fine grained, subrounded - rounded grains, very well sorted
280	290	Sand: Tan, loose, very fine - fine grained, subangular - subrounded grains, well sorted
290	300	Sand: Tan, loose, very fine - fine grained, subangular - subrounded grains, well sorted
300	310	Silt: Tan, loose, extremely fine grained, soft, no plasticity
310	320	Silt: Tan, loose, extremely fine grained, soft, no plasticity
320	330	Sand: Brown, loose, very fine grained, subrounded - rounded, very well sorted
330	340	Sand: Brown, loose, very fine grained, subrounded - rounded, very well sorted
340	350	Sand: Brown, loose, very fine grained, subrounded - rounded, very well sorted
350	360	Sand: Brown, loose, very fine grained, subrounded - rounded, very well sorted
360	370	Silt: Tan, loose, extremely fine grained, soft, no plasticity
370	380	Sand: Brown, loose, very fine grained, subangular - rounded grains, well sorted
380	390	Sand: Brown, loose, very fine grained, subangular - rounded grains, well sorted
390	400	Sand: Brown, loose, very fine grained, subangular - rounded grains, well sorted
400	410	Silt: Tan, loose, extremely fine grained, soft, no plasticity
410	420	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
420	430	Sandy clay: Tan, loose, very fine grained, subangular - rounded grains, very well sorted with moderate - high plasticity clay
430	440	Sandy clay: Tan, loose, very fine grained, subangular - rounded grains, very well sorted with moderate - high plasticity clay
440	450	Sandy clay: Tan, loose, very fine grained, subangular - rounded grains, very well sorted with moderate - high plasticity clay
450	460	Sandy clay: Tan, soft, very fine grained, subangular - rounded grains, very well sorted with moderate - high plasticity clay
460	470	Sandy clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with moderate - high plasticity clay
470	480	Sandy clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with moderate - high plasticity clay
480	490	Sandy clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with moderate - high plasticity clay
490	500	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt

500	510	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
510	520	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
520	530	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
530	540	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
540	550	Sandy silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
550	560	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
560	570	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
570	580	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
580	590	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
590	600	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
600	610	Silt: Tan, loose, extremely fine grained, soft, no plasticity
610	620	Silt: Tan, loose, extremely fine grained, soft, no plasticity
620	630	Silt: Tan, loose, extremely fine grained, soft, no plasticity
630	640	Silt: Tan, loose, extremely fine grained, soft, no plasticity
640	650	Silt: Tan, loose, extremely fine grained, soft, no plasticity
650	660	Silt: Tan, loose, extremely fine grained, soft, no plasticity
660	670	Silt: Tan, loose, extremely fine grained, soft, no plasticity
670	680	Silt: Tan, loose, extremely fine grained, soft, no plasticity
680	690	Silt: Tan, loose, extremely fine grained, soft, no plasticity
690	700	Sandy silt: Tan, loose, very fine grained sand, subangular - subrounded grains, well sorted with silt
700	710	Sandy silt: Tan, loose, very fine grained sand, subangular - subrounded grains, well sorted with silt
710	720	Sandy silt: Tan, loose, very fine grained sand, subangular - subrounded grains, well sorted with silt
720	730	Sandy silt: Tan, loose, very fine grained sand, subangular - subrounded grains, well sorted with silt
730	740	Sandy silt: Tan, loose, very fine grained sand, subangular - subrounded grains, well sorted with silt
740	750	Sandy Clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with high plasticity clay
750	760	Sandy Clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with high plasticity clay
760	770	Sandy Clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with high plasticity clay
770	780	Sandy Clay: Tan, soft, very fine grained, subrounded - rounded grains, well sorted with high plasticity clay
780	790	Silt: Tan, loose, extremely fine grained, soft, no plasticity
790	800	Silt: Tan, loose, extremely fine grained, soft, no plasticity
800	810	Silt: Tan, loose, extremely fine grained, soft, no plasticity

810	820	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
820	830	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
830	840	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
840	850	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
850	860	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
860	870	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
870	880	Sandy Clay: Tan, loose, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
880	890	Sandy Clay: Tan, soft, medium - coarse grained sand, angular - subrounded grains, poor - moderately sorted with moderate - high plasticity clay
890	900	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
900	910	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
910	920	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
920	930	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
930	940	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
940	950	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
950	960	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
960	970	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay



970	980	Sandy Clay: Brownish grey, soft, medium - coarse grained sand, angular - subrounded grains, poorly sorted with moderate - high plasticity clay
980	990	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
990	1000	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
1000	1010	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
1010	1020	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
1020	1030	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
1030	1040	Sandy Clay: Tan, soft, medium - coarse grained, subangular - rounded grains, moderately sorted with moderate - high plasticity clay
1040	1050	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1050	1060	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1060	1070	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1070	1080	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1080	1090	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1090	1100	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1100	1110	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1110	1120	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1120	1130	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay

1130	1140	Clayey Sand: Brownish grey, loose, very fine - fine grained, subrounded - rounded grains, well sorted with low - moderate plasticity clay
1140	1150	Clayey Sand: Greyish brown, fine - medium grained, subangular - rounded grains, moderately sorted with moderate plasticity clay
1150	1160	Clayey Sand: Greyish brown, fine - medium grained, subangular - rounded grains, moderately sorted with moderate plasticity clay
1160	1170	Sand: Greyish brown, loose, very fine grained, subangular - rounded grains, very well sorted
1170	1180	Sand: Greyish brown, loose, very fine grained, subangular - rounded grains, very well sorted
1180	1190	Sand: Greyish brown, loose, very fine grained, subangular - rounded grains, very well sorted
1190	1200	Silty Sand: Tan, loose, very fine grained, subrounded - rounded, very well sorted with silt
1200	1210	Silty Sand: Tan, loose, very fine grained, subrounded - rounded, very well sorted with silt
1210	1220	Silty Sand: Tan, loose, very fine grained, subrounded - rounded, very well sorted with silt
1220	1230	Silty Sand: Tan, loose, very fine grained, subrounded - rounded, very well sorted with silt
1230	1240	Clayey Sand: Brown, loose, very fine - medium grained, angular - rounded grains, poor - moderately sorted with low plasticity clay
1240	1250	Clayey Sand: Brown, loose, very fine - medium grained, angular - rounded grains, poor - moderately sorted with low plasticity clay
1250	1260	Clayey Sand: Brown, loose, very fine - medium grained, angular - rounded grains, poor - moderately sorted with low plasticity clay
1260	1270	Silty Sand: Tan, loose, very fine - fine grained, angular - rounded grains, moderate - well sorted with silt
1270	1280	Silty Sand: Tan, loose, very fine - fine grained, angular - rounded grains, moderate - well sorted with silt
1280	1290	Silty Sand: Tan, loose, very fine - fine grained, angular - rounded grains, moderate - well sorted with silt
1290	1300	Silty Sand: Tan, loose, very fine - fine grained, angular - rounded grains, moderate - well sorted with silt

180/400-ISW-1

From (ft bgs)	To (ft bgs)	Lithologic Description
0	10	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
10	20	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
20	30	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
30	40	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
40	50	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
50	60	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
60	70	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
70	80	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
80	90	Sand: Brown, loose, very fine grained, subrounded - rounded grains, very well sorted
90	100	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
100	110	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
110	120	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
120	130	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
130	140	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
140	150	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
150	160	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
160	170	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
170	180	Gravelly Sand: Brown, loose, fine - coarse grained, angular - rounded grains, poor - moderately sorted with gravel
180	190	Clayey Sand: Tan, loose, very fine - medium grained, angular - rounded grains, poor - moderately sorted with moderate plasticity clay
190	200	Clayey Sand: Tan, loose, very fine - medium grained, angular - rounded grains, poor - moderately sorted with moderate plasticity clay

180/400-DA-1





180/400-DA-2



180/400-DA-3





180/400-ISW-1



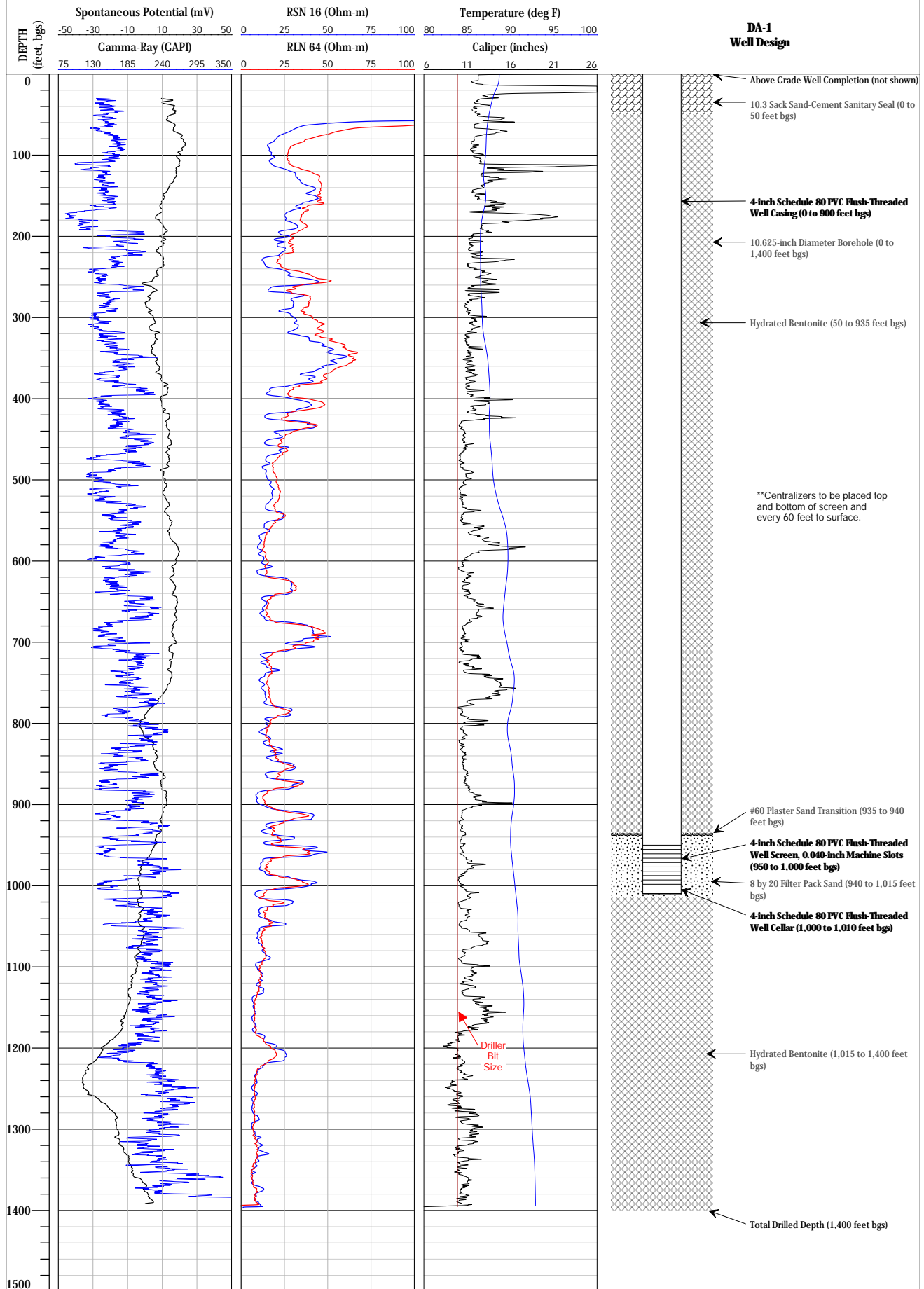


# DA-1 Well Design - FINAL FOR CONSTRUCTION



Client: Salinas Valley GSA  
 Driller: Gregg Drilling and Testing  
 Method: Direct Mud Rotary

October 8, 2023

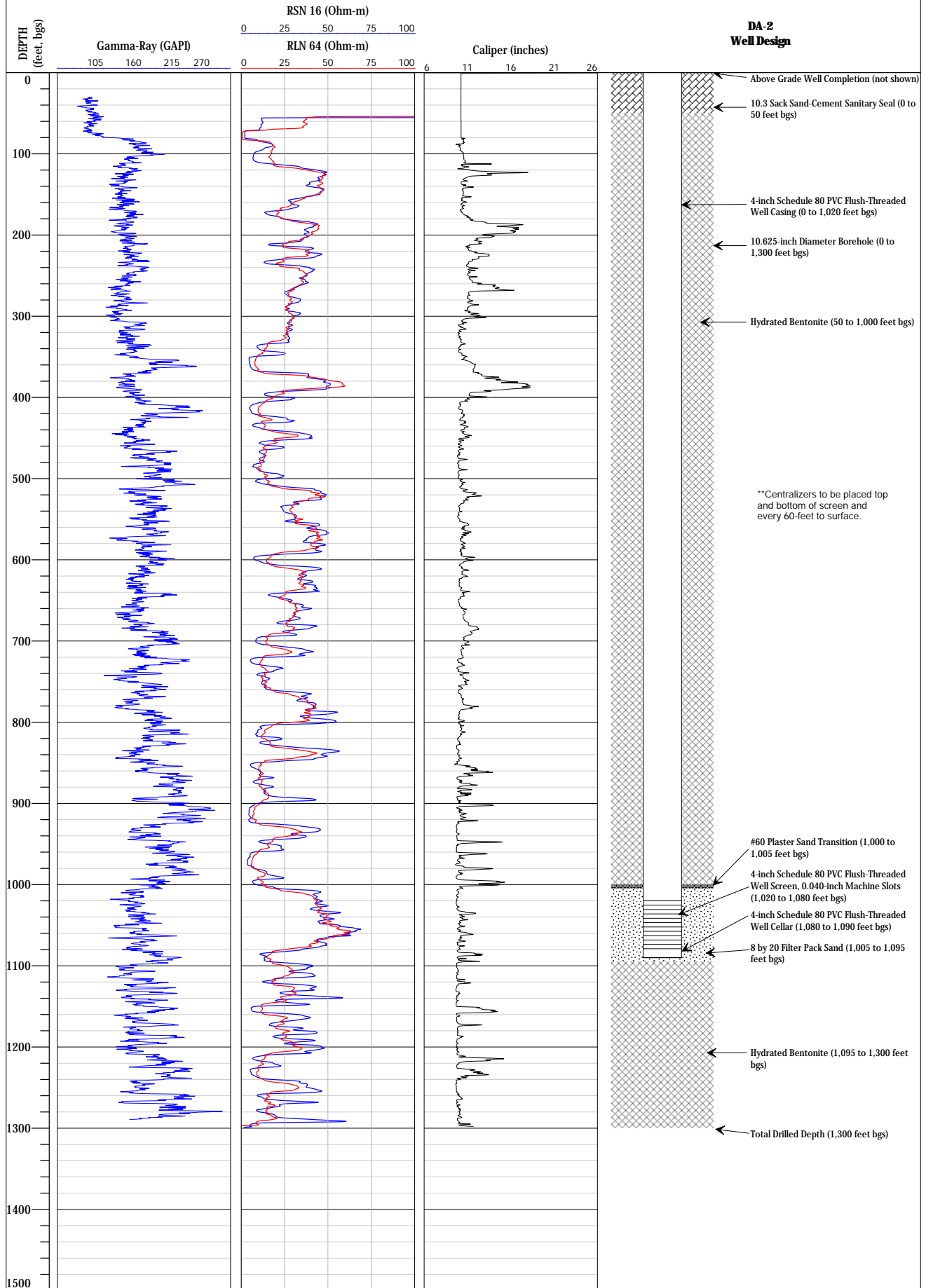


# DA-2 Well Design - FINAL FOR CONSTRUCTION



April 14, 2024

Client: Salinas Valley GSA  
Driller: Gregg Drilling and Testing  
Method: Direct Mud Rotary

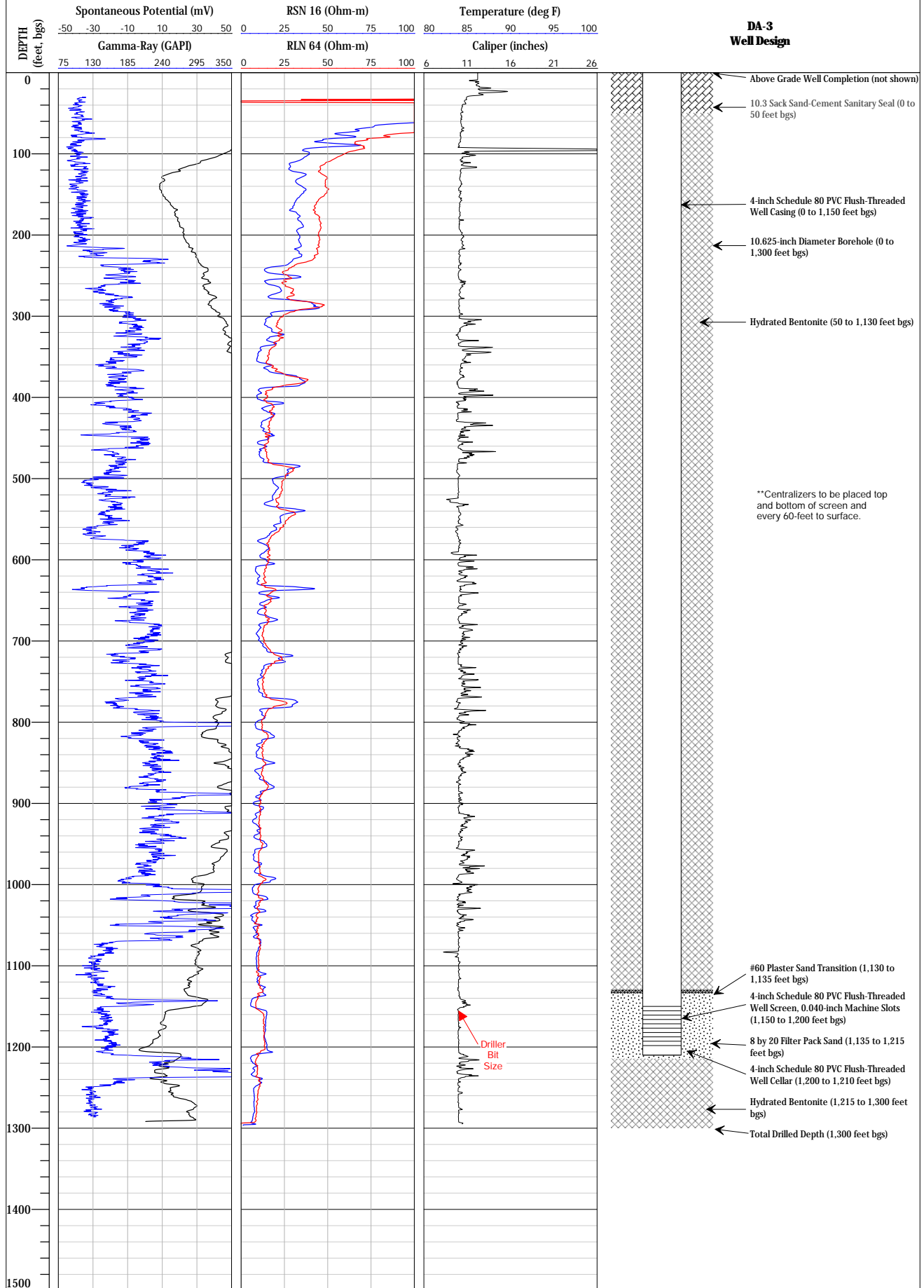


# DA-3 Well Design - FINAL FOR CONSTRUCTION



Client: Salinas Valley GSA  
Driller: Gregg Drilling and Testing  
Method: Direct Mud Rotary

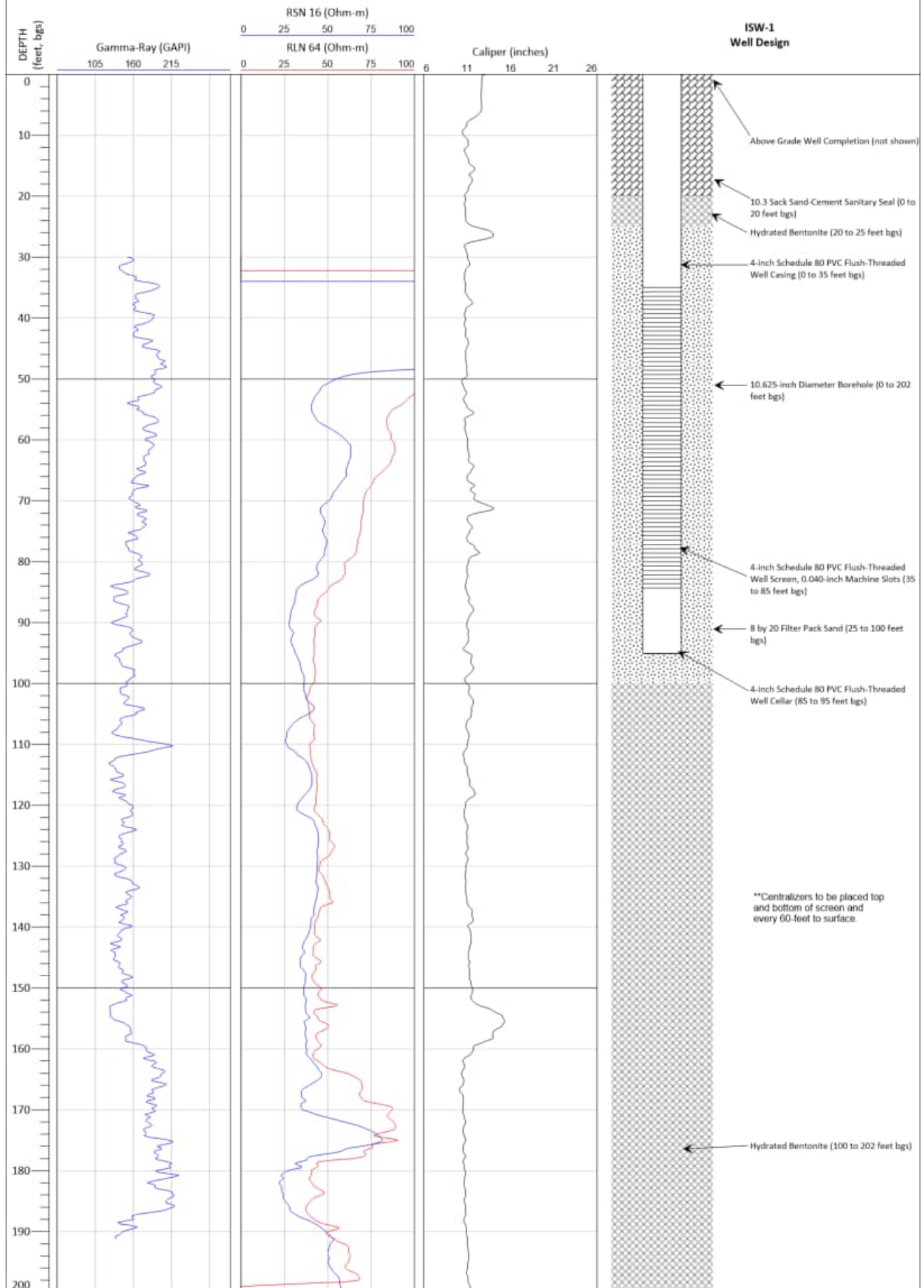
November 1, 2023



# ISW-1 Well Design - FINAL FOR CONSTRUCTION

Client: Salinas Valley GSA  
Driller: Gregg Drilling and Testing  
Method: Direct Mud Rotary

November 12, 2023



State of California  
**Well Completion Report**  
Form DWR 188 Submitted 2/8/2024  
WCR2024-001190

Owner's Well Number DA-1 Date Work Began \_\_\_\_\_ Date Work Ended 11/10/2023  
Local Permit Agency Environmental Health Services of Monterey County  
Secondary Permit Agency \_\_\_\_\_ Permit Number 23-SEA24-000037 Permit Date 09/10/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>1441 Schilling Pl</u>	Planned Use <u>Monitoring</u>
City <u>Salinas</u> State <u>CA</u> Zip <u>93901</u>	

Well Location									
Address _____					APN <u>207201001000</u>				
City _____		Zip _____		County <u>Monterey</u>			Township <u>15 S</u>		
Latitude <u>36</u> <u>38</u> <u>51.248</u> <u>N</u>		Longitude <u>-121</u> <u>42</u> <u>6.6117</u> <u>W</u>			Range <u>02 E</u>		Section <u>12</u>		
Deg. Min. Sec.		Deg. Min. Sec.			Baseline Meridian <u>Mount Diablo</u>				
Dec. Lat. <u>36.6475689</u>		Dec. Long. <u>-121.7018366</u>			Ground Surface Elevation _____				
Vertical Datum _____		Horizontal Datum <u>WGS84</u>			Elevation Accuracy _____				
Location Accuracy _____		Location Determination Method _____			Elevation Determination Method _____				

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
	Water Level _____ (Feet) Date Measured _____
Total Depth of Boring <u>1400</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
Total Depth of Completed Well <u>1010</u> Feet	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	10	Sand; redish brown sand, loose, moist
10	60	Sand; brown, vf-fgr, loose, wet, subangular-subrounded grs
60	170	Sand; grey, vf gr, loose, wet, subrounded grs
170	520	Sand; tan, loose, wet
520	760	Clayey sand; tan, loose, wet, sun-angular-rounded
760	1050	Sandy clay; tan, vf-coarse gr sand, loose, moist
1050	1210	Silty sandy clay to sandy clay; tan, loose, wet
1210	1260	Silt; brown, fine grain, loose, no plasticity
1260	1320	Sandy Clay; brown, vf-fgr sand, loose
1320	1400	Sandy silt; tan, vfgr, loose, v well sorted, no plasticity



State of California  
**Well Completion Report**  
Form DWR 188 Submitted 6/19/2024  
WCR2024-005224

Owner's Well Number DA-2 Date Work Began \_\_\_\_\_ Date Work Ended 04/23/2024  
Local Permit Agency Environmental Health Services of Monterey County  
Secondary Permit Agency \_\_\_\_\_ Permit Number HZ-000036/2023 Permit Date 02/22/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>Salinas Valley Basin Groundwater Sustainability Agency</u>	Activity <u>New Well</u>
Mailing Address <u>PO Box 1350</u>	Planned Use <u>Monitoring</u>
City <u>Carmel Valley</u> State <u>CA</u> Zip <u>93924</u>	

Well Location									
Address _____					APN <u>223-011-011-000</u>				
City _____		Zip _____		County <u>Monterey</u>		Township <u>16 S</u>			
Latitude <u>36</u> <u>30</u> <u>51.4115</u> <u>N</u>		Longitude <u>-121</u> <u>28</u> <u>6.7115</u> <u>W</u>		Range <u>05 E</u>		Section <u>30</u>			
Deg. Min. Sec.		Deg. Min. Sec.		Baseline Meridian <u>Mount Diablo</u>					
Dec. Lat. <u>36.514281</u>		Dec. Long. <u>-121.468531</u>		Ground Surface Elevation _____					
Vertical Datum _____		Horizontal Datum <u>WGS84</u>		Elevation Accuracy _____					
Location Accuracy _____		Location Determination Method _____		Elevation Determination Method _____					

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>1300</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>1090</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet	Description	
0	200	Sand
200	220	Gravelly Sand
220	330	Sand
330	350	Gravelly Sand
350	360	Sand
360	380	Gravel
380	420	Gravelly Sand
420	430	Sandy Clayey Gravel
430	480	SAnd
480	500	Clayey Sand
500	620	Sand
620	900	Clayey Sand
900	920	sandy clay
920	940	clayey sand





State of California  
**Well Completion Report**  
Form DWR 188 Submitted 2/8/2024  
WCR2024-001194

Owner's Well Number DA-3 Date Work Began \_\_\_\_\_ Date Work Ended 10/20/2023  
Local Permit Agency Environmental Health Services of Monterey County  
Secondary Permit Agency \_\_\_\_\_ Permit Number 23-SEA24-000035 Permit Date 09/10/2023

Well Owner (must remain confidential pursuant to Water Code 13752)		Planned Use and Activity	
Name	<u>SALINAS VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY,</u>	Activity	<u>New Well</u>
Mailing Address	<u>1441 Schilling Pl</u>	Planned Use	<u>Monitoring</u>
City	<u>Salinas</u>		
State	<u>CA</u>		
Zip	<u>93901</u>		

Well Location			
Address <u>14665 Blackie RD</u>		APN _____	
City <u>Salinas</u>	Zip <u>93907</u>	County <u>Monterey</u>	Township <u>13 S</u>
Latitude <u>36</u> <u>46</u> <u>20.9855</u> <u>N</u>	Longitude <u>-121</u> <u>43</u> <u>6.3443</u> <u>W</u>	Range <u>02 E</u>	Section <u>26</u>
Deg. Min. Sec.	Deg. Min. Sec.	Baseline Meridian <u>Mount Diablo</u>	
Dec. Lat. <u>36.772496</u>	Dec. Long. <u>-121.718429</u>	Ground Surface Elevation _____	
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy _____	
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method _____	

Borehole Information		Water Level and Yield of Completed Well	
Orientation <u>Vertical</u>	Specify _____	Depth to first water _____	(Feet below surface)
Drilling Method <u>Direct Rotary</u>	Drilling Fluid <u>Bentonite</u>	Depth to Static _____	
Total Depth of Boring <u>1300</u>	Feet	Water Level _____	(Feet) Date Measured _____
Total Depth of Completed Well <u>1210</u>	Feet	Estimated Yield* _____	(GPM) Test Type _____
		Test Length _____	(Hours) Total Drawdown _____ (feet)
		*May not be representative of a well's long term yield.	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	20	Sandy Clay: Redish brown, loose, fine grained sand, sub rounded- rounded grains, very well sorted with moderate plasticity clay
20	30	Sandy Silt: Redish brown, loose, very fine grained sand, subrounded - rounded grains, very well sorted with silt
30	300	Sand; redish brown to tan, loose, fine grained
300	420	Silt and Sand layers; tan and brown, very fine grained, loose
420	690	Sandy Clay; tan, loose, very fine grained
690	840	Sandy Clay; redish brown, loose, very fine grained, very well sorted
840	990	Sand; brown, loose, very fine grained, well sorted
990	1110	Silt: Tan, loose, extremely fine grained, soft, no plasticity and Sand: Brown, loose, very fine grained, subrounded - rounded, very well sorted
1110	1290	Sandy Silt: tan, soft, very fine grained, angular - rounded grains, well sorted with silt
1290	1300	Silt: Tan, loose, extremely fine grained, soft, no plasticity



State of California  
**Well Completion Report**  
Form DWR 188 Submitted 2/8/2024  
WCR2024-001186

Owner's Well Number ISW-1 Date Work Began \_\_\_\_\_ Date Work Ended 11/10/2023  
Local Permit Agency Environmental Health Services of Monterey County  
Secondary Permit Agency \_\_\_\_\_ Permit Number 23-SEA24-000032 Permit Date 09/10/2023

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>SALINAS VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY,</u>	Activity <u>New Well</u>
Mailing Address <u>1411 Schilling Pl</u>	Planned Use <u>Monitoring</u>
City <u>Salinas</u> State <u>CA</u> Zip <u>93901</u>	

Well Location	
Address <u>0 Laguna RD</u>	APN _____
City <u>Salinas</u> Zip <u>93908</u> County <u>Monterey</u>	Township <u>15 S</u>
Latitude <u>36</u> <u>35</u> <u>57.1632</u> N Longitude <u>-121</u> <u>37</u> <u>0.9731</u> W	Range <u>03 E</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>26</u>
Dec. Lat. <u>36.599212</u> Dec. Long. <u>-121.616937</u>	Baseline Meridian <u>Mount Diablo</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water _____ (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite</u>	Depth to Static _____
Total Depth of Boring <u>200</u> Feet	Water Level _____ (Feet) Date Measured _____
Total Depth of Completed Well <u>95</u> Feet	Estimated Yield* _____ (GPM) Test Type _____
	Test Length _____ (Hours) Total Drawdown _____ (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	90	Sand; brown, very fine grained, subrounded-rounded grains, very well sorted, loose
90	180	Gravelly sand; brown, fine-coarse grained, angular-rounded grains, poor-moderately sorted, loose, w/ gravel
180	200	Clayey sand; tan, vf-medium grained, angular-rounded grains, poor-moderately sorted, loose, w/ moderate plasticity clay





ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA		PROJECT #: D2232081.P		DAY: THU	DATE: 10/12/20			
JOB LOCATION: Salinas Ca. 35.647368,-121.702197								
Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.	TIME					
			Start	Stop				
New well	113.06	WELL DEVELOPMENT						
		@ SHOP	530	630				
		MOB TO SITE	630	930				
		ON SITE	930	600				
		End day	600	-				
		6.5 HR ON SITE						
		3 HR MOB						
TOTAL FEET DRILLED/GROUTED:			TOTAL HOURS: 11.5					
EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING		
DRILL RIG #	DV4	ITEM	SIZE	FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #		SCH 40 CASING			55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22	
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING			READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA	
PORTABLE RESTROOM		55 CASING			ASPHALT		8" HSA	
FORKLIFT/HOPPER		55 SCREEN			BENTONITE POWDER		10" HSA	
		SLIP CAPS			BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS			BENTONITE CHIPS		101 MM	
LABOR		LOCKING CAPS			BENTONITE PELLETS		134 MM	
NAME	SIGNATURE	HOURS	WOOD PLUGS		EZ MUD+		HQ	
Anthony Johnson	<i>AA</i>	12.5	PP SCREEN		POLYTHIN		HWT/PQ	
Francisco E	<i>FE</i>	12.5	SAND		VISQUEEN		4x6 SONIC	
			55 LINERS		PLYWOOD		6x8 SONIC	
			LINER CAPS		BOLLARDS		8x10 SONIC	
			SHELBY TUBES		MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY			WELL BOX		DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS	HYDROPUNCH
					1/4" TUBING		HP TIPS	
							VAPOR IMPLANTS	
NEAR MISSES/INCIDENTS:								
DAMAGED EQUIPMENT:								
REMARKS:								

Client Signature: \_\_\_\_\_

Operator Signature: *AA*



ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA		PROJECT #: D2232081.P		DAY: <u>Fri</u>	DATE: <u>10/13/22</u>		
JOB LOCATION: Salinas Ca. 36.647366,-121.702197							
Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.	TIME				
			Start	Stop			
<u>NEWELL</u>	<u>1113.05</u>	<u>WELL DEVELOPMENT</u>	<u>700</u>	<u>200</u>			
		<u>6W SILE</u>	<u>700</u>	<u>200</u>			
		<u>MOB TO SHOP</u>	<u>700</u>	<u>500</u>			
		<u>7 HR ON SITE</u>					
		<u>3 HR MOB</u>					
TOTAL FEET DRILLED/GROUTED:			TOTAL HOURS: <u>10.0</u>				
EQUIPMENT / TOOLS		CASING / SAND / LINERS	MATERIALS	TOOLING			
DRILL RIG #	DV4	ITEM SIZE FT/QT	ITEM QTY	ITEM x			
SUPPORT TRUCK #		SCH 40 CASING	SS GAL DRUMS	MACROCORE			
TRAILER #		SCH 40 SCREEN	PORTLAND	DT22			
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING	READYMIX	DT32			
CONCRETE CORES		SCH 80 SCREEN	RAPID SET	6" HSA			
PORTABLE RESTROOM		SS CASING	ASPHALT	8" HSA			
FORKLIFT/HOPPER		SS SCREEN	BENTONITE POWDER	10" HSA			
		SLIP CAPS	BENTONITE GRANULAR	12" HSA			
		BOTTOM CAPS	BENTONITE CHIPS	101 MM			
LABOR		LOCKING CAPS	BENTONITE PELLETS	134 MM			
NAME	SIGNATURE	HOURS	WOOD PLUGS	EZ MUD+	HQ		
Anthony Johnson		<u>10.8</u>	PP SCREEN	POLYTHIN	HWT/PQ		
<u>Francisco E.</u>		<u>10</u>	SAND	VISQUEEN	4x6 SONIC		
			SS LINERS	PLYWOOD	6x8 SONIC		
			LINER CAPS	BOLLARDS	8x10 SONIC		
			SHELBY TUBES	MC LINERS	10x12 SONIC		
WELL/BORING SUMMARY			WELL BOX	DT22 LINERS	INJECTION		
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT	DT32 LINERS	HYDROPUNCH
					1/4" TUBING	HP TIPS	
						VAPOR IMPLANTS	
NEAR MISSES/INCIDENTS:							
DAMAGED EQUIPMENT:							
REMARKS: <u>Lunch 1200-1230</u>							

Client Signature: \_\_\_\_\_

Operator Signature:



# MONITORING WELL DEVELOPMENT LOG

Page \_\_\_\_\_ of \_\_\_\_\_

**All measurements taken from:**

☒ Top of Casing☐ Protective Casing    ☐ Ground Level

Sample ID

Uten wel

Well Number

Date 10/12/13

Time Start: 930 End:

client Salinas Valley Bion-GSC

Project Salinas.ca

Job Number D2232081.P

Installation Date

Well Diameter

**Borehole Diameter**



Screen Length

Measured Depth (pre-development)

Measured Depth (post-development)	113.00
-----------------------------------	--------

Static Water Level (ft.)

Standing Water Column (ft.)

One Casing Volume (gal.)

One Annulus Vol. (gal.)

Time	Amount Purged (gal.)	Field Parameters Measured						GPM / W/L	Comments	Field Tech.
		pH	EC	Turbidity	D.O.	Temperature	SAL			
		Bail, 40 GAC								
		- Sample Well 35N11N								
		Bail, 50 GAC								
		- Get 1' GAC Pipe @ 8:30 FT - End day 1								
		- Section @ 8:30								
10:30	2,000	7.74	.687	915	-	25.16	.33	-	Flow Rate @ 30 GPM -	
10:55	2,750	7.60	.670	594	-	24.81	.30	-		
11:20	3,500	7.54	.603	400	-	23.90	.29	-		
11:45	4,250	7.50	.590	327	-	23.91	.29	-		
FINAL FIELD PARAMETER MEASUREMENTS										
12:05	5,030	7.52	.575	263	-	25.67	.25			



ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA		PROJECT #: D2232081.P		DAY: <u>Tue</u>		DATE: <u>11/7/23</u>		
JOB LOCATION: Salinas Ca. 38.847366,-121.702197 <u>DAI solar Plant</u>								
Well # Bore #	Depth Drilled	DESCRIPTION OF WORK				TIME		
		Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.				Start	Stop	
<u>SPWGL</u>	<u>1019.00</u>	<u>WELL DEVELOPMENT</u>						
		<u>6 STOP</u>				<u>5:30</u>	<u>8:30</u>	
		<u>MOB TO SITE</u>				<u>8:30</u>	<u>11:30</u>	
		<u>ON SITE</u>				<u>11:30</u>	<u>5:00</u>	
		<u>END DAY</u>				<u>5:00</u>		
TOTAL FEET DRILLED/GROUTED:						TOTAL HOURS: <u>9.0</u>		
EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING		
DRILL RIG #	DV4	ITEM	SIZE	FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #		SCH 40 CASING			55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22	
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING			READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA	
PORTABLE RESTROOM		55 CASING			ASPHALT		8" HSA	
FORKLIFT/HOPPER		55 SCREEN			BENTONITE POWDER		10" HSA	
		SLIP CAPS			BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS			BENTONITE CHIPS		101 MM	
LABOR		LOCKING CAPS			BENTONITE PELLETS		134 MM	
NAME	SIGNATURE	HOURS	WOOD PLUGS		EZ MUD+		HQ	
Anthony Johnson		<u>12.0</u>	PP SCREEN		POLYTHIN		HWT/PQ	
		<u>12.0</u>	SAND		VISQUEEN		4x6 SONIC	
			55 LINERS		PLYWOOD		6x8 SONIC	
			LINER CAPS		BOLLARDS		8x10 SONIC	
			SHELBY TUBES		MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY			WELL BOX		DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS	HYDROPUNCH
					1/4" TUBING		HP TIPS	
							VAPOR IMPLANTS	
NEAR MISSES/INCIDENTS:								
DAMAGED EQUIPMENT:								
REMARKS: <u>Lunch 12:00-12:30</u>								

Client Signature: \_\_\_\_\_

Operator Signature:

ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA		PROJECT #: D22320B1.P		DAY: WED		DATE: 11/8/24	
JOB LOCATION: Salinas Ca. 36.647366, -121.702197 <b>DA1 Solar Plant</b>							
Well #	Depth	DESCRIPTION OF WORK				TIME	
Bore #	Drilled	Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.				Start	Stop
SP WELL	1, DM, DP	WELL DEVELOPMENT - SITE CLEANUP - SET, CRASH POST -					
		ON SITE				700	200
		THRU ON SITE					
TOTAL FEET DRILLED/GROUTED:						TOTAL HOURS:	
EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING	
DRILL RIG #	DV4	ITEM	SIZE	FT/QTY	ITEM	QTY	ITEM
SUPPORT TRUCK #		SCH 40 CASING			55 GAL DRUMS		MACROCORE
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING			READYMIX		DT32
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA
PORTABLE RESTROOM		SS CASING			ASPHALT		8" HSA
FORKLIFT/HOPPER		SS SCREEN			BENTONITE POWDER		10" HSA
		SLIP CAPS			BENTONITE GRANULAR		12" HSA
		BOTTOM CAPS			BENTONITE CHIPS		101 MM
LABOR		LOCKING CAPS			BENTONITE PELLETS		134 MM
NAME	SIGNATURE	HOURS	WOOD PLUGS		EZ MUD+		HQ
Anthony Johnson			PP SCREEN		POLYTHIN		HWT/PQ
			SAND		VISQUEEN		4x6 SONIC
			SS LINERS		PLYWOOD		6x8 SONIC
			LINER CAPS		BOLLARDS		8x10 SONIC
			SHELBY TUBES		MC LINERS		10x12 SONIC
WELL/BORING SUMMARY			WELL BOX		DT22 LINERS		INJECTION
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS
					1/4" TUBING		HYDROPUNCH
					HP TIPS		
					VAPOR IMPLANTS		
NEAR MISSES/INCIDENTS:							
DAMAGED EQUIPMENT:							
REMARKS:							

Client Signature: \_\_\_\_\_

**Operator Signature:**



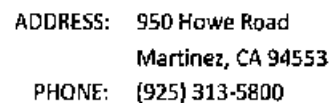
ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA		PROJECT #: D2232081.P		DAY: WED	DATE: 11/8/23			
JOB LOCATION: Salinas Ca. 36.772397,-121.718168 DA3 Blacky RD								
Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.			TIME Start Stop			
Recess Well	1124.66	WELL DEVELOPMENT						
		ON SITE			200	530		
		2.5 HR ON SITE						
		0.5 HOUR			530	1000		
TOTAL FEET DRILLED/GROUTED:				TOTAL HOURS: 4.0				
EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING		
DRILL RIG #	DV4	ITEM	SIZE	FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #	S137	SCH 40 CASING			55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22	
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING			READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA	
PORTABLE RESTROOM		SS CASING			ASPHALT		8" HSA	
FORKLIFT/HOPPER		SS SCREEN			BENTONITE POWDER		10" HSA	
		SLIP CAPS			BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS			BENTONITE CHIPS		101 MM	
LABOR		LOCKING CAPS			BENTONITE PELLETS		134 MM	
NAME	SIGNATURE	HOURS	WOOD PLUGS		EZ MUD+		HQ	
Anthony Johnson			PP SCREEN		POLYTHIN		HWT/PQ	
J Bisbee			SAND		VISQUEEN		4x6 SONIC	
			SS LINERS		PLYWOOD		6x8 SONIC	
			LINER CAPS		BOLLARDS		8x10 SONIC	
			SHELBY TUBES		MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY			WELL BOX		DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS	HYDROPUNCH
					1/4" TUBING		HP TIPS	
							VAPOR IMPLANTS	
NEAR MISSES/INCIDENTS:								
DAMAGED EQUIPMENT:								
REMARKS:								

Client Signature: \_\_\_\_\_

Operator Signature: \_\_\_\_\_

[illegible]

**Operator Signature:**



ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

11/10/23

CLIENT: GSA		PROJECT #: D2232081.P		DAY: FRU		DATE: 11/10/23		
JOB LOCATION: Salinas Ca. 36.772397, -121.718168 DA3 Blacky RD								
Well #	Depth	DESCRIPTION OF WORK				TIME		
Bore #	Drilled	Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.				Start	Stop	
Row 1 Well	121.16	WELL DEVELOPMENT				730	130	
		Site cleanup + Set creek posts						
		ON Site				730	130	
		MOB TO STOP				130	500	
TOTAL FEET DRILLED/GROUTED:						TOTAL HOURS: 9.5		
EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING		
DRILL RIG #	DV4	ITEM	SIZE	FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #	S137	SCH 40 CASING			55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22	
RENTAL EQUIPMENT	Restroom / Compressor	SCH 80 CASING			READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA	
PORTABLE RESTROOM		SS CASING			ASPHALT		8" HSA	
FORKLIFT/HOPPER		SS SCREEN			BENTONITE POWDER		10" HSA	
		SLIP CAPS			BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS			BENTONITE CHIPS		101 MM	
		LOCKING CAPS			BENTONITE PELLETS		134 MM	
LABOR		WOOD PLUGS			EZ MUD+		HQ	
NAME	SIGNATURE	HOURS	PP SCREEN		POLYTHIN		HWT/PQ	
Anthony Johnson		9.5	SAND		VISQUEEN		4x6 SONIC	
J Bisbee		9.5	SS LINERS		PLYWOOD		6x8 SONIC	
			LINER CAPS		BOLLARDS		8x10 SONIC	
			SHELBY TUBES		MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY		WELL BOX			DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS	HYDROPUNCH
					1/4" TUBING		HP TIPS	
							VAPOR IMPLANTS	
NEAR MISSES/INCIDENTS:								
DAMAGED EQUIPMENT:								
REMARKS: LUNCH 1200-1230								

Client Signature: \_\_\_\_\_

Operator Signature:



## MONITORING WELL DEVELOPMENT LOG

Page 1 of 2

All measurements taken from: Top of Casing ☐ Protective Casing ☐ Ground LevelSample ID XQty. of Drilling Fluid Lost XMinimum Gal. to be Purged XDevelopment Method Bail, Sarge  
Bail, Air LiftPurging Equipment SS Bailed - AirWater Level Equipment SalinistpH/EC Meter Horiba US2Turbidity Meter Horiba US2Other XWell Number Solar Farm WellDate 11/7-11/8Time Start: 7:00 End: 2:00Client Basin GSAProject Salinas, CAJob Number D2232081.PInstallation Date 2Well Diameter 4"Borehole Diameter 10"Screen Length 50 ftMeasured Depth (pre-development) 1,013.70Measured Depth (post-development) 1,013.00Static Water Level (ft.) 78.42Standing Water Column (ft.) One Casing Volume (gal.) One Annulus Vol. (gal.) 

Time	Amount Purged (gal.)	Field Parameters Measured						GPM W/L	Comments	Field Tech.
		pH	EC	Turbidity	D.O.	Temperature	SAL			
		Bail- 75		cat						
		Sample Well 35		min						
		Bail- 60		cat						
	-	Air Lift		600 GAL	-					
		Secret air		Q 8:00 @ 20 GPM						
8:30	1,200	7.53	.600	94.3	-	22.54	.29	Air		
8:50	1,600	7.54	.590	71.8	-	22.35	.27			
9:10	2,000	7.55	.581	50.7	-	22.31	.27			
9:30	2,400	7.53	.569	41.3	-	22.25	.26			
9:50	2,800	7.54	.567	34.2	-	22.26	.27			

FINAL FIELD PARAMETER MEASUREMENTS



**All measurements taken from:**

☒ Top of Casing      ☐ Protective Casing      ☐ Ground Level

Sample ID \_\_\_\_\_

Qty. of Drilling Fluid Lost \_\_\_\_\_

Minimum Gal. to be Purged \_\_\_\_\_

Development Method	Roll, Swap
1. Requirements Gathering	1. Requirements Gathering
2. Analysis	2. Analysis
3. Design	3. Design
4. Implementation	4. Implementation
5. Testing	5. Testing
6. Deployment	6. Deployment
7. Maintenance	7. Maintenance

Purging Equipment SS Ball - 012

## Water Level Equipment

pH/EC Meter

Turbidity Meter 4023ba V52

Other \_\_\_\_\_ ✓

Well Number Solar From well

Date 11/7-11/8

Time Start: 7:00 End: 2:00

Client Boxing GS4

Project Sealing, ca

Job Number D2232081-P

Installation Date 9

Well Diameter

[illegible]

☒ Top of Casing      ☐ Protective Casing      ☐ Ground Level

Well Number: Road well

Date 11/8-11/87

Time Start: 730 End: 500

Client Bosin USA

Project celinas.ca

Job Number D7237081.P

Installation Date:

Well Diameter 48

**Borehole Diameter**

1

**Screen Length:**

Measured Depth (pre-development) 1,211.00

Measured Depth (post-development) 1,198.50

Static Water Level (ft.) 143.00

Standing Water Column (ft.)

One Casing Volume (gal.)

One Annulus Vol. (gal.) \_\_\_\_\_

Sample ID

Qty. of Drilling Fluid Lost

**Minimum Gal. to be Purged:**

### Development Method

Bail Air Lift -

Purging Equipment  
Boyle & ...

## Water Level Equipment

pH/EC Meter Horiza US2

### Turbidity Meter

Other

[illegible]



## MONITORING WELL DEVELOPMENT LOG

Page 2 of 2All measurements taken from: Top of Casing ☒ Top of Casing ☐ Ground LevelWell Number RedwellDate 11/10/23Time Start: 7:30 End: Client Project Job Number Installation Date 4Well Diameter 4Sample ID Qty. of Drilling Fluid Lost Minimum Gal. to be Purged Development Method Bail, SargeBail, Air LiftPurging Equipment Shaker - airWater Level Equipment SolinstpH/EC Meter Horiba 052Turbidity Meter Horiba 052Other Borehole Diameter 10"Screen Length 50 ftMeasured Depth (pre-development) Measured Depth (post-development) Static Water Level (ft.) Standing Water Column (ft.) One Casing Volume (gal.) One Annulus Vol. (gal.) 

Time	Amount Purged (gal.)	Field Parameters Measured						GPM W.L.	Comments	Field Tech.
		pH	EC	Turbidity	DO %	Temperature	SAL			
8:30	3,350	7.53	3.15	287	87.1	25.11	1.64	Air		
9:00	3,840	7.51	3.05	203	41.8	25.23	1.63			
9:30	4,290	7.54	3.10	143	100.3	25.80	1.64			
10:00	4,740	7.55	3.14	91.5	70.8	25.76	1.64			
10:10	4,800	7.57	3.11	60.3	76.1	25.48	1.64			
10:20	5,040	7.56	3.14	74.8	80.9	25.60	1.64			
10:30	5,190	7.54	3.02	53.7	81.7	25.71	1.65			
10:40	5,340	7.56	3.08	35.2	90.4	25.89	1.67			
10:50	5,400	7.55	3.10	23.8	86.1	25.74	1.65			
10:00	5,640	7.57	3.09	26.2	90.0	25.70	1.65			
FINAL FIELD PARAMETER MEASUREMENTS										
11:16	5,790	7.56	3.07	25.1	92.7	25.64	1.64			



ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA PROJECT #: D2232081.P DAY: WED DATE: 4/24/24  
JOB LOCATION: Gonzales, Ca. 38.514230, -121.468374 DA-2

Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.	TIME	
			Start	Stop
MMW-1	1,092.71	WELL DEVELOPMENT Pail + PARAMETERS	830	330
		GO STOP	530	1000
		MOB TO SITE	1000	630
		ON SITE	830	330
		MOB TO STOP	330	1030
		THROW SITE / 5.5 HR MOB		

TOTAL FEET DRILLED/GROUTED:

TOTAL HOURS: 12.5

EQUIPMENT / TOOLS			CASING / SAND / LINERS		MATERIALS		TOOLING	
DRILL RIG #	DV4	ITEM	SIZE	FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #		SCH 40 CASING			55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN			PORTLAND		DT22	
RENTAL EQUIPMENT	Restroom	SCH 80 CASING			READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN			RAPID SET		6" HSA	
PORTABLE RESTROOM		SS CASING			ASPHALT		8" HSA	
FORKLIFT/HOPPER		SS SCREEN			BENTONITE POWDER		10" HSA	
		SLIP CAPS			BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS			BENTONITE CHIPS		101 MM	
		LOCKING CAPS			BENTONITE PELLETS		134 MM	
LABOR								
NAME	SIGNATURE	HOURS	WOOD PLUGS		EZ MUD+		HQ	
Anthony Johnson		13.0	PP SCREEN		POLYTHIN		HWT/PQ	
			SAND		VISQUEEN		4x6 SONIC	
			SS LINERS		PLYWOOD		6x8 SONIC	
			LINER CAPS		BOLLARDS		8x10 SONIC	
			SHELBY TUBES		MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY			WELL BOX		DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT		DT32 LINERS	HYDROPUNCH
					1/4" TUBING		HP TIPS	
							VAPOR IMPLANTS	

NEAR MISSES/INCIDENTS:

DAMAGED EQUIPMENT:

REMARKS: Lunch 1200-1230

Client Signature: \_\_\_\_\_

Operator Signature:



## MONITORING WELL DEVELOPMENT LOG

Page \_\_\_\_\_ of \_\_\_\_\_

**All measurements taken from:**

☐ Protective Casing    ☐ Ground Level

**Sample ID** \_\_\_\_\_

 Qty. of Drilling Fluid Lost |

Minimum Gal. to be Purged

Development Method      One Case

Purging Equipment &amp; Ballast - 0-0

Water Level Equipment

4627ba US7

Turbidity Meter  
H02200 157

Other

Well Number DA2

Date 4-24-24

Time	Start:	End:
3:30	3:30	3:30

Client: Salinas Valley Autism DA-7

Project DWZ

Job Number: D222208102

Installation Date: 2

Well Diameter 4"[illegible]



ADDRESS: 950 Howe Road  
Martinez, CA 94553  
PHONE: (925) 313-5800

## DAILY FIELD BILL

CLIENT: GSA PROJECT #: D2232081.P DAY: THU DATE: 5/16/24  
JOB LOCATION: Salinas, Ca. 36.599212, -121.616937

Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Start time, Lunch Time, Down Time, End Time, time borings were started and finished etc.	TIME	
			Start	Stop
13W-1	97.65	WELL DEVELOPMENT	800	130
		Q SHOP	530	600
		MOB TO SITE	600	800
		ON SITE	800	130
		MOB TO SHOP	130	430

TOTAL FEET DRILLED/GROUTED:

TOTAL HOURS: 10.5

EQUIPMENT / TOOLS		CASING / SAND / LINERS		MATERIALS		TOOLING	
DRILL RIG #	DV4	ITEM	SIZE FT/QT	ITEM	QTY	ITEM	x
SUPPORT TRUCK #		SCH 40 CASING		55 GAL DRUMS		MACROCORE	
TRAILER #		SCH 40 SCREEN		PORTLAND		DT22	
RENTAL EQUIPMENT	25 K Generator	SCH 80 CASING		READYMIX		DT32	
CONCRETE CORES		SCH 80 SCREEN		RAPID SET		6" HSA	
PORTABLE RESTROOM		SS CASING		ASPHALT		8" HSA	
FORKLIFT/HOPPER		SS SCREEN		BENTONITE POWDER		10" HSA	
		SLIP CAPS		BENTONITE GRANULAR		12" HSA	
		BOTTOM CAPS		BENTONITE CHIPS		101 MM	
		LOCKING CAPS		BENTONITE PELLETS		134 MM	
LABOR		WOOD PLUGS		EZ MUD+		HQ	
NAME	SIGNATURE	HOURS	PP SCREEN	POLYTHIN		HWT/PQ	
Anthony Johnson	AT	11.0	SAND	VISQUEEN		4x6 SONIC	
			SS LINERS	PLYWOOD		6x8 SONIC	
			LINER CAPS	BOLLARDS		8x10 SONIC	
			SHELBY TUBES	MC LINERS		10x12 SONIC	
WELL/BORING SUMMARY		WELL BOX		DT22 LINERS		INJECTION	
WELL/BORING ID	DEPTH	SIZE	METHOD	QTY	MONUMENT	DT32 LINERS	HYDROPUNCH
					1/4" TUBING	HP TIPS	
						VAPOR IMPLANTS	

NEAR MISSES/INCIDENTS:

DAMAGED EQUIPMENT:

REMARKS: Lunch 1200 - 1230

Client Signature: \_\_\_\_\_

Operator Signature: 

# MONITORING WELL DEVELOPMENT LOG

**All measurements taken from:**

~~Top of Casing~~

☐ Protective Casing

☐ Ground Level

Well Number 153-1

Date 12/11/5

Time Start: 7:30 End:

Client 65A

Project Saltinas, CA

Job Number D2232081.P

Installation Date 2

Well Diameter 4"

Sample ID 2

Qty. of Drilling Fluid Lost 0

Minimum Gal. to be Purged 2105.254

Development Method Ball, Surax

Beal, pond

Purging Equipment SS Pallet. 2" pump

Water Level Equipment Solinst


PH/EC Meter 402-260-052

Turbidity Meter Horiba 2572

Other     

Time	Amount Purged (gal.)	Field Parameters Measured							Comments	Field Tech.
		pH	EC	Turbidity	D.O.	Temperature	SAL	GPM / $\frac{1}{1000}$ MGD		
		Bail - 30 GAC								
		Surge well 25 MIN								
		Bail, 25 GAC								
		Start PUMP @ 9:33 @ 17 GPM								
		9:33 - 9:53 WORK PUMP THROUGH SCREEN							6PM	W.L.
		MOVE PUMP TO MID SCREEN							↓	↓
16:00	452.11	6.66	2.16	33.4	5.98	17.10	1.10	17.53	58.73	
10:10	635.58	6.53	2.15	20.1	4.76	17.15	1.10	17.50	58.84	
10:20	810.68	6.44	2.13	16.3	4.14	17.18	1.09	17.51	58.71	
10:30	985.98	6.03	2.13	14.5	4.03	17.16	1.08	17.53	58.68	
10:40	1161.18	6.65	2.14	10.8	4.05	17.15	1.08	17.52	58.70	

## FINAL FIELD PARAMETER MEASUREMENTS

 Ground Level

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Other

## FINAL FIELD PARAMETER MEASUREMENTS





# City of Salinas

DEVELOPMENT ENGINEERING (PW) • 65 West Alisal Street • Salinas,

Phone: (831) 758-7251 • www.cityofsalinas.org



## ENCROACHMENT PERMIT & APPLICATION

### CITY USE ONLY

PERMIT NO.: ENC23-0564 ISSUE DATE: 09/13/2023 EXPIRATION DATE: 03/13/2024

☐ PUBLIC IMPROVEMENT PLANS ☐ 50/50 PROGRAM ☐ FIBER ☐ SMALL CELL (LUMINAIRE) ☐ SMALL CELL (PRIVATE POLE)

☐ CONSTRUCTION – PRIVATE FACILITIES ☐ CONSTRUCTION – PUBLIC FACILITIES ☐ REVISION PERMIT #: \_\_\_\_\_ ☐ OTHER: \_\_\_\_\_

### APPLICANT INFORMATION: Complete all fields

NAME: Rich Reynolds EMAIL: rreynolds@greggdrilling.com  
MAILING ADDRESS: 2100 Goodyear Rd PHONE: (925) 313-5800  
Benicia CA 94510 CELL: (925) 313-5800  
PROJECT LOCATION: Off of S. Davis Rd at 36.647367, -121.702213  
PROJECT DESCRIPTION: Drilling a monitoring well  
(Include duration) 4-WEEKS

### CONTRACTOR INFORMATION: Complete all fields

CONTRACTOR NAME: Gregg Drilling, LLC EMAIL: rreynolds@greggdrilling.com  
ADDRESS: 2100 Goodyear Rd PHONE: (925) 313-5800  
Benicia CA 94510 ONSITE CONTACT NO.: \_\_\_\_\_  
CONTRACTOR LICENSE: 1044456 EXPIRATION DATE: 09/30/2024 TYPE: A ☐ B ☐ C-57  
CITY BUSINESS LICENSE: FINBL23-00451 EXPIRATION DATE: 08/29/2023

### ENCROACHMENT TYPE:

CHECK AND COMPLETE ALL APPLICABLE FIELDS

### INSPECTIONS REQUIRED:

CITY USE ONLY

DATE:

INITIALS:

<input type="checkbox"/> UTILITIES (LF)	<input type="checkbox"/> PRE-CONSTRUCTION MEETING		
<input type="checkbox"/> SIDEWALK (SF)	<input type="checkbox"/> TRAFFIC CONTROL		
<input type="checkbox"/> CURB & GUTTER (LF)	<input type="checkbox"/> BASE/SUBGRADE		
<input type="checkbox"/> ADA RAMP (EA)	<input type="checkbox"/> FORMS/REBAR		
<input type="checkbox"/> DRIVEWAY APPROACH (EA)	<input type="checkbox"/> UTILITIES		
<input type="checkbox"/> LANE CLOSURE (LF)	<input type="checkbox"/> SIGNS/STRIPING		
<input type="checkbox"/> PARKING SPACE CLOSURE (EA)	<input type="checkbox"/> LANDSCAPING/IRRIGATION		
<input type="checkbox"/> FIBER (LF)/SMALL CELL (EA)	<input type="checkbox"/> ASPHALT/CONCRETE		
<input checked="" type="checkbox"/> OTHER: <u>in dirt, off rd x 80'</u>	<input type="checkbox"/> FINAL INSPECTION		

\* INSPECTION SHALL BE REQUESTED 24 HOURS PRIOR TO COMMENCEMENT OF WORK.

\* EMAIL [ENCROACHMENT@CI.SALINAS.CA.US](mailto:ENCROACHMENT@CI.SALINAS.CA.US) TO SCHEDULE INSPECTIONS.

\* UNINSPECTED WORK WILL RESULT IN A CITATION AND IS SUBJECT TO BEING REJECTED.

### ACKNOWLEDGEMENT & SIGNATURE

I understand the State of California Contractors License Requirements.

I have read the General Conditions attached to this application and will comply with them, any special conditions, and all provisions of the City of Salinas Municipal Code. Note: Applicant must sign and submit Page 5 of Permit Conditions.

Rich Reynolds

CONTRACTOR/UTILITY  
REPRESENTATIVE NAME

[Signature]  
SIGNATURE

8/28/2023

DATE

5. **Emergency Work.** A permit for emergency work shall be secured no later than five (5) business days following commencement of the emergency work. All emergency shall require the Permittee/Contractor to notify the City prior to commencement of emergency work by emailing [encroachment@ci.salinas.ca.us](mailto:encroachment@ci.salinas.ca.us).
6. **Unknown Underground Facility.** If an unknown underground facility is encountered, work shall cease immediately, and both the City Engineer and the utility believed to own the facility shall be notified. Work shall not proceed until permit is granted by the City Engineer.
7. **Posting.** The Permittee must keep the signed permit at the worksite or on the premises of the encroachment at all times.
8. **Emergency Call-out.** A Permittee shall provide a twenty-four (24) hour emergency telephone number on the application and shall display its company name and emergency telephone number on its barricades. Failure to respond to an incident promptly shall require corrective measures by the City, the cost of which shall be borne by the Permittee.
9. **Standards.** Work shall be constructed in accordance with applicable ordinances, codes, and City of Salinas Standards. A copy of the City of Salinas Standards can be acquired at the following link: [https://www.cityofsalinas.org/sites/default/files/departments\\_files/public\\_works\\_files/2008citystandards.pdf](https://www.cityofsalinas.org/sites/default/files/departments_files/public_works_files/2008citystandards.pdf).
10. **Access.** The Permittee shall provide access to all areas in the vicinity of the encroachment and shall provide necessary temporary sidewalk and warning signs.
11. **Public Safety.** The Permittee shall furnish, erect, and maintain barricades, lights, signs, flagmen, fencing, and other safety measures to give adequate protection to the public at all times. Failure of the Permittee to set required warning devices may result in a project shutdown, citation(s) and charges to the Permittee for costs incurred by the City.
12. **Site Maintenance.** Work areas shall be maintained in a neat, clean and safe condition at all times. Debris shall be removed daily. The site shall be treated for dust control as necessary. Dirt tracked from the work site shall be cleaned from City streets, curbs, gutters, and sidewalks. The flushing of dirt and debris to storm drain or sanitary sewer facilities is strictly prohibited. The Permittee shall employ construction practices that will prevent pollutants such as mud, silt, chemical residue, and washings from concrete and saw cutting from entering storm drains. The site shall be properly secured during non-work hours.
13. **Travel Lane & Sidewalk Closures.** The Permittee shall assure that all City streets, travel lanes, and sidewalks remain open at all times, unless a traffic control plan has been approved in advance by the City Engineer or his or her representative. A traffic control plan shall be submitted to the City Engineer or his or her representative for review and approval with Encroachment Permit Application.  
  
Depending on project scope and site conditions, traffic control plans may need to be prepared by a California-licensed Traffic Control Firm. Traffic control plans must follow the current edition of the California Manual on Uniform Traffic Control Devices (CA MUTCD). Plans must be specific to the project site and conditions and phased, as appropriate, to the address construction of project improvements. Sample plans are not allowed.  
  
City approval of the traffic control plan must precede notification of any closures. The City Engineer shall be notified of closure dates and duration at least five (5) working days in advance of proposed closure.
14. **Work Hours.** All work in the public right-of-way is restricted to non-holiday weekdays 8:00 AM to 4:00 PM except as noted in Special Conditions of Approval or Construction Guidelines for Continuing Encroachment Installations, if applicable. Work is not allowed on weekends and City holidays.



- 15. Excavations.** All trenches created in existing pavement shall be neatly saw cut. Trench spoils shall be removed from the job site. Backfill shall consist of sand or approved granular material compacted to ninety-five percent (95%) Relative Compaction. Excavations within the public right-of-way shall be backfilled, compacted, and temporarily paved with cold mix "cut back" type A.C. prior to 4:00 PM to allow for vehicular and pedestrian traffic. The use of non-skid trench plates is allowed, provided the Contractor covers all the edges of the plates with cold mix material. It shall be the Permittee's and the Contractor's responsibility to maintain on a daily basis, including weekends and holidays, the amount of material necessary to maintain the trench surface flush with the existing street or sidewalk. In addition, the Contractor shall respond to and correct shifting trench plates regardless of the time of day. If Contractor fails to correct sinking backfill material or shifting trench plates in a timely manner, City reserves the right to correct the problem at the expense of the Contractor. All trenches shall be fully restored within thirty (30) days of first street cut.
- 16. Vehicle & Pedestrian Traffic.** The Permittee shall follow Caltrans standards for traffic control. The parking of any construction-related vehicles or storage of any material is not allowed on a public street or sidewalk unless approved in advance by the City Engineer.
- 17. Construction Staging Areas.** Proposed locations of construction staging areas shall be approved by the City Engineer. Any construction staging area proposed outside of the public right-of-way shall be disallowed unless the Permittee has secured the prior written approval of the property owner. Any construction staging proposed on public lands shall require a license agreement from the City.
- 18. Street Cuts.** No street pavement shall be cut unless specifically approved in writing pursuant to an Encroachment Permit. Trench restoration shall be according to the City of Salinas Standards, except as modified by additional Special Conditions of Approval or a design by a licensed civil engineer approved by the City Engineer. The Permittee shall use boring and jacking as an alternative to open cut of streets if required by the City Engineer.
- 19. Hazardous Materials.** The Permittee is responsible for satisfying all applicable procedures and regulations in the event hazardous materials are encountered. This includes notification to emergency phone number 911.
- 20. Monument Preservation.** Any City monument damaged, displaced, or destroyed by Permittee's work shall be replaced by a State of California licensed land surveyor at Permittee's sole expense. Location of any conflicting monuments shall be tied out prior to start of work.
- 21. Removal of Markings.** All sidewalk and/or pavement markings painted by Underground Services Alert (USA), utility companies, or Permittee shall be removed to the satisfaction of the City Engineer with ten (10) working days after completion of construction.
- 22. Traffic Striping and Pavement Markings.** Any traffic striping and/or pavement markings damaged or destroyed by Permittee's work shall be replaced by Permittee to the satisfaction of the Traffic Engineer at Permittee's sole expense.
- 23. Other Regulations.** It is the Permittee's responsibility to comply with all City laws and regulations and to obtain all necessary permits. Such laws, regulations, and permits include, but are not limited to, the City Business License, Americans with Disabilities Act (ADA) and Division of Occupations Safety & Health Standards.
- 24. City License.** Contractors and Subcontractors must obtain a City of Salinas Business License.
- 25. Contractor License.** Contractors and Subcontractors must provide valid contractor license issued by the Contractors State License Board. Contractors may only execute work within their licensing classifications.

- 26. Bonding.** Any project requiring a Public Improvement Plan shall be responsible for furnishing a performance bond to be executed in the face amount of not less than one hundred fifty percent (150%) of the total construction cost.
- 27. As-Built.** Permittee shall provide as-built drawings showing any improvements or changes to city owned facilities.
- 28. Insurance.** The Permittee is responsible of furnishing a Certificate of Insurance with proper endorsements. Proof of liability insurance in the amount of \$1,000,000 naming the City of Salinas with endorsement sheets attached is required.
- 29. Indemnification.** To the fullest extent permitted by law, Permittee shall defend through counsel approved by City, indemnify, and hold harmless the City of Salinas, its officers, officials, representatives, agents, employees, and volunteers against any and all suits, damages, costs, fee, claims, demands, cause of action, losses, liabilities and expenses, including without limitation attorneys' fees, to the extent arising or resulting directly or indirectly from any act, errors or omissions of Permittee or Permittee's assistants, employees or agents, including all claims relating to the injury or death of any person or damage to any property.
- 30. Permit Commencement and Duration.** This permit is valid for the six (6) months from the date of issuance unless stated otherwise in the Special Conditions of Approval. This Permit will become void if work has not begun within ninety (90) days from date of issuance. Final inspection and acceptance of work shall close this Permit.
- 31. Time Extension.** If the expiration date stated on the permit will be exceeded, an extension request must be sent to [encroachment@ci.salinas.ca.us](mailto:encroachment@ci.salinas.ca.us) and approved by the City Engineer prior to the expiration date. The new work schedule shall be indicated on the request. Permit extensions will be limited to no more than two (2), one (1) month extensions from the original expiration date.
- 32. One-Year Warranty.** The Permittee shall assume a one (1) year warranty period from the date of acceptance for all material and workmanship for all work performed under this Permit in the City right-of-way. Between thirty (30) and forty-five (45) days after notice of completion, the Permittee shall check for trench settlement and make necessary adjustment, if any, and then call for an inspection. Permittee shall be released one (1) year after completion notice from all requirements to maintain trench pavement and patches when all permit conditions, including but not limited to required inspections, have been met.
- 33. Acceptance.** The Permittee's acceptance of this Permit shall constitute acceptance of and agreement to all of the conditions and requirements of this Permit and the ordinance authorizing issuance of such permit. Permittee's acceptance of this Permit acknowledges that is revocable by the City of Salinas, and that upon notification of revocation Permittee shall remove the encroachment at Permittee's own expense, without cost or obligation to the City. The Permittee acknowledges that the Permittee is subject to, and must comply with, all applicable sections of the City Municipal Code.



## SPECIAL CONDITIONS OF APPROVAL

- A. Design and construction of the encroachment that is the subject of this Permit shall be coordinated with the City of Salinas and all utilities having jurisdiction.
- B. Master Plan and Schedule of Work shall be updated weekly.
- C. Work site(s) shall have full-time Site Superintendence.
- D. 24-hour emergency phone numbers shall be updated as changes occur.
- E. Method of trench restoration shall be approved in advance of permit and shall be made an attachment to the permit.

*The following to be completed by Public Works staff, as necessary.*

- F. A preconstruction meeting is required. Email [encroachment@ci.salinas.ca.us](mailto:encroachment@ci.salinas.ca.us) to schedule the precon 48 hrs in advance.

G. \_\_\_\_\_

H. \_\_\_\_\_

I. \_\_\_\_\_

## APPLICANT ACKNOWLEDGEMENT & SIGNATURE

Signature of Permittee or Authorized Representative accepting General Conditions of Approval:

Rich Reynolds

Manager

08/29/2024

Print Name

Title

Date

Signature

Gregg Drilling, LLC 2100 Goodyear Rd. Benicua, CA 94570

Representing (Name and Address)

Note: Applicant must also sign Encroachment Permit application.

### CITY USE ONLY

Permit No.: ENC23-0564

Issue Date: 09/13/2023

Expiration Date: 03/13/2024

# MONTEREY COUNTY HEALTH DEPARTMENT

Environmental Health Bureau  
Drinking Water Protection Services

DA-1

1270 Natividad Road, Salinas, CA 93906  
Phone: (831)755-4507 Fax: (831)796-8691

## APPLICATION TO CONSTRUCT: WATER WELL, MONITORING WELL, BOREHOLE, CATHODIC PROTECTION WELL, INJECTION WELL OR GEOTHERMAL WELLS

Estimated Work: Start 11/01/2023 Finish 3/01/2023 Receive Permit by: ☐ - Mail ☒ - E-Mail ☐ - Pick Up

<b>Property Owner:</b>			
Name/Title:		<u>City of Salinas</u>	
Mailing Address:			
City:		Zip:	
Phone:			
E-Mail:			
<b>Applicant-if different from Property Owner:</b>			
Name/Title:		<u>Rich Reynolds - Manager</u>	
Mailing Address:		<u>2100 Goodyear Rd</u>	
City:		<u>Benicia, CA</u> Zip: <u>94510</u>	
Phone:		<u>925 313 5800</u>	
E-Mail:		<u>rreynolds@greggdrilling.com</u>	
<b>Contractor:</b>			
Company:		<u>Gregg Drilling, LLC</u>	
Contact:		<u>Rich Reynolds</u>	
Mailing Address:		<u>2100 Goodyear Rd</u>	
City:		<u>Benicia</u> Zip: <u>94510</u>	
Phone:		<u>925 313 5800</u> C-57 License: <u>1044456</u>	
E-Mail:		<u>rreynolds@greggdrilling.com</u>	
<b>Proposed Site:</b>			
Site Address:		<u>S. Davis Rd.</u>	
City:		<u>Salinas</u> Zip: <u></u>	
APN:		<u>207201001000</u> Acres: <u></u>	
GPS Coordinates:		<u>36.6474, -121.50251</u>	

Site Preparation: Any grading required (leveling, pit, road, containment area, etc.?) ☒ -No  
☐ -Yes: (Describe): \_\_\_\_\_

**Intended Use:**

☐ - Agricultural Irrigation      ☐ - Residential Irrigation (no domestic use)      ☐ - Domestic/Single Connection  
☐ - Domestic/Multiple Connection: # of connections: \_\_\_\_\_ Name of system: \_\_\_\_\_  
☐ - Geothermal    ☐ - Cathodic Protection    ☒ - Monitoring    ☐ - Industrial    ☐ - Injection    ☐ - Stock    ☐ - Test (borehole)\*

GPM needed: N/A Associated PLN/BP: \_\_\_\_\_

Replacement Well: ☒ - No      Emergency Well: ☐ - Yes    ☒ - No  
☐ - Yes: If yes, Reason for Replacement/Emergency? \_\_\_\_\_

Must complete Emergency Supplemental Emergency Application.

Monterey County GSA areas ☒ - Yes    ☐ - No    If yes which area (see below top of page 2 for area)

Total number of wells on property: \_\_\_\_\_ Number of wells in use? \_\_\_\_\_ Inactive? \_\_\_\_\_ Abandoned? \_\_\_\_\_

-----M. C. H. D. -E. H. B. OFFICE USE ONLY-----			
Date:	<u>/</u> <u>/</u>	Record ID:	Received by:
Check #:		Amount:	Invoice #:



## GSA SUBBASIN

DA 1

☒ 180/400 ☐ Monterey ☐ Langley ☐ Eastside ☐ Forebay ☐ Upper Valley ☐ PVWMA

☐ Marina Coast ☐ Arroyo Seco ☐ MPWMD
Site Address: S. Davis RdAPN: 207 201 001 000

Distance to nearest: Property line 80 ft. Existing well N/A ft. Leach line N/A ft. Seepage pit N/A ft. Septic tank N/A ft.  
 Sewer lines, mains, or laterals N/A ft. fuel tank N/A ft. ☐ - above ☐ - below ground Animal encl. N/A ft.

Type of Onsite Waste Disposal: Sewer N/A Leach field N/A Seepage pit N/A

A map containing the following information **must accompany** this application: Written directions to the proposed site; nearest crossroad, arrow indicating north; property lines; distance from proposed well to property lines; location of other wells on property; location of septic tanks, seepage pits and leach lines on property and within 150 feet of well site. Additionally, an aerial photo of the property indicating the proposed location and photos of well site is requested. If an inadequate map is provided and a second well site field visit is required, a charge at the currently hourly rate may be required for the additional site visit. **Flag the precise site location of the proposed well with a surveyor's stake with the words "Proposed Well."**

## PROPOSED DESIGN/CONSTRUCTION FEATURES:

Type of well construction: ☒ - Mud Rotary ☐ - Reverse Rotary ☐ - Air ☐ - Cable Tool ☐ - Other: \_\_\_\_\_  
☐ - Geothermal ☐ - Cathodic Protection

Conductor casing: To be installed? None If yes, Length \_\_\_\_\_ ft. Diameter \_\_\_\_\_ in. Thickness \_\_\_\_\_ in.  
 Bore hole diameter \_\_\_\_\_ in. Seal width \*\* \_\_\_\_\_ in. Seal Depth \_\_\_\_\_ ft

Production casing: ( ) - Standard or ( ) - line pipe ☐ - Structural Steel ☐ - Thermoplastics: type \_\_\_\_\_ ☒ - Thermoset Plastic  
 Seal Depth 1320 ft Borehole Depth 1400 ft Casing Depth 1400 ft  
 Diameter 4.5 in. ☒ - Single ☐ - Double Type of joint F 480  
 Bore hole diameter 9 7/8 in. Seal Width\*\* 2.68 in. Type/method of centralizing stainless band  
 \*\*Minimum of 3" for public water system wells, minimum of 2" for all others

Logging to be used: ☒ - Electric ☒ - Caliper ☐ - Fluid movement ☐ - Geologic ☐ - Other: \_\_\_\_\_

Proposed Seal: Material	Volume	Length	Location
<u>10.3 Sand Slurry</u>	<u>20.2</u> cu. yds.	<u>1320</u> ft	<u>0</u> to <u>1320</u> ft.
	_____ cu. yds.	_____ ft	_____ to _____ ft.

Proposed location of perforations or screens: 1340 to 1390 ft. ✓ to ✓ ft. ✓ to ✓ ft.

Concrete pump base: Length 48 in. Width 48 in. Thickness 4 in.

I hereby agree to comply with all conditions, laws and regulations of the County of Monterey and the State of California pertaining to well construction. I understand approval of a well permit does not indicate whether this property is suitable for an individual sewage disposal system or that a permit to install such a system is granted. I understand fees submitted with this application are non-refundable. I hereby agree to indemnify and hold harmless the County and its officers, agents and employees from actions or claims of any description brought on account of any injury or damages sustained, by any person or property resulting from the issuance of the permit and the conduct of the activities authorized under requested permit.

Additionally, I understand submitting an incomplete application will delay the processing of my permit.

SIGNATURE OF PROPERTY OWNER\*\*\*:

\_\_\_\_\_  
 Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Print \_\_\_\_\_

SIGNATURE OF APPLICANT-IF DIFFERENT FROM PROPERTY OWNER:

\_\_\_\_\_  
 Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Print \_\_\_\_\_

SIGNATURE OF CONTRACTOR:

[Signature] Date: 07/25/23 Print Tim Boyd

\*\*\*If signed by authorized representative instead of owner, submit proof of authorization

## Salinas Valley Basin GSA Location DA-1 Directions

Travel East on Reservation Rd from Hwy 1 approx 6.6 miles. Make left on to S. Davis Rd for 0.47 miles. Turn left for 70' into solar field and left again past gate. Go 70' to location.

---



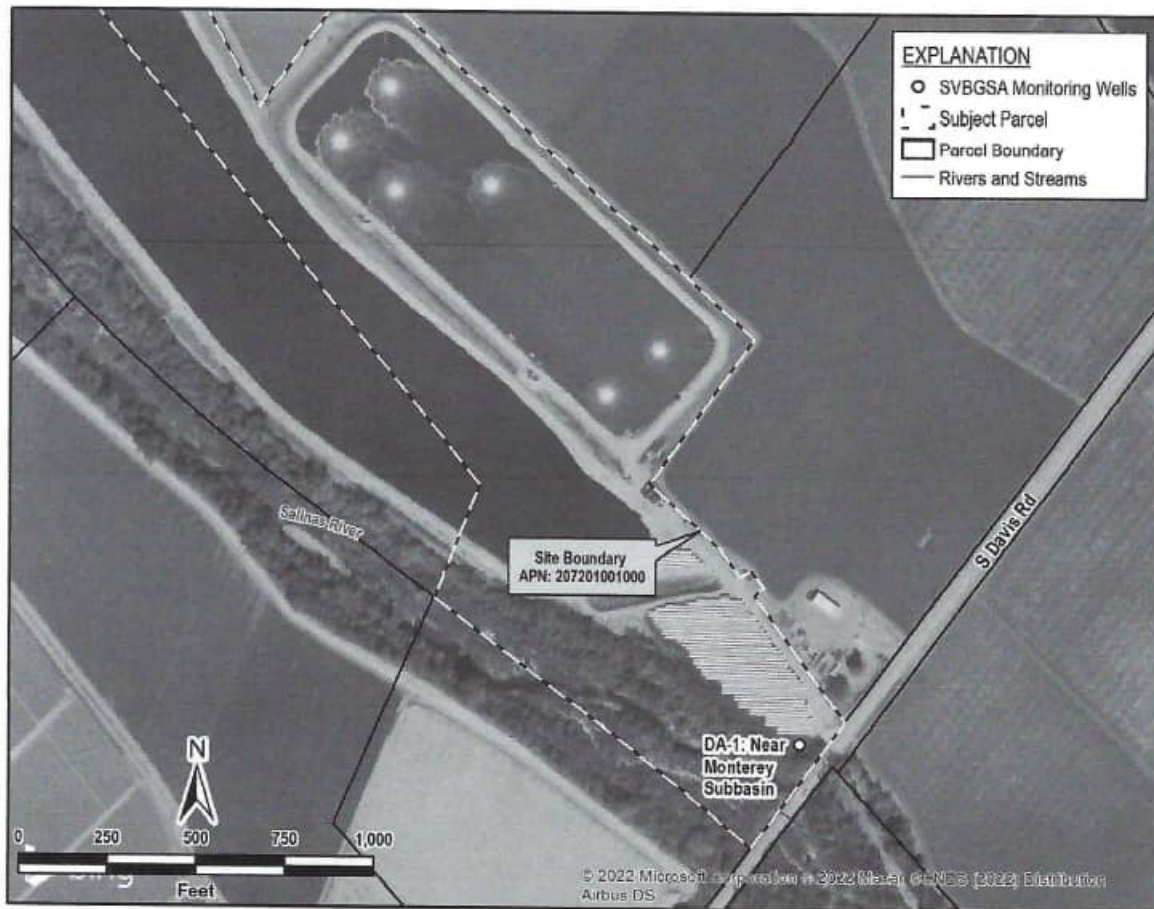


Figure 2. DA-1 Site Location

MONTEREY COUNTY HEALTH DEPARTMENT  
DIVISION OF ENVIRONMENTAL HEALTH  
A CERTIFIED UNIFIED PROGRAM AGENCY

• 1270 Natividad Road, Salinas, CA 93906  
Office: (831) 755-4511 • Fax: (831) 796-8698



## Monitoring Well Permit

**PERMIT NO: HZ-000037/2023 MW: 1**

(MCEH use only: SEA24-000037, IN1192845)

☒ - MONITORING WELL

☒ - CONSTRUCTION

☐ - VAPOR EXTRACTION WELL

☐ - DESTRUCTION

**SITE LOCATION ADDRESS: DAVIS RD SALINAS CA (apn 207201001000)**

**APN #: 207-201-001-000**

<b>SITE CONTACT PERSON AND ADDRESS:</b> RICH REYNOLDS 21 GOOD YEAR RD BENICIA, CA 94510  <b>PHONE:</b> (925) 313-5800 <b>E-Mail:</b> RREYNOLDS@GREGGDRILLING.COM	<b>OWNER NAME AND ADDRESS:</b> CITY OF SALINAS  <b>PHONE:</b> (     )     -
<b>CONSULTANT NAME AND ADDRESS:</b> RICH REYNOLDS 21 GOOD YEAR RD BENICIA, CA 94510  <b>PHONE:</b> (925) 313-5800	<b>DRILLER NAME AND ADDRESS:</b> GREGG DRILLING LLC 21 GOOD YEAR RD BENICIA, CA 94510  <b>PHONE:</b> (925) 313-5800 <b>LICENSE #:</b> C-57 1044456

### CONDITIONS:

**SITE PLAN SHALL BE TO SCALE.**

**NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.**

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 2/22/23**

**EXPIRATION DATE: 2/22/24**

ISSUED BY:

Roger Van Horn, REHS IV  
Supervisor DWPS/Well Program

☒ Approved: Rev. 10/26/21 TM

**ACORD**<sup>TM</sup>**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

9/05/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> <b>USI Insurance Services NW CL</b> <b>601 Union Street, Suite 1000</b> <b>Seattle, WA 98101</b>	<b>CONTACT NAME:</b> Lori Stark, MLIS, CRIS, CISR <b>PHONE (A/C, No, Ext):</b> 206 441-6300 <b>FAX (A/C, No):</b> 610-362-8530 <b>E-MAIL ADDRESS:</b> Lori.Stark@usi.com														
<b>INSURED</b> <b>Gregg Drilling, LLC</b> <b>2100 Goodyear Rd</b> <b>Benicia, CA 94510</b>	<table border="1"> <thead> <tr> <th data-bbox="816 426 1437 451">INSURER(S) AFFORDING COVERAGE</th> <th data-bbox="1437 426 1572 451">NAIC #</th> </tr> </thead> <tbody> <tr> <td data-bbox="816 451 1437 478"><b>INSURER A : Zurich American Insurance Company</b></td> <td data-bbox="1437 451 1572 478"><b>16535</b></td> </tr> <tr> <td data-bbox="816 478 1437 506"><b>INSURER B : American Guarantee &amp; Liability Ins Co.</b></td> <td data-bbox="1437 478 1572 506"><b>26247</b></td> </tr> <tr> <td data-bbox="816 506 1437 533"><b>INSURER C : Steadfast Insurance Company</b></td> <td data-bbox="1437 506 1572 533"><b>26387</b></td> </tr> <tr> <td data-bbox="816 533 1437 560"><b>INSURER D :</b></td> <td data-bbox="1437 533 1572 560"></td> </tr> <tr> <td data-bbox="816 560 1437 588"><b>INSURER E :</b></td> <td data-bbox="1437 560 1572 588"></td> </tr> <tr> <td data-bbox="816 588 1437 615"><b>INSURER F :</b></td> <td data-bbox="1437 588 1572 615"></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	<b>INSURER A : Zurich American Insurance Company</b>	<b>16535</b>	<b>INSURER B : American Guarantee &amp; Liability Ins Co.</b>	<b>26247</b>	<b>INSURER C : Steadfast Insurance Company</b>	<b>26387</b>	<b>INSURER D :</b>		<b>INSURER E :</b>		<b>INSURER F :</b>	
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<b>INSURER E :</b>															
<b>INSURER F :</b>															

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> <b>BI/PD Ded:25000</b> GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X	X	GLO552517011	07/01/2023	07/01/2024	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$500,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
B	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BAP926750613	07/01/2023	07/01/2024	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10000	X	X	SXS329280302	07/01/2023	07/01/2024	EACH OCCURRENCE \$10,000,000 AGGREGATE \$10,000,000 \$
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		X	WC926749113	07/01/2023	07/01/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
C	<b>Professional Liab</b>	X	X	PEC667250504	07/01/2023	07/01/2024	10,000,000 Limit & Agg
C	<b>Pollution Liab</b>	X	X	PEC667250504	07/01/2023	07/01/2024	10,000,000 Limit & Agg

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

City of Salinas is included as an Additional Insured with regards to General Liability and Auto Liability when required by written contract, agreement or permit.

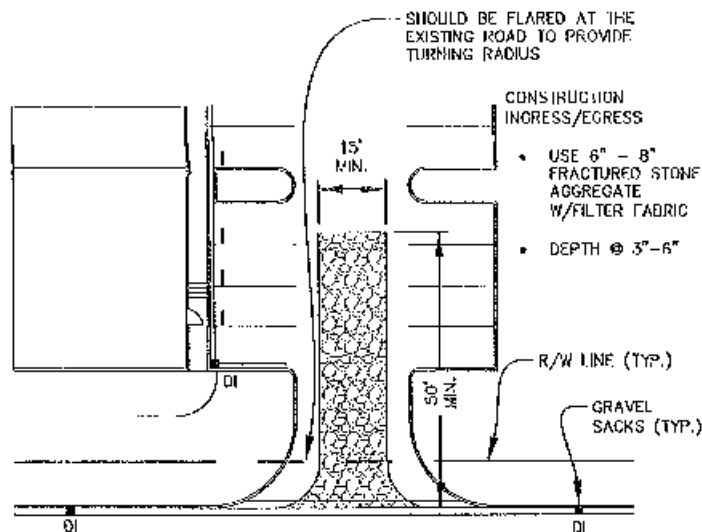
**CERTIFICATE HOLDER****CANCELLATION**

City of Salinas  
 Attn: Development & Permit  
 Services Dept  
 65 W Alisal St  
 Salinas, CA 93901-0000

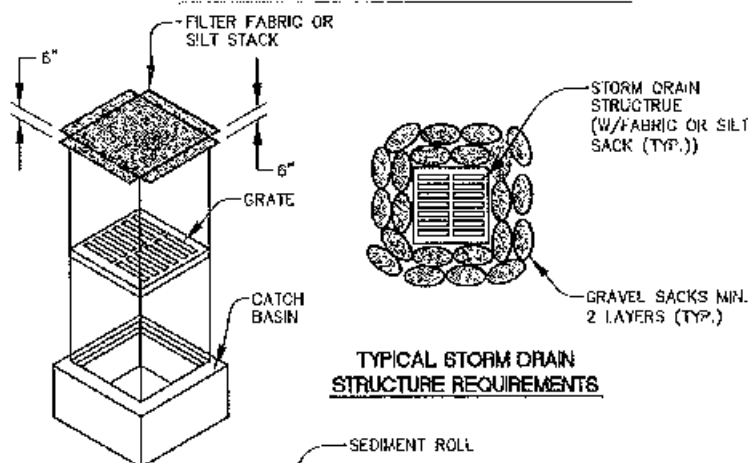
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

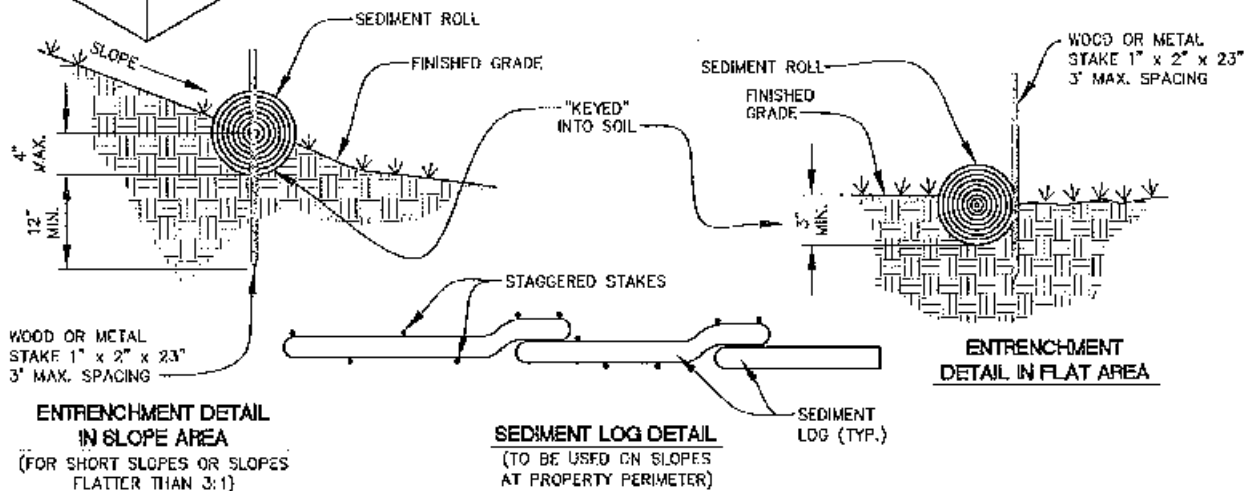




**TYPICAL CONSTRUCTION ENTRY REQUIREMENT**



**TYPICAL STORM DRAIN STRUCTURE REQUIREMENTS**



## GENERAL NOTE

1. DRAWING NOT TO SCALE.
2. GRAVEL BAGS SHALL BE USED ON ALL DRAINAGE INLETS; ON-SITE TOP OPENINGS AND SIDE OPENINGS.
3. GRAVEL BAGS SHALL BE USED ON ALL DRAINAGE INLETS WITHIN THE CITY OF SALINAS RIGHT-OF-WAY IMPACTED BY THE PROJECT (DOWN STREAM INLETS AND FIRST INLET UP STREAM)
4. PLACE TYPE I BARRICADE OVER DRAINAGE INLET WHEN FILTER FABRIC AND GRAVEL SACKS ARE UTILIZED.
5. INSPECT (AND DOCUMENT EACH INSPECTION) ALL INLET PROTECTION DEVICES BEFORE AND AFTER RAINFALL EVENTS, AND WEEKLY THROUGHOUT RAINY SEASON, DURING EXTENDED RAINFALL EVENTS, INSPECT INLET PROTECTION DEVICES AT LEAST ONCE EVERY 24 HOURS.
6. REMOVE ALL INLET PROTECTION DEVICES WITHIN 30 CALENDAR DAYS AFTER THE SITE IS STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER REQUIRED.
7. PRIOR TO ROLL INSTALLATION, CONTOUR A CONCAVE KEY TRENCH 3" MINIMUM TO 4" MAXIMUM DEEP ALONG THE PROPOSED INSTALLATION ROUTE.
8. SOIL EXCAVATED IN TRENCHING SHOULD BE PLACED ON THE UPHILL OR FLOW SIDE OF THE ROLL TO PREVENT WATER FROM UNDER CUTTING THE ROLL.
9. PLACE SEDIMENT ROLL INTO KEY TRENCH AND STAKE ON BOTH SIDES OF THE ROLL TO WITHIN 3' OF EACH END AND THEN EVERY 3' WITH 1" x 2" x 23" WOOD OR METAL STAKES.
10. STAKES ARE TYPICALLY DRIVEN IN ON ALTERNATING SIDES OF THE ROLL WHEN MORE THAN ONE SEDIMENT ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED 12" MIN. TO PROVIDE A TIGHT JOIN, NOT ABUTTED TO ONE ANOTHER.

## DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT

ENGINEERING SERVICES DIVISION

CITY OF SALINAS

TITLE: **BEST MANAGEMENT PRACTICES**

STANDARD PLAN

DESIGNED BY:  
STAFF

DATE 10/21/2008

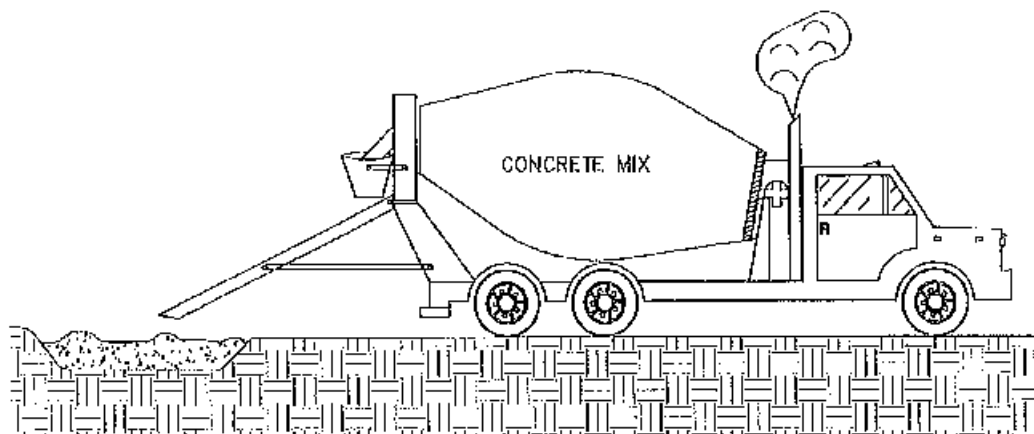
CADD BY:  
STAFF

PROJECT MANAGER:  
FRANK A. AGUIAO, P.E.

ROBERT C. RUSSELL, CITY ENGINEER  
R.C.E. 42671, EXPIRES 3-31-2010



**59A**



NOT TO SCALE

#### DESCRIPTION

PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

#### APPROACH

THE FOLLOWING STEPS SHALL HELP REDUCE STORM WATER POLLUTION FROM CONCRETE WASTES:

- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
- FOR ON-SITE WASHOUT:
  - LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
  - WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER TO A BERMED OR LEVEL AREA.
- DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCK PILE, OR DISPOSE IN THE TRASH.

#### DEVELOPMENT & ENGINEERING SERVICES DEPARTMENT

ENGINEERING SERVICES DIVISION

CITY OF SALINAS

TITLE: **CONCRETE WASTE WASHOUT MANAGEMENT PLAN**

STANDARD PLAN

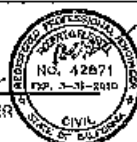
DESIGNED BY:  
STAFF

DATE 10/21/2008

CADD BY:  
STAFF

PROJECT MANAGER:  
FRANK A. AGUAYO, P.E.

ROBERT C. RUSSELL, CITY ENGINEER  
R.C.E. 42671, EXPIRES 3-31-2010



**59B**





# COUNTY OF MONTEREY

HOUSING & COMMUNITY DEVELOPMENT - ENGINEERING SERVICES

1441 Schilling Place, 2nd Floor-South, Salinas, CA 93901

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## ENCROACHMENT PERMIT 23EP0374

Notify the Department of Housing & Community Development - Engineering Services at least 48 hours prior to starting any permit work, excluding weekends and legal holidays. Contact by phone by calling 831-755-5025 or by email at [encroachment@co.monterey.ca.us](mailto:encroachment@co.monterey.ca.us)

**APPLICATION DATE:** 09/07/2023 **DISTRICT:** 1-San Miguel

**PERMIT ISSUE DATE:** 09/29/2023 **ASSOCIATED CONSTRUCTION PERMIT:**

**PARCEL NO. (if any):** 133-411-007-000 **UTILITY WORK ORDER:**

**PROJECT ADDRESS:** 14825 BLACKIE RD, SALINAS, CA 93907

**LOCATION DESCRIPTION:**

**PERMITTEE:** Rich Reynolds

**ORGANIZATION:** Gregg Drilling & Testing

**PERMITTEE ADDRESS:** 2726 Walnut Ave, Signal Hill, CA 90755

**PERMITTEE PHONE:**

**PERMITTEE EMAIL:** rreynolds@greggdrilling.com

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In compliance with your request and subject to the existing County Encroachment Ordinance, and to all other terms, conditions, and restrictions written below, printed on or attached to any part of this permit, Permission is hereby granted to:

*Gregg Drilling & Testing to drill in various locations along the shoulder fronting 14825 Blackie Road per attached traffic control plan and the Salinas Valley Basin GSA project. Shoulder closure per traffic control plan provided. Project duration will be 4 months, nonconsecutive days, during normal business hours.*

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In order for this encroachment permit to be acknowledged as complete, work shall be in accordance with the above mentioned plan, all pertinent sections of Chapter 14.04 of the Monterey County Code, together with any other applicable provisions of the Monterey County Code, the forms listed below, and other attachments:

**Forms**

\* LT-Lateral Trenching

*Unless specified, no permit work or activity is to take place after: 01/31/2024*

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**CEQA Status:**

**CEQA Section:**

**CEQA Class:**

**Fees Assessed:** \$390.00

**Copy:** Permittee Job Site Inspector File District Superintendent Finance

“ENCROACHMENT” includes any structure or object of any kind or character placed, without authority of law, either in, on, under, or over any County highway.

**GENERAL CONDITIONS FROM MONTEREY COUNTY CODE - CHAPTER 14.04**

An ordinance to protect the County highways and works incidental thereto by regulating their excavation and encroachment.

**Sec.14.04.010** "County highway" means and includes all or any part of the entire width of right-of-way of any road, street, land, alley, way, place, or cul-de-sac maintained by the County and open to the use of the public for purposes of travel, whether or not such entire width is actually used for highway purposes, and whether or not it has been accepted into the County road system by resolution of the County Board of Supervisors. It also includes bridges, culverts, curbs, drains, ditches, and all works incidental to County highway construction, improvement, and maintenance.

**Sec.14.04.020** A - When satisfied an applicant's right or necessity, the Public Works Director may issue to him or her, a writing permit, which shall not be transferable, authorizing him or her to do any of the following acts:

1. Make an opening or excavation for any purpose in any County highway;
2. Place, change, or renew an encroachment;
3. Construct, grade, or place any driveway within a County highway; but no driveway shall be located within any portion of the normal curve returns of any intersection;
4. Plant, remove, cut, cut down, injure or destroy any tree/shrub/plant/flower growing within any County highway. (Ord. 1162 § 6, 1960)

**Sec.14.04.070** A - This Chapter shall not be construed to prohibit any act for which a permit is required when the performance of such act is reasonably necessary for the preservation of life or property in an emergency. In all such cases, however, the person performing such act shall promptly notify the Public Works Director and shall apply for a permit therefor at the earliest practicable time thereafter, in any event not later than the next succeeding day during which the office of the Public Works Director is open.

B - Any person who violates any of the provisions of this Section is guilty of a misdemeanor. (Ord. 1162 § 11, 1960)

**Sec.14.04.100** The Public Works Director may, but is not required to, supervise any work done under any permit issued under the County, but no cost of supervision shall be charged by the Public Works Director to any public Agency. (Ord. 1162 § 11, 1960)

**Sec.14.04.110** A - Every permittee shall:

1. Notify the Public Works Director at least forty-eight (48) hours, exclusive of Saturdays, Sundays, and legal holidays, before starting any permit work;
2. Keep his or her permit, or a copy thereof, at the site of the permit work at all times when he or she is actually engaged in work thereat, and exhibit it to the Public Works Director, or his or her representative or any peace officer, upon demand;
3. Promptly remove all refuse, debris, equipment, and excess material from the site of the permit work upon its completion, and leave the premises in as presentable a condition as before the work started;
4. Place and maintain suitable warning lights, signs, barriers, devices, or flagmen, which be the types specified in Section 21406 of the California Vehicle Code;
5. Deliver to the Public Works Director, upon his or her demand, after the completion of any permit work, a plan or drawing showing locations and details of permitted encroachments and connections, if any, to existing structures where such encroachments and connections differ substantially from any plats and diagrams submitted with the application for a permit;
6. In every case where he or she has disturbed the existing surface of a County highway, replace, repair or restore such highway in accordance with the terms of his or her permit. In case his or her permit contains no such terms, then he or she shall do such replacing, repairing, or restoring at his or her own expense promptly upon completion of his or her permit work, in a good and workmanlike manner as directed by the applicable provisions of this Chapter, to as good condition as before the permit work started; provided, however, that if the surface which was disturbed was a bituminous-surfaced roadway, such surface shall be replaced, repaired or restored with not less than one and one-half inches, compacted in thickness, of asphaltic concrete surfacing, over a minimum of six inches, compacted, in depth, of aggregate base material of a type approved by the Public Works Director;



7. Comply with all of the terms and conditions of his or her permit;
8. Comply with all construction standards and methods specified in this Chapter;
9. Store, place or deposit no material within five feet (5') from the edge of the pavement or traveled way or within the shoulder line, where the shoulders are wider than five feet (5'), of any County highway, without the prior approval of the Public Works Director;
10. Diligently pursue the permit work in such a way as not to cause an unreasonable interference or inconvenience to the traveling public.

**Sec. 14.04.120** A - Unless the permit provides otherwise: All permit work shall conform to the following specifications as may be designated by the permit:

1. The Standard Specifications of the Department of Public Works of the State of California;
2. The Special Provisions for Encroachment Work, on file in the office of the Public Works Director.

**Sec. 14.04.125** Indemnity and hold harmless: an applicant shall agree to indemnify, defend, and save harmless the County, its officers, agents and employees, from and against any and all claims and losses whatsoever accruing or resulting to any and all persons, firms or corporations, and public and private property in connection with the encroachment or the conduct of the special event, unless arising out of the sole negligence or willful misconduct of the County. (Ord. 3889, 1996)

**Sec. 14.04.160** The Public works Director may, in the manner provided in this section, require and enforce the removal of any of the things authorized by Subsection A of this Section, when, in his or her opinion, any of said things are so placed or done as to constitute a traffic hazard, or to interfere with normal highway maintenance, or otherwise to violate any of the conditions under which said things are authorized. (Ord. 3889, 1996; Ord. § 7, 1960)



# COUNTY OF MONTEREY

HOUSING & COMMUNITY DEVELOPMENT - ENGINEERING SERVICES

1441 Schilling Place, 2nd Floor-South, Salinas, CA 93901

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## ENCROACHMENT PERMIT 23EP0388

Notify the Department of Housing & Community Development - Engineering Services at least 48 hours prior to starting any permit work, excluding weekends and legal holidays. Contact by phone by calling 831-755-5025 or by email at [encroachment@co.monterey.ca.us](mailto:encroachment@co.monterey.ca.us)

**APPLICATION DATE:** 09/05/2023 **DISTRICT:** 1-San Miguel

**PERMIT ISSUE DATE:** 09/29/2023 **ASSOCIATED CONSTRUCTION PERMIT:**

**PARCEL NO. (if any):** 111-111-111-111 **UTILITY WORK ORDER:**

**PROJECT ADDRESS:** LAGUNA RD

**LOCATION DESCRIPTION:** BETWEEN ABBOTT ROAD AND RIVER ROAD.

**PERMITTEE:** RICH REYNOLDS

**ORGANIZATION:** GREGG DRILLING, INC.

**PERMITTEE ADDRESS:** 2100 GOODYEAR ROAD, BENICIA, CA 94510

**PERMITTEE PHONE:** 562-449-7529

**PERMITTEE EMAIL:** rreynolds@greggdrilling.com

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In compliance with your request and subject to the existing County Encroachment Ordinance, and to all other terms, conditions, and restrictions written below, printed on or attached to any part of this permit, Permission is hereby granted to:

*DRILL AND CONSTRUCT (1) MONITORING WELL LOCATED ON SUBJECT ROADWAY FOR THE SALINAS VALLEY BASIN GSA PROJECT PER ATTACHED LOCATION PLAN.*

---

In order for this encroachment permit to be acknowledged as complete, work shall be in accordance with the above mentioned plan, all pertinent sections of Chapter 14.04 of the Monterey County Code, together with any other applicable provisions of the Monterey County Code, the forms listed below, and other attachments:

### Forms

\* LT-Lateral Trenching

*Unless specified, no permit work or activity is to take place after: 09/19/2024*

---

**CEQA Status:**

**CEQA Section:**

**CEQA Class:**

**Fees Assessed:** \$390.00

**Copy:** Permittee Job Site Inspector File District Superintendent Finance

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3. Promptly remove all refuse, debris, equipment, and excess material from the site of the permit work upon its completion, and leave the premises in as presentable a condition as before the work started;
4. Place and maintain suitable warning lights, signs, barriers, devices, or flagmen, which be the types specified in Section 21406 of the California Vehicle Code;
5. Deliver to the Public Works Director, upon his or her demand, after the completion of any permit work, a plan or drawing showing locations and details of permitted encroachments and connections, if any, to existing structures where such encroachments and connections differ substantially from any plats and diagrams submitted with the application for a permit;
6. In every case where he or she has disturbed the existing surface of a County highway, replace, repair or restore such highway in accordance with the terms of his or her permit. In case his or her permit contains no such terms, then he or she shall do such replacing, repairing, or restoring at his or her own expense promptly upon completion of his or her permit work, in a good and workmanlike manner as directed by the applicable provisions of this Chapter, to as good condition as before the permit work started; provided, however, that if the surface which was disturbed was a bituminous-surfaced roadway, such surface shall be replaced, repaired or restored with not less than one and one-half inches, compacted in thickness, of asphaltic concrete surfacing, over a minimum of six inches, compacted, in depth, of aggregate base material of a type approved by the Public Works Director;

7. Comply with all of the terms and conditions of his or her permit;
8. Comply with all construction standards and methods specified in this Chapter;
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2. The Special Provisions for Encroachment Work, on file in the office of the Public Works Director.

**Sec. 14.04.125** Indemnity and hold harmless: an applicant shall agree to indemnify, defend, and save harmless the County, its officers, agents and employees, from and against any and all claims and losses whatsoever accruing or resulting to any and all persons, firms or corporations, and public and private property in connection with the encroachment or the conduct of the special event, unless arising out of the sole negligence or willful misconduct of the County. (Ord. 3889, 1996)

**Sec. 14.04.160** The Public works Director may, in the manner provided in this section, require and enforce the removal of any of the things authorized by Subsection A of this Section, when, in his or her opinion, any of said things are so placed or done as to constitute a traffic hazard, or to interfere with normal highway maintenance, or otherwise to violate any of the conditions under which said things are authorized. (Ord. 3889, 1996; Ord. § 7, 1960)



560 Crazy Horse Canyon Rd., Salinas, CA 93907  
Phone: 831.449.4273 • Fax 831.449.4500

Page: 1

\* \* \* INVOICE \* \* \*

COD GREGG DRILLING

Invoice: 96971  
Invoice Date: 10-10-2023  
Acct. Number: 0001  
Order Number: 205  
Project: GREGGDRILLIN  
P.O. Number: 1NGA0GFQ  
Payment Terms: COLLECT ON DE  
523093

Delivered to: 240 S. DAVIS RD SALINAS/SOLAR FIELD

Date	Ticket	Quantity	Product	Description	Unit Price	Total
10-10-23	237705	1.00cy	SS103	10.3 SK SAND SLURRY	200.51	\$200.51
10-10-23	237705	1.00ea	PWCHG	PREVAILING WAGE CHARGE	50.00	\$50.00
10-10-23	237705	1.00ea	PWFEE	PREVAILING WAGE JOB SET UP FE	250.00	\$250.00
10-10-23	237705	1.00ea	101	Short Load Charge	242.43	\$242.43
10-10-23	237705	20.00ea	102	Stand By Charge	2.75	\$55.00
10-10-23	237705	1.00ea	FEE	SERVICE CHARGE	27.51	\$27.51
10-10-23	237705	1.00ea	103	FUEL SURCHARGE	60.00	\$60.00
10-10-23	237705	1.00ea	100	ENVIRONMENTAL CHARGE	30.00	\$30.00
10-10-23	237705	1.00ea	TRANS	TRANSPORTATION	29.00	\$29.00

ALL PRICES OF TAXABLE ITEMS INCLUDE SALES TAX REIMBURSEMENT COMPUTED TO THE NEAREST MILL.

Monterey County 7.750% Total Qty. : 1.00 cy  
FOR BILLING QUESTIONS, PLEASE CALL ROCHELL AT (831) 444-4115.

Invoice Total \$944.45

Please return one copy with payment.

All invoices are due upon receipt. Past due invoices are subject to a late payment charge computed at 1.5% per month (18% annual percentage rate) on the past due amount.

WE ACCEPT VISA / MASTERCARD / AMERICAN EXPRESS / DISCOVER • WE ACCEPT VISA / MASTERCARD / AMERICAN EXPRESS / DISCOVER



MEASUREMENT AT:  
HOLLISTER READY MIX PLANT  
2735 Bolsa Road, Hollister, CA 95023  
1-877-READYMIX



**DELIVERY TICKET**  
**WEIGHMASTER CERTIFICATE**

**205** PRELIMINARY NOTICE IN ACCORDANCE WITH SEC. 1193 CALIF. CODE OF CIVIL PROCEDURE: TO WHOM IT MAY CONCERN:  
You are hereby notified that we have furnished labor, service, equipment or material of the following general description, to the below named customer.

SOLD TO:

0001  
COD GREGG DRILLING  
PREVIOUS TRUCK: .

SHIP TO:

240 S. DAVIS RD SALINAS/SOLAR FIELD  
ON THE R JUST B4 THE SALINAS RIVER

PO#: PW 523093

TIME	MIX NO.	LOAD SIZE	YARDS ORDERED	MAP PG.	TRUCK #	DRIVER	TICKET #
1:10 PM	SS103	1.00	1.00		1025	SAMMY FERNANDEZ	237705
DATE	PLANT	LOAD #	YARDS DEL.	BATCH #	WATER TRIM	USE	SLUMP REQ. 'ST.
10/10/23	01	1	1.00		-20.00 gal		8.00 in



**WARNING:** Aggregate, Sand, Ready Mixed Concrete, and Precast Concrete products contain naturally occurring crystalline silica and other chemicals known to the State of California to cause cancer and or reproductive harm. Equipment used to handle, manufacture, transport, and place these products generate diesel fumes known to the State of California to cause cancer and or reproductive harm. Exposure to some or all of these chemicals occurs during product handling, manufacturing, transport, delivery, placing, and related construction activities. Prolonged exposure to and repeated inhalation of crystalline silica and or diesel fumes can cause progressive lung disease such as silicosis and some researchers have reported the exposure may cause lung cancer. To reduce your exposure to diesel fumes and crystalline silica, work in a well ventilated area and work with approved safety equipment such as dust and particle masks that are specifically designed to filter out microscopic particles and fumes. Always familiarize yourself with the hazards of the materials and equipment you are using and follow the precautions indicated on the product labels, Material Safety Sheets, and your health and safety training program. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** IRRITATING TO THE SKIN AND EYES; Contains Portland Cement. Wear Rubber Boots and Gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with Eyes and prolonged contact with the Skin. In case of contact with Eyes or Skin, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

**NOTICE: READ OTHER SIDE BEFORE SIGNING**

CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE.

By signing below, you are confirming the load was received in good order and per the Ticket. Multiple Tickets do not require multiple signatures (see reverse).

By signing below, you also acknowledge and agree to the PROPERTY DAMAGE RELEASE OF LIABILITY as set forth on the reverse of this Ticket.

Load Received By: **X**

Additional water added to this concrete will reduce its strength, and may cause excessive cracking. Any water added is at customer's own risk and will only be added as ordered by customer.

H<sub>2</sub>O ADDED BY REQUEST \_\_\_\_\_ GAL.

WATER ADD AUTHORIZED BY: **X**

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.00 yd	SS103	10.3 SK SAND SLU	200.51	200.51
1.00 M3	PWCHG	PREVAILING WAGE CHARGE	50.00	50.00
1.00 M3	PWFEE	PREVAILING WAGE JOB SET UP FEE	250.00	250.00
1.00 ea	103	FUEL SURCHARGE	60.00	60.00
1.00 ea	100	ENVIRONMENTAL CHARGE	30.00	30.00
1.00 ea	TRANS	TRANSPORTATION	29.00	29.00

**Short Load Charge**

LEFT PLANT	ARRIVE JOB	START UNLOAD	5 MINUTES PER YARD FREE UNLOADING TIME ALLOWED. ADDITIONAL UNLOADING TIME CHARGED AT CURRENT PREVAILING RATES.
115	215	225	
FINISH UNLOAD	LEAVE JOB	ARRIVE PLANT	STAND BY MINUTES
245	300		

**SUBTOTAL: 861.94**

**PREV: .**

**TOTAL: \$861.94**

Material	Design Qty	Required	Batched	% Var	% Moisture	Actual	Wat
SAND	1936 lb	2049 lb	2060 lb	0.54%	5.83% M		14 gl
TYPE II	968.0 lb	968.0 lb	1065.0 lb	> 10.02%			
WATER I	77.00 gl	43.48 gl	42.00 gl	-3.39%		42.00 gl	
Actual	Num Batches: 1						
Design W/C: 0.664	Water/Cement: 0.603	T	Design 77.0 gl	Actual 55.6 gl	To Add: 21.4 gl		
Water in Truck: 0.0 gl	Adjust Water: 0.0	gl / Load	Trim Water: -20.0	gl / CYDS			
Actual W/C Ratio: 0.436	Actual Water: 56 gl	Batched Cement: 1065 lb	Allowable Water: 29 gl				

20 Standby 35%  
30%  
944.45  
pd

**KYLE GALIEN**

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

THE DON CHAPIN CO. INC. BY **X**  
Wet signed copy to office

DEPUTY WEIGHMASTER



## Transaction Inga0gfq

### Merchant Information

Merchant

The Don Chapin Company, Inc.

### Transaction Information

Type	Sale
Amount	\$944.45 USD
Transaction Date	Oct 10 2023, 05:13 PM CDT
Purchase Order Number	ORDER 205
Approval Code	069731
Status	Submitted For Settlement

### Payment Information

Payment Type	Credit Card
Transaction Origin	E-Commerce
Card Type	Visa
Cardholder Name	JOHN CHAVES
Credit Card Number	*****8846

### Customer Information

Name	JOHN CHAVES
Phone	630-908-6656
Billing Address	JOHN CHAVES 2100 GOODYEAR RD BENICIA, CALIFORNIA 94510 United States of America
Shipping Address	JOHN CHAVES 2100 GOODYEAR RD BENICIA, CALIFORNIA 94510 United States of America



**WARNING**  
**CONTAINS PORTLAND CEMENT**  
**SKIN AND EYES IRRITANT**

**1. WARNING – HEALTH HAZARDS**

Freshly mixed cement, mortar, grout or concrete may cause skin and eye injuries. Avoid contact with skin and wash exposed areas with water. If cement or cement mixtures get into eyes, rinse immediately and repeatedly with water and get prompt medical attention. This warning should be conveyed to all persons who may purchase, use or come in contact with cement mixtures. **KEEP OUT OF THE REACH OF CHILDREN.** Acute exposure can dry the skin and cause caustic burns. Direct contact of dry cement with skin or eyes is likely to cause alkali irritation or chemical burns. Inhalation can cause irritation to the upper respiratory system. Portland cements are classified as nuisance dusts by OSHA, MSHA and ACGIH.

**2. PROPOSITION 65 REQUIRES THIS NOTICE:**

WARNING: Operations at this facility result in air emissions of respirable crystalline silica (quartz) diesel fuel exhaust, and other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. If you have questions, please contact SBS Safety Department for copies of the Material Safety Data Sheets (MSDS).

**3. AVOID BREATHING DUST FROM AGGREGATE PRODUCTS:**

Aggregate products from this plant contain crystalline silica. Crystalline silica is a natural constituent of the earth's crust and is a component of rock and sand products. Prolonged and repeated breathing of crystalline silica dust can cause a progressive lung disease called silicosis. Also, some researchers have reported that there is evidence that prolonged and repeated breathing of crystalline silica dust may cause lung cancer. Either silicosis or lung cancer can result in permanent injury or death.

For detailed information, see the MSDS before using or handling this product.

**4. AB 219 NOTICE:** If the project is subject to prevailing wage provisions of AB 219 for a public agency or other project, the customer must notify SBS of this fact, or the purchaser will be liable for all costs, fees and penalties arising from its failure to do so.

**5. LIABILITY FOR DELAY:** Seller shall not be liable for any delays or for any failure to manufacture, ship, or deliver products resulting from strikes, labor disputes, breakdown, civil disturbances, floods, acts of God, earners delays or defaults or regulations of any government.

**6. LIMITATION & DISCLAIMER OF WARRANTIES:**

PURCHASER SPECIFICALLY AGREES THAT THE GOODS SOLD HERIN ARE SOLD WITHOUT WARRANTY OR MERCHANTABILITY. Any written warranties and disclaimer of warranties stated herein extend only to buyers for commercial or industrial purposes or for purposes of release and do not extend to buyers for personal, family, or household purposes. ANY GUARANTIES OR WARRANTIES CONTAINED HEREIN ARE EXCLUSIVE. SELLER MAKES NO GUARANTEES OR WARRANTIES OF FITNESS OR SUITABILITY FOR A PARTICULAR PURPOSE. SELLER SHALL NOT BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY AMOUNT EXCEEDING THE NET PURCHASE PRICE OF THE PRODUCT SHIPPED.

**7. BUYER ACKNOWLEDGEMENT SBS PROVIDES NO ENGINEERING SERVICES:**

Buyer acknowledges and agrees that neither SBS, nor any agent, employee, or representative of SBS, has provided or will provide engineering services in any manner whatsoever to Buyer in connection with the goods sold in this agreement, and Buyer has had the opportunity to make and has made its own independent investigation to determine if such goods are suitable and fit and of the correct description to serve the function and purpose of the Buyer.

**8. PROPERTY DAMAGE RELEASE:**

Purchaser assumes all responsibility and agrees to release, defend, indemnify and hold harmless SBS, its agents and employees (collectively referred to herein as "SBS") from any and all claims, loss liability, costs, damage or expense for any damage to the property at the job site or adjacent properties resulting from the purchase or delivery of these materials or services, including but not limited to damage to driveways, sidewalks, curbs, buildings, underground plumbing, electrical, sewer, water meters or personal property. This indemnity and release also covers without limitation, injury (including death) or damage to persons or property (including damage to private roads or the property of SBS caused or contributed to by the subsidence, settling or other failure of the private access or roads to the job site or adjacent property. The undersigned purchaser also authorizes SBS mixer truck drivers to "wash out" their trucks on the job site after each delivery and agrees to release and indemnify and hold harmless SBS from any and all claims, loss, costs, liability, damage or expense arising therefrom. Purchaser assumes responsibility for litter, mud or debris on public or private roads resulting from the delivery of these products or services. This agreement is effective for all deliveries made to this jobsite by SBS, including any previous or subsequent deliveries from the date specified below.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name & relationship to property



**WARNING**  
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\_\_\_\_\_  
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\_\_\_\_\_  
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Date

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Signature

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Name & relationship to property



# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

Dispatch: 866-789-MUDD (6833)  
Website: WWW.SBS-CAS.COM

By SBS Deputy Weighmaster:

Accounting: 1060 Nash Rd., Hollister, CA 95023, telephone: 831-637-6872, fax: 831-637-6125

## Plant Locations:

Hollister 1060 Nash Rd 831-637-5526	King City 1091 Industrial 831-385-0977	Paso Robles 275 Marquita 805-434-2043	Quarry Greenfield 38755 Metz Road 866-789-6833
Salinas 54 Summer St. 831-757-4557	Soledad 32340 Silliman Rd 831-678-9300	Watsonville 33 Riverside Rd 831-724-6262	Portable Plant Customer Jobsite 866-789-6833

Date	Sales Order #	Cust. P.O. #
Plant	Truck	Driver

Sold to	Ship to

QUANTITY	UNITS	DESCRIPTION	PRICE PER	AMOUNT

Cylinders taken	Water Added on job	Water Addition Authorized By	Sales Tax
			Sub-total

Depart Plant	Arrive at Job	Start Unload	Stop Unload	Depart Job	Return Plant	Standby Minutes	Standby Charge
							Sales Order Total

Grand Total
-------------

Driver Comments - Please fill out

Was your delivery on time (please circle one)	yes	no					PLEASE READ WARNING ON REVERSE SIDE
---	-----	----	--	--	--	--	-------------------------------------

As part of our commitment to provide our customers with the highest quality concrete products according to ASTM and ACI specifications, we are providing the following batch weight information for this sales order.

By signing you agree to all terms of agreement which are contained on the back page

X

Customer Signature

Gross	Tare	Net
-------	------	-----

Raw Material	UOM	Target	Actual	Moisture %	Absorption %
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TAG #

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**SKIN AND EYES IRRITANT**

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Date

---

Signature

---

Name & relationship to property



560 Crazy Horse Canyon Rd., Salinas, CA 93907  
Phone: 831.449.4273 • Fax 831.449.4500

Page: 1

\* \* \* INVOICE \* \* \*

COD GREGG DRILLING

Invoice: 97027  
Invoice Date: 11-06-2023  
Acct. Number: 0001  
Order Number: 106  
Project: GREGGDRILLIN  
P.O. Number: BBWF1G92  
Payment Terms: COLLECT ON DE  
523093

Delivered to: BLACKIE RD CASTROVILLE

Date	Ticket	Quantity	Product	Description	Unit Price	Total
11-06-23	238706	2.00cy	SS103	10.3 SK SAND SLURRY	200.51	\$401.02
11-06-23	238706	1.00ea	PWCHG	PREVAILING WAGE CHARGE	50.00	\$50.00
11-06-23	238706	1.00ea	101	Short Load Charge	220.88	\$220.88
11-06-23	238706	40.00ea	102	Stand By Charge	2.75	\$110.00
11-06-23	238706	1.00ea	FEE	SERVICE CHARGE	27.90	\$27.90
11-06-23	238706	1.00ea	103	FUEL SURCHARGE	60.00	\$60.00
11-06-23	238706	1.00ea	100	ENVIRONMENTAL CHARGE	30.00	\$30.00
11-06-23	238706	2.00ea	TRANS	TRANSPORTATION	29.00	\$58.00

ALL PRICES OF TAXABLE ITEMS INCLUDE SALES TAX REIMBURSEMENT COMPUTED TO THE NEAREST MILL.

Monterey County 7.750%

Total Qty. : 2.00 cy

Invoice Total \$957.80

FOR BILLING QUESTIONS, PLEASE CALL ROCHELL AT (831) 444-4115.

Please return one copy with payment.

All invoices are due upon receipt. Past due invoices are subject to a late payment charge computed at 1.5% per month (18% annual percentage rate) on the past due amount.

WE ACCEPT VISA / MASTERCARD / AMERICAN EXPRESS / DISCOVER • WE ACCEPT VISA / MASTERCARD / AMERICAN EXPRESS / DISCOVER

MEASURED AT:  
HOLLISTER READY MIX PLANT  
2735 Bolsa Road, Hollister, CA 95023  
1-877-READYMIX

106



**DELIVERY TICKET**  
WEIGHMASTER CERTIFICATE

PRELIMINARY NOTICE IN ACCORDANCE WITH SEC. 1193 CALIF. CODE OF CIVIL PROCEDURE: TO WHOM IT MAY CONCERN:

You are hereby notified that we have furnished labor, service, equipment or material of the following general description, to the below named customer.

SOLD TO:

0001  
COD GREGG DRILLING  
PREVIOUS TRUCK: .

SHIP TO:

BLACKIE RD CASTROVILLE

X- DEL MONTE AVE

PO#: . PW 523093

TIME	MIX NO.	LOAD SIZE	YARDS ORDERED	MAP PG.	TRUCK #	DRIVER	TICKET #
12:04 PM	SS103	2.00	2.00		1024	NESTOR GUZMAN	238706
DATE	PLANT	LOAD #	YARDS DEL.	BATCH #	WATER TRIM	USE	SLUMP REQ. 'ST.
11/06/23	01	1	2.00		-22.00 gal		8.00 in



**WARNING:** Aggregate, Sand, Ready Mixed Concrete, and Precast Concrete products contain naturally occurring crystalline silica and other chemicals known to the State of California to cause cancer and or reproductive harm. Equipment used to handle, manufacture, transport, and place these products generate diesel fumes known to the State of California to cause cancer and or reproductive harm. Exposure to some or all of these chemicals occurs during product handling, manufacturing, transport, delivery, placing, and related construction activities. Prolonged exposure to and repeated inhalation of crystalline silica and or diesel fumes can cause progressive lung disease such as silicosis and some researchers have reported the exposure may cause lung cancer. To reduce your exposure to diesel fumes and crystalline silica, work in a well ventilated area and work with approved safety equipment such as dust and particle masks that are specifically designed to filter out microscopic particles and fumes. Always familiarize yourself with the hazards of the materials and equipment you are using and follow the precautions indicated on the product labels, Material Safety Sheets, and your health and safety training program. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** IRRITATING TO THE SKIN AND EYES; Contains Portland Cement. Wear Rubber Boots and Gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with Eyes and prolonged contact with the Skin. In case of contact with Eyes or Skin, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

**NOTICE: READ OTHER SIDE BEFORE SIGNING**

CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE.

By signing below, you are confirming the load was received in good order and per the Ticket. Multiple Tickets do not require multiple signatures (see reverse).

By signing below, you also acknowledge and agree to the PROPERTY DAMAGE RELEASE OF LIABILITY as set forth on the reverse of this Ticket.

Load Received By: X

Additional water added to this concrete will reduce its strength, and may cause excessive cracking. Any water added is at customer's own risk and will only be added as ordered by customer.

H<sub>2</sub>O ADDED BY REQUEST 0 GAL.

WATER ADD AUTHORIZED BY: X

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2.00	yd	SS103	10.3 SK SAND SLU	200.51
1.00	M3	PWCHG	PREVAILING WAGE CHARGE	50.00
1.00	ea	103	FUEL SURCHARGE	60.00
1.00	ea	100	ENVIRONMENTAL CHARGE	30.00
2.00	ea	TRANS	TRANSPORTATION	29.00

Short Load Charge

220.88

LEFT PLANT	ARRIVE JOB	START UNLOAD	5 MINUTES PER YARD FREE UNLOADING TIME ALLOWED. ADDITIONAL UNLOADING TIME CHARGED AT CURRENT PREVAILING RATES.	
1215	110	120		
FINISH UNLOAD	LEAVE JOB	ARRIVE PLANT	STAND BY MINUTES	CYLINDER TEST TAKEN
200	215	245		<input type="checkbox"/> YES <input type="checkbox"/> NO

SUBTOTAL: 819.90

PREV: .

TOTAL: \$819.90

Material	Design Qty	Required	Batched	% Var	% Moisture	Actual	Wat
SAND	1936 lb	4098 lb	4120 lb	0.54%	5.83% M	27 gl	
TYPEII	968.0 lb	1936.0 lb	1935.0 lb	-0.05%			
WATER	77.00 gl	82.95 gl	84.00 gl	1.27%		84.00 gl	
Actual	Num Batches: 1						
Design W/C: 0.664	Water/Cement: 0.664	T	Design 154.0 gl	Actual 111.2 gl	To Add:	Manual 42.8 gl	
Water in Truck: 0.0 gl	Adjust Water: 0.0		gl / Load Trim Water: -22.0 gl	/ CYDS			
Actual W/C Ratio: 0.480	Actual Water: 111 gl		Batched Cement: 1935 lb	Allowable Water: 42 gl			

S/B 110.00

957.80

KYLE GALIEN

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

THE DON CHAPIN CO. INC. BY X

DEPUTY WEIGHMASTER

Wet signed copy to office

DNCP-53 09/17

# Transaction bbwf1g92

## Merchant Information

Merchant The Don Chapin Company, Inc.

## Transaction Information

Type Sale  
Amount \$957.80 USD  
Transaction Date Nov 06 2023, 04:12 PM CST  
Order ID 0001 ORDER 106 GREGG DRILLING  
Approval Code 086616  
Status Submitted For Settlement

## Payment Information

Payment Type Credit Card  
Transaction Origin E-Commerce  
Card Type Visa  
Cardholder Name JOHN CHAVES  
Credit Card Number \*\*\*\*\*8846

## Customer Information

Name JOHN CHAVES  
Phone 530-908-6656  
Billing Address JOHN CHAVES  
2100 GOODYEAR RD  
BENCIA, CALIFORNIA 94510  
United States of America  
Shipping Address JOHN CHAVES  
2100 GOODYEAR RD  
BENCIA, CALIFORNIA 94510  
United States of America





560 Crazy Horse Canyon Rd., Salinas, CA 93907  
Phone: 831.449.4273 • Fax 831.449.4500

\* \* \* INVOICE \* \* \*

COD GREGG DRILLING

Invoice: 97212  
Invoice Date: 11-14-2023  
Acct. Number: 0001  
Order Number: 107  
Project: GREGGDRILLIN  
P.O. Number: 076TX60K  
Payment Terms: COLLECT ON DE  
523093

Delivered to: LAGUNA RD SALINAS

Date	Ticket	Quantity	Product	Description	Unit Price	Total
11-14-23	238938	2.00cy	SS103	10.3 SK SAND SLURRY	200.51	\$401.02
11-14-23	238938	1.00ea	PWCHG	PREVAILING WAGE CHARGE	50.00	\$50.00
11-14-23	238938	1.00ea	101	Short Load Charge	220.88	\$220.88
11-14-23	238938	1.00ea	FEE	SERVICE CHARGE	24.60	\$24.60
11-14-23	238938	1.00ea	103	FUEL SURCHARGE	60.00	\$60.00
11-14-23	238938	1.00ea	100	ENVIRONMENTAL CHARGE	30.00	\$30.00
11-14-23	238938	2.00ea	TRANS	TRANSPORTATION	29.00	\$58.00

ALL PRICES OF TAXABLE ITEMS INCLUDE SALES TAX REIMBURSEMENT COMPUTED TO THE NEAREST MILL.

Monterey County 7.750%      Total Qty. :    2.00 cy  
FOR BILLING QUESTIONS, PLEASE CALL ROCHELL AT (831) 444-4115.

Invoice Total      \$844.50

MEASURED AT:  
HOLLISTER READY MIX PLANT  
2735 Bolsa Road, Hollister, CA 95023  
1-877-READYMIX  
107



**DELIVERY TICKET**  
**WEIGHMASTER CERTIFICATE**

PRELIMINARY NOTICE IN ACCORDANCE WITH SEC. 1193 CALIF. CODE OF CIVIL PROCEDURE: TO WHOM IT MAY CONCERN:

You are hereby notified that we have furnished labor, service, equipment or material of the following general description, to the below named customer.

SOLD TO: 0001  
COD GREGG DRILLING  
PREVIOUS TRUCK: .

SHIP TO:  
LAGUNA RD SALINAS

DRILL RIG OUT IN THE FIELD

PO#: . BBWF1G92

TIME	MIX NO.	LOAD SIZE	YARDS ORDERED	MAP PG.	TRUCK #	DRIVER	TICKET #
1:11 PM	SS103	2.00	2.00		0984	JOSE HERNANDEZ	238938
DATE	PLANT	LOAD #	YARDS DEL.	BATCH #	WATER TRIM	USE	SLUMP REQ. 'ST.
11/14/23	01	1	2.00		-20.00 gl		8.00 in



**WARNING:** Aggregate, Sand, Ready Mixed Concrete, and Precast Concrete products contain naturally occurring crystalline silica and other chemicals known to the State of California to cause cancer and or reproductive harm. Equipment used to handle, manufacture, transport, and place these products generate diesel fumes known to the State of California to cause cancer and or reproductive harm. Exposure to some or all of these chemicals occurs during product handling, manufacturing, transport, delivery, placing, and related construction activities. Prolonged exposure to and repeated inhalation of crystalline silica and or diesel fumes can cause progressive lung disease such as silicosis and some researchers have reported the exposure may cause lung cancer. To reduce your exposure to diesel fumes and crystalline silica, work in a well ventilated area and work with approved safety equipment such as dust and particle masks that are specifically designed to filter out microscopic particles and fumes. Always familiarize yourself with the hazards of the materials and equipment you are using and follow the precautions indicated on the product labels, Material Safety Sheets, and your health and safety training program. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** IRRITATING TO THE SKIN AND EYES; Contains Portland Cement. Wear Rubber Boots and Gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with Eyes and prolonged contact with the Skin. In case of contact with Eyes or Skin, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

**NOTICE: READ OTHER SIDE BEFORE SIGNING**

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By signing below, you are confirming the load was received in good order and per the Ticket. Multiple Tickets do not require multiple signatures (see reverse).

By signing below, you also acknowledge and agree to the PROPERTY DAMAGE RELEASE OF LIABILITY as set forth on the reverse of this Ticket.

Load Received By: X

Additional water added to this concrete will reduce its strength, and may cause excessive cracking. Any water added is at customer's own risk and will only be added as ordered by customer.

H<sub>2</sub>O ADDED BY REQUEST 0 GAL.

WATER ADD AUTHORIZED BY: X

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2.00	yd	SS103 10.3 SK SAND SLU	200.51	401.02
1.00	M3	PWCHG PREVAILING WAGE CHARGE	50.00	50.00
1.00	ea	103 FUEL SURCHARGE	60.00	60.00
1.00	ea	100 ENVIRONMENTAL CHARGE	30.00	30.00
2.00	ea	TRANS TRANSPORTATION	29.00	58.00

Short Load Charge

220.88

LEFT PLANT	ARRIVE JOB	START UNLOAD	5 MINUTES PER YARD FREE UNLOADING TIME ALLOWED. ADDITIONAL UNLOADING TIME CHARGED AT CURRENT PREVAILING RATES.	
1:20	2:20	2:40		
FINISH UNLOAD	LEAVE JOB	ARRIVE PLANT	STAND BY MINUTES	CYLINDER TEST TAKEN
2:50	3:15	3:30		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**SUBTOTAL: 819.90**

**PREV: .**

**TOTAL: \$819.90**

Material	Design Qty	Required	Batched	% Var	% Moisture	Actual	Wat
SAND	1936 lb	4098 lb	4120 lb	0.54%	5.83% M	27 gl	
TYPEII	968.0 lb	1936.0 lb	2025.0 lb	> 4.60%			
WATER1	77.00 gl	86.95 gl	88.00 gl	1.21%		88.00 gl	
Actual	Num Batches: 1						
Design W/C: 0.664	Water/Cement: 0.635	T	Design 154.0 gl	Actual 115.2 gl	To Add: 38.8 gl		
Water in Truck: 0.0 gl	Adjust Water: 0.0	gl / Load	Trim Water: -20.0 gl / CYDS				
Actual W/C Ratio: 0.475	Actual Water: 115 gl	Batched Cement: 2025 lb	Allowable Water: 45 gl				

844.50  
Total with credit  
Manual  
Chad Fries

**KYLE GALIEN**

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

THE DON CHAPIN CO. INC. BY X DEPUTY WEIGHMASTER

Wet signed copy to office

**Transaction 076tx60k****Merchant Information**

Merchant

The Don Chapin Company, Inc.

**Transaction Information**

Type

Sale

Amount

\$844.50 USD

Transaction Date

Nov 14 2023, 04:34 PM CST

Purchase Order Number

ORDER 107 11/15

Approval Code

087357

Status

Submitted For Settlement

**Payment Information**

Payment Type

Credit Card

Transaction Origin

E-Commerce

Card Type

Visa

Cardholder Name

JOHN CHAVES

Credit Card Number

\*\*\*\*\*8846

**Customer Information**

Name

JOHN CHAVES

Phone

530-908-6658

Billing Address

JOHN CHAVES  
2100 GOODYEAR RD  
BENCIA, CALIFORNIA 94510  
United States of America

Shipping Address

JOHN CHAVES  
2100 GOODYEAR RD  
BENCIA, CALIFORNIA 94510  
United States of America

DATE	WORK DESCRIPTION
	<b>DA-1</b>
9/12/2023	Utility Clearance for all sites
9/13/2023	No Work
9/14/2023	No Work
9/15/2023	No Work
9/16/2023	No Work
9/17/2023	No Work
9/18/2023	Airknife utility clearance at DA-1
9/19/2023	No Work
9/20/2023	Mobilize to DA-1
9/21/2023	Spud DA-1
9/22/2023	Pilot borehole drilling - 220' @ 10:28
9/23/2023	Pilot borehole drilling
9/24/2023	Pilot borehole drilling
9/25/2023	Pilot borehole drilling - 860' @ 16:07
9/26/2023	Pilot borehole drilling - 1000' @ EOD
9/27/2023	Pilot borehole drilling - 1070' @ 16:30
9/28/2023	Pilot borehole drilling - 1200' @ EOD
9/29/2023	Pilot borehole drilling - 1240' @ EOD
9/30/2023	No work
10/1/2023	No work
10/2/2023	No work
10/3/2023	No work
10/4/2023	Pilot borehole drilling 1240' @ EOD hole collapsed
10/5/2023	Pilot borehole drilling 1240' @ EOD, cleaning out fill from collapse
10/6/2023	Pilot borehole drilling 1400' @ EOD
10/7/2023	Clean out run
10/8/2023	Well construction: casing install
10/9/2023	Well construction: filter pack, sand and bentonite seal
10/10/2023	Well construction: cement seal
10/11/2023	Well construction: cement top job and building monument
10/12/2023	Well development: bailing
10/13/2023	Well development: airlifting
	<b>DA-3</b>
10/10/2023	Airknifing at DA-3
10/11/2023	Mobilizing to DA-3
10/12/2023	Mobilizing to DA-3
10/13/2023	Mobilizing to DA-3
10/14/2023	No work
10/15/2023	No work
10/16/2023	No work
10/17/2023	No work

10/18/2023	Finish mobilizing, install conductor casing, pilotborehole drilling 20' @ EOD
10/19/2023	Pilot borehole drilling 420' @ EOD
10/20/2023	Pilot borehole drilling 440' @ EOD, rig broke down
10/21/2023	Pilot borehole drilling
10/22/2023	Pilot borehole drilling
10/23/2023	Pilot borehole drilling 980' @ 1500
10/24/2023	Pilot borehole drilling 1180' @ 1600
10/25/2023	Pilot borehole drilling 1300' @ EOD
10/26/2023	Elog well
10/27/2023	No work
10/28/2023	No work
10/29/2023	No work
10/30/2023	No work
10/31/2023	No work
11/1/2023	No work
11/2/2023	Clean out run
11/3/2023	Clean out run
11/4/2023	Well Construction
11/5/2023	Well Construction
11/6/2023	Pouring annular seal
11/7/2023	Rig down and mobilize to ISW-1
	<b>ISW-1</b>
11/7/2023	Mark off well location and begin to mobilize to ISW-1
11/8/2023	M&A staff not on-site.
11/9/2023	M&A staff not on-site.
11/10/2023	M&A staff not on-site.
11/11/2023	M&A staff not on-site.
11/12/2023	M&A staff not on-site.
11/13/2023	Clean out run and well construction
11/14/2023	Pouring annular seal
	<b>DA-2</b>
11/28/2023	Air Knife utility clearance
11/29/2023	Pilot borehole drilling - 200' @ EOD
11/30/2023	Pilot borehole drilling - 320' @ 12:37
12/1/2023	Pilot borehole drilling - 480' @ 13:00
12/2/2023	Pilot borehole collapse, remove drill pipe, secure site and break until Monday
12/3/2023	No Work
12/4/2023	No Work
12/5/2023	Pilot borehole destruction
12/6/2023	No Work
12/7/2023	Air Knife utility clearance and Conductor Boring
12/8/2023	Conductor Cementing
12/9/2023	Pilot borehole drilling

12/10/2023	Pilot borehole drilling
12/11/2023	Pilot borehole drilling - 710' @ 15:34
12/12/2023	Pilot borehole drilling - 1000'@ 16:30
12/13/2023	Pilot borehole drilling - 1240' @ EOD
12/14/2023	Pilot borehole collapse, attempt to free siezed drill pipe
12/15/2023	Attempt to free siezed drill pipe
12/16/2023	Attempt to free siezed drill pipe
12/17/2023	Attempt to free siezed drill pipe
12/18/2023	Attempt to free siezed drill pipe
12/19/2023	Attempt to free siezed drill pipe
12/20/2023	No work - Decide on plan moving forward
12/21/2023	No work
12/22/2023	No work
12/23/2023	No work
12/24/2023	No work
12/25/2023	No work
12/26/2023	No work
12/27/2023	No work
12/28/2023	No work
12/29/2023	No work
12/30/2023	No work
12/31/2023	No work
1/1/2024	No work
1/2/2024	No work
1/3/2024	No work
1/4/2024	No work
1/5/2024	No work
1/6/2024	No work
1/7/2024	No work
1/8/2024	Attempt to blow air down hole to free siezed drill pipe
1/9/2024	Unable to get inside DP with wireline begin clean out
1/10/2024	Circulate fill out of inside of drill pipe
1/11/2024	Attempt to set backout charge and retrieve drill pipe, 180' removed
1/12/2024	No work
1/13/2024	No work
1/14/2024	No work
1/15/2024	No work
1/16/2024	Attempt to tie into drill string down hole
1/17/2024	Clean out inside of drill pipe for wireline
1/18/2024	Wireline and removing 1017' of drillpipe from down hole
1/19/2024	No work
1/20/2024	No work
1/21/2024	No work



1/22/2024	No work
1/23/2024	No work
1/24/2024	No work
1/25/2024	No work
1/26/2024	No work
1/27/2024	No work
1/28/2024	No work
1/29/2024	Attempt clean out pass in order to retrieve remaining tooling
1/30/2024	Well destruction at DA-2
1/31/2024	Demobilize from DA-2 wellsite
2/1/2024	No work
2/2/2024	No work
2/3/2024	No work
2/4/2024	No work
2/5/2024	No work
2/6/2024	No work
2/7/2024	No work
2/8/2024	No work
2/9/2024	No work
2/10/2024	No work
2/11/2024	No work
2/12/2024	No work
2/13/2024	No work
2/14/2024	No work
2/15/2024	No work
2/16/2024	No work
2/17/2024	No work
2/18/2024	No work
2/19/2024	No work
2/20/2024	No work
2/21/2024	No work
2/22/2024	No work
2/23/2024	No work
2/24/2024	No work
2/25/2024	No work
2/26/2024	No work
2/27/2024	No work
2/28/2024	No work
2/29/2024	No work
3/1/2024	No work
3/2/2024	No work
3/3/2024	No work
3/4/2024	No work

3/5/2024	No work
3/6/2024	No work
3/7/2024	No work
3/8/2024	No work
3/9/2024	No work
3/10/2024	No work
3/11/2024	No work
3/12/2024	No work
3/13/2024	No work
3/14/2024	No work
3/15/2024	No work
3/16/2024	No work
3/17/2024	No work
3/18/2024	No work
3/19/2024	Utility Clearance at DA-2
3/20/2024	Mobilize and rig up
3/21/2024	Rig up and begin conductor drilling
3/22/2024	Complete conductor drilling, install and cement conductor
3/23/2024	Begin pilot hole drilling, reached depth of 180 before shutting down due to weather
3/24/2024	No work
3/25/2024	No work
3/26/2024	No work
3/27/2024	No work
3/28/2024	No work
3/29/2024	No work
3/30/2024	No work
3/31/2024	No work
4/1/2024	No work
4/2/2024	No work
4/3/2024	No work
4/4/2024	No work
4/5/2024	No work
4/6/2024	No work
4/7/2024	No work
4/8/2024	Pilot borehole drilling - 260' @ 15:43
4/9/2024	Pilot borehole drilling - 460' @ 10:43
4/10/2024	Pilot borehole drilling - 860' @ 12:30
4/11/2024	Pilot borehole drilling - 1300' @ EOD
4/12/2024	Clean out run / wiper pass
4/13/2024	No work
4/14/2024	Clean out / wiper pass
4/15/2024	Clean out / wiper pass
4/16/2024	Well construction

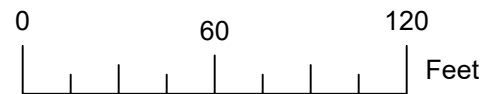
4/17/2024	Well construction
4/18/2024	Installation of cement seal
4/19/2024	Abandon previous hole, airlift development of DA-2
4/20/2024	No work
4/21/2024	No work
4/22/2024	Surface completion
4/23/2024	Mobilization
4/24/2024	Development

## **Appendix B**

### **Land Surveyor Data Sheets**

**EXHIBIT**  
**MONITORING WELL**

**180/400-DA-1**  
**DAVIS ROAD,**  
**MONTEREY COUNTY, CALIFORNIA**




ALL ELEVATIONS ARE NAVD 1988  
LAT. LONG. COORDINATES ARE NAD 83



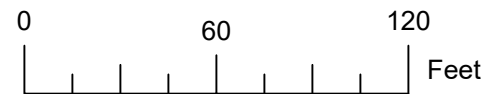
Well 180/400-DA-1  
Center of Casing  
N. 2129929.9'  
E. 5769042.3'  
N 36° 38' 50.45"  
W 121° 42' 08.12"  
Elevation at North Rim of  
Casing = 38.36'  
Elevation of Concrete = 35.79'

PREPARED BY:  
**POLARIS LAND SURVEYING**  
CARMEL VALLEY, CA | 831-659-9564  
SCALE: 1" = 60' DATE: 6-3-2024  
FILE NAME: SVBGWSA Wells.dwg 23-203

  
LYNN A. KOVACH P.L.S. 5321  
DATED JUNE 7, 2024




**EXHIBIT**  
**MONITORING WELL**  
**180/400-DA-2**  
**CORDA ROAD,**  
**MONTEREY COUNTY, CALIFORNIA**



ALL ELEVATIONS ARE NAVD 1988  
LAT. LONG. COORDINATES ARE NAD 83



PREPARED BY:  
**POLARIS LAND SURVEYING**  
CARMEL VALLEY, CA | 831-659-9564  
SCALE: 1" = 60' DATE: 6-3-2024  
FILE NAME: SVBGWSA Wells.dwg 23-203

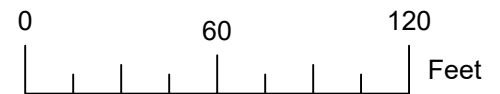
  
LYNNA A. KOVACH P.L.S. 5321  
DATED JUNE 7, 2024





**EXHIBIT**  
**MONITORING WELL**

**180/400-DA-3**  
**BLACKIE ROAD,**  
**MONTEREY COUNTY, CALIFORNIA**




ALL ELEVATIONS ARE NAVD 1988  
LAT. LONG. COORDINATES ARE NAD 83



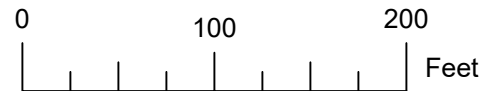
Well 180/400-DA-3  
Center of Casing  
N. 2175553.1'  
E. 5765673.2'  
N 36° 46' 20.47"  
W121° 43' 05.29"  
Elevation at North Rim of  
Casing = 96.16'  
Elevation of Concrete = 93.36'

PREPARED BY:  
**POLARIS LAND SURVEYING**  
CARMEL VALLEY, CA | 831-659-9564  
SCALE: 1" = 60' DATE: 6-4-2024  
FILE NAME: SVBGWSA Wells.dwg 23-203

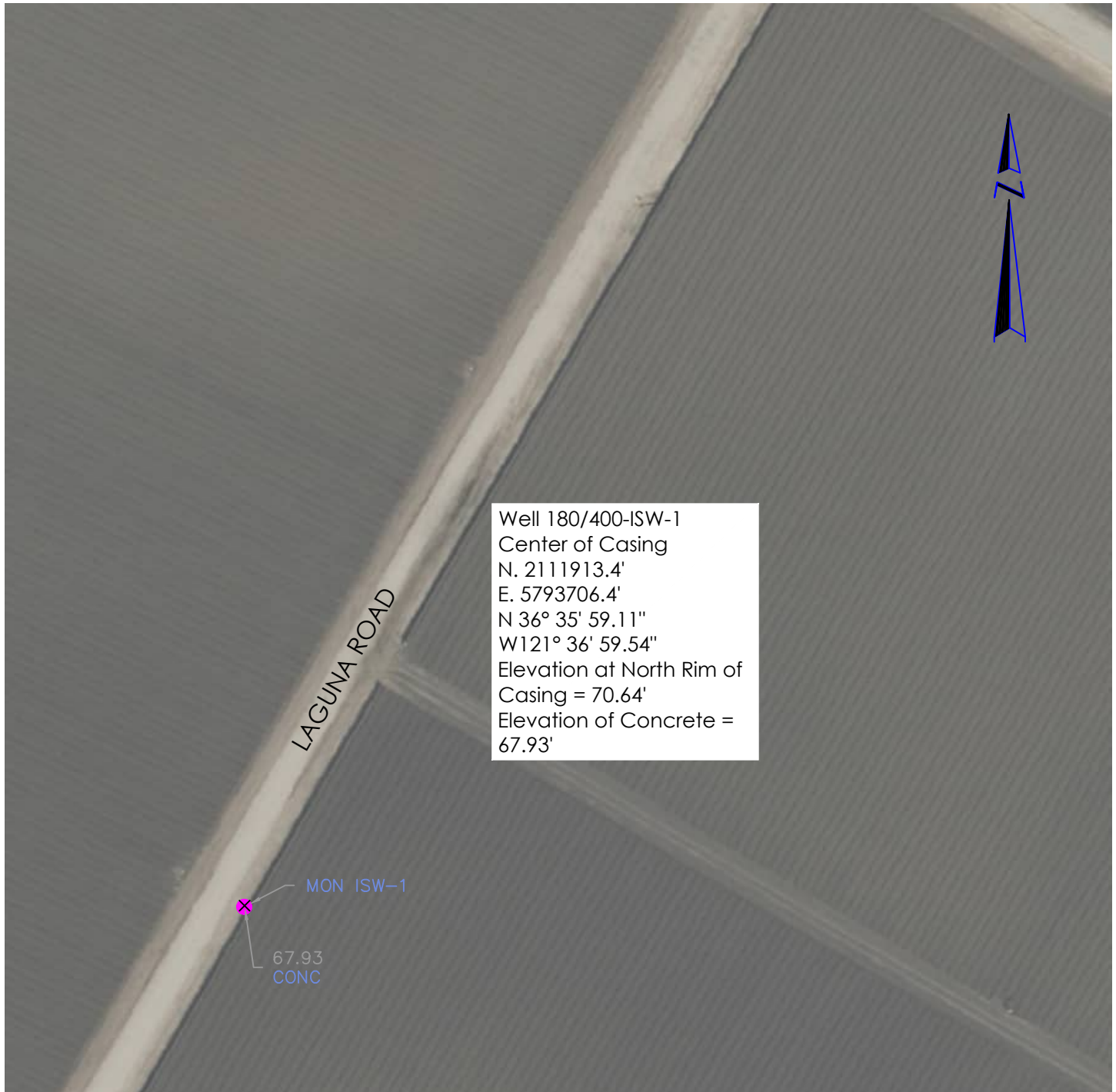
  
LYNN A. KOVACH P.L.S. 5321  
DATED JUNE 7, 2024



**EXHIBIT**  
**MONITORING WELL**  
**180/400-ISW-1**  
**LAGUNA ROAD,**  
**MONTEREY COUNTY, CALIFORNIA**



ALL ELEVATIONS ARE NAVD 1988  
LAT. LONG. COORDINATES ARE NAD 83



PREPARED BY:  
**POLARIS LAND SURVEYING**  
CARMEL VALLEY, CA | 831-659-9564  
SCALE: 1" = 100' DATE: 6-3-2024  
FILE NAME: SVBGWSA Wells.dwg 23-203

*Lynn A. Kovach*  
LYNN A. KOVACH P.L.S. 5321  
DATED JUNE 7, 2024



## **Appendix C**

### **Laboratory Reports**



## MONTEREY COUNTY HEALTH DEPARTMENT

### Consolidated Chemistry Laboratory

1270 Natividad Road Salinas, CA 93906

Phone (831)755-4516 Fax (831) 755-4652

ELAP Certification Number: 1395

### Certificate of Analysis

Montgomery & Associates  
for Salinas Vly Basin GW Sustainability  
201 Hoffman Ave  
Monterey, CA 93940  
[aostovar@elmontgomery.com](mailto:aostovar@elmontgomery.com)

Page 1 of 2

Saturday, June 29, 2024

**Lab Number: AC81821**

Sample Site: 180/400-DA-1 - S DAVIS ROAD

Source Code:

Sample ID:

**Client Code:****OTHER**

Collection Date/Time: 6/10/2024 20:00

Submittal Date/Time: 6/10/2024 14:33

Sample Collector: CAWDREY D

Sample Comments: Water. Receiving temperature 4.9 °C.

Analyte	Method	Unit	Result	Qual	PQL	Analysis Start Date/Time
adjusted Sodium Adsorption R	UC Davis1993		4.47			6/27/2024 8:00
Agriculture-Conductivity	SM2510B	dS/m	0.6		.1	6/14/2024 9:11
Arsenic	Attached	Attached	Completed		Attached	6/14/2024 12:00
Bicarbonate Alkalinity (as HCO	Calculated	mg/L	223.3		1.0	6/10/2024 17:26
Boron	SM4500B B-2000	mg/L	0.19		0.10	6/12/2024 8:40
Calcium	ASTM6919-17	mg/L	14		0.5	6/20/2024 4:00
Carbonate Alkalinity (as CO3)	Calculated	mg/L	54.1		1.0	6/10/2024 17:26
Cl (Chloride)	EPA300.0 REV 2.1	mg/L	19		0.1	6/11/2024 10:42
Conductivity @ 25C	SM2510 B-2011	umho/cm	603		2	6/14/2024 9:11
Hardness	SM2340 B-2011	mg/L	80.3		1.7	6/26/2024 9:15
Iron	EPA200.7	ug/L	<10		100	6/20/2024 13:30
Magnesium	ASTM6919-17	mg/L	11		0.1	6/20/2024 4:00
Manganese (Mn)	EPA200.7	ug/L	7		1	6/20/2024 13:30
Nitrate Nitrogen	EPA300.0	mg/L	0.3		0.1	6/11/2024 10:42
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05		0.05	6/11/2024 14:10
NO3 (Nitrate)	EPA300.0 REV 2.1	mg/L	1.3		0.5	6/11/2024 10:42
pH (Laboratory)	SM4500H+ B-2011	pH	9.2	HT	0.1	6/10/2024 17:26
Potassium	ASTM6919-17	mg/L	30		0.1	6/20/2024 4:00
SO4 (Sulfate)	EPA300.0 REV 2.1	mg/L	91		0.5	6/11/2024 10:42
Sodium	ASTM6919-17	mg/L	93		0.1	6/20/2024 4:00

AC818216/29/2024 8:46 AM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

Sodium Adsorption Ratio (SAR)	L.V. Wilcox		<b>4.45</b>	N/A	6/27/2024	8:00
Total Alkalinity (as CaCO <sub>3</sub> )	SM2320 B-2011	mg/L	<b>183</b>	2	6/10/2024	17:26
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	<b>365</b>	5	6/10/2024	14:53

## Data Qualifier/Notes:

pH: The recommended holding time for this analysis is 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past hold time.

Report approved by:



Donna Ferguson, Ph.D, P.H.M  
Laboratory Director



BSK Associates Laboratory Fresno  
687 N. Laverne Avenue  
Fresno, CA 93727  
559-497-2888 (Main)

**AHF1380**

**6/25/2024**

Invoice: AH15305

Donna Ferguson, PhD  
Monterey CHD  
1270 Natividad Rd. Rm A15  
Salinas, CA 93906

**RE: Report for AHF1380 General**

Dear Donna Ferguson, PhD,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/11/2024. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Jaime Lee LaFave, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Senior Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021



## Case Narrative

Project and Report Details		Invoice Details
Client:	Monterey CHD	Invoice To: Monterey CHD
Report To:	Donna Ferguson, PhD	Invoice Attn: Donna Ferguson, PhD
Project #:	Other	Project PO#: DO 4000 0000022690
Received:	6/11/2024 - 12:51	
Report Due:	6/25/2024	

## Sample Receipt Conditions

Cooler: Default Cooler  
Temperature on Receipt °C: 0.0

Containers Intact  
COC/Labels Agree  
Received On Blue Ice  
Packing Material - Other  
Sample(s) were received in temperature range.  
Initial receipt at BSK-FAL

## Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

\*\*\*None applied\*\*\*

## Report Distribution

Recipient(s)	Report Format	CC:
Theresa Hodges	FINAL.RPT	



**AHF1380**

**General**

Other

## Certificate of Analysis

**Sample ID:** AHF1380-01

**Sampled By:** D. Cawdrey

**Sample Description:** 180/400-DA-1 (S. Davis Road) // AC81821

**Sample Date - Time:** 06/10/2024 - 12:40

**Matrix:** Drinking Water

**Sample Type:** Grab

### *BSK Associates Laboratory Fresno*

#### Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	4.6	2.0	ug/L	1	AHF0822	06/13/24	06/14/24	



AHF1380

General

BSK Associates Laboratory Fresno

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: AHF0822

Prepared: 6/13/2024

Prep Method: EPA 200.2

Analyst: AHS

Blank (AHF0822-BLK1)

Arsenic	ND	2.0	ug/L							06/14/24	
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Blank Spike (AHF0822-BS1)

Arsenic	240	2.0	ug/L	240	ND	98	85-115			06/14/24	
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Blank Spike Dup (AHF0822-BSD1)

Arsenic	230	2.0	ug/L	240	ND	94	85-115	4	20	06/14/24	
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Matrix Spike (AHF0822-MS1), Source: AHF1245-01

Arsenic	240	2.0	ug/L	240	ND	102	70-130			06/14/24	
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Matrix Spike Dup (AHF0822-MSD1), Source: AHF1245-01

Arsenic	240	2.0	ug/L	240	ND	100	70-130	2	20	06/14/24	
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## Certificate of Analysis

### Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.  
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

## Certificate of Analysis

### Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

**Please see the individual Subcontract Lab's report for applicable certifications.**

**The following parameters are not available for certification through CA ELAP:**

Odor                                      Diisopropyl ether (DIPE) by EPA 524.2

**The following parameters are calculated values and are outside the scope of our NELAP accreditation:**

Total Nitrogen                      Aggressive Index                      Trivalent Chromium

**BSK is not accredited under the NELAP program for the following additional parameters:**

**\*\*NA\*\***

## Certificate of Analysis

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

### Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-023
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-023
EPA UCMR5	CA00079	State of Washington	C997-24a

### Sacramento

State of California - ELAP	1180-S1
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### San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

### Vancouver

NELAP certified	WA100008-018	State of Oregon - NELAP	WA100008-018
State of Washington	C824-23b		





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## Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)?	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No	NA	TB Received? (Check Method Below)	Yes	No	NA
	Did all bottle labels agree with COC?	Yes	No	NA	Was a sufficient amount of sample received?	Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	NA	Do samples have a hold time <72 hours?	Yes	No	NA
Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)	Checks*	Passed?					
	Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	—	—					
	None (P) White Label	—	—					
	Cr6 (P) Lt. Green Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> DW	Cl, pH > 8	P	F				
	Cr6 (P) Pink Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> WW	pH 9.3-9.7	P	F				
	Cr6 (P) Black Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P	F				
	HNO <sub>3</sub> (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label	—	—					
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Label	pH < 2	P	F				
	NaOH (P) Green Cap/Label	Cl, pH > 10	P	F				
	NaOH + ZnAc (P)	pH > 9	P	F				
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH <sub>2</sub> Ct (AG) Pink Label 525	—	—					
	Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531	pH < 3	P	F				
	NH <sub>4</sub> Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label	—	—					
	Trizma - EPA 537, 1 Light Blue Label FB	—	—					
	Ammonia Acetate - EPA 533 Purple Label FB	—	—					
	Bottled Water	—	—					
	Clear Glass: Jar / VOA	—	—					
OTHER:	—	—						
OTHER:	—	—						
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check	
	S P					pH Lot #		
Comments	*Preservation check completed by lab performing analysis.			✓ Indicates Blanks Received				
	Labeled by:			504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP ___				
Checked by:			✓ MS/MSD Received Method: _____					

Scanned: 5213

Rush/Short HT Page: \_\_\_\_\_ Time: \_\_\_\_\_





## MONTEREY COUNTY HEALTH DEPARTMENT

### Consolidated Chemistry Laboratory

1270 Natividad Road Salinas, CA 93906

Phone (831)755-4516 Fax (831) 755-4652

ELAP Certification Number: 1395

### Certificate of Analysis

Montgomery & Associates  
for Salinas Vly Basin GW Sustainability  
201 Hoffman Ave  
Monterey, CA 93940  
[aostovar@elmontgomery.com](mailto:aostovar@elmontgomery.com)

Page 1 of 3

Saturday, June 29, 2024

**Lab Number:** AC81866

Sample Site: 180/400-DA-2 CORDA ROAD

Source Code:

Sample ID:

**Client Code:** OTHER

Collection Date/Time: 6/11/2024 12:30

Submittal Date/Time: 6/11/2024 13:07

Sample Collector: CAWDREY D

Sample Comments: Water. Receiving temperature 13.9 °C.

Analyte	Method	Unit	Result	Qual	PQL	Analysis Start Date/Time
adjusted Sodium Adsorption R	UC Davis1993		1.35			6/27/2024 8:00
Agriculture-Conductivity	SM2510B	dS/m	0.61		.1	6/14/2024 9:11
Arsenic	Attached	Attached	Completed		Attached	6/18/2024 12:00
Bicarbonate Alkalinity (as HCO	Calculated	mg/L	191.5		1.0	6/11/2024 13:17
Boron	SM4500B B-2000	mg/L	0.18		0.10	6/12/2024 8:40
Calcium	ASTM6919-17	mg/L	57		5	6/19/2024 21:00
Carbonate Alkalinity (as CO3)	Calculated	mg/L	<1		1.0	6/11/2024 13:17
Cl (Chloride)	EPA300.0 REV 2.1	mg/L	23		0.1	6/11/2024 23:13
Conductivity @ 25C	SM2510 B-2011	umho/cm	606		2	6/14/2024 9:11
Hardness	SM2340 B-2011	mg/L	221		1.7	6/22/2024 16:32
Iron	EPA200.7	ug/L	<100		100	6/20/2024 13:30
Magnesium	ASTM6919-17	mg/L	19		1	6/19/2024 21:00
Manganese (Mn)	EPA200.7	ug/L	7		1	6/20/2024 13:30
Nitrate Nitrogen	EPA300.0	mg/L	0.3		0.1	6/11/2024 23:13
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<0.05		0.05	6/11/2024 14:10
NO3 (Nitrate)	EPA300.0 REV 2.1	mg/L	1.4		0.5	6/11/2024 23:13
pH (Laboratory)	SM4500H+ B-2011	pH	7.2	HT	0.1	6/11/2024 13:17
Potassium	ASTM6919-17	mg/L	2.9		1	6/19/2024 21:00
SO4 (Sulfate)	EPA300.0 REV 2.1	mg/L	120		0.5	6/11/2024 23:13
Sodium	ASTM6919-17	mg/L	42		1	6/19/2024 21:00

AC818676/29/2024 8:47 AM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

Sodium Adsorption Ratio (SAR)	L.V. Wilcox		<b>1.21</b>	N/A	6/27/2024	8:00
Total Alkalinity (as CaCO <sub>3</sub> )	SM2320 B-2011	mg/L	<b>157</b>	2	6/11/2024	13:17
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	<b>405</b>	5	6/13/2024	9:50

**Lab Number: AC81867**

Sample Site: 180/400-DA-3 BLACKIE ROAD

Source Code:

Sample ID:

**Client Code: OTHER**

Collection Date/Time: 6/11/2024 9:45

Submittal Date/Time: 6/11/2024 13:07

Sample Collector: CAWDREY D

Sample Comments: Water. Receiving temperature 2.6 °C.

Analyte	Method	Unit	Result	Qual	PQL	Analysis Start Date/Time
adjusted Sodium Adsorption R	UC Davis1993		<b>20.4</b>			6/27/2024 8:00
Agriculture-Conductivity	SM2510B	dS/m	<b>3.22</b>		.1	6/14/2024 9:11
Arsenic	Attached	Attached	<b>Completed</b>		Attached	6/18/2024 12:00
Bicarbonate Alkalinity (as HCO <sub>3</sub> )	Calculated	mg/L	<b>235.5</b>		1.0	6/11/2024 13:26
Boron	SM4500B B-2000	mg/L	<b>2.5</b>		0.5	6/12/2024 8:40
Calcium	ASTM6919-17	mg/L	<b>57</b>		5	6/19/2024 21:00
Carbonate Alkalinity (as CO <sub>3</sub> )	Calculated	mg/L	<b>&lt;1</b>		1.0	6/11/2024 13:26
Cl (Chloride)	EPA300.0 REV 2.1	mg/L	<b>890</b>		0.5	6/11/2024 23:26
Conductivity @ 25C	SM2510 B-2011	umho/cm	<b>3220</b>		4	6/14/2024 9:11
Hardness	SM2340 B-2011	mg/L	<b>192</b>		1.7	6/22/2024 16:31
Iron	EPA200.7	ug/L	<b>2870</b>		200	6/20/2024 13:30
Magnesium	ASTM6919-17	mg/L	<b>12</b>		1	6/19/2024 21:00
Manganese (Mn)	EPA200.7	ug/L	<b>303</b>		2	6/20/2024 13:30
Nitrate Nitrogen	EPA300.0	mg/L	<b>&lt;0.5</b>		0.5	6/11/2024 23:26
Nitrite as nitrogen	SM4500 NO2 B	mg/L	<b>&lt;0.05</b>		0.05	6/11/2024 14:10
NO <sub>3</sub> (Nitrate)	EPA300.0 REV 2.1	mg/L	<b>&lt;2</b>		2	6/11/2024 23:26
pH (Laboratory)	SM4500H+ B-2011	pH	<b>7.4</b>	<b>HT</b>	0.1	6/11/2024 13:26
Potassium	ASTM6919-17	mg/L	<b>3.5</b>		1	6/19/2024 21:00
SO <sub>4</sub> (Sulfate)	EPA300.0 REV 2.1	mg/L	<b>2.9</b>		2	6/11/2024 23:26
Sodium	ASTM6919-17	mg/L	<b>582</b>		1	6/19/2024 21:00
Sodium Adsorption Ratio (SAR)	L.V. Wilcox		<b>18.0</b>		N/A	6/27/2024 8:00
Total Alkalinity (as CaCO <sub>3</sub> )	SM2320 B-2011	mg/L	<b>193</b>		2	6/11/2024 13:26
Total Dissolved Solids (TDS)	SM2540 C-2015	mg/L	<b>1750</b>		5	6/13/2024 9:50

AC818676/29/2024 8:47 AM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit

## Data Qualifier/Notes:

pH: The recommended holding time for this analysis is 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past hold time.

Report approved by:



Donna Ferguson, Ph.D, P.H.M  
Laboratory Director

AC818676/29/2024 8:47 AM

mg/L: Milligrams per liter (=ppm)

ug/L : Micrograms per liter (=ppb)

PQL : Practical Quantitation Limit



BSK Associates Laboratory Fresno  
687 N. Laverne Avenue  
Fresno, CA 93727  
559-497-2888 (Main)

**AHF1651**

**6/26/2024**

Invoice: AH15421

Donna Ferguson, PhD  
Monterey CHD  
1270 Natividad Rd. Rm A15  
Salinas, CA 93906

**RE: Report for AHF1651 General**

Dear Donna Ferguson, PhD,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 6/12/2024. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Jaime Lee LaFave, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Senior Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021



**Case Narrative**

Project and Report Details		Invoice Details
<b>Client:</b>	Monterey CHD	<b>Invoice To:</b> Monterey CHD
<b>Report To:</b>	Donna Ferguson, PhD	<b>Invoice Attn:</b> Donna Ferguson, PhD
<b>Project #:</b>	Other	<b>Project PO#:</b> DO 4000 0000022690
<b>Received:</b>	6/12/2024 - 11:18	
<b>Report Due:</b>	6/26/2024	

**Sample Receipt Conditions**

**Cooler:** Default Cooler  
**Temperature on Receipt °C:** 4.2

Containers Intact  
COC/Labels Agree  
Received On Blue Ice  
Packing Material - Other  
Sample(s) were received in temperature range.  
Initial receipt at BSK-FAL

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

\*\*\*None applied\*\*\*

**Report Distribution**

Recipient(s)	Report Format	CC:
Theresa Hodges	FINAL.RPT	



AHF1651

General

Other

## Certificate of Analysis

Sample ID: AHF1651-01

Sampled By: D. Cawdrey

Sample Description: 180/400-DA-2 (Corda Road) // AC81866

Sample Date - Time: 06/11/2024 - 12:30

Matrix: Drinking Water

Sample Type: Grab

### BSK Associates Laboratory Fresno

#### Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	ND	2.0	ug/L	1	AHF0873	06/13/24	06/18/24	



**AHF1651**

**General**

Other

## Certificate of Analysis

**Sample ID:** AHF1651-02

**Sampled By:** D. Cawdrey

**Sample Description:** 180/400-DA-3 (Blackie Road) // AC81867

**Sample Date - Time:** 06/11/2024 - 09:45

**Matrix:** Drinking Water

**Sample Type:** Grab

### *BSK Associates Laboratory Fresno*

#### Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic	EPA 200.8	27	2.0	ug/L	1	AHF0873	06/13/24	06/18/24	



AHF1651

General

BSK Associates Laboratory Fresno

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: AHF0873

Prepared: 6/13/2024

Prep Method: EPA 200.2

Analyst: AHS

Blank (AHF0873-BLK1)

Arsenic	ND	2.0	ug/L							06/18/24	
---------	----	-----	------	--	--	--	--	--	--	----------	--

Blank Spike (AHF0873-BS1)

Arsenic	230	2.0	ug/L	240	ND	96	85-115			06/18/24	
---------	-----	-----	------	-----	----	----	--------	--	--	----------	--

Blank Spike Dup (AHF0873-BSD1)

Arsenic	230	2.0	ug/L	240	ND	96	85-115	1	20	06/18/24	
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Matrix Spike (AHF0873-MS1), Source: AHF1651-01

Arsenic	230	2.0	ug/L	240	ND	97	70-130			06/18/24	
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Matrix Spike (AHF0873-MS2), Source: AHF1740-01

Arsenic	230	2.0	ug/L	240	ND	96	70-130			06/18/24	
---------	-----	-----	------	-----	----	----	--------	--	--	----------	--

Matrix Spike Dup (AHF0873-MSD1), Source: AHF1651-01

Arsenic	230	2.0	ug/L	240	ND	96	70-130	1	20	06/18/24	
---------	-----	-----	------	-----	----	----	--------	---	----	----------	--

Matrix Spike Dup (AHF0873-MSD2), Source: AHF1740-01

Arsenic	230	2.0	ug/L	240	ND	95	70-130	1	20	06/18/24	
---------	-----	-----	------	-----	----	----	--------	---	----	----------	--

## Certificate of Analysis

### Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.  
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

## Certificate of Analysis

### Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

**Please see the individual Subcontract Lab's report for applicable certifications.**

**The following parameters are not available for certification through CA ELAP:**

Odor                                      Diisopropyl ether (DIPE) by EPA 524.2

**The following parameters are calculated values and are outside the scope of our NELAP accreditation:**

Total Nitrogen                      Aggressive Index                      Trivalent Chromium

**BSK is not accredited under the NELAP program for the following additional parameters:**

**\*\*NA\*\***

## Certificate of Analysis

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

### Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-023
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-023
EPA UCMR5	CA00079	State of Washington	C997-24a

### Sacramento

State of California - ELAP	1180-S1
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### San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

### Vancouver

NELAP certified	WA100008-018	State of Oregon - NELAP	WA100008-018
State of Washington	C824-23b		





10

# Sample Integrity

BSK Bottles: Yes **No**

Page 1 of 1

COC Info		Yes		No		NA		Were correct containers and preservatives received for the tests requested?		Yes		No	
Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		Yes		No		NA		Were correct containers and preservatives received for the tests requested?		Yes		No	
If samples were taken today, is there evidence that chilling has begun?		Yes		No		NA		Bubbles Present VOAs (524.2/TTHM/TCP)?		Yes		No	
Did all bottles arrive unbroken and intact?		Yes		No				TB Received? (Check Method Below)		Yes		No	
Did all bottle labels agree with COC?		Yes		No				Was a sufficient amount of sample received?		Yes		No	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes		NA				Do samples have a hold time <72 hours?		Yes		No	
								Was PM notified of discrepancies?		Yes		No	
								PM: _____ dt: _____ email scan copy		Yes		No	
250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)		Checks*		Passed?									
Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		—		—									
None (P) White Label		—		—									
Cr6 (P) Lt. Green Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> DW		Cl, pH > 8		P F									
Cr6 (P) Pink Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> WW		pH 9.3-9.7		P F									
Cr6 (P) Black Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5		P F									
HNO <sub>3</sub> (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label		—		—									
H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Label		pH < 2		P F									
NaOH (P) Green Cap/Label		Cl, pH > 10		P F									
NaOH + ZnAc (P)		pH > 9		P F									
Dissolved Oxygen 300ml (g)		—		—									
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—		—									
HCl (AG) Lt. Blue Label O&G, Diesel, TCP		—		—									
Ascorbic, EDTA, KH <sub>2</sub> Ct (AG) Pink Label 525		—		—									
Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515		—		—									
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549		—		—									
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524		—		—									
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547		—		—									
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531		pH < 3		P F									
NH <sub>4</sub> Cl (AG) Purple Label 552		—		—									
EDA (P) or (AG) Brown Label DBPs		—		—									
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—		—									
Buffer pH 4 (CG)		—		—									
H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label		—		—									
Trizma - EPA 537.1 Light Blue Label FB		—		—									
Ammonia Acetate - EPA 533 Purple Label FB		—		—									
Bottled Water		—		—									
Clear Glass: Jar / VOA		—		—									
OTHER:		—		—									
OTHER:		—		—									
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check						
	S P					pH Lot #							
	S P					Cl Lot #							
Comments	*Preservation check completed by lab performing analysis.			✓ Indicates Blanks Received									
	Labeled by: _____			504 _____ 524.2 _____ TTHM _____ 537/533 _____ TCP _____									
Checked by: _____			✓ MS/MSD Received Method: _____										

Scanned: Rush/Short HT Page: \_\_\_\_\_ Time: \_\_\_\_\_



1414 Stanislaus St., Fresno, CA 93706  
(559) 497-2888 - Fax (559) 497-2893  
www.bs&kassociates.com

**Turnaround Time Request**  
☒ Standard - 10 business days  
☐ Rush (Surcharge may apply)  
Date needed:

AHF1651 Monte4516 06/12/2024  
10  
Y

\*Required Fields

Temp: 42

Thermometer ID: 65

Invoice To: 65

Phone: (831) 755-4516

Fax: (831) 755-4652

E-mail:

Company/Client Name: Monterey CHD

Report Attention: Donna Ferguson

Additional cc's:

Address: 1270 Natividad Road

City: Salinas

State: CA

Zip: 93906

Project #:

Other:

Reporting Options:  
☐ Trace (J-Fing) ☐ Swamp ☐ EDD Type: \_\_\_\_\_

Regulatory Carbon Copies  
☐ SWRCB (Drinking Water) ☐ Merced Co ☐ Madera Co ☐ Other: \_\_\_\_\_

Regulatory Compliance  
☐ EDT to California SWRCB (Drinking Water) ☐ System Number: \_\_\_\_\_

Geotracker #: \_\_\_\_\_

Matrix Types: SV=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

Sampler Name (Printed/Signature): D. Cawdrey

Matrix: \_\_\_\_\_

Comments / Station Code / WTRAX

Arsonic

Sample Description: 180/400-DA-2 (Corda Road)

Sampled: 6/11/24 1230

Matrix: DW

Comments: AC81866

Station Code: AC81867

WTRAX: X

Company: MCHD

Date: 6/11/2024

Time: 1600

Received by: (Signature and Printed Name)

Received by: (Signature and Printed Name)

Payment Received at Delivery:

Amount: \_\_\_\_\_

PIA#: \_\_\_\_\_

Check: \_\_\_\_\_

Cash: \_\_\_\_\_

Shipping Method: ONTRAC

UPS

GSO

WALK-IN

FED EX

Courier: \_\_\_\_\_

Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

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Custody Seal: Y

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Courier: \_\_\_\_\_

Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

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Payment Received at Delivery:

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Shipping Method: ONTRAC

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Courier: \_\_\_\_\_

Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

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Shipping Method: ONTRAC

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Custody Seal: Y

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Custody Seal: Y

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Cash: \_\_\_\_\_

Shipping Method: ONTRAC

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Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

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Received by: (Signature and Printed Name)

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PIA#: \_\_\_\_\_

Check: \_\_\_\_\_

Cash: \_\_\_\_\_

Shipping Method: ONTRAC

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Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

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PIA#: \_\_\_\_\_

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Cash: \_\_\_\_\_

Shipping Method: ONTRAC

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Courier: \_\_\_\_\_

Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

Company: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Received by: (Signature and Printed Name)

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Payment Received at Delivery:

Amount: \_\_\_\_\_

PIA#: \_\_\_\_\_

Check: \_\_\_\_\_

Cash: \_\_\_\_\_

Shipping Method: ONTRAC

UPS

GSO

WALK-IN

FED EX

Courier: \_\_\_\_\_

Chilling Process Begun: \_\_\_\_\_

Custody Seal: Y

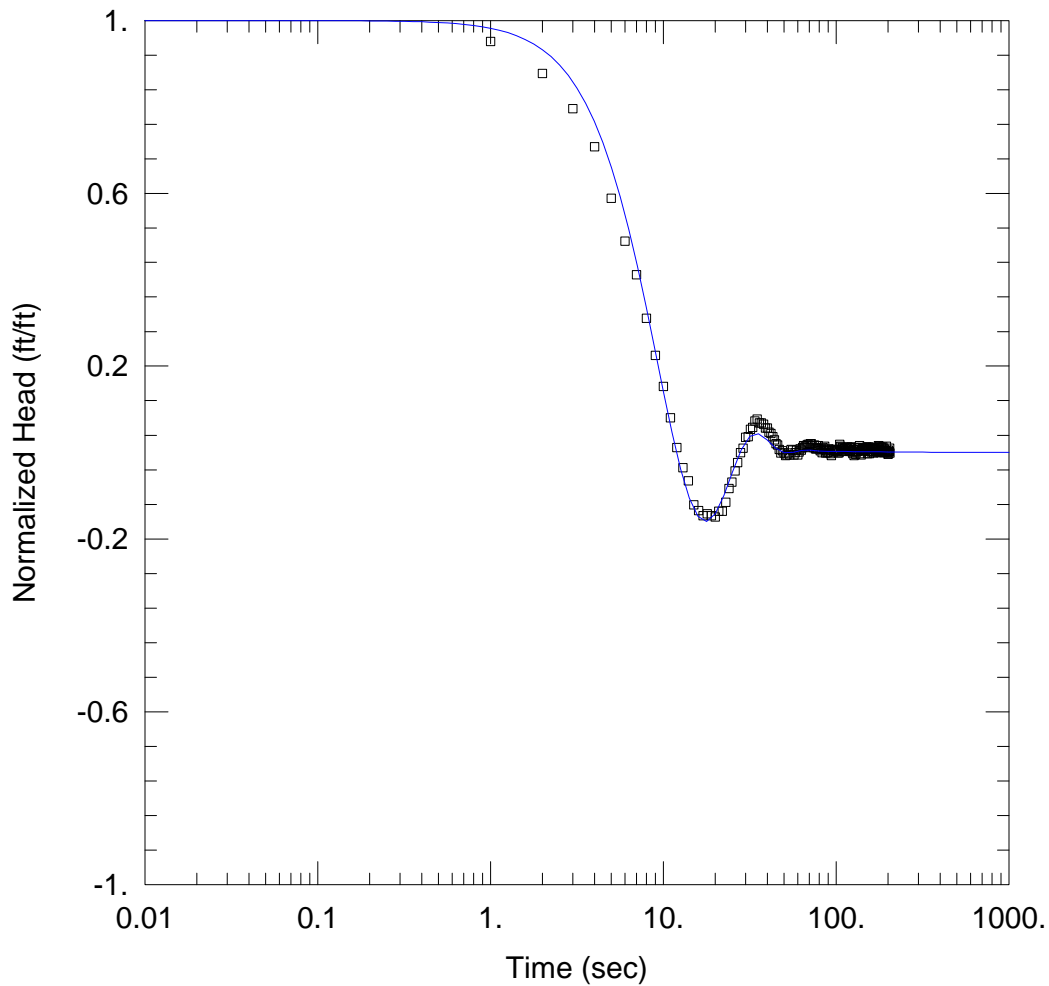
Company: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

## **Appendix D**

### **Pneumatic Slug Test Analysis**



## WELL TEST ANALYSIS

### PROJECT INFORMATION

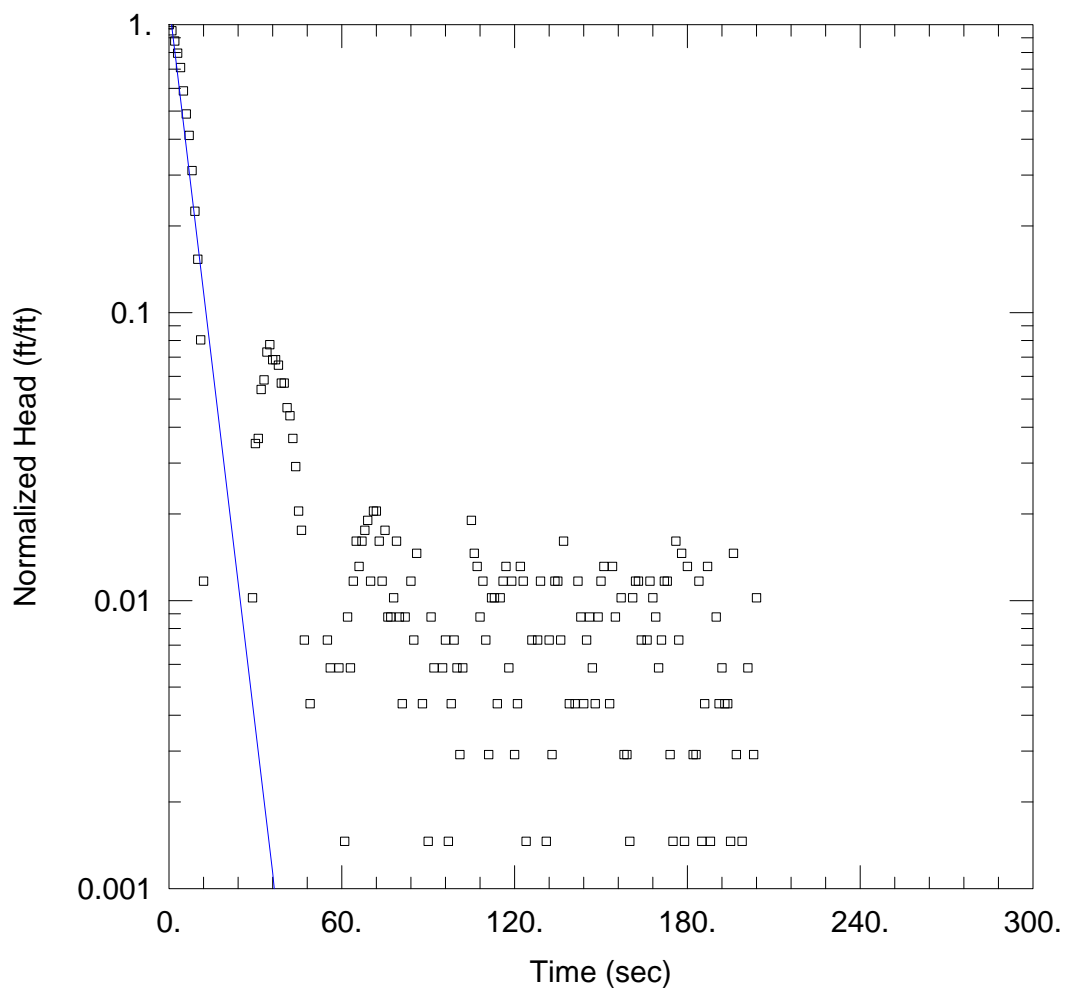
Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-1

### WELL DATA (180/400-DA-1)

Initial Displacement: <u>6.85</u> ft	Static Water Column Height: <u>925.</u> ft
Total Well Penetration Depth: <u>100.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.4</u> ft

### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Butler-Zhan</u>
Kr = <u>25.14</u> ft/day	Ss = <u>2.497E-7</u> ft <sup>-1</sup>
Kz/Kr = <u>1.</u>	Le = <u>848.6</u> ft



## WELL TEST ANALYSIS

### PROJECT INFORMATION

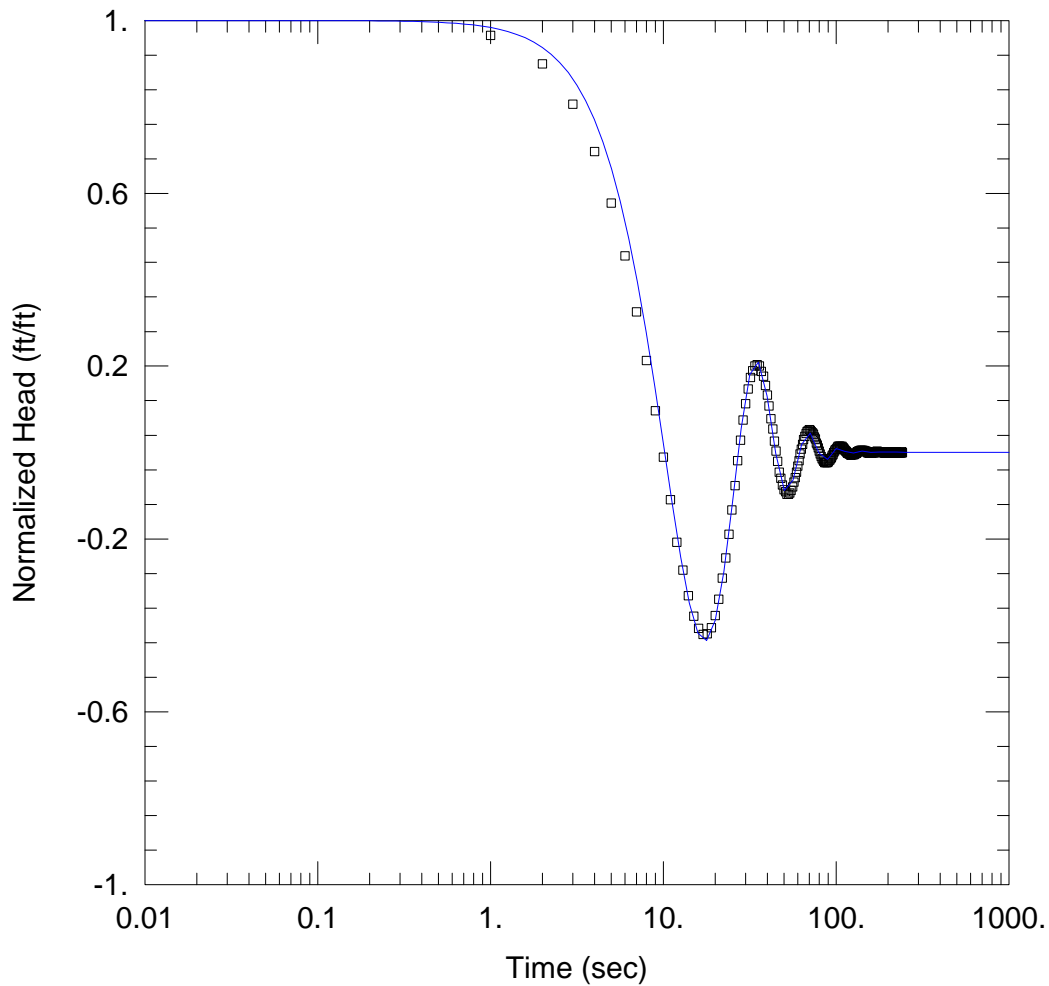
Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-1

### WELL DATA (180/400-DA-1)

Initial Displacement: <u>6.85</u> ft	Static Water Column Height: <u>925.</u> ft
Total Well Penetration Depth: <u>100.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.41</u> ft

### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>26.54</u> ft/day	y0 = <u>8.198</u> ft



## WELL TEST ANALYSIS

### PROJECT INFORMATION

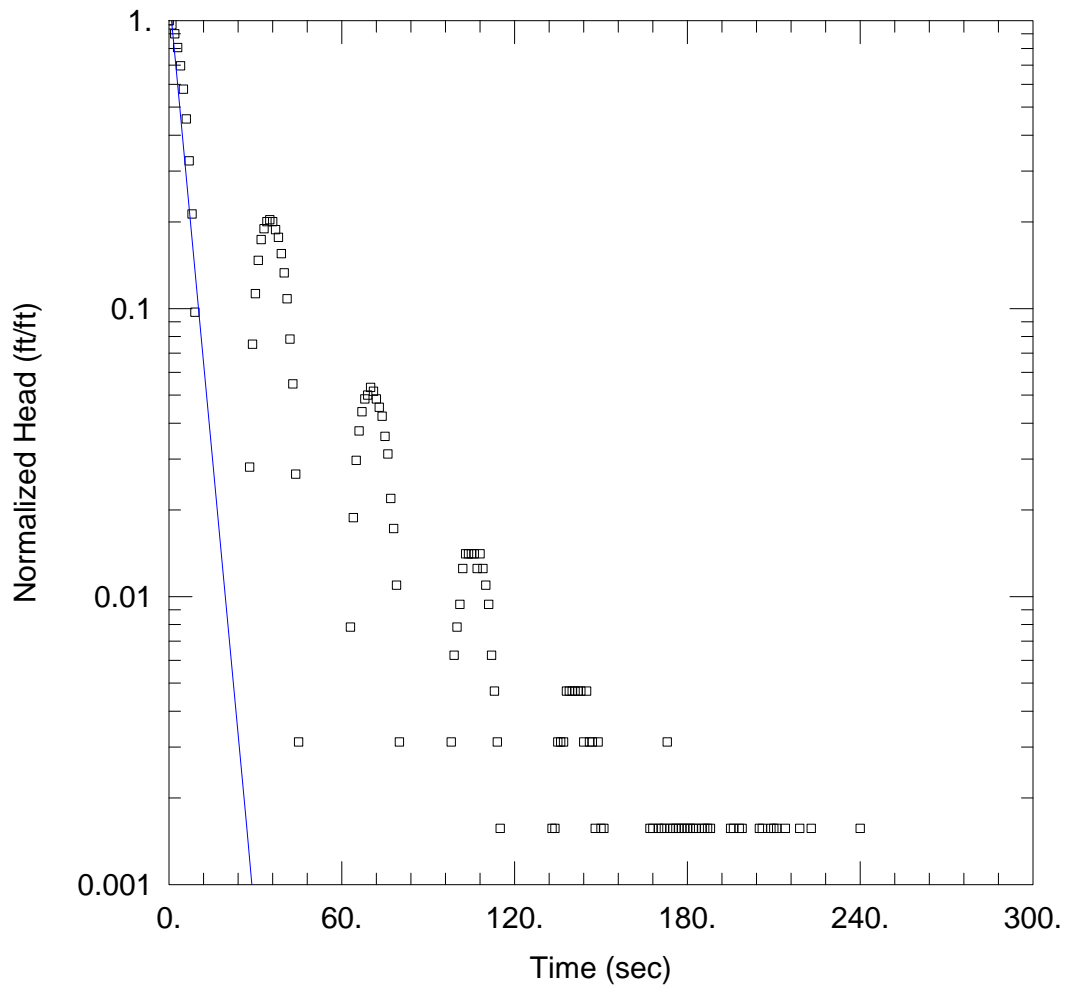
Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-2

### WELL DATA (180/400-DA-2)

Initial Displacement: <u>6.39</u> ft	Static Water Column Height: <u>968.6</u> ft
Total Well Penetration Depth: <u>80.</u> ft	Screen Length: <u>60.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.41</u> ft

### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Butler-Zhan</u>
Kr = <u>44.02</u> ft/day	Ss = <u>1.0E-7</u> ft <sup>-1</sup>
Kz/Kr = <u>1.</u>	Le = <u>966.3</u> ft



### WELL TEST ANALYSIS

#### PROJECT INFORMATION

Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-2

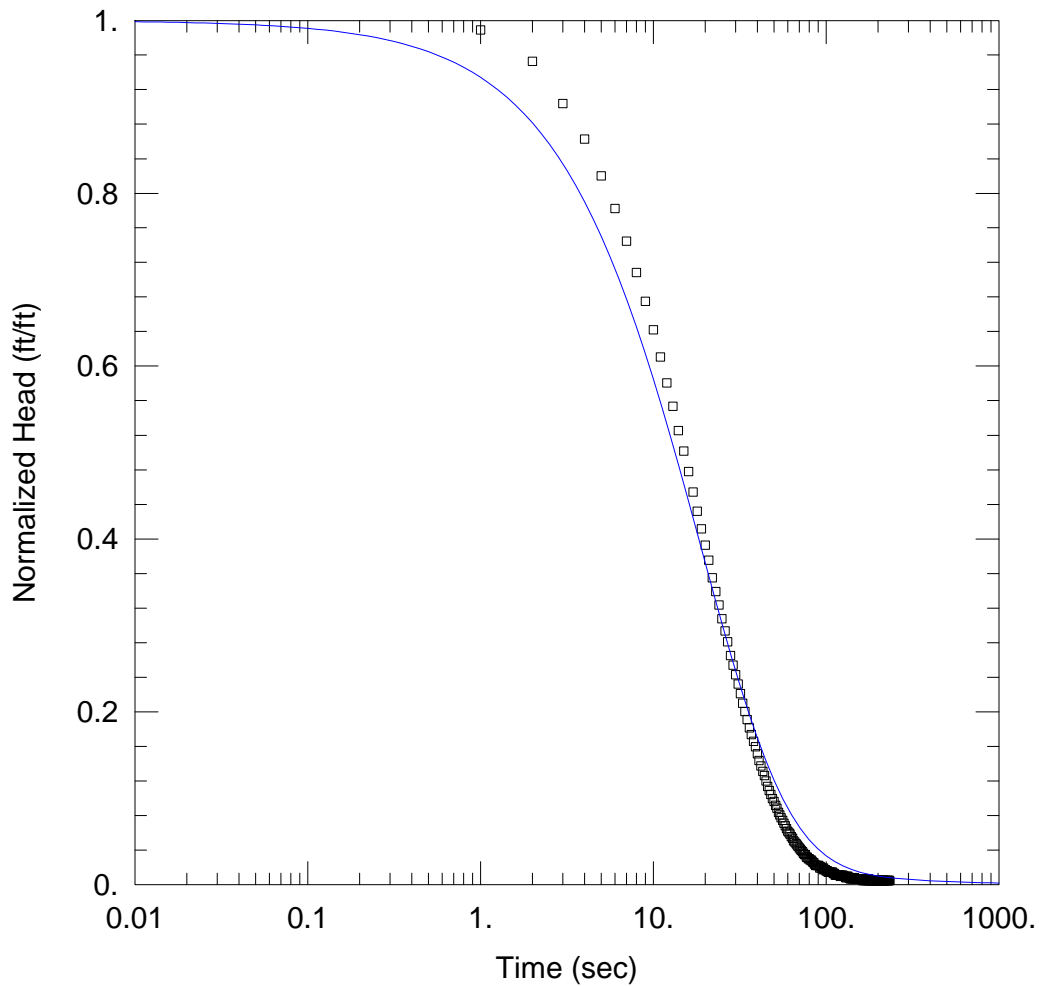
#### WELL DATA (180/400-DA-2)

Initial Displacement: <u>6.39</u> ft	Static Water Column Height: <u>968.6</u> ft
Total Well Penetration Depth: <u>80.</u> ft	Screen Length: <u>60.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.41</u> ft

#### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>29.25</u> ft/day	y0 = <u>8.068</u> ft





### WELL TEST ANALYSIS

#### PROJECT INFORMATION

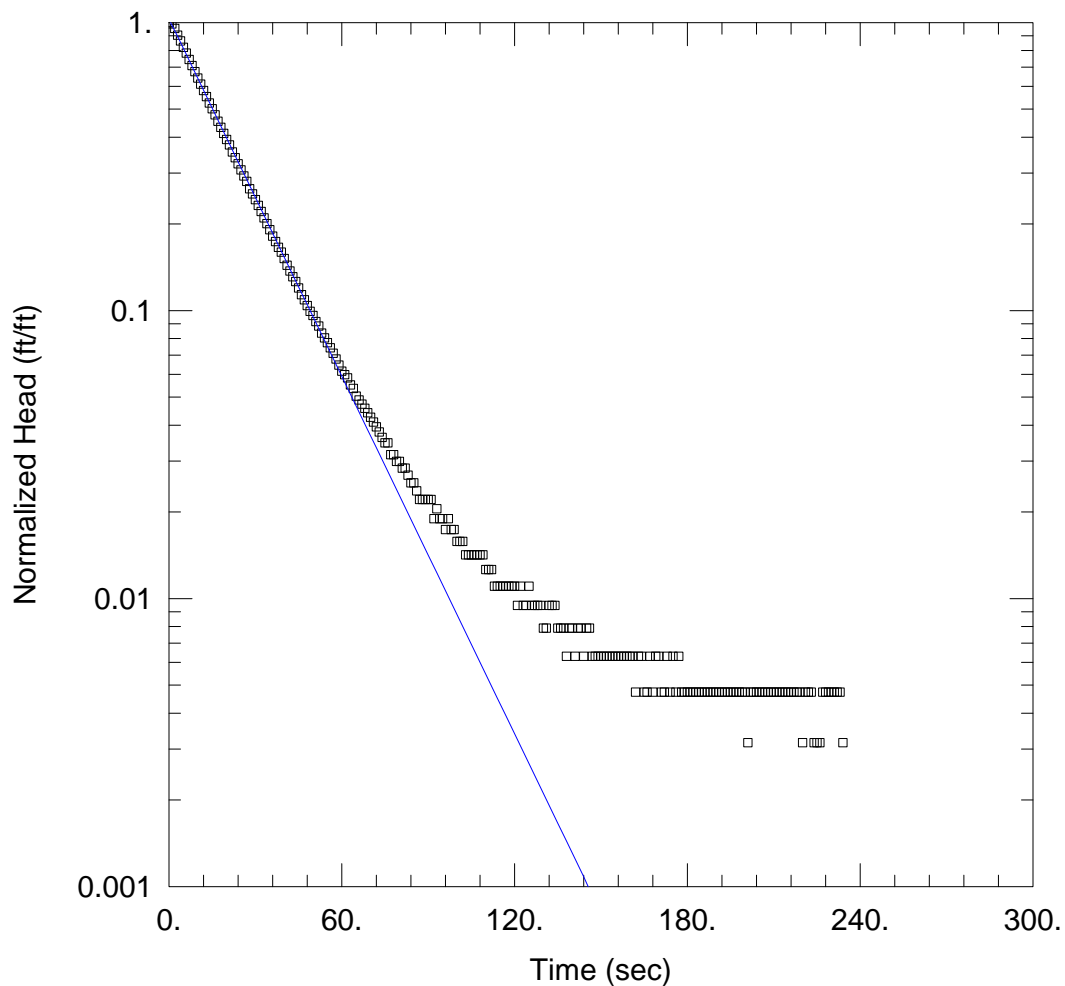
Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-3

#### WELL DATA (180/400-DA-3)

Initial Displacement: <u>6.34</u> ft	Static Water Column Height: <u>1056.5</u> ft
Total Well Penetration Depth: <u>50.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.41</u> ft

#### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>KGS Model</u>
Kr = <u>6.806</u> ft/day	Ss = <u>1.0E-7</u> ft <sup>-1</sup>
Kz/Kr = <u>1.</u>	



### WELL TEST ANALYSIS

#### PROJECT INFORMATION

Company: Montgomery & Associates  
 Client: SVB GSA  
 Project: 9100.5904  
 Location: 180/400-DA-3

#### WELL DATA (180/400-DA-3)

Initial Displacement: <u>6.34</u> ft	Static Water Column Height: <u>1056.5</u> ft
Total Well Penetration Depth: <u>50.</u> ft	Screen Length: <u>50.</u> ft
Casing Radius: <u>0.17</u> ft	Well Radius: <u>0.41</u> ft

#### SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Hvorslev</u>
K = <u>6.539</u> ft/day	y0 = <u>6.536</u> ft