

April 17, 2020

Vertex Project #: 20E-00141-010

| Spill Closure Report: | Arena Roja Fed Unit 15H-16H and Unit 2 CTB           |
|-----------------------|--|
|                       | Unit A, Section 28, Township 26 South, Range 35 East |
|                       | County: Lea  |
|                       | API: 30-025-42671, 42672                             |
|                       | Tracking Number(s): nJXK1532330117, TBD              |
| Prepared For:         | Devon Energy Production Company                      |

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 1 – Hobbs 1625 North French Drive Hobbs, New Mexico 88240

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for two releases that occurred at Arena Roja Fed Unit 15H-16H, API 30-025-42671, 42672 and the Unit 2 Central Tank Battery (CTB; hereafter referred to as "Arena Roja"). Devon provided notification of the spills to New Mexico Oil Conservation Division (NM OCD) District 1, and the Bureau of Land Management (BLM), on November 16, 2015, for the treated water release and December 24, 2019, for the oil release, followed by their respective initial C-141 Release Notifications (Attachment 1). The tracking number assigned to the 2015 incident is nJXK1532330117 and the tracking number for the 2019 incident has not yet been assigned.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NM OCD for closure of this release.

#### **Incident Description**

On November 16, 2015, a release occurred at Devon's Arena Roja site when a sudden inrush of air from the transfer lines caused a bladder to split on the minion tanks during prefilling. This incident resulted in the release of approximately 20 barrels (bbls) of treated water onto the constructed wellpad. Upon discovery of the release, the remaining treated water in the minion tanks was transferred to frac tanks before a vacuum truck returned it to the treated water pond. Approximately 15 bbls of the released treated water was recovered from the wellpad and removed for disposal off-site. All fluids remained within the boundaries of the wellpad.

On December 24, 2019, a release occurred at Arena Roja when the site glass on a heater treater broke. This incident resulted in the release of approximately 9.69 bbls of oil onto the constructed tank battery pad. Approximately 5 bbls were recovered from the wellpad and removed for disposal off-site. No oil was released into undisturbed areas or waterways.

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#### **Site Characterization**

Arena Roja is located on federally-owned land, N 32.021, W 103.364, approximately 10 miles southwest of Bennett, New Mexico. The legal description for the site is Unit A, Section 28, Township 26 South, Range 35 East, Lea County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial photograph and site schematic are included in Attachment 2.

Arena Roja is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and is currently used for oil and gas production, and storage. The following sections specifically describe the release area on the northern and western portion of the constructed wellpad where the minion tanks and heater treater are located.

The surrounding landscape has historically been associated with sandy plains and is not prime farmland. The climate is semiarid with average annual precipitation ranging between 10 and 12 inches. The plant community is dominated by black grama, dropseed grass species and bluestems, with scattered shinnery oak and sand sage. Bare ground and litter make up a significant portion of the ground cover (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico indicates the surface geology at Arena Roja is comprised primarily of Qep-Eolian and piedmont deposits (Holocene to middle Pleistecene) characterized by interlayed eolian sand and piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resources Conservation Service Web Soil Survey characterizes the soil at the site as Pyote and Maljamar fine sands, which are associated with sandy eolian deposits derived from sedimentary rock. This type of soil, typically found at elevations of 3,000 to 3,900 feet above sea level, tends to be well-drained with very low runoff and low available moisture in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low potential for karst geology to be present near Arena Roja (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a draw located approximately 0.91 miles northeast of the site (New Mexico Office of the State Engineer, Interstate Stream Commission, 2020). There are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest recent well is a New Mexico Office of the State Engineer well from 2015 located 2.41 miles east of the site. Data for that well shows a depth to groundwater at 250 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). The Chevron Texaco Depth to Groundwater map for Lea county confirms that depth to groundwater in the vicinity of Arena Roja is approximately 200 feet bgs (Chevron Texaco, 2005). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

#### **Closure Criteria Determination**

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the releases would be subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C

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#### of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at Arena Roja is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site is determined to be associated with the following constituent concentration limits based on depth to groundwater.

| Table 1. Closure Criteria for Soils Impacted by a Release |                                       |              |  |
|---|---------------------------------------|--------------|--|
| Depth to Groundwater                                      | Constituent                           | Limit        |  |
|   | Chloride                              | 20,000 mg/kg |  |
| >100 feet   | TPH <sup>1</sup><br>(GRO + DRO + MRO) | 2,500 mg/kg  |  |
|   | GRO + DRO                             | 1,000 mg/kg  |  |
|   | BTEX <sup>2</sup>                     | 50 mg/kg     |  |
|   | Benzene                               | 10 mg/kg     |  |

<sup>1</sup>Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) <sup>2</sup>Benzene, toluene, ethyl benzene and xylenes (BTEX)

#### **Remedial Actions**

An initial spill inspection, completed by Vertex on January 28, 2020, identified and mapped the boundaries of the two releases. The release area for the 2015 incident was determined to be approximately 60 feet long by 50 feet wide. The release area for the 2019 incident was determined to be approximately 25 feet long by 30 feet wide. The Daily Field Reports (DFRs) associated with the site inspection are included as Attachment 4.

On February 20, 2020, Vertex provided 48-hour notification of the confirmation sampling to NM OCD and the BLM (Attachment 5), as required by Subparagraph (a) of Paragraph (5) of Subsection A 19.15.29.11 NMAC. On February 25 and 26, 2020, Vertex was onsite to oversee remediation activities and conduct confirmatory sampling. A total of 11 five-point composite confirmatory samples were collected from the remediated areas and an adjacent portion of the wellpad that was potentially impacted by the 2015 release. The composite samples were placed into laboratory-provided containers, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sampling analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) or similar was used to map the approximate center of each of the five-point composite samples. The confirmatory sampling locations for each release are presented on Figure 2 and Figure 3 (Attachment 2).

#### **Closure Request**

Vertex recommends no additional remediation to address the releases at Arena Roja. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD Closure Criteria for areas

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Devon Energy Production Company Arena Roja Fed Unit 15H-16H and Unit 2 CTB

where depth to groundwater is greater than 100 feet bgs as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that both incidents be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the November 16, 2015, and December 24, 2019, releases at Arena Roja.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 505.506.0040 or ngordon@vertex.ca.

Sincerely,

atabe Fordon

Natalie Gordon PROJECT MANAGER

| Attachments |
|-------------|
|-------------|

- Attachment 1. NM OCD C-141 Report
- Attachment 2. Figures Site Schematic and Confirmatory Sample Locations
- Attachment 3. Closure Criteria for Soils Impacted by a Release Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs
- Attachment 5. Required 48-hr Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 6. Confirmatory Sampling Laboratory Results
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms

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#### References

Chevron Texaco. (2005). Lea County Depth to Groundwater, Water Wells, Facilities.

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu.
- New Mexico Office of the State Engineer, Interstate Stream Commission. (2020). OSE POD Locations. Retrieved from https://gis.ose.state.nm.us/gisapps/ose\_pod\_locations/.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2020). *Well Log/Meter Information Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico.

2020 Spill Assessment and Closure April 2020

#### Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company (Devon). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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### **ATTACHMENT 1**

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

| State of New Mexic          | RECEIVED                              | E                |
|-----------------------------|---------------------------------------|------------------|
| Energy Minerals and Natural | By JKeyes at 8:25 am, Nov             | 19, 2015         |
| Oil Conservation Divi       | sion Submit I Copy to appropriate Dis | strict Office in |

1220 South St. Francis Dr. Santa Fe, NM 87505

accordance with 19.15.29 NMAC.

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Release Notification and Corrective Action

| ion and Correc  | cuve Action                           |
|-----------------|---------------------------------------|
| <b>OPERATOR</b> | 🛛 Initial Report 🔲 Final Report       |
| Contact:        | Jeff Heath, Devon Assist. Foreman     |
| Telephone No.   | 575- 513-2274                         |
| Facility Type : | 2-well pad location                   |
|                 | OPERATOR<br>Contact:<br>Telephone No. |

Surface Owner: Federal

N ( E F

Mineral Owner: Federal

API No. 30-025-42671, 42672

#### LOCATION OF RELEASE

| the second | tion Township<br>26S | Range<br>35E | Feet from the 184 | North/South Line<br>North | Feet from the 200 | East/West Line<br>East | County<br>Lea |
|---|----------------------|--------------|-------------------|---------------------------|-------------------|------------------------|---------------|
| A 2   | 26S                  | 35E          | 184               | North                     | 200               | East                   | Lea           |

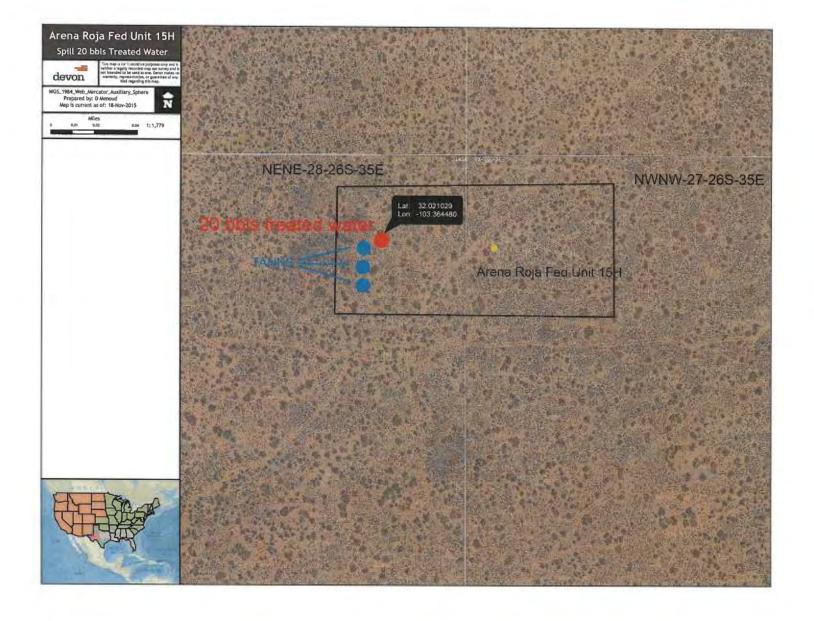
Latitude: 32.021029 Longitude: -103.364480

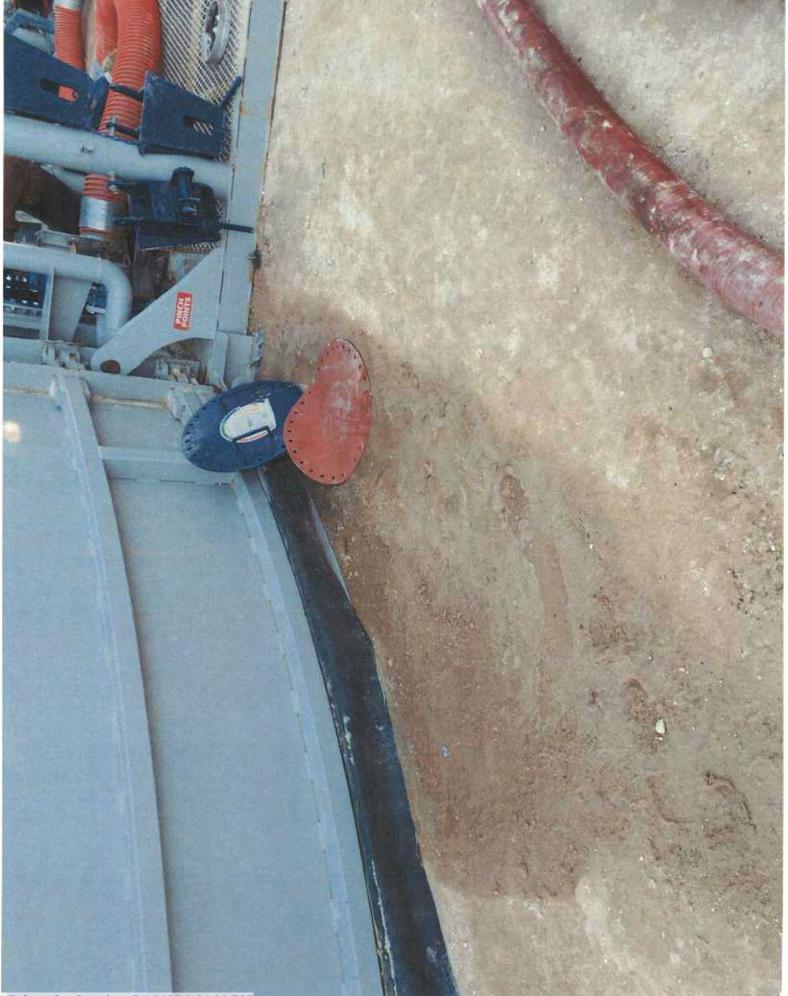
#### NATURE OF RELEASE

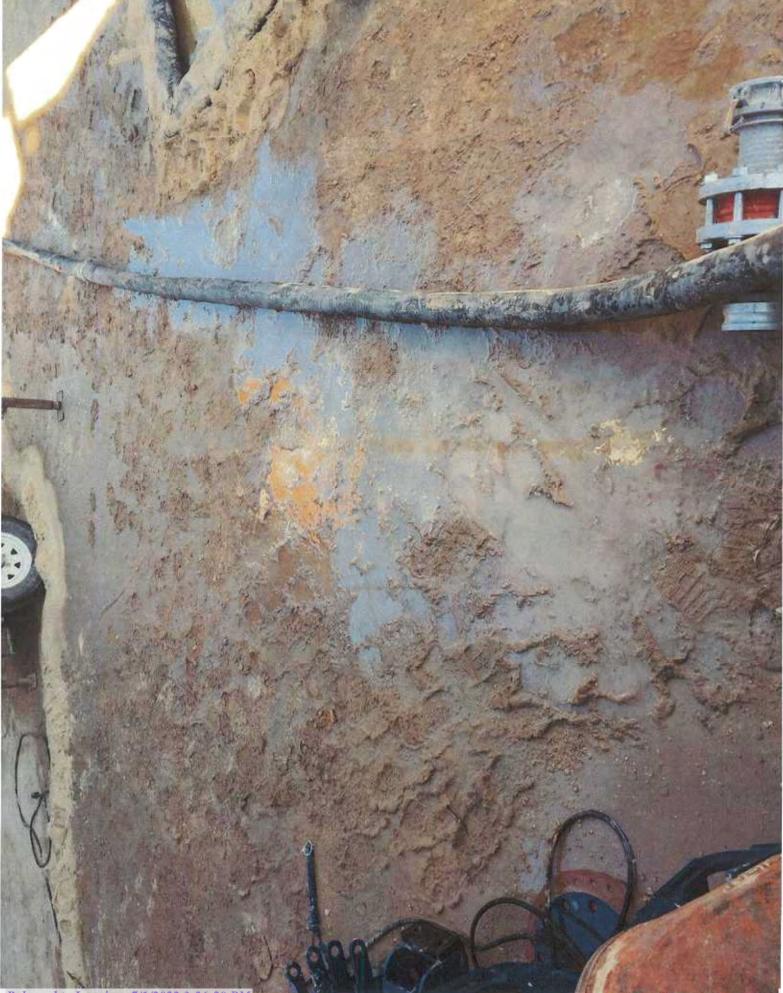
| Trans of D -largery Trans 1 W/  | 1 X 1 0D 1 00111  | Terra   |
|---|---|---|
| Type of Release: Treated Water  | Volume of Release: 20 bbls  | Volume Recovered: 15 bbls   |
| Source of Release: The bladder on the minion tanks split.   | Date and Hour of Occurrence   | Date and Hour of Discovery  |
|   | 11/16/15; 4:00 AM   | 11/16/15; 4:00 AM   |
| Was Immediate Notice Given?   | If YES, To Whom?  |   |
| Yes 🔲 No 🗋 Not Required   | BLM-Jim Amos  | OCD-Kelly Jones   |
| By Whom? Jeff Heath   | Date and Hour: 11/16/15; BLM  | M-3:16 PM OCD-7:13 AM   |
| Was a Watercourse Reached?  | If YES, Volume Impacting the Wa   | itercourse.   |
| If a Watercourse was Impacted, Describe Fully.* N/A   |   |   |
| Describe Cause of Problem and Remedial Action Taken.*<br>While prefilling minion tanks, a sudden inrush of air from the transfer lin<br>barrels treated water to spill on location pad. Treated water remaining in<br>the treated water pond. The treated water line was pigged back to the treated   | the minion tanks was transferred to fi  | ninion tanks causing approximately 20<br>rac tanks and vacuum truck put it back into  |
| Describe Area Affected and Cleanup Action Taken.*<br>Approximately 15 barrels of treated water was recovered by vacuum true<br>work plan after completions operations are finished and moved off of loc   | ation.  |   |
| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release the public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations. | notifications and perform corrective ac<br>e NMOCD marked as "Final Report"<br>te contamination that pose a threat to | ctions for releases which may endanger<br>does not relieve the operator of liability<br>ground water, surface water, human health |
| Signature: Denise Menourd   | OIL CONSER  | VATION DIVISION   |
| Printed Name: Denise Menoud   | Approved by Environmental Speciali  | Jan Hlyr<br>st:   |
| Title: Field Admin Support  | 11/19/2015<br>Approval Date:  | Expiration Date: 01/19/2016   |
|   | <b>Conditions of Approval:</b><br>Discrete site samples required. Deline  | ate and Attached  |
|   | remediate per NMOCD guidelines.   | 1RP 3984  |
| Attach Additional Sheets If Necessary   | Geotagged photos of remediation req   | uired.  |

\* Attach Additional Sheets If Necessary

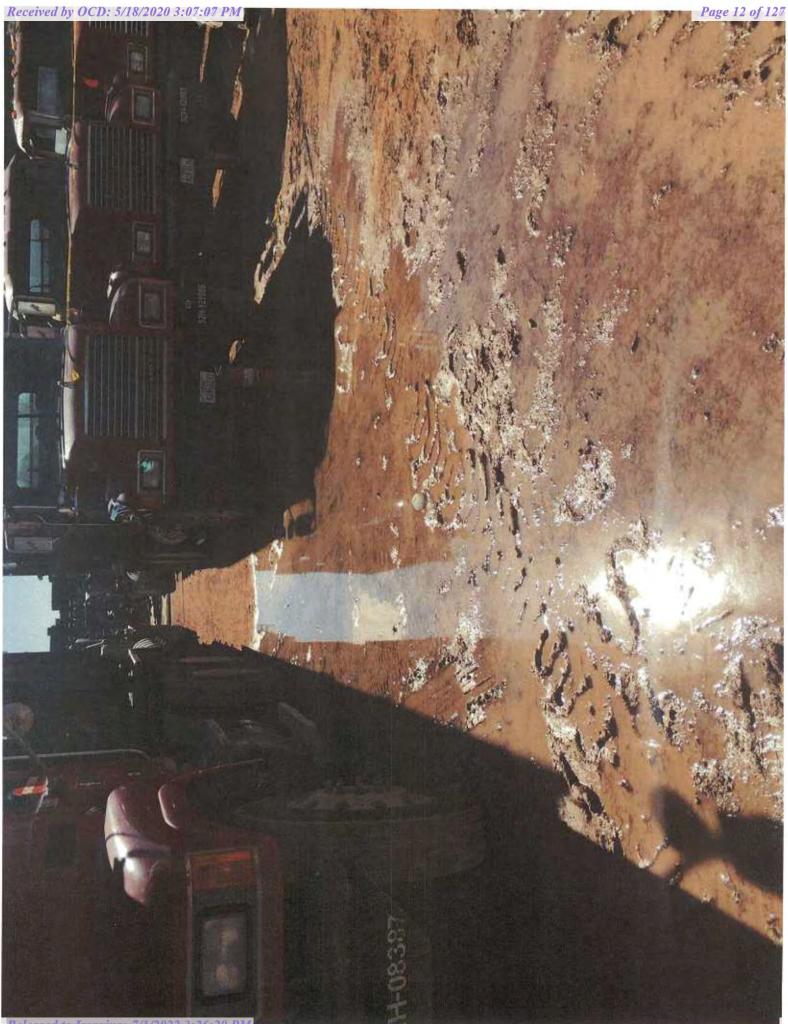
. Released to Imaging: 7/1/2022 3:26:20 PM







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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural **Resources Department** 

**Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## **Release Notification**

### **Responsible Party**

| Responsible Party       | OGRID                        |
|-------------------------|------------------------------|
| Contact Name            | Contact Telephone            |
| Contact email           | Incident # (assigned by OCD) |
| Contact mailing address |                              |

#### **Location of Release Source**

| Latitude  | Longitude                                       |
|-----------|---|
|           | (NAD 83 in decimal degrees to 5 decimal places) |
|           |   |
| Site Name | Site Type                                       |

| Site Name               | Site Type            |
|-------------------------|----------------------|
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             |         |          |       |        |

Surface Owner: State Federal Tribal Private (Name: \_

### **Nature and Volume of Release**

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| Crude Oil        | Volume Released (bbls)  | Volume Recovered (bbls)                 |
|------------------|---|---|
| Produced Water   | Volume Released (bbls)  | Volume Recovered (bbls)                 |
|                  | Is the concentration of total dissolved solids (TDS)<br>in the produced water >10,000 mg/l? | Yes No                                  |
| Condensate       | Volume Released (bbls)  | Volume Recovered (bbls)                 |
| Natural Gas      | Volume Released (Mcf)   | Volume Recovered (Mcf)                  |
| Other (describe) | Volume/Weight Released (provide units)  | Volume/Weight Recovered (provide units) |
| Cause of Release | 1   | <u> </u>                                |
|                  |   |   |
|                  |   |   |

| Page  | 2 |
|-------|---|
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#### Oil Conservation Division

| Incident ID    |  |  |
|----------------|--|--|
| District RP    |  |  |
| Facility ID    |  |  |
| Application ID |  |  |

| Was this a major<br>release as defined by<br>19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release?  |
|--|---|
| If YES, was immediate n  | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |

### **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Printed Name:             | Title:     |
|---------------------------|------------|
| Signature: Kendra DeHoyos | Date:      |
| email:                    | Telephone: |
| OCD Only                  |            |
| Received by:              | Date:      |

| Spi                            | Bbls) Calculator |                           |  |  |  |  |  |  |
|--------------------------------|------------------|---------------------------|--|--|--|--|--|--|
| Inputs in blue, Outputs in red |                  |                           |  |  |  |  |  |  |
| Co                             | ntaminated S     | Soil measurement          |  |  |  |  |  |  |
| Length(Ft)                     | Width(Ft)        | Depth(Ft)                 |  |  |  |  |  |  |
| <u>23</u>                      | <u>26.000</u>    | <u>0.063</u>              |  |  |  |  |  |  |
| Cubic Feet of S                | Soil Impacted    | <u>37.674</u>             |  |  |  |  |  |  |
| Barrels of So                  | il Impacted      | <u>6.72</u>               |  |  |  |  |  |  |
| Soil T                         | уре              | Clay/Sand                 |  |  |  |  |  |  |
| Barrels of Oi                  | l Assuming       | 1.01                      |  |  |  |  |  |  |
| 100% Sat                       | uration          |                           |  |  |  |  |  |  |
| Saturation                     | •                | esent with shovel/backhoe |  |  |  |  |  |  |
| Estimated Ba                   |                  | 1.01                      |  |  |  |  |  |  |
| Relea                          | ised             |                           |  |  |  |  |  |  |
|                                | Free Stand       | ing Fluid Only            |  |  |  |  |  |  |
| Length(Ft)                     | Width(Ft)        | Depth(Ft)                 |  |  |  |  |  |  |
| <u>23</u>                      | <u>20.000</u>    | <u>0.063</u>              |  |  |  |  |  |  |
| Standin                        | g fluid          | <u>5.154</u>              |  |  |  |  |  |  |
| <u>Total fluid</u>             | ls spilled       | <u>6.162</u>              |  |  |  |  |  |  |

#### **Instructions**

1.Input spill area measurements in feet, if less than one foot use converter below.

Select a soil type from the drop down menu.
 Select a saturation level from the drop down menu.

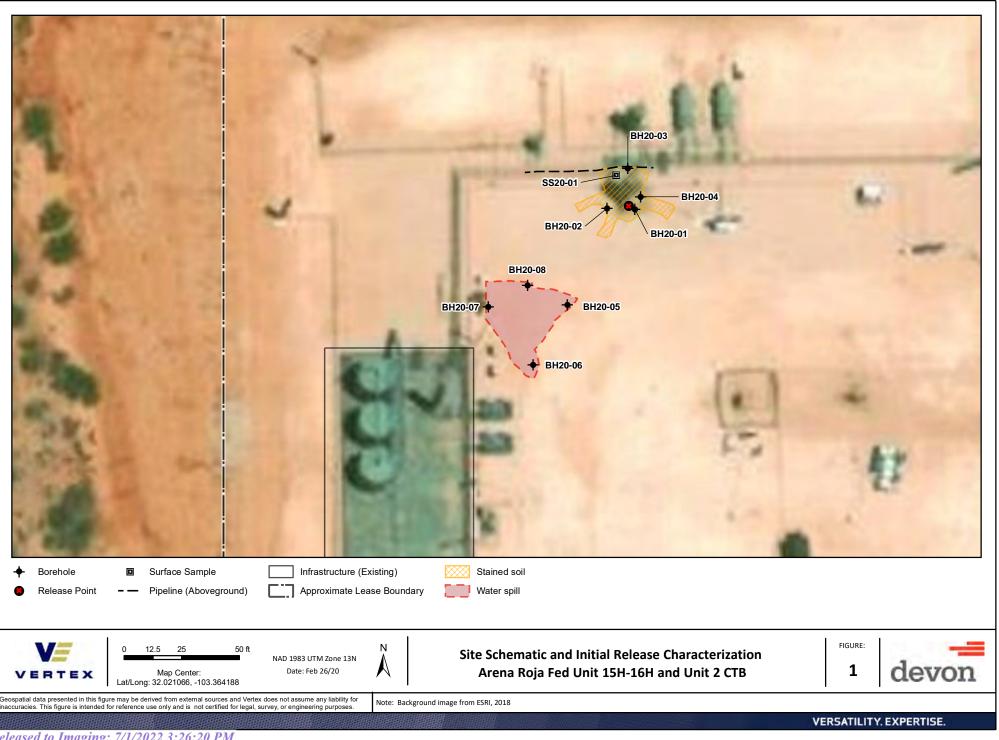
(For data gathering instructions see appendix tab)

| Inches to Feet Converter |        |       |  |  |  |  |  |  |
|--------------------------|--------|-------|--|--|--|--|--|--|
|                          | Inches | Feet  |  |  |  |  |  |  |
| Length                   |        | 0.000 |  |  |  |  |  |  |
| Width                    |        | 0.000 |  |  |  |  |  |  |
| Height                   | 0.75   | 0.063 |  |  |  |  |  |  |

### **ATTACHMENT 2**

Fed Unit 2 Initial

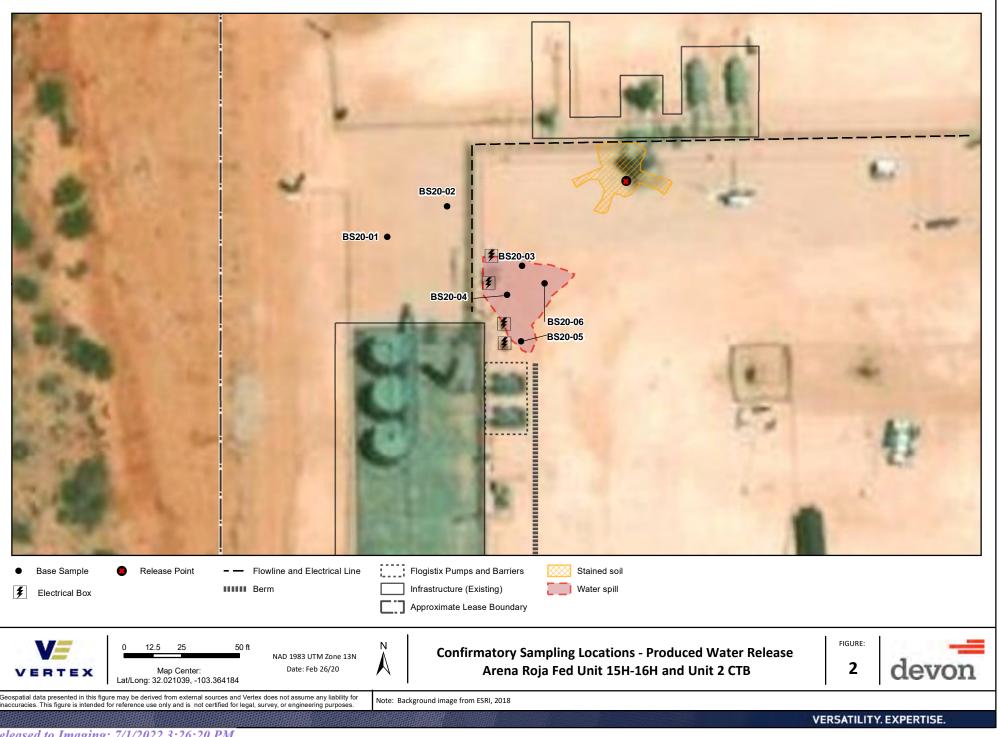
0141/010

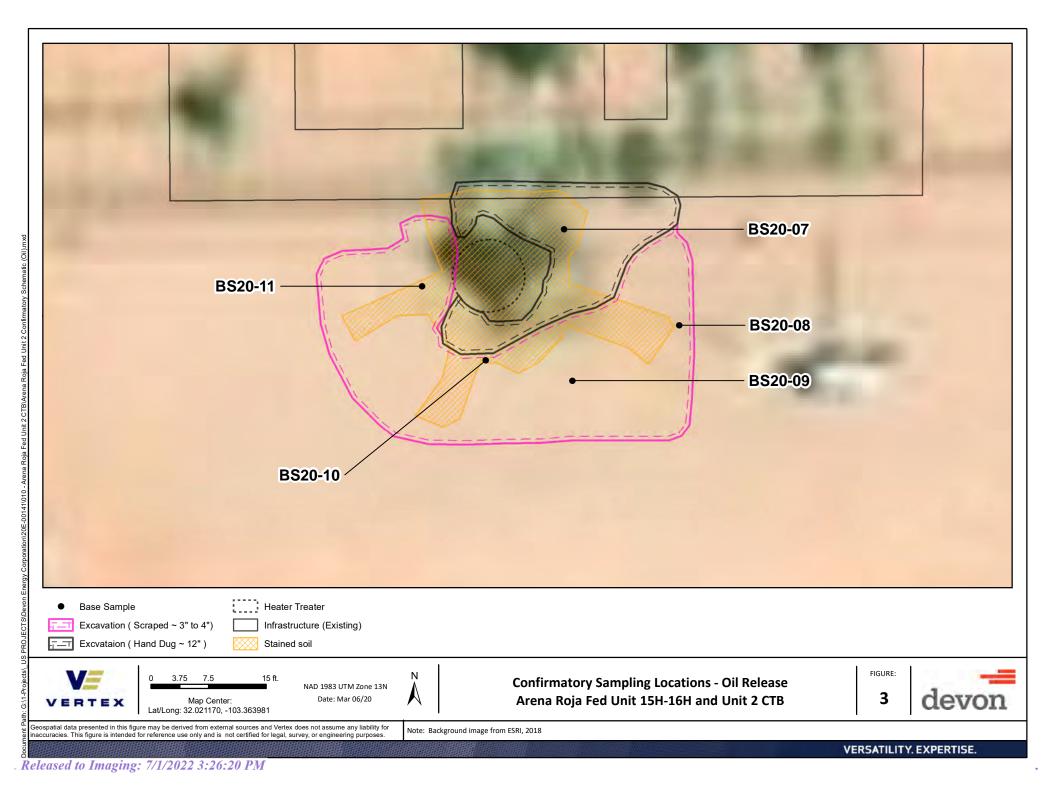


Unit 2 Cor

Fed

41/010 -





### **ATTACHMENT 3**

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| Table 1. |   |                        |                                   |
|----------|---|------------------------|-----------------------------------|
| Site Nam | e: Arena Roja Federal Unit 2 CTB<br>rdinates:   | X: 32.0208677          | Y: -103.3639659                   |
| -        | ific Conditions   | Value                  | Unit                              |
| 1        | Depth to Groundwater  | 250                    | feet                              |
| 2        | Within 300 feet of any continuously flowing watercourse or any other significant watercourse  | 190,728                | feet                              |
| 3        | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)   | 50,793                 | feet                              |
| 4        | Within 300 feet from an occupied residence, school, hospital, institution or church   | 33,735                 | feet                              |
| 5        | i) Within 500 feet of a spring or a private, domestic<br>fresh water well used by less than five households for<br>domestic or stock watering purposes, <b>or</b>   | 33,735                 | feet                              |
|          | ii) Within 1000 feet of any fresh water well or spring  | >1000                  | feet                              |
| 6        | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No                     | (Y/N)                             |
| 7        | Within 300 feet of a wetland  | 50,793                 | feet                              |
| 8        | Within the area overlying a subsurface mine   | No                     | (Y/N)                             |
| 9        | Within an unstable area (Karst Map)   | Low                    | Critical<br>High<br>Medium<br>Low |
| 10       | Within a 100-year Floodplain  | >100                   | year                              |
| 11       | Soil Type   | te and maljamar fine s | sands                             |
| 12       | Ecological Classification   |                        |                                   |
| 13       | Geology   | an and piedmont dep    | osits                             |
|          | NMAC 19.15.29.12 E (Table 1) Closure Criteria   | >100'                  | <50'<br>51-100'<br>>100'          |

|          |         | <50'    |
|----------|---------|---------|
| Column1  | Column1 |         |
| Critical | Yes     | 51-100' |
| High     | No      | >100'   |
| Medium   |         | ·       |
| Low      |         |         |

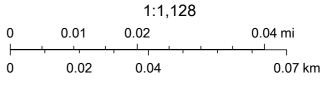
# Arena Roja Federal Unit 2 CTB



#### 1/28/2020, 7:23:38 AM

- Wells Large Scale ? undefined 🌣 Gas, Active 0 Miscellaneous 🌣 Gas, Cancelled 🔆 CO2, Active 🌣 🛛 Gas, New ⋇ CO2, Cancelled 亞 Gas, Plugged 🔆 CO2, New 🍀 Gas, Temporarily Abandoned 🔹 Oil, Active ┿ CO2, Plugged
- 🔆 CO2, Temporarily Abandoned 🔎 Injection, Active ø Injection, Cancelled ø Injection, New ø Injection, Plugged
  - ø Injection, Temporarily Abandoned
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- △ Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Δ Salt Water Injection, New
- Δ Salt Water Injection, Plugged
- △ Salt Water Injection, Temporarily Abandoned
- ٠ Water, Active
- Water, Cancelled
- Water, New

**Released to Imaging:** 7/1/2022 3:26:20 PM



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, OCD, BLM

New Mexico Oil Conservation Division

# Arena Roja Fed Unit 2 CTB

Nearest OSE Well: 2.41 Depth of Well: 496 ft Depth to Water: 250 ft Pod #: C037951POD1

Arena Roja Fed Unit 2 CTB

T

32.023056, -103.3225

Page 25 of 127

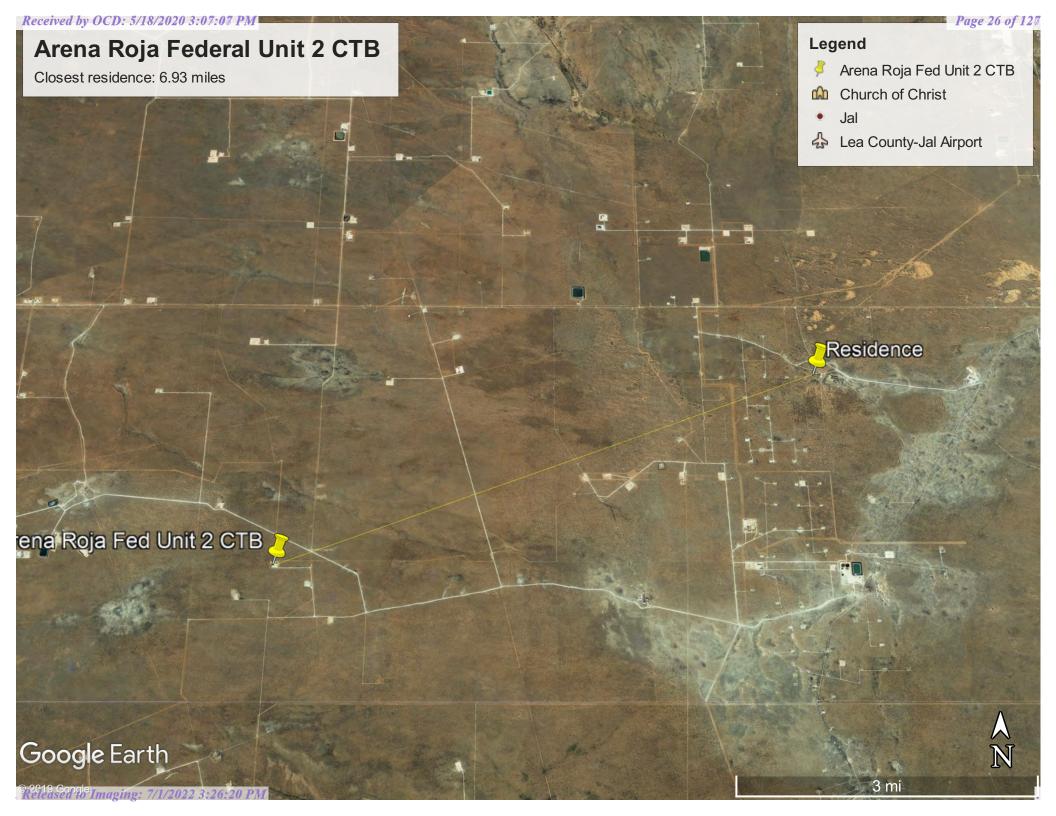
Legend

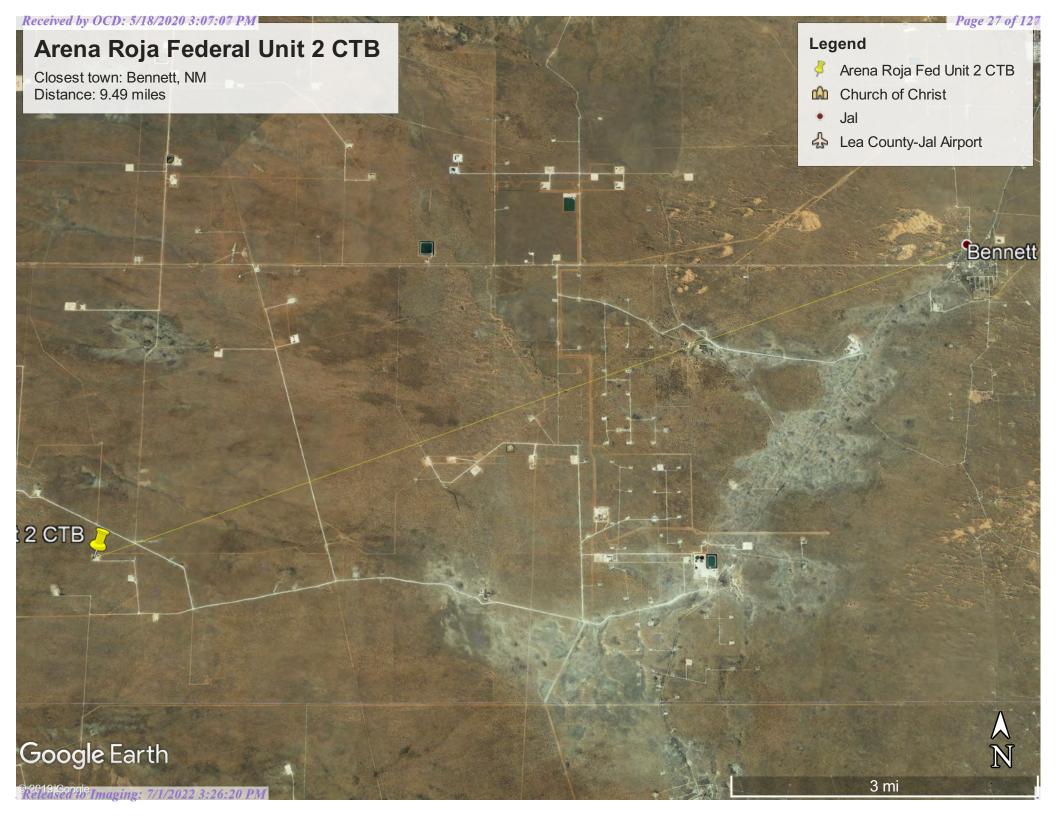
A N

1 mi

Google Earth

© SPOT IMAGE





# Arena Roja Fed Unit 2 CTB

Nearest USGS Well: 3.56 miles Depth of Well: 700 ft Well #: 320138103181201

### 3010103244001

0103235501

320250103184501

320245103184201 320220103184001

320219103184002 320219103184001

**3**20138103181201

Page 28 of 127

3202

A N

Legend

Arena Roja Fed Unit 2 CTB 32.0208677, -103.3639659 320108103191301

32010410317 362728103073001 36272910307

2 mi

Google Earth

# Arena Roja Federal Unit 2 CTB

Closest flowing watercourse: Pecos River Distance: 36.12 miles

### Legend

Lovino

10 B 10

Arena Roja Fed Unit 2 CTB

Page 29 of 127

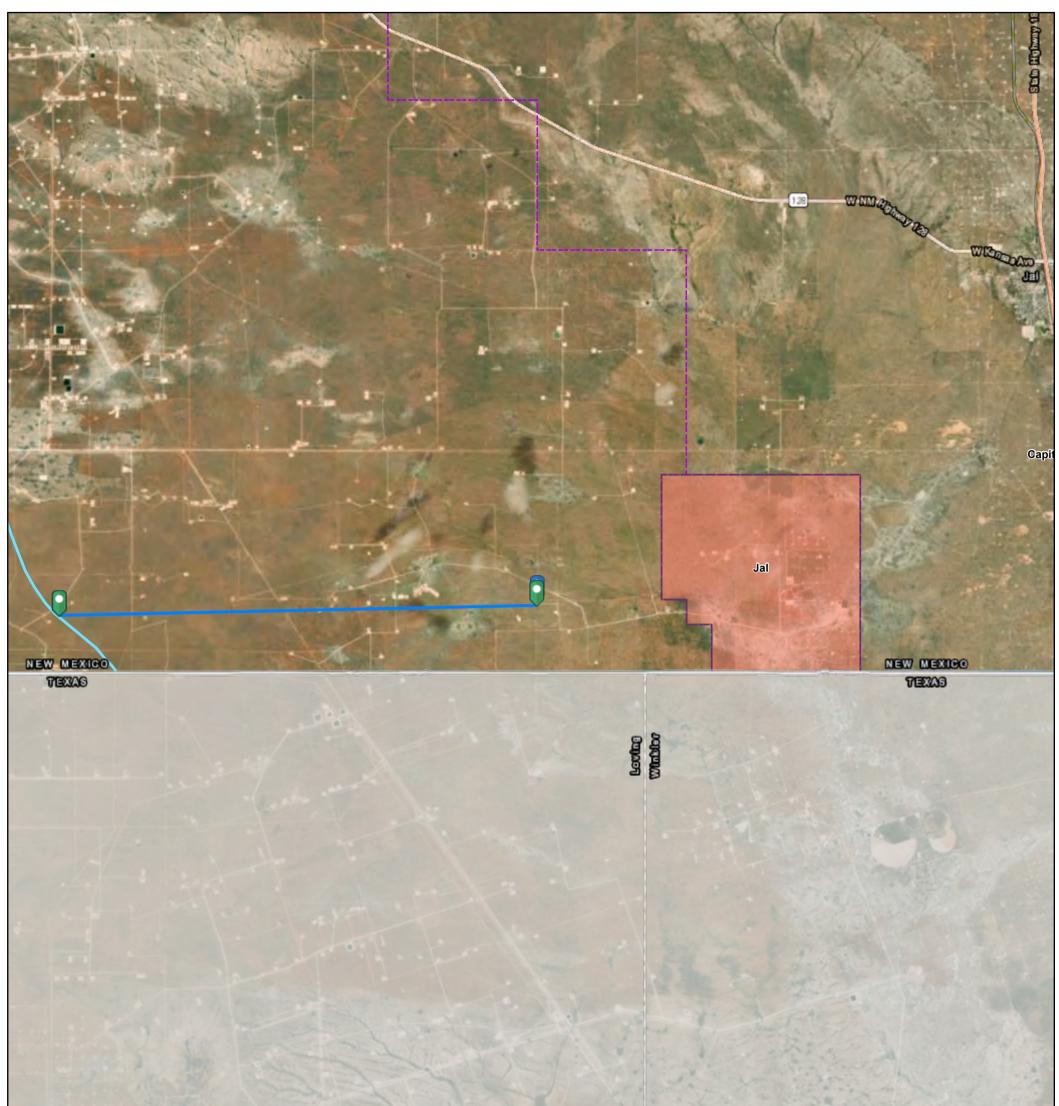
- Church of Christ
- Jal
- Lea County-Jal Airport

Arena Roja Fed Unit 2 CTB

Google Earth

© 2019 Google

# Distance to Wetland

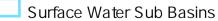


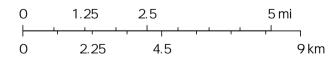
Water Right Regulations

|  |  | Critical Management Area - Guidelines |
|--|--|---------------------------------------|
|--|--|---------------------------------------|

OSE District Boundary

Declared Groundwater Basins





Esri, HERE, Garmin, (c) OpenS treetMap contributors, Esri, HERE, Garmin, (c) OpenS treetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and

Received by OCD: 5/18/2020 3:07:07 PM U.S. Fish and Wildlife Service



# Arena Roja Fed 2 CTB Wetlands



Lake

Other

Riverine

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

- Wetlands
  - Estuarine and Marine Deepwater
  - Estuarine and Marine Wetland

#### . Released to Imaging: 7/1/2022 3:26:20 PM

National Wetlands Inventory (NWI)

Wetlands Mapper web site.

base data shown on this map. All wetlands related data should

This page was produced by the NWI mapper

be used in accordance with the layer metadata found on the

# New Mexico Office of the State Engineer Point of Diversion Summary

|                       |       |                                    |                               | (quarters are 1=NW 2=NE 3=SW 4=SE) |      |          |         |           |                          |           |             |         |
|-----------------------|-------|------------------------------------|-------------------------------|------------------------------------|------|----------|---------|-----------|--------------------------|-----------|-------------|---------|
|                       | `     | (quarters are smallest to largest) |                               |                                    |      |          |         |           | (NAD83 UTM in meters)    |           |             |         |
| Well Tag POD Number   |       |                                    | Q                             | Q64 Q16 Q4 Sec Tv                  |      |          |         |           | Rng                      | Х         | Y Y         | ,       |
|                       | С     | 03795 POD1                         |                               | 4                                  | 4    | 3        | 24      | 26S       | 35E                      | 658419    | 3544221     | 9       |
| Driller License: 1607 |       |                                    |                               | r Co                               | ompa | iny      | : Dl    | JRAN      | I DRILLI                 | NG        |             |         |
| Driller Name          | TONY) |                                    |                               |                                    |      |          |         |           |                          |           |             |         |
| Drill Start D         | ate:  | 02/02/2015                         | Drill Finish Date: 02/06/2015 |                                    |      |          |         | 02/       | Plug Date:               |           |             |         |
| Log File Dat          | te:   | 02/19/2015                         | PCW                           | Rcv                                | Dat  | e:       |         |           |                          | Soι       | irce:       | Shallow |
| Pump Type:            |       |                                    | Pipe [                        | Pipe Discharge Size:               |      |          |         |           | Estimated Yield: 180 GPM |           |             |         |
| Casing Size: 7.0      |       | 7.00                               | Depth                         | Depth Well:                        |      | 496 feet |         | Dep       | oth Water:               | 250 feet  |             |         |
| ١                     | Nate  | er Bearing Stratif                 | ications                      | :                                  | Тс   | р        | Bott    | om        | Descrip                  | otion     |             |         |
|                       |       |                                    |                               |                                    | 32   | 20       | ;       | 324       | Sandsto                  | one/Grave | el/Conglome | erate   |
|                       |       |                                    | 46                            | 50                                 |      | 492      | Sandsto | one/Grave | el/Conglome              | erate     |             |         |
|                       |       | Casing Perf                        | orations                      | 51                                 | Тс   | р        | Bott    | om        |                          |           |             |         |
|                       |       |                                    |                               |                                    | 19   | 95       |         | 495       |                          |           |             |         |
|                       |       |                                    |                               |                                    |      |          |         |           |                          |           |             |         |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

| Inferniale Stream Commission   |                      |   | Wells v            | with   | Wel            | l Log li            | nfor        | mati             | on            |                        |                   |
|--|----------------------|---|--------------------|--------|----------------|---------------------|-------------|------------------|---------------|------------------------|-------------------|
| (A CLW##### in the<br>POD suffix indicates the<br>POD has been replaced &<br>no longer serves a water<br>right (R=POD ha<br>been replaced<br>O=orphanee<br>clesed) | 1,                   | ers are 1=NW 2=N<br>(quarters are small | · · · ·            | (NAD83 | UTM in meters) |                     |             |                  | (in fee       | 21)                    |                   |
|  | POD<br>bbasin County | qqq<br>Source 64164                     | l<br>4 Sec Tws Rng | х      | Y              | Distance Start Date | Finish Date | Log File<br>Date | Depth<br>Well | Depth<br>Water Driller | License<br>Number |
| <u>C 03795 POD1</u><br>Record Count: 1   | C LE                 | Shallow 4 4 3                           | 3 24 26S 35E       | 658419 | 3544221 🧉      | 3925 02/02/2015     | 02/06/2015  | 02/19/2015       | 496           | 250 DURAN, LUIS (TONY) | 1607              |
| UTMNAD83 Radius Search (i  | n meters):           |   |                    |        |                |                     |             |                  |               |                        |                   |
| Easting (X): 654505.83   |                      | Northing (Y):                           | 3543917.81         |        | Radius: 500    | 0                   |             |                  |               |                        |                   |

1/28/20 8:27 AM

WELLS WITH WELL LOG INFORMATION

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

| <b>USGS</b> Wat | er R | esour | ces |
|-----------------|------|-------|-----|
|-----------------|------|-------|-----|

 Data Category:
 Geographic Area:

 Site Information
 ▼

 United States
 ▼

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- Full News 🔊

# USGS 320138103181201 26S.36E.19.14224

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

### Well Site

**DESCRIPTION:** 

Latitude 32°01'53.1", Longitude 103°18'15.0" NAD83 Lea County, New Mexico , Hydrologic Unit 13070007 Well depth: 700 feet Land surface altitude: 2,952.00 feet above NGVD29. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

#### AVAILABLE DATA:

| Data Type                            | Begin Date                          | End Date   | Count |
|--------------------------------------|-------------------------------------|------------|-------|
| Field groundwater-level measurements | 1965-10-20                          | 2012-08-13 | 6     |
| <u>Revisions</u>                     | Unavailable (site:0) (timeseries:0) |            |       |

**OPERATION:** 

Record for this site is maintained by the USGS New Mexico Water Science Center

#### Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> <u>Automated retrievals</u> <u>Help</u> <u>Data Tips</u> <u>Explanation of terms</u> <u>Subscribe for system changes</u> <u>News</u>

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=320138103181201

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2020-01-28 09:33:53 EST 0.31 0.3 caww01



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National Water Information System: Web Interface

| <b>USGS</b> Wat | er R | esour | ces |
|-----------------|------|-------|-----|
|-----------------|------|-------|-----|

 Data Category:
 Geographic Area:

 Site Information
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# USGS 362728103073001 26S.36E.30.24414

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

### Well Site

**DESCRIPTION:** 

Latitude 32°00'54", Longitude 103°17'47" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007 Well depth: not determined. Hole depth: 170 feet Land surface altitude: 2,915 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

#### AVAILABLE DATA:

| Data Type                            | Begin Date                          | End Date   | Count |
|--------------------------------------|-------------------------------------|------------|-------|
| Field groundwater-level measurements | 1976-01-14                          | 2012-05-21 | 2     |
| Revisions                            | Unavailable (site:0) (timeseries:0) |            |       |

**OPERATION:** 

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data Inquiries</u>

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> <u>Automated retrievals</u> <u>Help</u> <u>Data Tips</u> <u>Explanation of terms</u> <u>Subscribe for system changes</u> <u>News</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=362728103073001

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2020-01-28 10:12:47 EST 0.41 0.4 caww02



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National Water Information System: Web Interface

| USGS W | ater F | Resour | ces |
|--------|--------|--------|-----|
|--------|--------|--------|-----|

 Data Category:
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# USGS 362729103073101 26S.36E.30.244141

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

## Well Site

**DESCRIPTION:** 

Latitude 32°00'55", Longitude 103°17'48" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007 Well depth: not determined. Hole depth: 180 feet Land surface altitude: 2,915 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

#### AVAILABLE DATA:

| Data Type                            | Begin Date                          | End Date   | Count |  |  |
|--------------------------------------|-------------------------------------|------------|-------|--|--|
| Field groundwater-level measurements | 1976-01-14                          | 2012-05-21 | 3     |  |  |
| Revisions                            | Unavailable (site:0) (timeseries:0) |            |       |  |  |

**OPERATION:** 

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data Inquiries</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

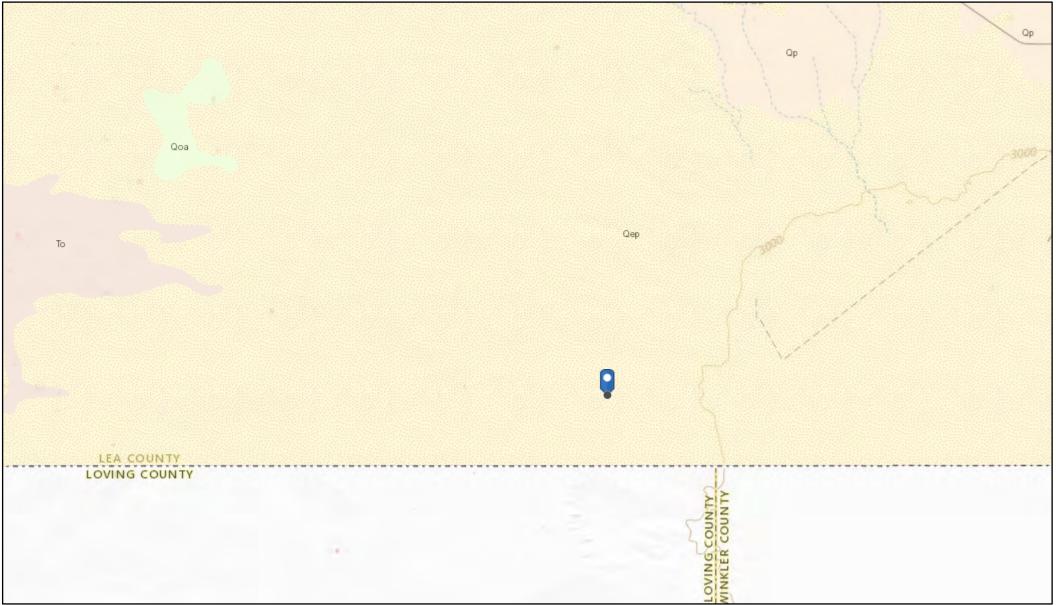
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U.S. Department of the Interior | U.S. Geological Survey

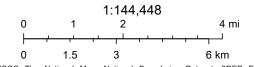
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=362729103073101

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2020-01-28 10:14:20 EST 0.43 0.41 caww02





1/29/2020, 6:37:14 AM



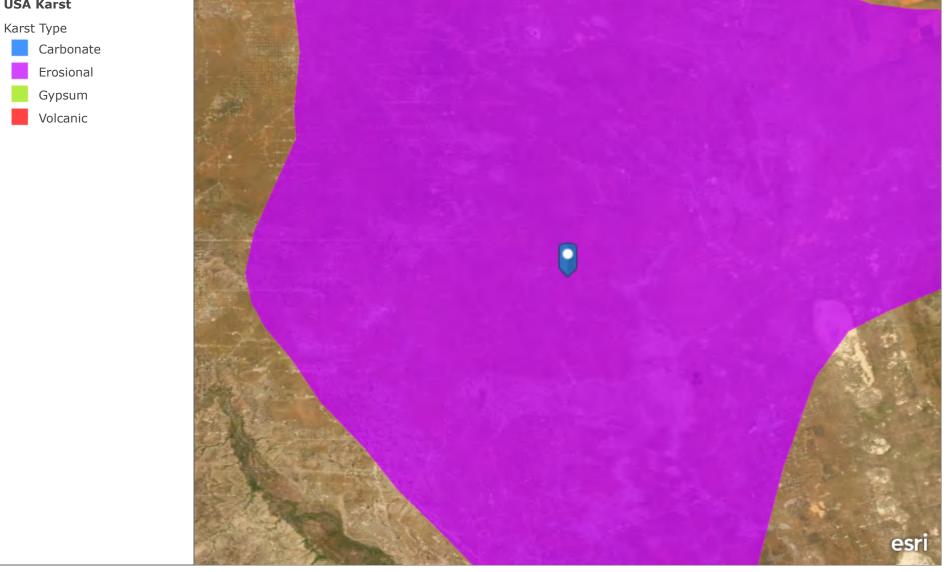
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

#### . Released to Imaging: 7/1/2022 3:26:20 PM

Web AppBuilder for ArcGIS

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census



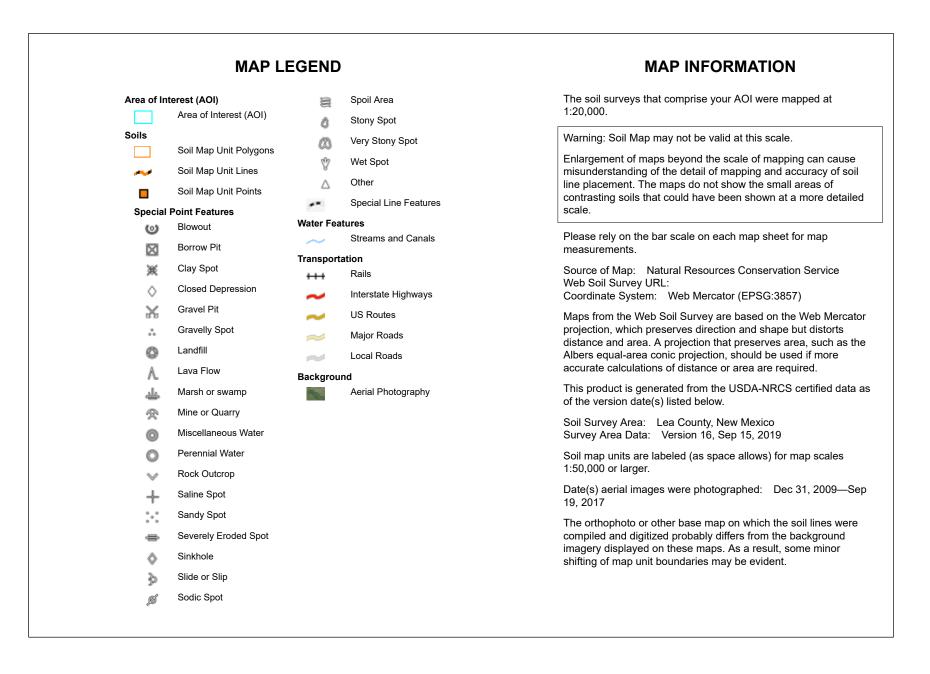


A map showing karst areas in the United States based on the U.S. Geological Survey Open-File Report 2004-1352

U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US. | U.S. Geological Survey Open-File Report 2004-1352 | Earthstar Geographics



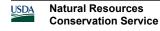
USDA Natural Resources Conservation Service Released to Imaging: 7/1/2022 3:26:20 PM Web Soil Survey National Cooperative Soil Survey 1/28/2020 Page 1 of 3





## Map Unit Legend

| Map Unit Symbol Map Unit Name    |  | Acres in AOI | Percent of AOI |
|----------------------------------|--|--------------|----------------|
| PT Pyote loamy fine sand         |  | 6.1          | 2.2%           |
| PU Pyote and maljamar fine sands |  | 265.1        | 95.1%          |
| PY Pyote soils and dune land     |  | 7.5          | 2.7%           |
| Totals for Area of Interest      |  | 278.7        | 100.0%         |



## Lea County, New Mexico

#### PU—Pyote and maljamar fine sands

#### Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Maljamar and similar soils: 45 percent
Pyote and similar soils: 45 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Maljamar**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.6 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

#### **Description of Pyote**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 30 inches: fine sand Bt - 30 to 60 inches: fine sandy loam

#### Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.1 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: A Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

#### **Minor Components**

#### Kermit

*Percent of map unit:* 10 percent *Ecological site:* Sandhills (R042XC022NM)



Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 16, Sep 15, 2019



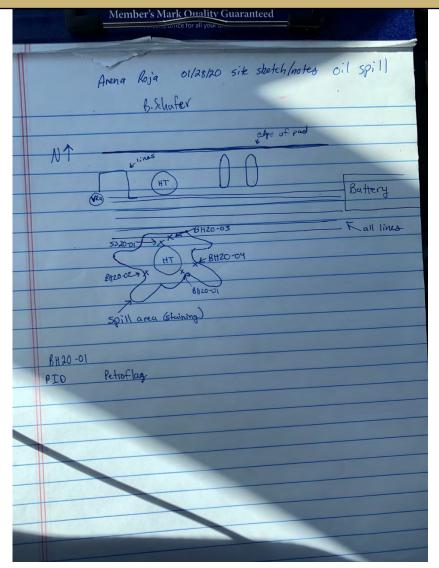
## **ATTACHMENT 4**



| Client:                 | Devon Energy<br>Corporation | Inspection Date:  | 1/28/2020        |
|-------------------------|-----------------------------|-------------------|------------------|
| Site Location Name:     | Arena Roja Fed Unit 15H     | Report Run Date:  | 2/1/2020 6:29 PM |
| Project Owner:          | Amanda Davis                | File (Project) #: | 20E-00141        |
| Project Manager:        | Natalie Gordon              | API #:            | 30-025-42671     |
| Client Contact Name:    | Amanda Davis                | Reference         | Spill 1RP-3984   |
| Client Contact Phone #: | (575) 748-0176              |                   |                  |
|                         |                             | Summary of        | Times            |
| Left Office             | 1/28/2020 9:38 AM           |                   |                  |
| Arrived at Site         | 1/28/2020 11:25 AM          |                   |                  |
| Departed Site           | 1/28/2020 2:30 PM           |                   |                  |
| Returned to Office      | 1/28/2020 6:46 PM           |                   |                  |

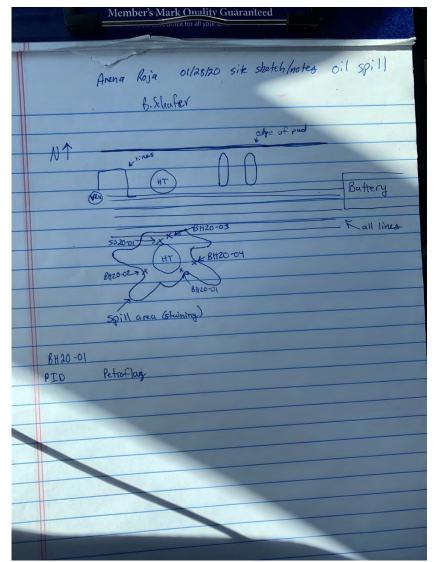


#### Site Sketch



Run on 2/1/2020 6:29 PM UTC







#### **Summary of Daily Operations**

11:30 Initial site characterization and sampling

**Next Steps & Recommendations** 

1 Field screen and send to lab

2 Await lab results

|     |          | Sampling |                       |                      |                        |              |              |                            |                           |  |  |  |
|-----|----------|----------|-----------------------|----------------------|------------------------|--------------|--------------|----------------------------|---------------------------|--|--|--|
| BH2 | 0-01     | -01      |                       |                      |                        |              |              |                            |                           |  |  |  |
|     | Depth ft | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked On<br>Site Sketch? |  |  |  |
|     | O ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021171, -<br>103.363994 | Yes                       |  |  |  |
|     | 1 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021171, -<br>103.363994 | Yes                       |  |  |  |
|     | 2 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021171, -<br>103.363994 | Yes                       |  |  |  |
|     | 3 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021171, -<br>103.363994 | Yes                       |  |  |  |
|     | 4 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021171, -<br>103.363994 | Yes                       |  |  |  |

VE

VERTEX

# **Daily Site Visit Report**

| 0-02     |         |                       |                      |                        |              |              |                            |                          |
|----------|---------|-----------------------|----------------------|------------------------|--------------|--------------|----------------------------|--------------------------|
| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked Or<br>Site Sketch |
| 0 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021198, -<br>103.364043 | Yes                      |
| 1 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021198, -<br>103.364043 | Yes                      |
| 0-03     |         |                       |                      |                        |              |              |                            |                          |
| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked Or<br>Site Sketch |
| 0 ft.    |         |                       |                      |                        |              | <            | 32.021251, -<br>103.363990 | Yes                      |
| 0-04     |         |                       |                      | 1                      |              |              |                            |                          |
| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked Or<br>Site Sketch |
| 0 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021150, -<br>103.363911 | Yes                      |
| 1 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021150, -<br>103.363911 | Yes                      |
| 2 ft.    |         |                       |                      |                        |              | V            | 32.021150, -<br>103.363911 | Yes                      |

Run on 2/1/2020 6:29 PM UTC

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VE

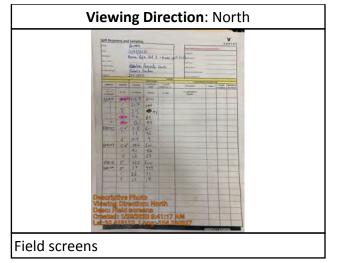
VERTEX

# Daily Site Visit Report

| S20 | S20-01   |         |                       |                      |                        |              |         |                            |                           |  |
|-----|----------|---------|-----------------------|----------------------|------------------------|--------------|---------|----------------------------|---------------------------|--|
|     | Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture | Trimble Location           | Marked On<br>Site Sketch? |  |
|     | 0 ft.    |         |                       |                      |                        |              | <       | 32.021243, -<br>103.364015 | Yes                       |  |



| Site Photos   |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Viewing Direction: Northeast  | Viewing Direction: South  |  |  |  |  |  |
| Descriptive Picote<br>Viewing Directions Northeast<br>Desc. Coverview of crude split sma<br>Creating: S222221116; Long-182.384162 | Weeking Totophane of april Totophane<br>Description Provide and April 2012 Autophane<br>April 2012 Autophane and April 2012 Autophane |  |  |  |  |  |
| Overview of crude spill area  | Overview of spill area  |  |  |  |  |  |
| Viewing Direction: Southeast  | Viewing Direction: East   |  |  |  |  |  |
|   |   |  |  |  |  |  |
| Overview of spill are   | Spill area  |  |  |  |  |  |



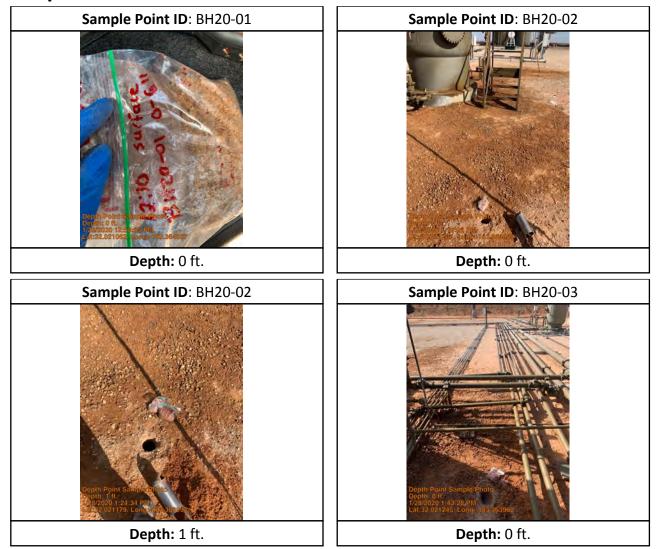




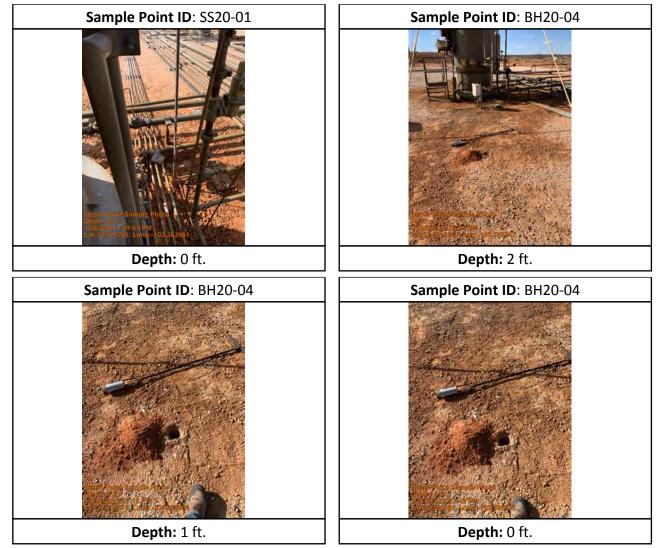
| Sample Point ID: BH20-01Sample Point ID: BH20-01Image: Sample Point ID: BH20-01Image: Sample Point ID: BH20-01Image: Depth: 4 ft.Image: Depth: 3 ft.Image: Sample Point ID: BH20-01Image: Sample Point I   | Depth Sa   | ample Photos   |
|---|--|--|
| Sample Point ID: BH20-01       Sample Point ID: BH20-01         Image: Control of the second seco                                    | Sample Point ID: BH20-01   | Sample Point ID: BH20-01   |
| Sample Point ID: BH20-01       Sample Point ID: BH20-01         Image: Comparison of the second s                                    |  | Argistin t-Sate Jown House<br>Degrate - View Sate Jown House<br>Degr |
| Explore the provided and t | Depth: 4 ft.   | Depth: 3 ft.   |
| Depth: 2 ft.Depth: 1 ft.  | Sample Point ID: BH20-01   | Sample Point ID: BH20-01   |
| Depth: 2 ft.Depth: 1 ft.  | Diputi 2 and 7 and 8 hoto<br>Explore 2 and 9 | Angula Angun Sample Photo<br>Involue Re<br>Lage 20 Tasarrio PM<br>Laure 2020 Tasarrio PM<br>Laure 2021 Casarrio PM<br>Laure 2021 Casarrio PM   |
|   | Depth: 2 ft.   | Depth: 1 ft.   |

Run on 2/1/2020 6:29 PM UTC











**Daily Site Visit Signature** 

Inspector: Brandon Schafer

Signature: Bondoo A



| Client:                 | Devon Energy<br>Corporation | Inspection Date:  | 1/28/2020        |
|-------------------------|-----------------------------|-------------------|------------------|
| Site Location Name:     | Arena Roja Fed Unit 15H     | Report Run Date:  | 2/1/2020 6:28 PM |
| Project Owner:          | Amanda Davis                | File (Project) #: | 20E-00141        |
| Project Manager:        | Natalie Gordon              | API #:            | 30-025-42671     |
| Client Contact Name:    | Amanda Davis                | Reference         | Spill 1RP-3984   |
| Client Contact Phone #: | (575) 748-0176              |                   |                  |
|                         |                             | Summary of        | Times            |
| Left Office             | 1/28/2020 2:30 PM           |                   |                  |
| Arrived at Site         | 1/28/2020 2:35 PM           |                   |                  |
| Departed Site           | 1/28/2020 4:55 PM           |                   |                  |
| Returned to Office      | 1/28/2020 6:45 PM           |                   |                  |

VERTEX

| Site Sketch  |
|--|
| B. Schafer   |
| Site Sketch  |
| W1 000 000   |
|  |
| Battery<br>Pums/values/hookups electrical solar Panels +><br>boxes electrical to |
| 20153 BH20-07<br>  |
| (indepression)   |
| Spill area   |
|  |
|  |
|  |
|  |
|  |

Run on 2/1/2020 6:28 PM UTC



#### **Summary of Daily Operations**

14:35 Initial sampling and site characterization

**Next Steps & Recommendations** 

1

|          | Sampling |                       |                      |                        |              |              |                            |                          |  |  |
|----------|----------|-----------------------|----------------------|------------------------|--------------|--------------|----------------------------|--------------------------|--|--|
| Depth ft | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked Or<br>Site Sketch |  |  |
| 0 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.020979, -<br>103.364140 | Yes                      |  |  |
| 1 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.020979, -<br>103.364140 | Yes                      |  |  |
| 2 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.020979, -<br>103.364140 | Yes                      |  |  |
| 3 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.020979, -<br>103.364140 | Yes                      |  |  |
| 4 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.020979, -<br>103.364140 | Yes                      |  |  |

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| ly Site  | VISIT Re | port                  |                      |                        |              |              |                            | VERTEX                    |
|----------|----------|-----------------------|----------------------|------------------------|--------------|--------------|----------------------------|---------------------------|
| -06      |          |                       |                      |                        |              |              |                            |                           |
| Depth ft | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked On<br>Site Sketch? |
| 0 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021003, -<br>103.364184 | Yes                       |
| 1 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021003, -<br>103.364184 | Yes                       |
| -07      |          |                       |                      |                        |              |              |                            |                           |
| Depth ft | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked On<br>Site Sketch? |
| 0 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021057, -<br>103.364199 | Yes                       |
| 1 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021057, -<br>103.364199 | Yes                       |
| 2 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021057, -<br>103.364199 | Yes                       |
| 3 ft.    |          |                       |                      |                        |              | $\checkmark$ | 32.021057, -<br>103.364199 | Yes                       |

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## **Daily Site Visit Report**

| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis | Picture      | Trimble Location           | Marked On<br>Site Sketch |
|----------|---------|-----------------------|----------------------|------------------------|--------------|--------------|----------------------------|--------------------------|
| 0 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021073, -<br>103.364106 | Yes                      |
| 1 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021073, -<br>103.364106 | Yes                      |
| 2 ft.    |         |                       |                      |                        |              | $\checkmark$ | 32.021073, -<br>103.364106 | Yes                      |

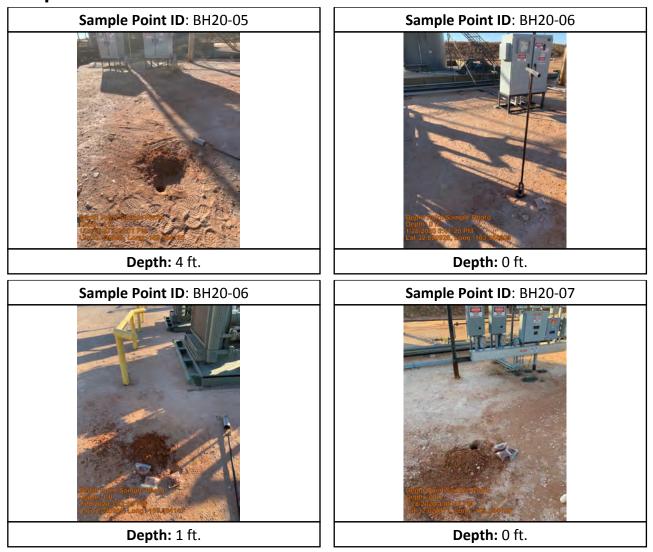


**Site Photos** Viewing Direction: South Viewing Direction: West Overview of spill area, cooler is in middle View of water spill area Viewing Direction: North Viewing Direction: North View of water spill area Field screen results

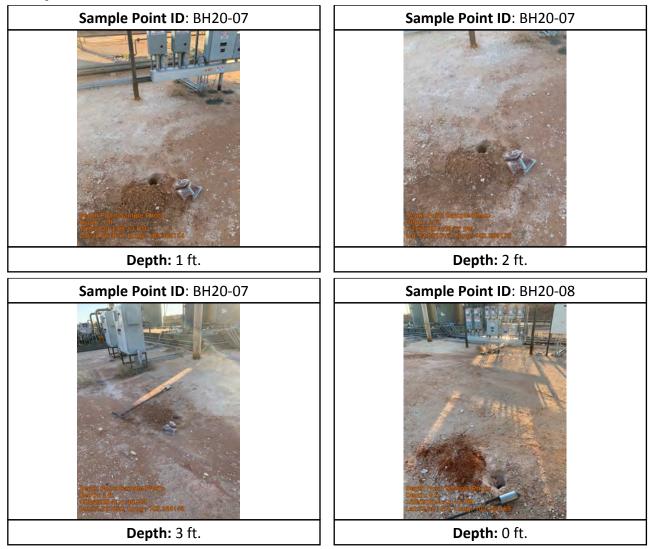


# **Depth Sample Photos** Sample Point ID: BH20-05 Sample Point ID: BH20-05 Depth: 0 ft. Depth: 1 ft. Sample Point ID: BH20-05 Sample Point ID: BH20-05 Depth: 2 ft. Depth: 3 ft.

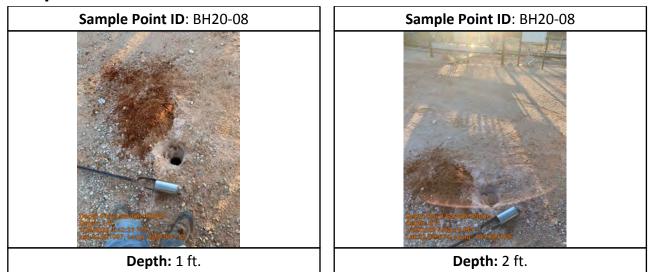














**Daily Site Visit Signature** 

Inspector: Brandon Schafer

Signature: Remodelle



| Client:                     | Devon Energy<br>Corporation | Inspection Date:  | 2/25/2020          |  |  |  |  |  |
|-----------------------------|-----------------------------|-------------------|--------------------|--|--|--|--|--|
| Site Location Name:         | Arena Roja Fed Unit 15H     | Report Run Date:  | 2/26/2020 12:58 AM |  |  |  |  |  |
| Project Owner: Amanda Davis |                             | File (Project) #: | 20E-00141          |  |  |  |  |  |
| Project Manager:            | Natalie Gordon              | API #:            | 30-025-42671       |  |  |  |  |  |
| Client Contact Name:        | Amanda Davis                | Reference         | Spill 1RP-3984     |  |  |  |  |  |
| Client Contact Phone #:     | (575) 748-0176              |                   |                    |  |  |  |  |  |
| Summary of Times            |                             |                   |                    |  |  |  |  |  |
| Left Office                 | 2/25/2020 6:45 AM           |                   |                    |  |  |  |  |  |
| Arrived at Site             | 2/25/2020 8:56 AM           |                   |                    |  |  |  |  |  |
| Departed Site               |                             |                   |                    |  |  |  |  |  |
| Returned to Office          |                             |                   |                    |  |  |  |  |  |

#### **Summary of Daily Operations**

8:58 Hand excavation and confirmatory sampling

**Next Steps & Recommendations** 

1

|      | Sampling     |         |                       |                      |                        |  |              |                                |                           |  |
|------|--------------|---------|-----------------------|----------------------|------------------------|--|--------------|--------------------------------|---------------------------|--|
| ES-B | ES-Base20-01 |         |                       |                      |                        |  |              |                                |                           |  |
|      | Depth ft     | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch? |  |
|      | 0 ft.        |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02110017, -<br>103.36434859 | Yes                       |  |

Run on 2/26/2020 12:58 AM UTC

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|--------|--|
| VERTEX |  |

| Base20-02 |         |                       |                      |                        |  |              |                                |                          |
|-----------|---------|-----------------------|----------------------|------------------------|--|--------------|--------------------------------|--------------------------|
| Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| O ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02093650, -<br>103.36445056 | Yes                      |
| Base20-03 |         |                       |                      |                        |  |              |                                |                          |
| Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| O ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02074673, -<br>103.36445555 | Yes                      |
| Base20-04 |         |                       |                      |                        |  |              |                                |                          |
| Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| O ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02109807, -<br>103.36445010 | Yes                      |
| Base20-05 |         |                       |                      |                        |  |              |                                |                          |
| Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| 0 ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02121480, -<br>103.36432017 | Yes                      |

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## **Daily Site Visit Report**

| Base20- |    | ISIT Re | port                  |                      |                        |  |              |                                | VERTEX                    |
|---------|----|---------|-----------------------|----------------------|------------------------|--|--------------|--------------------------------|---------------------------|
| Depth   | ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch? |
| O ft.   |    |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02103891, -<br>103.36413032 | Yes                       |



**Site Photos** Viewing Direction: North Viewing Direction: North Spill area Spill area Viewing Direction: East Viewing Direction: Southwest Spill area Spill area



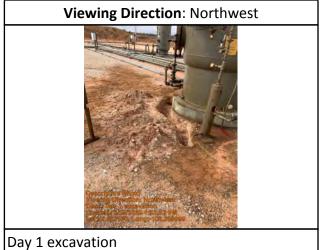
| Viewing Direction: Southeast  | Viewing Direction: Southeast   |
|---|--|
|   |  |
| Spill area  | Water spill area   |
| Viewing Direction: Northwest  | Viewing Direction: Northeast   |
| Descriptive Photo<br>Viewing Binotion: Northwest<br>Descriptive Photo<br>Constati SPS7020 10:33:56 AM<br>Let:32.020872, Long>-103:36 AM | Disactory from the second and the se |
| Water spill area  | Water spill area   |

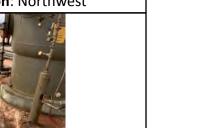


| Viewing Direction: Southeast   | Viewing Direction: Southeast |
|--|------------------------------|
|  |                              |
| Water spill area   | Day 1 excavation             |
| Viewing Direction: Southeast   | Viewing Direction: West      |
| Description three states and the states of t |                              |
| Day 1 excavation   | Day 1 excavation             |

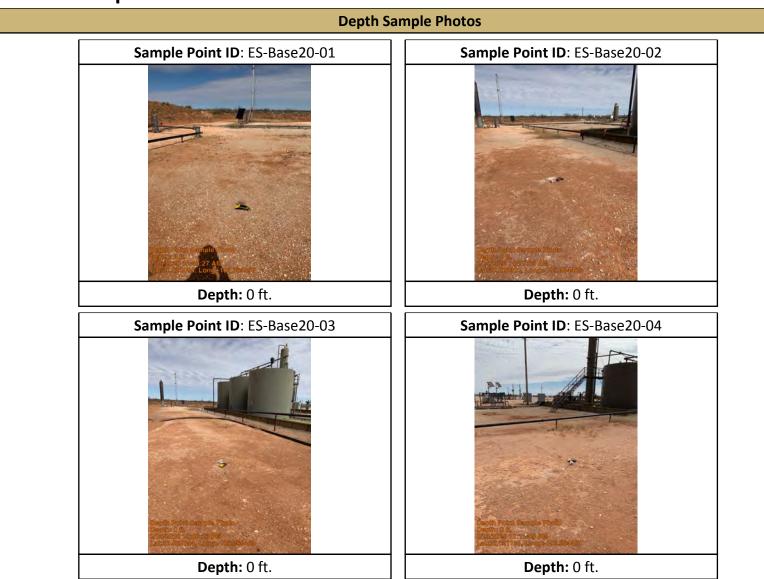
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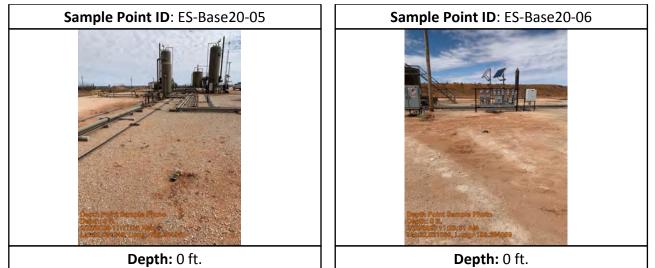














**Daily Site Visit Signature** 

Inspector: Brandon Schafer

Signature:

Run on 2/26/2020 12:58 AM UTC

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. Released to Imaging: 7/1/2022 3:26:20 PM



| Client:                 | Devon Energy<br>Corporation | Inspection Date:  | 2/26/2020          |
|-------------------------|-----------------------------|-------------------|--------------------|
| Site Location Name:     | Arena Roja Fed Unit 15H     | Report Run Date:  | 2/27/2020 11:58 PM |
| Project Owner:          | Amanda Davis                | File (Project) #: | 20E-00141          |
| Project Manager:        | Natalie Gordon              | API #:            | 30-025-42671       |
| Client Contact Name:    | Amanda Davis                | Reference         | Spill 1RP-3984     |
| Client Contact Phone #: | (575) 748-0176              |                   |                    |
|                         |                             | Summary of        | Times              |
| Left Office             | 2/26/2020 5:00 AM           |                   |                    |
| Arrived at Site         | 2/26/2020 7:52 AM           |                   |                    |
| Departed Site           | 2/26/2020 5:49 PM           |                   |                    |
| Returned to Office      | 2/26/2020 8:00 PM           |                   |                    |



#### **Site Sketch** 2/26/200 Schafer Site Sketch H.T. Spith SPHT. Flow lines T 100 clectrical lines 8520-07 0 AN T Heater Treater B520-11 B\$20-08 × 6///0 . 6520-10 D 350 0 + Hand excavation through the caliche · 3 X = Sample points (not to scale) layer accured around the heater treater except on the west side where we were able to scrape with the excavation to ~10-12" loader. In general, a larger area was scraped than needed but it with easiest for the operator. - = scraped area 3-4" \* BS20-07 sample points were all in the hand excavated areq. The rest of the samples were taken by splitting up the scraped area into 4 quadrants: East, west, and the middle was split in half.

Run on 2/27/2020 11:58 PM UTC



#### **Summary of Daily Operations**

8:44 Continue excavation and obtain confirmatory samples

**Next Steps & Recommendations** 

1 Send in base samples and await results

|     |           |         |                       |                      | San                    | npling   |              |                                |                           |
|-----|-----------|---------|-----------------------|----------------------|------------------------|--|--------------|--------------------------------|---------------------------|
| S-E | Base20-07 |         |                       |                      |                        |  |              |                                |                           |
|     | Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch? |
|     | O ft.     |         | 34 ppm                |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02121335, -<br>103.36397788 | Yes                       |
| S-E | Base20-08 |         |                       |                      |                        |  |              |                                |                           |
|     | Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch? |
|     | O ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02116717, -<br>103.36392946 | Yes                       |
| S-E | Base20-09 | •       |                       |                      | •                      | •  | •            |                                |                           |
|     | Depth ft  | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch? |
|     | O ft.     |         |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02115290, -<br>103.36398062 | Yes                       |

| Daily Site   | VISIL RE | ροπ                   |                      |                        |  |              |                                | VERTEX                   |
|--------------|----------|-----------------------|----------------------|------------------------|--|--------------|--------------------------------|--------------------------|
| ES-Base20-10 |          |                       |                      |                        |  |              |                                |                          |
| Depth ft     | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| O ft.        |          |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02115992, -<br>103.36401463 | Yes                      |
| S-Base20-11  |          |                       |                      |                        |  |              |                                |                          |
| Depth ft     | VOC PID  | Petro Flag<br>TPH ppm | Quantab<br>Range ppm | Quantab<br>Reading ppm | Lab Analysis   | Picture      | Trimble Location               | Marked On<br>Site Sketch |
| 0 ft.        |          |                       |                      |                        | BTEX (EPA SW-846 Method<br>8021B/8260B), Chloride (EPA<br>300.0), TPH (EPA SW-846<br>Method 8015M) | $\checkmark$ | 32.02118615, -<br>103.36404483 | Yes                      |

.



| Sit  | te Photos  |
|--|--|
| Viewing Direction: West  | Viewing Direction: West  |
| Provide and the second se |  |
| Beginning of day excavation  | Beginning of day excavation  |
| Viewing Direction: Northwest   | Viewing Direction: Southwest   |
|  | Transition and the second seco |
| Excavation   | Excavation   |

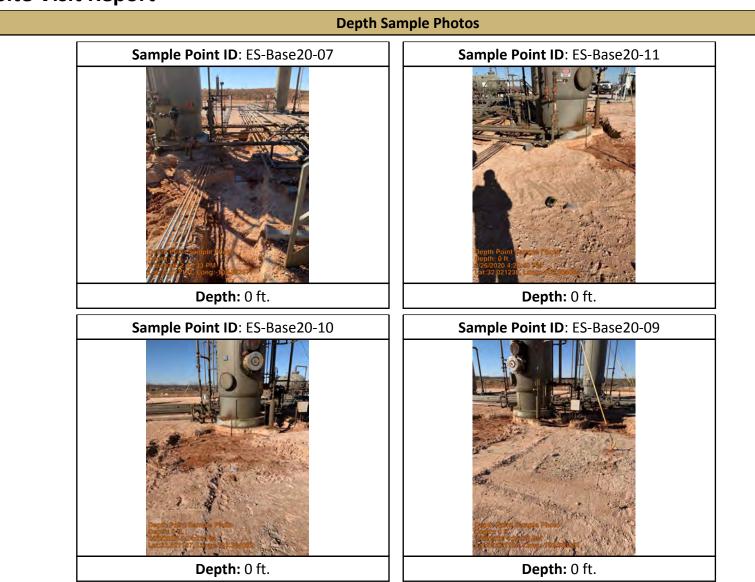


| Viewing Direction: Northeast       | Viewing Direction: Southeast   |
|------------------------------------|--|
|                                    |  |
| Excavation                         | Excavation   |
| Viewing Direction: East            | Viewing Direction: South   |
|                                    | Conservation of the second sec |
| Hand dug excavation behind treater | Hand dig excavation behind treater   |



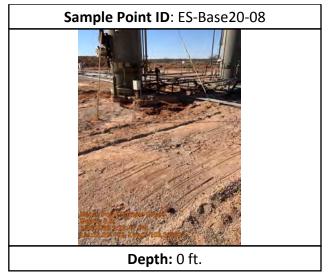
| Viewing Direction: North | Viewing Direction: North   |
|--------------------------|--|
|                          | Sett Response and sequence           Brown Road           Brown Road <tr< th=""></tr<> |
| Excavation               | Field screens  |





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**Daily Site Visit Signature** 

Inspector: Brandon Schafer

Signature: Bruhn Lap

Run on 2/27/2020 11:58 PM UTC

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. Released to Imaging: 7/1/2022 3:26:20 PM

#### **ATTACHMENT 5**

#### **Natalie Gordon**

| From:    | Natalie Gordon   |
|----------|--|
| Sent:    | Thursday, February 20, 2020 8:29 AM  |
| То:      | 'emnrd-ocd-district1spills@state.nm.us';                                   |
|          | Mike Bratcher (mike.bratcher@state.nm.us);                                 |
| Cc:      | 'Bynum, Tom (Contract)'; Wesley. Mathews@dvn. com (Wesley.Mathews@dvn.com) |
| Subject: | Arena Roja Fed Unit 15H/16H and Unit 2 CTB (Devon): 48-hr Notification of  |
|          | confirmation sampling  |
|          | confirmation sampling  |

All:

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled final remediation activities and confirmation sampling to be conducted at Arena Roja Fed Unit 15H/16H and Arena Roja Fed Unit 2 CTB for the following two releases:

DOR: 11/16/2015; 1RP-3984 DOR: 12/24/2019; Tracking # TBD

On Monday, February 24 and Tuesday, February 25, 2020, Vertex will commence remediation activities at Arena Roja Federal Unit 15H/16H and Arena Roja Federal Unit 2 CTB. Following completion of planned excavation, on the afternoon of February 25, 2020, Brandon Schafer of Vertex will be onsite to perform confirmation sampling. He can be reached at (701)301-1564. If you need directions to the site, please do not hesitate to contact him.

If you have questions or concerns regarding this notification, please give me a call at (505)506-0040.

Thank you, Natalie

#### **ATTACHMENT 6**

**Client Name: Devon Energy Production Company** Site Name: Arena Roja Fed Unit 15H-16H and Unit 2 CTB NM OCD Tracking Numbers: nJXK1532330117; TBD Project #: 20E-00141-010 Lab Reports: 2002C59 and 2002C66

|           |                    | Table 2. Confirma | tory Sampling | Laboratory A           | nalysis - Dept                   | h to Groundwa                  | ater > 100 fee                    | t           |                                       |           |  |  |
|-----------|--------------------|-------------------|---------------|------------------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|-----------|--|--|
|           | Sample Description |                   |               | Petroleum Hydrocarbons |                                  |                                |                                   |             |                                       |           |  |  |
|           |                    |                   | Vol           | Volatile Extractable   |                                  |                                |                                   |             |                                       | Inorganic |  |  |
| Sample ID | Depth (ft)         | Sample Date       | Benzene       | BTEX (Total)           | Gasoline Range<br>Organics (GRO) | Diesel Range Organics<br>(DRO) | Motor Oil Range<br>Organics (MRO) | (GRO + DRO) | Total Petroleum<br>Hydrocarbons (TPH) | Chloride  |  |  |
|           |                    |                   | (mg/kg)       | (mg/kg)                | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)   |  |  |
| BS 20-01  | 0.5                | February 25, 2020 | <0.025        | <0.225                 | <5.0                             | <9.6                           | <48                               | <14.6       | <62.6                                 | <59       |  |  |
| BS 20-02  | 0.5                | February 25, 2020 | <0.024        | <0.216                 | <4.8                             | <10.0                          | <50                               | <14.8       | <64.8                                 | <60       |  |  |
| BS 20-03  | 0.5                | February 25, 2020 | <0.024        | <0.219                 | <4.9                             | <9.7                           | <48                               | <14.6       | <62.6                                 | 790       |  |  |
| BS 20-04  | 0.5                | February 25, 2020 | <0.024        | <0.213                 | <4.7                             | <9.8                           | <49                               | <14.5       | <63.5                                 | <60       |  |  |
| BS 20-05  | 0.5                | February 25, 2020 | <0.025        | <0.222                 | <4.9                             | <9.7                           | <48                               | <14.6       | <62.6                                 | <60       |  |  |
| BS 20-06  | 0.5                | February 25, 2020 | <0.024        | <0.220                 | <4.9                             | <9.6                           | <48                               | <14.5       | <62.5                                 | 740       |  |  |
| BS 20-07  | 0.5                | February 26, 2020 | <0.024        | <0.220                 | <4.9                             | <9.7                           | <49                               | <14.6       | <63.6                                 | 230       |  |  |
| BS 20-08  | 0.5                | February 26, 2020 | <0.024        | <0.219                 | <4.9                             | 22                             | <48                               | 22          | 22                                    | 680       |  |  |
| BS 20-09  | 0.5                | February 26, 2020 | <0.025        | <0.222                 | <4.9                             | 20                             | <48                               | 20          | 20                                    | 520       |  |  |
| BS 20-10  | 0.5                | February 26, 2020 | <0.025        | <0.225                 | <5.0                             | 15                             | <49                               | 15          | 15                                    | 590       |  |  |
| BS 20-11  | 0.5                | February 26, 2020 | <0.025        | <0.221                 | <4.9                             | 69                             | <47                               | 69          | 69                                    | 750       |  |  |

"-" - Not applicable/assessed Bold and shaded indicates exceedance outside of applied action level

.

#### **ATTACHMENT 7**



March 05, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX

RE: Arena Roja Fed Unit 1 CTB

OrderNo.: 2002C59

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/28/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2002C59

Date Reported: 3/5/2020

3/3/2020 4:19:12 PM

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-01 **Project:** Arena Roja Fed Unit 1 CTB Collection Date: 2/25/2020 9:55:00 AM Lab ID: 2002C59-001 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 3/3/2020 8:14:28 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/3/2020 8:14:28 PM Surr: DNOP 130 55.1-146 %Rec 1 3/3/2020 8:14:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/1/2020 3:57:54 PM 5.0 mg/Kg 1 Surr: BFB 83.0 66.6-105 %Rec 1 3/1/2020 3:57:54 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 3/1/2020 3:57:54 PM 1 Toluene 0.050 ND mg/Kg 1 3/1/2020 3:57:54 PM Ethylbenzene ND 0.050 mg/Kg 1 3/1/2020 3:57:54 PM Xylenes, Total ND 0.10 mg/Kg 1 3/1/2020 3:57:54 PM Surr: 4-Bromofluorobenzene 89.6 80-120 %Rec 1 3/1/2020 3:57:54 PM Analyst: JMT **EPA METHOD 300.0: ANIONS** 

ND

59

ma/Ka

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

**Analytical Report** Lab Order 2002C59

Date Reported: 3/5/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-02 **Project:** Arena Roja Fed Unit 1 CTB Collection Date: 2/25/2020 10:50:00 AM Lab ID: 2002C59-002 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 10 mg/Kg 1 3/3/2020 8:41:55 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 3/3/2020 8:41:55 PM Surr: DNOP 126 55.1-146 %Rec 1 3/3/2020 8:41:55 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/1/2020 4:21:22 PM 4.8 mg/Kg 1 Surr: BFB 79.2 66.6-105 %Rec 1 3/1/2020 4:21:22 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/1/2020 4:21:22 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 3/1/2020 4:21:22 PM Ethylbenzene ND 0.048 mg/Kg 1 3/1/2020 4:21:22 PM Xylenes, Total ND 0.096 mg/Kg 1 3/1/2020 4:21:22 PM Surr: 4-Bromofluorobenzene 84.9 80-120 %Rec 1 3/1/2020 4:21:22 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 3/3/2020 4:31:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix Н
- Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

- Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

ma/Ka

20

Р Sample pH Not In Range

Reporting Limit RL

Page 2 of 12

**CLIENT:** Devon Energy

**Project:** 

Chloride

Analytical Report Lab Order 2002C59

3/3/2020 4:43:55 PM

#### Hall Environmental Analysis Laboratory, Inc.

Arena Roja Fed Unit 1 CTB

Date Reported: 3/5/2020 Client Sample ID: BS20-03 Collection Date: 2/25/2020 11:00:00 AM

Lab ID: 2002C59-003 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 3/3/2020 8:51:03 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/3/2020 8:51:03 PM Surr: DNOP 119 55.1-146 %Rec 1 3/3/2020 8:51:03 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/1/2020 6:41:37 PM 4.9 mg/Kg 1 Surr: BFB 82.6 66.6-105 %Rec 1 3/1/2020 6:41:37 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 3/1/2020 6:41:37 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 3/1/2020 6:41:37 PM Ethylbenzene ND 0.049 mg/Kg 1 3/1/2020 6:41:37 PM Xylenes, Total ND 0.097 mg/Kg 1 3/1/2020 6:41:37 PM 3/1/2020 6:41:37 PM Surr: 4-Bromofluorobenzene 89.5 80-120 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JMT

790

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ma/Ka

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Analytical Report Lab Order 2002C59

Date Reported: 3/5/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-04 **Project:** Arena Roja Fed Unit 1 CTB Collection Date: 2/25/2020 11:06:00 AM Lab ID: 2002C59-004 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 3/3/2020 9:00:11 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/3/2020 9:00:11 PM Surr: DNOP 55.1-146 %Rec 1 3/3/2020 9:00:11 PM 112 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/1/2020 7:52:05 PM 4.7 mg/Kg 1 Surr: BFB 80.5 66.6-105 %Rec 1 3/1/2020 7:52:05 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 3/1/2020 7:52:05 PM 1 Toluene ND 0.047 mg/Kg 1 3/1/2020 7:52:05 PM Ethylbenzene ND 0.047 mg/Kg 1 3/1/2020 7:52:05 PM Xylenes, Total ND 0.095 mg/Kg 1 3/1/2020 7:52:05 PM Surr: 4-Bromofluorobenzene 86.3 80-120 %Rec 1 3/1/2020 7:52:05 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 3/3/2020 4:56:15 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

**CLIENT:** Devon Energy

Project: Arena Roja Fed Unit 1 CTB

**Analytical Report** Lab Order 2002C59

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/5/2020 Client Sample ID: BS20-05 Collection Date: 2/25/2020 11:15:00 AM **Deceived Deter** 2/28/2020 10:57:00 AM

| Lab ID: 2002C59-005             | Matrix: SOIL | Rece     | Received Date: 2/28/2020 10:57:00 AM |    |                     |  |  |  |
|---------------------------------|--------------|----------|--------------------------------------|----|---------------------|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units                             | DF | Date Analyzed       |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |          |                                      |    | Analyst: CLP        |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.7      | mg/Kg                                | 1  | 3/3/2020 9:09:19 PM |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 48       | mg/Kg                                | 1  | 3/3/2020 9:09:19 PM |  |  |  |
| Surr: DNOP                      | 131          | 55.1-146 | %Rec                                 | 1  | 3/3/2020 9:09:19 PM |  |  |  |
| EPA METHOD 8015D: GASOLINE RAN  | IGE          |          |                                      |    | Analyst: NSB        |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg                                | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| Surr: BFB                       | 80.7         | 66.6-105 | %Rec                                 | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |                                      |    | Analyst: NSB        |  |  |  |
| Benzene                         | ND           | 0.025    | mg/Kg                                | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| Toluene                         | ND           | 0.049    | mg/Kg                                | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg                                | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| Xylenes, Total                  | ND           | 0.099    | mg/Kg                                | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| Surr: 4-Bromofluorobenzene      | 86.1         | 80-120   | %Rec                                 | 1  | 3/1/2020 8:15:34 PM |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |                                      |    | Analyst: <b>JMT</b> |  |  |  |
| Chloride                        | ND           | 60       | mg/Kg                                | 20 | 3/3/2020 5:08:36 PM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2002C59

Date Reported: 3/5/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-06 **Project:** Arena Roja Fed Unit 1 CTB Collection Date: 2/25/2020 11:20:00 AM Lab ID: 2002C59-006 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 3/3/2020 9:18:25 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/3/2020 9:18:25 PM Surr: DNOP 127 55.1-146 %Rec 1 3/3/2020 9:18:25 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/1/2020 8:39:00 PM 4.9 mg/Kg 1 Surr: BFB 79.9 66.6-105 %Rec 1 3/1/2020 8:39:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 3/1/2020 8:39:00 PM 1 Toluene ND 0.049 mg/Kg 1 3/1/2020 8:39:00 PM Ethylbenzene ND 0.049 mg/Kg 1 3/1/2020 8:39:00 PM Xylenes, Total ND 0.098 mg/Kg 1 3/1/2020 8:39:00 PM 3/1/2020 8:39:00 PM Surr: 4-Bromofluorobenzene 86.3 80-120 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride 740 61 3/3/2020 2:18:35 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

|      | WO#: | 2002C59   |
|------|------|-----------|
| Inc. |      | 05-Mar-20 |

|                      | on Energy<br>na Roja Fed Unit 1 CTB   |
|----------------------|---|
| •                    | ·   |
| Sample ID: MB-50837  |   |
| Client ID: PBS       | Batch ID: 50837 RunNo: 66982  |
| Prep Date: 3/3/2020  | Analysis Date: 3/3/2020 SeqNo: 2305550 Units: mg/Kg                         |
| Analyte              | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | ND 1.5  |
| Sample ID: LCS-50837 | SampType: Ics TestCode: EPA Method 300.0: Anions                            |
| Client ID: LCSS      | Batch ID: 50837 RunNo: 66982  |
| Prep Date: 3/3/2020  | Analysis Date: 3/3/2020 SeqNo: 2305551 Units: mg/Kg                         |
| Analyte              | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | 14 1.5 15.00 0 95.2 90 110  |
| Sample ID: MB-50836  | SampType: mblk TestCode: EPA Method 300.0: Anions                           |
| Client ID: PBS       | Batch ID: 50836 RunNo: 66981  |
| Prep Date: 3/3/2020  | Analysis Date: 3/3/2020 SeqNo: 2305691 Units: mg/Kg                         |
| Analyte              | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | ND 1.5  |
| Sample ID: LCS-50836 | SampType: Ics TestCode: EPA Method 300.0: Anions                            |
| Client ID: LCSS      | Batch ID: 50836 RunNo: 66981  |
| Prep Date: 3/3/2020  | Analysis Date: 3/3/2020 SeqNo: 2305692 Units: mg/Kg                         |
| Analyte              | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | 14 1.5 15.00 0 95.7 90 110  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Devon Energy

**Client:** 

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Project: Arena R               | Roja Fed Uni  | t 1 CTI                 | В         |                |           |           |              |            |            |      |
|--------------------------------|---|-------------------------|-----------|----------------|-----------|-----------|--------------|------------|------------|------|
| Sample ID: 2002C59-001AM       | S SampTy  | ype: <b>MS</b>          | 3         | Tes            | tCode: El | PA Method | 8015M/D: Die | esel Range | e Organics |      |
| Client ID: BS20-01             | Batch   | ID: 50                  | 786       | RunNo: 66969   |           |           |              |            |            |      |
| Prep Date: 3/2/2020            | Analysis Da   | Analysis Date: 3/3/2020 |           |                | SeqNo: 2  | 305218    | Units: mg/k  | (g         |            |      |
| Analyte                        | Result  | PQL                     | SPK value | SPK Ref Val    | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO)    | 53  | 9.8                     | 48.78     | 5.852          | 97.2      | 47.4      | 136          |            |            |      |
| Surr: DNOP                     | 6.2   |                         | 4.878     |                | 128       | 55.1      | 146          |            |            |      |
| Sample ID: 2002C59-001AM       | IAMSD         SampType:         MSD         TestCode:         EPA Method 8015M/D: Diesel Range Organics |                         |           |                |           |           |              |            |            |      |
| Client ID: BS20-01             | Batch   | ID: 50                  | 786       | F              | RunNo: 6  | 6969      |              |            |            |      |
| Prep Date: 3/2/2020            | Analysis Da   | ate: 3/                 | 3/2020    | 5              | SeqNo: 2  | 305219    | Units: mg/k  | (g         |            |      |
| Analyte                        | Result  | PQL                     | SPK value | SPK Ref Val    | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO)    | 45  | 9.9                     | 49.46     | 5.852          | 78.9      | 47.4      | 136          | 17.1       | 43.4       |      |
| Surr: DNOP                     | 7.0   |                         | 4.946     |                | 142       | 55.1      | 146          | 0          | 0          |      |
| Sample ID: LCS-50786           | SampTy  | ype: LC                 | S         | Tes            | tCode: El | PA Method | 8015M/D: Die | esel Range | e Organics |      |
| Client ID: LCSS                | Batch   | ID: 50                  | 786       | RunNo: 66969   |           |           |              |            |            |      |
| Prep Date: 3/2/2020            | Analysis Da   | ate: 3/                 | 3/2020    | SeqNo: 2305260 |           |           | Units: mg/Kg |            |            |      |
| Analyte                        | Result  | PQL                     | SPK value | SPK Ref Val    | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO)    | 49  | 10                      | 50.00     | 0              | 97.1      | 70        | 130          |            |            |      |
| Surr: DNOP                     | 5.1   |                         | 5.000     |                | 101       | 55.1      | 146          |            |            |      |
| Sample ID: MB-50786            | SampTy  | ype: ME                 | BLK       | Tes            | tCode: El | PA Method | 8015M/D: Die | esel Rang  | e Organics |      |
| Client ID: PBS                 | Batch   | ID: 50                  | 786       | F              | RunNo: 6  | 6969      |              |            |            |      |
| Prep Date: 3/2/2020            | Analysis Da   | ate: 3/                 | 3/2020    | S              | SeqNo: 2  | 305262    | Units: mg/k  | g          |            |      |
| Analyte                        | Result  | PQL                     | SPK value | SPK Ref Val    | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO)    | ND  | 10                      |           |                |           |           |              |            |            |      |
| Notor Oil Range Organics (MRO) | ND  | 50                      |           |                |           |           |              |            |            |      |
| Surr: DNOP                     | 10  |                         | 10.00     |                | 101       | 55.1      | 146          |            |            |      |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2002C59

05-Mar-20

WO#:

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Client:Devon EnProject:Arena Ro            | nergy<br>ja Fed Unit 1 CTB |                   |  |                      |               |  |  |  |
|--|----------------------------|-------------------|--|----------------------|---------------|--|--|--|
| Sample ID: mb-50757                        | SampType: MBLK             | Tes               | TestCode: EPA Method 8015D: Gasoline Range |                      |               |  |  |  |
| Client ID: PBS                             | Batch ID: 50757            | I                 | RunNo: 66919                               |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    | . :               | SeqNo: <b>2301551</b>                      | Units: <b>mg/Kg</b>  |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB | ND 5.0<br>800              | 1000              | 80.5 66.6                                  | 105                  |               |  |  |  |
| Sample ID: Ics-50757                       | SampType: LCS              | Tes               | stCode: EPA Method                         | 8015D: Gasoline Rang | e             |  |  |  |
| Client ID: LCSS                            | Batch ID: 50757            | I                 | RunNo: <b>66919</b>                        |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    |                   | SeqNo: <b>2301552</b>                      | Units: <b>mg/Kg</b>  |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |
| Gasoline Range Organics (GRO)              |                            | 25.00 0           | 85.1 80                                    | 120                  |               |  |  |  |
| Surr: BFB                                  | 870                        | 1000              | 87.5 66.6                                  | 105                  |               |  |  |  |
| Sample ID: mb-50772                        | SampType: MBLK             | Tes               | TestCode: EPA Method 8015D: Gasoline Range |                      |               |  |  |  |
| Client ID: PBS                             | Batch ID: 50772            | I                 | RunNo: <b>66920</b>                        |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    | . :               | SeqNo: 2301630 Units: mg/Kg                |                      |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |
| Gasoline Range Organics (GRO)              | ND 5.0                     |                   |  |                      |               |  |  |  |
| Surr: BFB                                  | 830                        | 1000              | 83.4 66.6                                  | 105                  |               |  |  |  |
| Sample ID: Ics-50772                       | SampType: LCS              | Tes               | stCode: EPA Method                         | 8015D: Gasoline Rang | e             |  |  |  |
| Client ID: LCSS                            | Batch ID: 50772            | I                 | RunNo: 66920                               |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    |                   | SeqNo: 2301631                             | Units: <b>mg/Kg</b>  |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |
| Gasoline Range Organics (GRO)              |                            | 25.00 0           | 91.2 80                                    | 120                  |               |  |  |  |
| Surr: BFB                                  | 890                        | 1000              | 88.6 66.6                                  | 105                  |               |  |  |  |
| Sample ID: 2002c59-002ams                  | SampType: MS               | Tes               | stCode: EPA Method                         | 8015D: Gasoline Rang | e             |  |  |  |
| Client ID: BS20-02                         | Batch ID: 50772            | I                 | RunNo: <b>66920</b>                        |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    |                   | SeqNo: 2301633                             | Units: <b>mg/Kg</b>  |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |
| Gasoline Range Organics (GRO)              |                            | 23.34 0           | 95.4 69.1                                  | 142                  |               |  |  |  |
| Surr: BFB                                  | 850                        | 933.7             | 90.8 66.6                                  | 105                  |               |  |  |  |
| Sample ID: 2002c59-002amsd                 | SampType: MSD              | Tes               | stCode: EPA Method                         | 8015D: Gasoline Rang | e             |  |  |  |
| Client ID: BS20-02                         | Batch ID: 50772            | I                 | RunNo: <b>66920</b>                        |                      |               |  |  |  |
| Prep Date: 2/28/2020                       | Analysis Date: 3/1/2020    | . :               | SeqNo: <b>2301634</b>                      | Units: mg/Kg         |               |  |  |  |
| Analyte                                    | Result PQL SPK             | value SPK Ref Val | %REC LowLimit                              | HighLimit %RPD       | RPDLimit Qual |  |  |  |

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 12

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WO#:

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2002C59

WO#:

| Hall Environmental Analysis Laboratory, Inc.  |             |          |           |                             |          |          |           |       | 05-Mar-20 |      |
|---|-------------|----------|-----------|-----------------------------|----------|----------|-----------|-------|-----------|------|
| Client: Devon I   | 0,          |          |           |                             |          |          |           |       |           |      |
| Project: Arena R  | loja Fed Un | it 1 CTI | В         |                             |          |          |           |       |           |      |
| Sample ID: 2002c59-002amsd         SampType: MSD         TestCode: EPA Method 8015D: Gasoline Range |             |          |           |                             |          |          |           |       |           |      |
| Client ID: BS20-02  | Batc        | h ID: 50 | 772       | F                           | RunNo: 6 | 6920     |           |       |           |      |
| Prep Date: 2/28/2020  | Analysis [  | Date: 3/ | 1/2020    | SeqNo: 2301634 Units: mg/Kg |          |          |           |       |           |      |
| Analyte   | Result      | PQL      | SPK value | SPK Ref Val                 | %REC     | LowLimit | HighLimit | %RPD  | RPDLimit  | Qual |
| Gasoline Range Organics (GRO)   | 22          | 5.0      | 24.85     | 0                           | 89.4     | 69.1     | 142       | 0.190 | 20        |      |

| Analyte                       | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qua |
|-------------------------------|--------|-----|-----------|-------------|------|----------|-----------|-------|----------|-----|
| Gasoline Range Organics (GRO) | 22     | 5.0 | 24.85     | 0           | 89.4 | 69.1     | 142       | 0.190 | 20       |     |
| Surr: BFB                     | 910    |     | 994.0     |             | 91.2 | 66.6     | 105       | 0     | 0        |     |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| WO#: | 2002C59 |
|------|---------|
|      |         |

05-Mar-20

| Client:Devon EProject:Arena Re | nergy<br>oja Fed Un     | it 1 CTI        | 3         |                                       |                                       |           |                    |      |          |      |
|--------------------------------|-------------------------|-----------------|-----------|---------------------------------------|---------------------------------------|-----------|--------------------|------|----------|------|
| Sample ID: mb-50757            | SampT                   | Гуре: МЕ        | BLK       | Tes                                   | TestCode: EPA Method 8021B: Volatiles |           |                    |      |          |      |
| Client ID: PBS                 | Batc                    | h ID: 50        | 757       | F                                     | RunNo: 66919                          |           |                    |      |          |      |
| Prep Date: 2/28/2020           | Analysis Date: 3/1/2020 |                 |           | S                                     | SeqNo: 2:                             | 301596    | Units: mg/K        | g    |          |      |
| Analyte                        | Result                  | PQL             | SPK value | SPK Ref Val                           | %REC                                  | LowLimit  | HighLimit %RPD     |      | RPDLimit | Qual |
| Benzene                        | ND                      | 0.025           |           |                                       |                                       |           | -                  |      |          |      |
| Toluene                        | ND                      | 0.050           |           |                                       |                                       |           |                    |      |          |      |
| Ethylbenzene                   | ND                      | 0.050           |           |                                       |                                       |           |                    |      |          |      |
| Xylenes, Total                 | ND                      | 0.10            |           |                                       |                                       |           |                    |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.87                    |                 | 1.000     |                                       | 86.7                                  | 80        | 120                |      |          |      |
| Sample ID: LCS-50757           | SampT                   | Гуре: <b>LC</b> | S         | Tes                                   | tCode: EF                             | PA Method | 8021B: Volat       | iles |          |      |
| Client ID: LCSS                | Batc                    | h ID: 50        | 757       | F                                     | RunNo: 6                              | 6919      |                    |      |          |      |
| Prep Date: 2/28/2020           | Analysis E              | Date: 3/        | 1/2020    | S                                     | SeqNo: 2                              | 301597    | Units: mg/K        | g    |          |      |
| Analyte                        | Result                  | PQL             | SPK value | SPK Ref Val                           | %REC                                  | LowLimit  | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                        | 0.96                    | 0.025           | 1.000     | 0                                     | 95.8                                  | 80        | 120                |      |          |      |
| Toluene                        | 0.98                    | 0.050           | 1.000     | 0                                     | 98.1                                  | 80        | 120                |      |          |      |
| Ethylbenzene                   | 0.99                    | 0.050           | 1.000     | 0                                     | 99.3                                  | 80        | 120                |      |          |      |
| Xylenes, Total                 | 3.0                     | 0.10            | 3.000     | 0                                     | 100                                   | 80        | 120                |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.92                    |                 | 1.000     |                                       | 92.2                                  | 80        | 120                |      |          |      |
| Sample ID: mb-50772            | SampT                   | Гуре: МЕ        | BLK       | TestCode: EPA Method 8021B: Volatiles |                                       |           |                    |      |          |      |
| Client ID: PBS                 | Batc                    | h ID: 50        | 772       | RunNo: 66920                          |                                       |           |                    |      |          |      |
| Prep Date: 2/28/2020           | Analysis E              | Date: 3/        | 1/2020    | S                                     | SeqNo: 2                              | 301667    | Units: mg/K        | g    |          |      |
| Analyte                        | Result                  | PQL             | SPK value | SPK Ref Val                           | %REC                                  | LowLimit  | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                        | ND                      | 0.025           |           |                                       |                                       |           |                    |      |          |      |
| Toluene                        | ND                      | 0.050           |           |                                       |                                       |           |                    |      |          |      |
| Ethylbenzene                   | ND                      | 0.050           |           |                                       |                                       |           |                    |      |          |      |
| Xylenes, Total                 | ND                      | 0.10            |           |                                       |                                       |           |                    |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.90                    |                 | 1.000     |                                       | 90.2                                  | 80        | 120                |      |          |      |
| Sample ID: LCS-50772           | SampT                   | Гуре: <b>LC</b> | S         | Tes                                   | tCode: EF                             | PA Method | 8021B: Volat       | iles |          |      |
| Client ID: LCSS                | Batcl                   | h ID: 50        | 772       | F                                     | RunNo: <b>6</b>                       | 6920      |                    |      |          |      |
| Prep Date: 2/28/2020           | Analysis E              | Date: 3/        | 1/2020    | S                                     | SeqNo: 2                              | 301668    | Units: <b>mg/K</b> | g    |          |      |
| Analyte                        | Result                  | PQL             | SPK value | SPK Ref Val                           | %REC                                  | LowLimit  | HighLimit          | %RPD | RPDLimit | Qual |
| Benzene                        | 0.86                    | 0.025           | 1.000     | 0                                     | 86.0                                  | 80        | 120                |      |          |      |
| Toluene                        | 0.89                    | 0.050           | 1.000     | 0                                     | 88.7                                  | 80        | 120                |      |          |      |
| Ethylbenzene                   | 0.90                    | 0.050           | 1.000     | 0                                     | 90.2                                  | 80        | 120                |      |          |      |
| Xylenes, Total                 | 2.7                     | 0.10            | 3.000     | 0                                     | 91.3                                  | 80        | 120                |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.90                    |                 | 1.000     |                                       | 89.9                                  | 80        | 120                |      |          |      |

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory. Inc \_

| 05-Mar-20 |
|-----------|
|           |
|           |
|           |

| Client:  | Devon Energy              |  |  |  |  |  |
|----------|---------------------------|--|--|--|--|--|
| Project: | Arena Roja Fed Unit 1 CTB |  |  |  |  |  |

| Sample ID: 2002c59-003ams  | SampT   | уре: МS   | 5  | Tes                                    | tCode: El                                    | PA Method                                  | 8021B: Volat                                  | iles                              |                |      |
|--|---|---|--|--|--|--|---|-----------------------------------|----------------|------|
| Client ID: BS20-03   | Batcl   | n ID: 50  | 772  | F                                      | RunNo: 6                                     | 6920                                       |   |                                   |                |      |
| Prep Date: 2/28/2020   | Analysis D                                    | Date: 3/  | 1/2020   | 5                                      | SeqNo: 2                                     | 301671                                     | Units: mg/K                                   | (g                                |                |      |
| Analyte  | Result  | PQL   | SPK value                                      | SPK Ref Val                            | %REC   | LowLimit                                   | HighLimit                                     | %RPD                              | RPDLimit       | Qual |
| Benzene  | 0.83  | 0.024   | 0.9718   | 0.01535                                | 84.0   | 78.5                                       | 119   |                                   |                |      |
| Toluene  | 0.87  | 0.049   | 0.9718   | 0.01429                                | 88.0   | 75.7                                       | 123   |                                   |                |      |
| Ethylbenzene   | 0.89  | 0.049   | 0.9718   | 0                                      | 91.9   | 74.3                                       | 126   |                                   |                |      |
| Xylenes, Total   | 2.7   | 0.097   | 2.915  | 0.03664                                | 92.3   | 72.9                                       | 130   |                                   |                |      |
| Surr: 4-Bromofluorobenzene   | 0.91  |   | 0.9718   |  | 93.1   | 80   | 120   |                                   |                |      |
|  |   |   |  |  |  |  |   |                                   |                |      |
| Sample ID: 2002c59-003amsc   | I SampT                                       | уре: МS   | D  | Tes                                    | tCode: El                                    | PA Method                                  | 8021B: Volat                                  | iles                              |                |      |
| Sample ID: 2002c59-003amsc<br>Client ID: BS20-03                               |   | ype: <b>MS</b><br>n ID: <b>50</b>                           |  |  | tCode: El                                    |  | 8021B: Volat                                  | iles                              |                |      |
|  |   | n ID: 50  | 772  | F                                      |  | 6920                                       | 8021B: Volat<br>Units: mg/K                   |                                   |                |      |
| Client ID: BS20-03   | Batcl   | n ID: 50  | 772<br>1/2020                                  | F                                      | RunNo: 6                                     | 6920                                       |   |                                   | RPDLimit       | Qual |
| Client ID: BS20-03<br>Prep Date: 2/28/2020                                     | Batcl<br>Analysis D                           | n ID: 507<br>Date: 3/                                       | 772<br>1/2020                                  | F                                      | RunNo: <b>6</b><br>SeqNo: <b>2</b>           | 6920<br>301672                             | Units: <b>mg/K</b>                            | ſg                                | RPDLimit<br>20 | Qual |
| Client ID: BS20-03<br>Prep Date: 2/28/2020<br>Analyte                          | Batcl<br>Analysis D<br>Result                 | n ID: <b>50</b><br>Date: <b>3/</b><br>PQL                   | 772<br>1/2020<br>SPK value                     | F<br>S<br>SPK Ref Val                  | RunNo: 6<br>SeqNo: 2<br>%REC                 | 6920<br>301672<br>LowLimit                 | Units: <b>mg/K</b><br>HighLimit               | <b>′g</b><br>%RPD                 |                | Qual |
| Client ID: <b>BS20-03</b><br>Prep Date: <b>2/28/2020</b><br>Analyte<br>Benzene | Batcl<br>Analysis E<br>Result<br>0.89         | n ID: <b>50</b> 7<br>Date: <b>3/</b><br>PQL<br>0.025        | 772<br>1/2020<br>SPK value<br>0.9930           | F<br>S<br>SPK Ref Val<br>0.01535       | RunNo: 6<br>SeqNo: 2<br>%REC<br>87.6         | 6920<br>301672<br>LowLimit<br>78.5         | Units: <b>mg/K</b><br>HighLimit<br>119        | <b>5g</b><br><u>%RPD</u><br>6.34  | 20             | Qual |
| Client ID: BS20-03<br>Prep Date: 2/28/2020<br>Analyte<br>Benzene<br>Toluene    | Batcl<br>Analysis D<br>Result<br>0.89<br>0.92 | n ID: <b>50</b><br>Date: <b>3/</b><br>PQL<br>0.025<br>0.050 | 772<br>1/2020<br>SPK value<br>0.9930<br>0.9930 | F<br>SPK Ref Val<br>0.01535<br>0.01429 | RunNo: 6<br>SeqNo: 2<br>%REC<br>87.6<br>91.6 | 6920<br>301672<br>LowLimit<br>78.5<br>75.7 | Units: <b>mg/K</b><br>HighLimit<br>119<br>123 | <b>5g</b><br>%RPD<br>6.34<br>6.12 | 20<br>20       | Qual |

**Qualifiers:** 

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- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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WO#: 2002C59

| ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | Hall Environmer<br>,<br>TEL: 505-345-3<br>Website: www | 490<br>Albuquerq<br>975 FAX: | 1 Hawkins<br>nue, NM 87<br>505-345-4 | s NE<br>7109<br>1107 | Sample Log-In Check List |  |    |  |
|---|--|------------------------------|--------------------------------------|----------------------|--------------------------|--|----|--|
| Client Name: DEVON ENERGY   | Work Order Num   | ber: 200                     | 2C59                                 |                      |                          | RcptNo: 1  |    |  |
| Received By: Yazmine Garduno 2  | 2/28/2020 10:57:00                                     | AM                           |                                      | Magnin               | u lighdente              |  |    |  |
| Completed By: Yazmine Garduno 2   | 2/28/2020 12:08:59                                     | PM                           |                                      | Abaymin              | u (gendante              |  |    |  |
| Reviewed By: ENM  | 2/28/20  |                              |                                      |                      |                          |  |    |  |
| Chain of Custody  |  |                              |                                      |                      |                          |  |    |  |
| 1. Is Chain of Custody sufficiently complete?   |  | Yes                          |                                      | No                   |                          | Not Present  |    |  |
| 2. How was the sample delivered?  |  | Cou                          | rier                                 |                      |                          |  |    |  |
| Log In  |  |                              |                                      |                      |                          |  |    |  |
| 3. Was an attempt made to cool the samples?   |  | Yes                          | $\checkmark$                         | No                   |                          | NA 🗌   |    |  |
| 4. Were all samples received at a temperature of  | >0° C to 6.0°C   | Yes                          |                                      | No                   |                          |  |    |  |
| 5. Sample(s) in proper container(s)?  |  | Yes                          |                                      | No                   |                          |  |    |  |
| 6. Sufficient sample volume for indicated test(s)?  |  | Yes                          |                                      | No                   |                          |  |    |  |
| 7. Are samples (except VOA and ONG) properly p  | reserved?  | Yes                          | $\checkmark$                         | No                   |                          |  |    |  |
| 8. Was preservative added to bottles?   |  | Yes                          |                                      | No                   |                          | NA 🗌   |    |  |
| 9. Received at least 1 vial with headspace <1/4" for  | or AQ VOA?   | Yes                          |                                      | No                   |                          | NA 🗹 🖉   |    |  |
| 10. Were any sample containers received broken?   |  | Yes                          |                                      | No                   |                          | # of preserved   | 1  |  |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)                             |  | Yes                          |                                      | No                   |                          | bottles checked<br>for pH:<br>(<2 or >12 unless noted) |    |  |
| 12. Are matrices correctly identified on Chain of Cu  | stody?   | Yes                          | ~                                    | No                   |                          | Adjusted?  |    |  |
| 13. Is it clear what analyses were requested?   |  | Yes                          | $\checkmark$                         | No                   |                          | ALL 2hg  | 12 |  |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.)                       |  | Yes                          |                                      | No                   |                          | Checked by:  | 14 |  |
| Special Handling (if applicable)  |  |                              |                                      |                      |                          | /  |    |  |
| 15. Was client notified of all discrepancies with this  | s order?   | Yes                          |                                      | No                   |                          | NA 🗹   |    |  |
| Person Notified:  | Date   |                              | na more da etca                      |                      | -                        |  |    |  |
| By Whom:  | Via:   | ∣<br>∏ eM                    | ail 🗌 P                              | hone                 | Fax                      | In Person  |    |  |
| Regarding:  |  |                              |                                      |                      |                          |  |    |  |
| Client Instructions:  | The Contraction of Contraction of Contraction          |                              |                                      |                      | Reverse                  |  |    |  |
| 16. Additional remarks:   |  |                              |                                      |                      |                          |  |    |  |
| 17. <u>Cooler Information</u>   |  |                              |                                      |                      |                          |  |    |  |
| the second se | Intact Seal No   | Seal D                       |                                      | Signed               | <b>D</b>                 | ł  |    |  |

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| Of-Custody Record<br>Imr-Around Time:<br>Solution     Anal Vision<br>Resintant       Main Figure<br>Signation     Assimilation<br>Resintant       Main Figure<br>Solution     Project Mainger:<br>Confile       Main Figure<br>Solution     Project Mainger:<br>Confile       Main Solution     Project Mainger:<br>Confile       Main Solution     Confile       Main Solution     Sampler:<br>Figure<br>Solution       Main Sample Name     Container<br>Figure<br>Solution       Solution     Solution       Solution     Solution       Solution     Solution       Solution     Solution       Solution     D | ceived by OCD: 5/18/2020 3  | 07:07 PM   |   | Page 111 of  |
|---|---|--|---|--|
| F-Custody Record     Turn-Around Time:     Solution       3     20:5     Mathews     Project Name:     Aron & Roja       6:01 F.12     Project Name:     Aron & Roja     Fed Unit       6:01 F.12     Project Name:     Aron & Roja     Asthematication       6:01 F.12     Project Manager:     Mathematication     Asthematication       7     1     CTB     Project Manager:     Mathematication       7     2     1     Concerting     Asthematication       7     1     CTB     Project Manager:     Mathematication       7     1     CTB     Project Manager:     Asthematication       7     1     CTB     Project Manager:     Asthematication       8     0     1     CTB     Project Manager:     Asthematication       1     S     1     S     Color Plane     Project Manager:       1     S     1     S     S     Color Plane       1     S     S     1     S     S       1 <td>IVIRONN<br/>IS LABOI<br/>onmental.com<br/>querque, NM 87-<br/>tx 505-345-4107<br/>is Request</td> <td>(AOV-im92) 072</td> <td></td> <td>- #'0'n</td>   | IVIRONN<br>IS LABOI<br>onmental.com<br>querque, NM 87-<br>tx 505-345-4107<br>is Request | (AOV-im92) 072   |   | - #'0'n  |
| F-Custody Record     Turn-Around Time:     Solution       3     20:5     Mathews     Project # ash       3     20:5     Mathews     Project Wainager:       5     20:5     1     Contrainer       5     20:5     20:11     1       6:1     8:00     1     Contrainer       5     20:5     1     20:5       6:1     8:00     1     20:5       7     20:5     1     20:5       1     Crobin     1     1       6:1     8:520 - 01     1     1       1     8:520 - 05     1     1       1     5:20 - 04     1     1       1     8:520 - 05     1     1       1     8:520 - 06     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1  | ALL EN<br>VAL YS:<br>W.hallenvir<br>NE - Albu<br>3975 Fa<br>Analys                      | SCRA 8 Metals<br>CRA 8 Metals  |   | evoni-li<br>Gerder                                       |
| F-Custody Record<br>Turn-Around Time: 5-deur<br>Standard □ Rush<br>Standard □ Rush<br>Standard □ Rush<br>A.Standard □ Rush<br>Project Manager: Mark Roja Fed Unit<br>Project Manager: Mark I: Coordbarn<br>Project Manager: Mark I: Coordbarn<br>Az Compliance<br>Diter<br>Diter<br>Diter<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B520-01<br>B1 (Fr<br>Project Manager: Mark I: Coordbarn<br># Type<br>B1 (Fr<br>Project Manager: Mark I: Coordbarn<br># Type<br>B520-01<br>B1 (Fr<br>Project Manager: Mark I: Coordbarn<br># Cooler: The Prosenative<br>B520-01<br>B520-01<br>B1 (Fr<br>Bate Time<br>Received by: Via. Date Time<br>Received by: Via. Date Time<br>Received by: Via. Date Time<br>Received by: Via. Date Time  | AL<br>AL<br>M<br>901 Hawkins<br>el. 505-345-  | BB (Method 504.1)  |   | Sill B<br>Natalic  |
| F-Custody Record     Turn-Around Time: S-dcy       Astandard     Rush       Astandard     Rush       Astandard     Rush       Project Name:     Act       Project Name:     Act       File     Project Manager:       Az Compliance     Sampler:       Broject Manager:     Arallic Condution       Project Manager:     Arallic Condution       Project Manager:     Arallic Condution       Az Compliance     Sampler:     Broject Manager:       Az Compliance     Sampler:     Brogect Manager:     Arallic Condution       Az Compliance     Dister     Monton     Arallic       Bissolo     Az Condutor     Arallic     Arallic       Bissolo     Bissolo     Arallic     Arallic       Bissolo     Arallic <td></td> <td>3TEXy MTBE / TMB's (8021)</td> <td></td> <td>CC:</td>   |   | 3TEXy MTBE / TMB's (8021)  |   | CC:  |
| F-Custody Record  | me: S-deuy<br>- Rush<br>Arena Roja Fed<br>I CTB<br>                                     | Manager: Natalic Gorder<br>: Brandon Schafer<br>p Yes No<br>plers: 1<br>Emplimetuating CP: 3.5-0.2:3.2<br>er Preservative HEAL No. | ₹ <u>−−−</u> 1  | Via: Date T<br>Via: Date T<br>Via: Date T                |
|   | f-Custody Record  | Ch file<br>Level 4 (Full Validation)<br>Az Compliance<br>Other<br>Other<br>Matrix<br>Samnle Name                                   | soil 8520-01<br>8520-02<br>8520-03<br>8520-04<br>8520-04<br>8520-06 | Relinquished by:<br>Relinquished by:<br>Relinquished by: |



March 05, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX

RE: Arena Roja Fed Unit 2 CTB

OrderNo.: 2002C66

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/28/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 3/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-07 **Project:** Arena Roja Fed Unit 2 CTB Collection Date: 2/26/2020 1:50:00 PM Lab ID: 2002C66-001 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 3/4/2020 1:22:23 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/4/2020 1:22:23 AM Surr: DNOP 142 55.1-146 %Rec 1 3/4/2020 1:22:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/3/2020 5:14:01 PM 4.9 mg/Kg 1 Surr: BFB 82.2 66.6-105 %Rec 1 3/3/2020 5:14:01 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 3/3/2020 5:14:01 PM 1 Toluene ND 0.049 mg/Kg 1 3/3/2020 5:14:01 PM Ethylbenzene ND 0.049 mg/Kg 1 3/3/2020 5:14:01 PM Xylenes, Total ND 0.098 mg/Kg 1 3/3/2020 5:14:01 PM Surr: 4-Bromofluorobenzene 88.3 80-120 %Rec 1 3/3/2020 5:14:01 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 230 59 3/3/2020 9:15:36 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Date Reported: 3/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-08 **Project:** Arena Roja Fed Unit 2 CTB Collection Date: 2/26/2020 3:05:00 PM Lab ID: 2002C66-002 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** 22 9.5 mg/Kg 1 3/4/2020 1:31:19 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/4/2020 1:31:19 AM Surr: DNOP 124 55.1-146 %Rec 1 3/4/2020 1:31:19 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/3/2020 5:37:26 PM 4.9 mg/Kg 1 Surr: BFB 83.2 66.6-105 %Rec 1 3/3/2020 5:37:26 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 3/3/2020 5:37:26 PM 1 Toluene ND 0.049 mg/Kg 1 3/3/2020 5:37:26 PM Ethylbenzene ND 0.049 mg/Kg 1 3/3/2020 5:37:26 PM Xylenes, Total ND 0.097 mg/Kg 1 3/3/2020 5:37:26 PM Surr: 4-Bromofluorobenzene 90.3 80-120 %Rec 1 3/3/2020 5:37:26 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 680 60 3/3/2020 9:52:39 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-09 **Project:** Arena Roja Fed Unit 2 CTB Collection Date: 2/26/2020 3:10:00 PM Lab ID: 2002C66-003 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** 20 9.5 mg/Kg 1 3/4/2020 1:40:12 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/4/2020 1:40:12 AM Surr: DNOP 117 55.1-146 %Rec 1 3/4/2020 1:40:12 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/3/2020 6:00:52 PM 4.9 mg/Kg 1 Surr: BFB 82.0 66.6-105 %Rec 1 3/3/2020 6:00:52 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 3/3/2020 6:00:52 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 3/3/2020 6:00:52 PM Ethylbenzene ND 0.049 mg/Kg 1 3/3/2020 6:00:52 PM Xylenes, Total ND 0.099 mg/Kg 1 3/3/2020 6:00:52 PM 3/3/2020 6:00:52 PM Surr: 4-Bromofluorobenzene 88.1 80-120 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 520 60 3/3/2020 10:05:00 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-10 **Project:** Arena Roja Fed Unit 2 CTB Collection Date: 2/26/2020 3:15:00 PM Lab ID: 2002C66-004 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** 15 9.7 mg/Kg 1 3/4/2020 1:49:06 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/4/2020 1:49:06 AM Surr: DNOP 117 55.1-146 %Rec 1 3/4/2020 1:49:06 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/3/2020 9:08:58 PM 5.0 mg/Kg 1 Surr: BFB 82.8 66.6-105 %Rec 1 3/3/2020 9:08:58 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 3/3/2020 9:08:58 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 3/3/2020 9:08:58 PM Ethylbenzene ND 0.050 mg/Kg 1 3/3/2020 9:08:58 PM Xylenes, Total ND 0.10 mg/Kg 1 3/3/2020 9:08:58 PM Surr: 4-Bromofluorobenzene 90.5 80-120 %Rec 1 3/3/2020 9:08:58 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 590 60 3/3/2020 10:42:03 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Date Reported: 3/5/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BS20-11 **Project:** Arena Roja Fed Unit 2 CTB Collection Date: 2/26/2020 3:20:00 PM Lab ID: 2002C66-005 Matrix: SOIL Received Date: 2/28/2020 10:57:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** 69 9.4 mg/Kg 1 3/4/2020 1:58:00 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/4/2020 1:58:00 AM Surr: DNOP 129 55.1-146 %Rec 1 3/4/2020 1:58:00 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/3/2020 9:32:26 PM 4.9 mg/Kg 1 Surr: BFB 80.8 66.6-105 %Rec 1 3/3/2020 9:32:26 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 3/3/2020 9:32:26 PM 1 Toluene ND 0.049 mg/Kg 1 3/3/2020 9:32:26 PM Ethylbenzene ND 0.049 mg/Kg 1 3/3/2020 9:32:26 PM Xylenes, Total ND 0.098 mg/Kg 1 3/3/2020 9:32:26 PM Surr: 4-Bromofluorobenzene 87.8 80-120 %Rec 1 3/3/2020 9:32:26 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 750 60 3/3/2020 10:54:24 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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| Client:<br>Project: | Devon Energy<br>Arena Roja Fed U | nit 2 CT         | В         |             |           |           |              |      |          |      |
|---------------------|----------------------------------|------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Sample ID: MB-50    | <b>858</b> Samp                  | Type: <b>m</b> l | blk       | Tes         | tCode: EF | PA Method | 300.0: Anion | s    |          |      |
| Client ID: PBS      | Bat                              | ch ID: 50        | 858       | F           | RunNo: 66 | 5981      |              |      |          |      |
| Prep Date: 3/3/2    | 020 Analysis                     | Date: 3/         | /3/2020   | S           | SeqNo: 23 | 305724    | Units: mg/K  | g    |          |      |
| Analyte             | Result                           | PQL              | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride            | ND                               | 1.5              |           |             |           |           |              |      |          |      |
| Sample ID: LCS-5    | 0858 Samp                        | Type: Ics        | 8         | Tes         | tCode: EF | PA Method | 300.0: Anion | S    |          |      |
| Client ID: LCSS     | Bat                              | ch ID: 50        | 858       | F           | RunNo: 66 | 5981      |              |      |          |      |
| Prep Date: 3/3/2    | 020 Analysis                     | Date: 3/         | /3/2020   | S           | SeqNo: 23 | 305725    | Units: mg/K  | g    |          |      |
| Analyte             | Result                           | PQL              | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride            | 14                               | 1.5              | 15.00     | 0           | 94.1      | 90        | 110          |      |          |      |

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

. Released to Imaging: 7/1/2022 3:26:20 PM

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2002C66

05-Mar-20

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client: Devon<br>Project: Arena I | Energy<br>Roja Fed Un      | it 2 CT         | В         |             |           |           |              |           |            |      |
|-----------------------------------|----------------------------|-----------------|-----------|-------------|-----------|-----------|--------------|-----------|------------|------|
| Sample ID: LCS-50805              | D: LCS-50805 SampType: LCS |                 |           | Tes         | tCode: El | PA Method | 8015M/D: Die | esel Rang | e Organics |      |
| Client ID: LCSS                   | Batch                      | Batch ID: 50805 |           |             | lunNo: 6  | 6969      |              |           |            |      |
| Prep Date: 3/2/2020               | Analysis D                 | ate: 3/         | 3/2020    | S           | eqNo: 2   | 305261    | Units: mg/K  | g         |            |      |
| Analyte                           | Result                     | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO)       | 51                         | 10              | 50.00     | 0           | 102       | 70        | 130          |           |            |      |
| Surr: DNOP                        | 5.3                        |                 | 5.000     |             | 106       | 55.1      | 146          |           |            |      |
| Sample ID: MB-50805               | SampT                      | ype: ME         | BLK       | Tes         | tCode: El | PA Method | 8015M/D: Die | esel Rang | e Organics |      |
| Client ID: PBS                    | Batch                      | n ID: 50        | 805       | F           | lunNo: 6  | 6969      |              |           |            |      |
| Prep Date: 3/2/2020               | Analysis D                 | ate: 3/         | 3/2020    | S           | eqNo: 2   | 305263    | Units: mg/K  | g         |            |      |
| Analyte                           | Result                     | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO)       | ND                         | 10              |           |             |           |           |              |           |            |      |
| Notor Oil Range Organics (MRO)    | ND                         | 50              |           |             |           |           |              |           |            |      |
| Surr: DNOP                        | 11                         |                 | 10.00     |             | 107       | 55.1      | 146          |           |            |      |

Qualifiers:

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- P Sample pH Not In Range
- RL Reporting Limit

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2002C66

05-Mar-20

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|                               | Energy<br>Roja Fed Uni | it 2 CT  | В         |             |           |           |             |           |          |      |
|-------------------------------|------------------------|----------|-----------|-------------|-----------|-----------|-------------|-----------|----------|------|
| Sample ID: mb-50800           | SampT                  | ype: ME  | BLK       | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | e        |      |
| Client ID: PBS                | Batch                  | n ID: 50 | 800       | F           | RunNo: 6  | 6977      |             |           |          |      |
| Prep Date: 3/2/2020           | Analysis D             | ate: 3/  | 3/2020    | S           | SeqNo: 2  | 304995    | Units: mg/K | g         |          |      |
| Analyte                       | Result                 | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                     | 5.0      |           |             |           |           |             |           |          |      |
| Surr: BFB                     | 810                    |          | 1000      |             | 81.5      | 66.6      | 105         |           |          |      |
| Sample ID: Ics-50800          | SampT                  | ype: LC  | S         | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | e        |      |
| Client ID: LCSS               | Batch                  | n ID: 50 | 800       | F           | RunNo: 6  | 6977      |             |           |          |      |
| Prep Date: 3/2/2020           | Analysis D             | ate: 3/  | 3/2020    | S           | SeqNo: 2  | 304996    | Units: mg/K | g         |          |      |
| Analyte                       | Result                 | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                     | 5.0      | 25.00     | 0           | 92.6      | 80        | 120         |           |          |      |
| Surr: BFB                     | 940                    |          | 1000      |             | 94.2      | 66.6      | 105         |           |          |      |

### **Qualifiers:**

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2.9

0.89

0.10

3.000

1.000

|                            | on Energy<br>na Roja Fed Ur | it 2 CTI        | В         |             |           |           |              |      |          |      |
|----------------------------|-----------------------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Sample ID: mb-50800        | Samp                        | Гуре: <b>МЕ</b> | BLK       | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
| Client ID: PBS             | Batc                        | h ID: 50        | 800       | F           | RunNo: 6  | 6977      |              |      |          |      |
| Prep Date: 3/2/2020        | Analysis [                  | Date: 3/        | 3/2020    | S           | SeqNo: 2  | 305032    | Units: mg/K  | g    |          |      |
| Analyte                    | Result                      | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | ND                          | 0.025           |           |             |           |           |              |      |          |      |
| Toluene                    | ND                          | 0.050           |           |             |           |           |              |      |          |      |
| Ethylbenzene               | ND                          | 0.050           |           |             |           |           |              |      |          |      |
| Xylenes, Total             | ND                          | 0.10            |           |             |           |           |              |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.88                        |                 | 1.000     |             | 88.1      | 80        | 120          |      |          |      |
| Sample ID: LCS-50800       | Samp                        | Гуре: <b>LC</b> | S         | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
| Client ID: LCSS            | Batc                        | h ID: 50        | 800       | F           | RunNo: 6  | 6977      |              |      |          |      |
| Prep Date: 3/2/2020        | Analysis [                  | Date: 3/        | 3/2020    | S           | SeqNo: 2  | 305033    | Units: mg/K  | g    |          |      |
| Analyte                    | Result                      | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.87                        | 0.025           | 1.000     | 0           | 86.7      | 80        | 120          |      |          |      |
| Toluene                    | 0.92                        | 0.050           | 1.000     | 0           | 92.3      | 80        | 120          |      |          |      |
| Ethylbenzene               | 0.94                        | 0.050           | 1.000     | 0           | 94.2      | 80        | 120          |      |          |      |

0

95.7

88.7

80

80

120

120

**Qualifiers:** 

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2002C66

05-Mar-20

WO#:

| t Name:<br>ved By:<br>oleted By:<br>wed By: | DEVON EN<br>Yazmine  |   | Work   | Order Num  |   |   |  | Sample Log-In Check List   |  |  |  |
|---|--|---|--|--|---|---|--|--|--|--|--|
| eleted By:<br>wed By:                       |  | Carduna   |  |  | ber: 200  | 2C66  |  |  | RcptNo: 1  |  |  |
| wed By:                                     | Yazmine  | Jaruuno   | 2/28/20  | 20 10:57:00  | MA  |   | Norm   | in lighdert  | 1  |  |  |
|   | 1-   | Garduno   | 2/28/20  | 20 1:02:01   | PM  |   | Normi  | in lighterie   |  |  |  |
|   | ENM  |   | 212  | SIZD   |   |   |  |  |  |  |  |
| n of Cus                                    | <u>tody</u>  |   |  |  |   |   |  |  |  |  |  |
| Chain of C                                  | ustody suffici   | iently complete?  |  |  | Yes   | ~   | No   |  | Not Present  |  |  |
| w was the                                   | sample deliv   | ered?   |  |  | Cou   | rier  |  |  |  |  |  |
| In  |  |   |  |  |   |   |  |  |  |  |  |
| is an atterr                                | npt made to c  | cool the samples  | ?  |  | Yes   |   | No   |  | NA 🗌   |  |  |
| re all samp                                 | oles received  | at a temperatur   | reof ≥0° C   | to 6.0°C   | Yes   | ~   | No   |  |  |  |  |
| mple(s) in                                  | proper conta   | iner(s)?  |  |  | Yes   | ~   | No   |  |  |  |  |
| ficient sam                                 | ple volume f   | or indicated test   | (s)?   |  | Yes   |   | No   |  |  |  |  |
| samples (                                   | except VOA   | and ONG) prope  | orly preserve  | ed?  | Yes   | ~   | No   |  |  |  |  |
| s preserva                                  | tive added to  | bottles?  |  |  | Yes   |   | No   |  | NA 🗌   |  |  |
| eived at le                                 | ast 1 vial wit   | h headspace <1  | /4" for AQ \   | OA?  | Yes   |   | No   |  | NA 🗹   |  |  |
| re any san                                  | nple containe  | rs received brok  | (en?   |  | Yes   |   | No   |  | # of preserved   |  |  |
|   |  |   |  |  | Yes   | ✓   | No   |  | for pH:  | unless noted)  |  |
| matrices of                                 | correctly iden   | tified on Chain c   | of Custody?  |  | Yes   | $\checkmark$  | No   |  | Adjusted?  |  |  |
| clear what                                  | t analyses we  | ere requested?  |  |  | Yes   | $\checkmark$  | No   |  | 1 .17  | 1 - 1  |  |
|   | 10 C   |   |  |  | Yes   |   | No   |  | Checked by:  | 2/28/20  |  |
| al Handl                                    | ing (if app  | licable)  |  |  |   |   |  |  |  |  |  |
|   |  | and the second  | n this order   | 2  | Yes   |   | No   |  | NA 🗹   |  |  |
| Person                                      | Notified:  |   | Namaki wa Carron a ana   | Date   | -   |   |  |  |  |  |  |
| By Who                                      | m:   | [   |  | Via:   | 🗌 eM  | ail 🗌   | Phone  | Fax  | In Person  |  |  |
|   |  |   |  |  |   |   |  |  | analan analan analan an  |  |  |
| ditional rei                                | marks:   |   |  |  |   |   |  |  |  |  |  |
|   |  |   |  |  |   |   |  |  |  |  |  |
| Cooler No                                   | h  | Condition   | Seal Intact  | Seal No  | Seal D  | ate   | Signed   | By   |  |  |  |
|   | 4.4  | Good  | The state of the s | 1.4.2.2.2.1.2.2.2.1  |   | 1001  |  | -  |  |  |  |
|   | cient sam<br>samples (<br>preserva<br>eived at le<br>e any sam<br>s paperwo<br>e discrepa<br>matrices o<br>clear what<br>e all holdin<br>o, notify cu<br><b>I Handi</b><br>s client no<br>Person<br>By Who<br>Regardi<br>Client Ir<br>ditional rep | cient sample volume for<br>samples (except VOA is<br>preservative added to<br>ever at least 1 vial with<br>e any sample contained<br>s paperwork match both<br>e discrepancies on char<br>matrices correctly idem<br>clear what analyses we<br>e all holding times able<br>b, notify customer for a<br><b>I Handling (if app</b><br>s client notified of all di<br>Person Notified:<br>By Whom:<br>Regarding:<br>Client Instructions:<br>ditional remarks:<br><u>coler Information</u><br>Cooler No Temp °C | samples (except VOA and ONG) proper<br>preservative added to bottles?<br>eived at least 1 vial with headspace <1.<br>e any sample containers received brokes<br>a paperwork match bottle labels?<br>e discrepancies on chain of custody)<br>matrices correctly identified on Chain of<br>clear what analyses were requested?<br>e all holding times able to be met?<br>o, notify customer for authorization.)<br><b>I Handling (if applicable)</b><br>a client notified of all discrepancies with<br>Person Notified:<br>By Whom:<br>Regarding:<br>Client Instructions:<br>ditional remarks:<br><u>Dier Information</u><br><u>Cooler No Temp °C Condition</u>  | cient sample volume for indicated test(s)?<br>samples (except VOA and ONG) properly preserve<br>preservative added to bottles?<br>eved at least 1 vial with headspace <1/4" for AQ V<br>e any sample containers received broken?<br>a paperwork match bottle labels?<br>e discrepancies on chain of custody)<br>matrices correctly identified on Chain of Custody?<br>clear what analyses were requested?<br>e all holding times able to be met?<br>o, notify customer for authorization.)<br><b>I Handling (if applicable)</b><br>e client notified of all discrepancies with this order?<br>Person Notified:<br>By Whom:<br>Regarding:<br>Client Instructions:<br>ditional remarks:<br>Dier Information<br>Cooler No Temp °C Condition Seal Intact | cient sample volume for indicated test(s)?<br>samples (except VOA and ONG) properly preserved?<br>preservative added to bottles?<br>eived at least 1 vial with headspace <1/4" for AQ VOA?<br>e any sample containers received broken?<br>a paperwork match bottle labels?<br>a discrepancies on chain of custody)<br>matrices correctly identified on Chain of Custody?<br>clear what analyses were requested?<br>a all holding times able to be met?<br>b, notify customer for authorization.)<br><b>I Handling (if applicable)</b><br>a client notified of all discrepancies with this order?<br>Person Notified:<br>By Whom:<br>Client Instructions:<br>ditional remarks:<br>Der Information<br>Cooler No Temp °C Condition Seal Intact Seal No | cient sample volume for indicated test(s)?       Yes         samples (except VOA and ONG) properly preserved?       Yes         preservative added to bottles?       Yes         pived at least 1 vial with headspace <1/4" for AQ VOA? | cient sample volume for indicated test(s)? Yes   samples (except VOA and ONG) properly preserved? Yes   preservative added to bottles? Yes   preservative added to bottles? Yes   eived at least 1 vial with headspace <1/4" for AQ VOA? | cient sample volume for indicated test(s)?       Yes       ✓       No         samples (except VOA and ONG) properly preserved?       Yes       ✓       No         preservative added to bottles?       Yes       ✓       No         eived at least 1 vial with headspace <1/4" for AQ VOA? | cient sample volume for indicated test(s)? Yes No   samples (except VOA and ONG) properly preserved? Yes No   preservative added to bottles? Yes No   preservative added to bottles? Yes No   eived at least 1 vial with headspace <1/4" for AQ VOA? | cient sample volume for indicated test(s)? Yes No Samples (except VOA and ONG) properly preserved? Yes No NA preservative added to bottles? Yes No NA Preserved to the the state of the sta |  |

Page 1 of 1

| Received by OCD: 5/18/2020 3:  | 07:07 PM   | Page 123 of 127<br>Vet 9 k  |
|--|--|---|
| <ul> <li>HALL ENVIRONMENT</li> <li>HALL ENVIRONMENT</li> <li>ANALYSIS LABORATC</li> <li>MANUNICONMENTALICOM</li> <li>ANALYSIS LABORATC</li> <li>ANALYSIS LABORATC</li> <li>ANALYSIS Request</li> </ul> | BTEX3, MTBE / TMB's (8021)         TPJ: \$015D(GRO / DRO / MRO)         8081 Pesticides/8082 PCB's         PPHs by 8310 or 8270SIMS         RCRA 8 Metals         RCRA 8 Metals         8260 (VOA)         8270 (Semi-VOA)         8270 (Semi-VOA)   | Remarks: B. 11 Devon- W. Ott 208 2967<br>CC. Natalic Gordon<br>possibility. Any sub-contracted data will be clearly notated on the analytical rep   |
| Turn-Around Time: 5-day<br>Kandard a Rush<br>Project Name: Arewa Reja Fed<br>UNit 2 CTB<br>Project #: 206-00141  | Project Manager: Natalic Gorclon<br>Sampler: Brawlon Schafer<br>On Ice: Dryes No<br># of Coolers: U.V D. 7. U.V. (°C)<br>Cooler Temp(including CF): U.V D. 7. U.V. (°C)<br>Container Preservative S. 1-0. 2. 5. 5. 1-0. 2. 5. 1-0. 2. 5. 1-0. 2. 5. 1-0. 2. 5. 1-0. 2. 5. 1-0. 2. 5. 1-0. 5. 5. 1-0. 5. 5. 1-0. 5. 5. 1-0. 5. 5. 1-0. 5. 5. 1-0. 5. 5. 5. 1-0. 5. 5. 5. 5. 1-0. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. | Time:     Relinquished by:     Received by:     Via:     Date     Time     Remarks:     8,11     Devon-     W.O.±     3.08     3.96     7.2       State     Rinquished by:     Received by:     Via:     201/20     620     0.0±     3.08     3.96     7.2       Ime:     Relinquished by:     Received by:     Via:     Date     Time     C. Nathlic Gordon     0.0±     3.08     3.96     7.2       Ime:     Relinquished by:     C. Nathlic Gordon     C. Nathlic Gordon     0.0±     3.08     3.96     7.2       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     3.05     3.96     7.2       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     3.05     3.96     7.2       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     3.05     3.96     7.2       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     3.05     3.96     7.2       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     0.05     3.06     3.05       Ime:     Relinquished by:     M     C. Nathlic Gordon     0.0±     0.0±     0.05       Ime:     Relinquiston |
| Client: Devon<br>Client: Devon<br>Anavda Davis 3 Wes Mathews<br>Mailing Address: on f. le  | email or Fax#: $\mathcal{O}_{\Lambda}$ f. Le<br>QA/QC Package:<br>CA/QC Package:<br>Standard Cevel 4 (Full Validation)<br>Accreditation: $\Box$ Az Compliance<br>Accreditation: $\Box$ Az Compliance<br>DEDD (Type)<br>Date Time Matrix Sample Name  | Date: Time: Relinquished by:<br>Alk 120 6800 Browd Pr. Dulut<br>Date: Time: Relinquished by:<br>A 27 120 1900 Alt<br>If necessary, samples submitted to Hall Environmental may be subc  |

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Oil Conservation Division

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|-------------|-----------------|
| Incident ID | nJXK1532330117  |
| District RP | 1RP-3984        |
|             |                 |

Facility ID Application ID

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release?   | _250(ft bgs) |
|---|--------------|
| Did this release impact groundwater or surface water?   | 🗌 Yes 🗴 No   |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within 300 feet of a wetland?  | Yes X No     |
| Are the lateral extents of the release overlying a subsurface mine?   | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | 🗌 Yes 🗶 No   |
| Are the lateral extents of the release within a 100-year floodplain?  | 🗌 Yes 🗶 No   |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | 🗌 Yes 🗶 No   |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- **x** Field data
- X Data table of soil contaminant concentration data
- **X** Depth to water determination
- $\mathbf{x}$  Determination of water sources and significant watercourses within  $\frac{1}{2}$ -mile of the lateral extents of the release
- NA Boring or excavation logs
- X Photographs including date and GIS information
- х Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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| Received by OCD: 5/18/2020 3:07:07 PM<br>Form C-141 State of New Mexico                    |                           |  | Page 125 of  |   |
|--|---------------------------|--|--|---|
| Form C-141   |                           |  | Incident ID  | nJXK1532330117  |
| Page 4   | Oil Conservation Division | 1  | District RP  | 1RP-3984  |
|  |                           |  | Facility ID  |   |
|  |                           |  | Application ID   |   |
| regulations all operators ar<br>public health or the enviro<br>failed to adequately invest | Davis                     | otifications and perform co<br>e OCD does not relieve the<br>rreat to groundwater, surfa | orrective actions for rele<br>e operator of liability sho<br>ice water, human health<br>liance with any other feo<br>ntal Representative | ases which may endanger<br>ould their operations have<br>or the environment. In |
| OCD Only<br>Received by: Jocely  | n Harimon                 | Date:07/0  | 1/2022   |   |

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Oil Conservation Division

| Incident ID    | nJXK1532330117 |
|----------------|----------------|
| District RP    | 1RP-3984       |
| Facility ID    |                |
| Application ID |                |

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# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| Printed Name: Amanda Davis  | Title: Environmental Representive    |  |  |  |
|---|--------------------------------------|--|--|--|
| Signature: <b>Amanda Davis</b>  | Date:                                |  |  |  |
| email: _amanda.davis@dvn.com  | Telephone: <u>575-748-0176</u>       |  |  |  |
|   |                                      |  |  |  |
| OCD Only  |                                      |  |  |  |
| Received by:  | Date:                                |  |  |  |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.<br>07/01/2022 |                                      |  |  |  |
| Jocelyn Harimon   |                                      |  |  |  |
| Closure Approved by:  | Date: Date: Environmental Specialist |  |  |  |
| Jocelyn Harimon   |                                      |  |  |  |
| Printed Name:   | Title:                               |  |  |  |

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

| Operator: 0                         | OGRID:                                    |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137                                      |
| 333 West Sheridan Ave.              | Action Number:                            |
| Oklahoma City, OK 73102             | 8338                                      |
| 1                                   | Action Type:                              |
|                                     | [C-141] Release Corrective Action (C-141) |

CONDITIONS Created By Condition Condition Date Depth to Ground Water was not adequately justified however the data does not prevent the OCD from granting closure to this incident. Please note that, when 7/1/2022 jharimon the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

CONDITIONS

Action 8338