

Incident ID	NHMP1420427160
District RP	2RP-2386
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?	<u>430</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ 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.

State of New Mexico
Oil Conservation Division

Page 4

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Printed Name: Dale Woodall Title: EHS ProfessionalSignature: Dale Woodall date: 3/15/2023email: dale.woodall@dyn.com Telephone: 575-748-0186**OCD Only**Received by: Jocelyn Harimon Date: 03/15/2023

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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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ 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)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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Printed Name: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 3/15/2023

email: dale.woodall@dvn.com Telephone: 575-748-0186

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Closure Approved by: Ashley Maxwell Date: 3/16/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



July 9, 2020

Vertex Project #: 20E-00141-037

Spill Closure Report: Todd 26G Federal 1
Unit G, Section 26, Township 23 South, Range 31 East
County: Eddy
API: 30-015-20242
Tracking Number: NHMP1420427160

Prepared For: Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 – Artesia

811 South First Street
Artesia, New Mexico 88210

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred at Todd 26G Federal 1, API 30-015-20242 (hereafter referred to as “Todd 26”). Devon provided immediate notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 2 and the Bureau of Land Management (BLM), who own the property, on July 18, 2014. The initial C-141 Release Notification was submitted on July 22, 2014 (Attachment 1). The tracking number assigned to this incident is NHMP1420427160.

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 July 18, 2014, a release occurred at Todd 26 when the well went online before the transfer pump and water tank were checked. This incident resulted in the overflow of the water tank and the release of approximately 15 barrels (bbls) of produced water into the unlined, earthen-bermed containment. Following the release, a hydrovac truck was dispatched to site to recover free liquids. Approximately 5 bbls of produced water were recovered from the containment and removed for disposal off-site. All fluids were contained on-pad and no produced water was released into undisturbed areas or waterways.

Site Characterization

The release at Todd 26 occurred on federally-owned land, N 32.277193, W 103.746485, approximately 20 miles east of Loving, New Mexico. The legal description for the site is Unit G, Section 26, Township 23 South, Range 31 East, Eddy 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

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

Attachment 2.

Todd 26 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 area in which the Todd 26 wellpad is located.

The surrounding landscape is associated with plains and alluvial fans typical of elevations of 3,000 to 4,200 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 10 and 14 inches. Litter and, to a lesser extent, bare ground are a significant proportion of ground cover, while grasses compose the remainder. The dominant grass species are black grama, dropseeds and bluestems, with perennial and annual forb abundance relative to precipitation (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 Todd 26 is comprised of Qep – Eolian and piedmont deposits, that include eolian sands interlaid with piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The Natural Resources Conservation Service Web Soil Survey indicates the soil at the release site is Kermit-Berino fine sands, characterized by deep, fine sands. This type of soil tends to be excessively-drained with negligible runoff and low available moisture levels 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 Todd 26 (United States Department of the Interior, United States Geological Survey, 2020a).

There is no surface water located at on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 4 miles west-southwest of the release site (United States Fish and Wildlife Service, 2020). The closest continuously flowing watercourse is the Pecos River, located approximately 16 miles west of the site (United States Department of the Interior, United States Geological Survey, 2020b). A freshwater stock pond is located approximately 1.1 miles east of the release site (United States Fish and Wildlife Service, 2020). At Todd 26, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features nearby as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active groundwater well to Todd 26 is a New Mexico Office of the State Engineer (NM OSE)-identified well from 2013, located approximately 0.5 miles south-southwest of the site, with a depth to groundwater of 430 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). 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 release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at Todd 26 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 are determined to be associated with constituent concentration limits based on depth to groundwater.

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

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

As a significant amount of time has passed since the release at Todd 26, it was believed that the site would not require remediation. On March 24, 2020, Vertex provided 48-hour notification of confirmation sampling to NM OCD and the BLM (Attachment 4) as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. On March 27, 2020, Vertex was on-site to conduct an initial spill inspection and site characterization, and collect confirmatory samples, if possible. Initial field screening activities indicated that all constituents of concern within the area of potential impact from this release were below closure criteria as outlined in Table 1 and confirmatory sampling could commence. The Daily Field Report (DFR) associated with the site activities is included in Attachment 5.

A total of eight five-point composite confirmatory samples were collected from the surface within the bermed containment where the release occurred. Each composite sample was representative of no more than 200 square feet, per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. 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 Environmental Protection Agency (EPA) Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sampling analytical data are summarized in Table 2 (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 1 (Attachment 2). Relevant equipment and prominent features/reference points were mapped as well.

Of the eight confirmatory samples, one sample (BS20-03) failed to meet NM OCD closure criteria. Excavation was completed in the area of BS20-03 on May 18, 2020, and the confirmatory sample was re-collected. Two wall samples were also collected at that time from the edge of the berm to bring the total number of confirmatory samples to 10. The final laboratory results for this site are presented in Table 2 (Attachment 6).

Devon Energy Production Company
Todd 26G Federal 1

2020 Spill Assessment and Closure
July 2020

Closure Request

Vertex recommends no additional remediation action to address the release at Todd 26. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs, as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

The small area of excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Vertex requests that this incident (NHMP1420427160) 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 July 18, 2014, release at Todd 26.

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

Sincerely,



Natalie Gordon
PROJECT MANAGER

Attachments

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

Devon Energy Production Company
Todd 26G Federal 1

2020 Spill Assessment and Closure
July 2020

References

- 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, New Mexico Water Rights Reporting System. (2020). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.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, United States Geological Survey. (2020a). *Caves and Karst in the U.S. National Park Service*. Retrieved from <https://www.arcgis.com/home/webmap/viewer.html?webmap=14675403c37948129acb758138f2dd1e>
- United States Department of the Interior, United States Geological Survey. (2020b). *Groundwater for New Mexico: Water Levels*. Retrieved from <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>.
- United States Fish and Wildlife Service. (2020). *National Wetlands Inventory*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

Devon Energy Production Company
Todd 26G Federal 1

2020 Spill Assessment and Closure
July 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.

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 Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nHMP1420427160 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Devon Energy <i>6137</i>	Contact
Address PO Box 250 Artesia, NM 88211	Telephone No. 575-748-3371
Facility Name Todd 26G-1	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-20242
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	23S	31E	1980	FNL	1980	FEL	Eddy

Latitude: *32.277143* Longitude: *103.746485*
NATURE OF RELEASE

Type of Release Produced water	Volume of Release 15 BBL	Volume Recovered 5 BBL
Source of Release Water Tank overflowed	Date and Hour of Occurrence 7.18.14 - 9:30 AM	Date and Hour of Discovery 7.18.14 - 10:30
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Dandy Dade -OCD Jeff Robertson - BLM	
By Whom? Kevin Phillips Asst. Foreman	Date and Hour 7.18.14 1:45	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* July 17, 2014 at the Todd 26G-1 Water tank overflowed into containment.		
Describe Area Affected and Cleanup Action Taken.* July 17, 2014 at the Todd 26G-1 The lease operator put this well online and never checked the transfer pump or water tank to make sure it was working properly. Total fluid 15 BBL of produced water and 5 BBL recovered.		

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 22 2014

RECEIVED

Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Jeanette Barron</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeanette Barron	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: <i>7/23/14</i>	Expiration Date: <i>NA</i>
E-mail Address: Jeanette.barron@dmv.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7.18.14 Phone: 575-748-1813	remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

8/23/14

2RP-2386

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Printed Name: Dale Woodall Title: EHS Professional

Signature: Dale Woodall date: 3/15/2023

email: dale.woodall@dvn.com Telephone: 575-748-0186

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Printed Name: Dale Woodall Title: EHS Professional

Signature: Dale Woodall Date: 3/15/2023

email: dale.woodall@dm.com Telephone: 575-748-0186

OCD Only

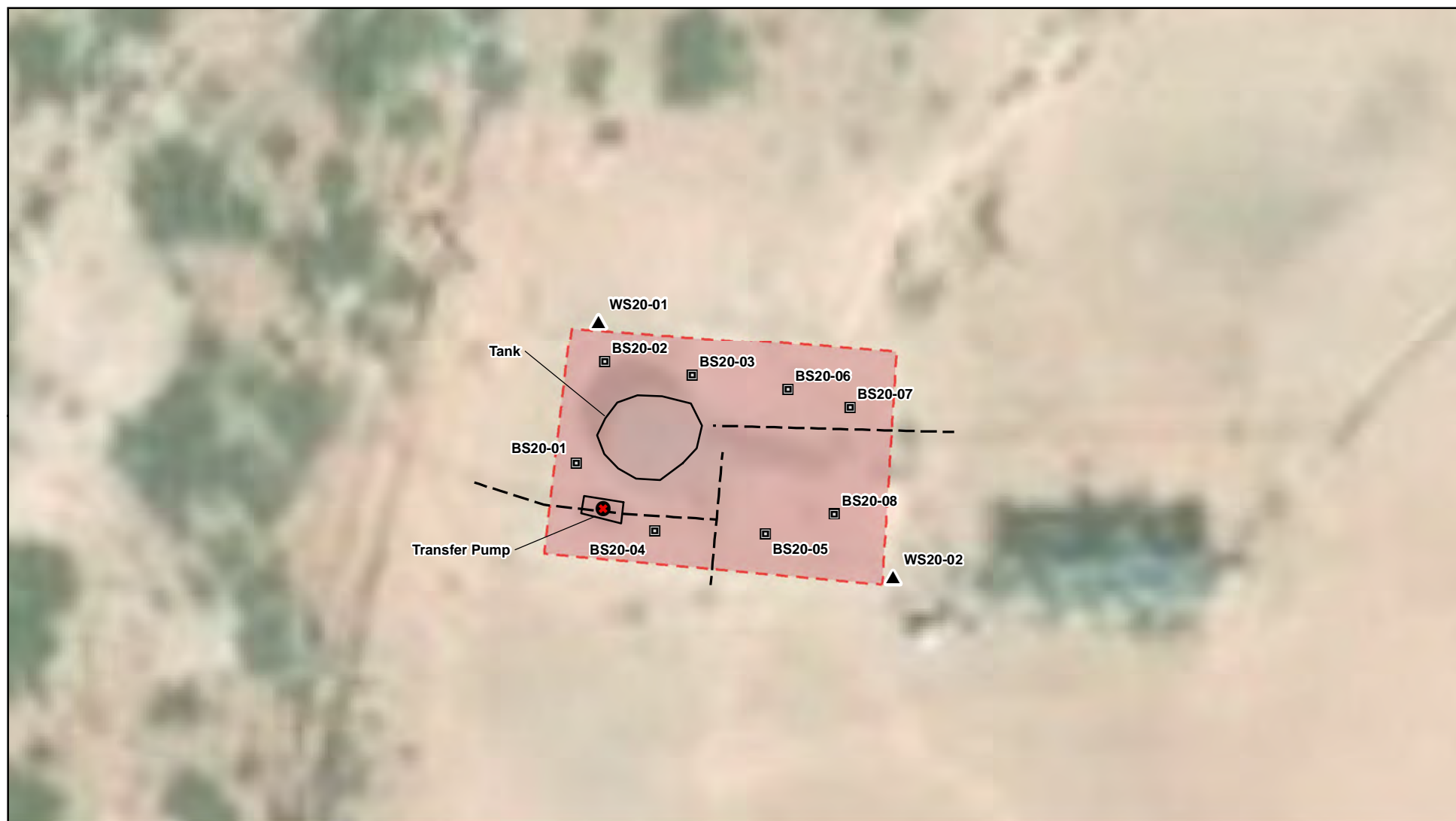
Received by: _____ Date: _____

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT 2



- Point of Release
- Base Sample
- Wall Sample
- Pipeline (Aboveground)
- Infrastructure (Existing)
- Spill inside Berm (~1,592.79 sq. ft.)



0 5 10 20 Feet
 Map Center:
 Lat/Long: 32.277309, -103.746709

NAD 1983 UTM Zone 13N
 Date: May 25/20



Site Schematic and Confirmatory Sampling Locations Todd 26G Fed 1

FIGURE:

1

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

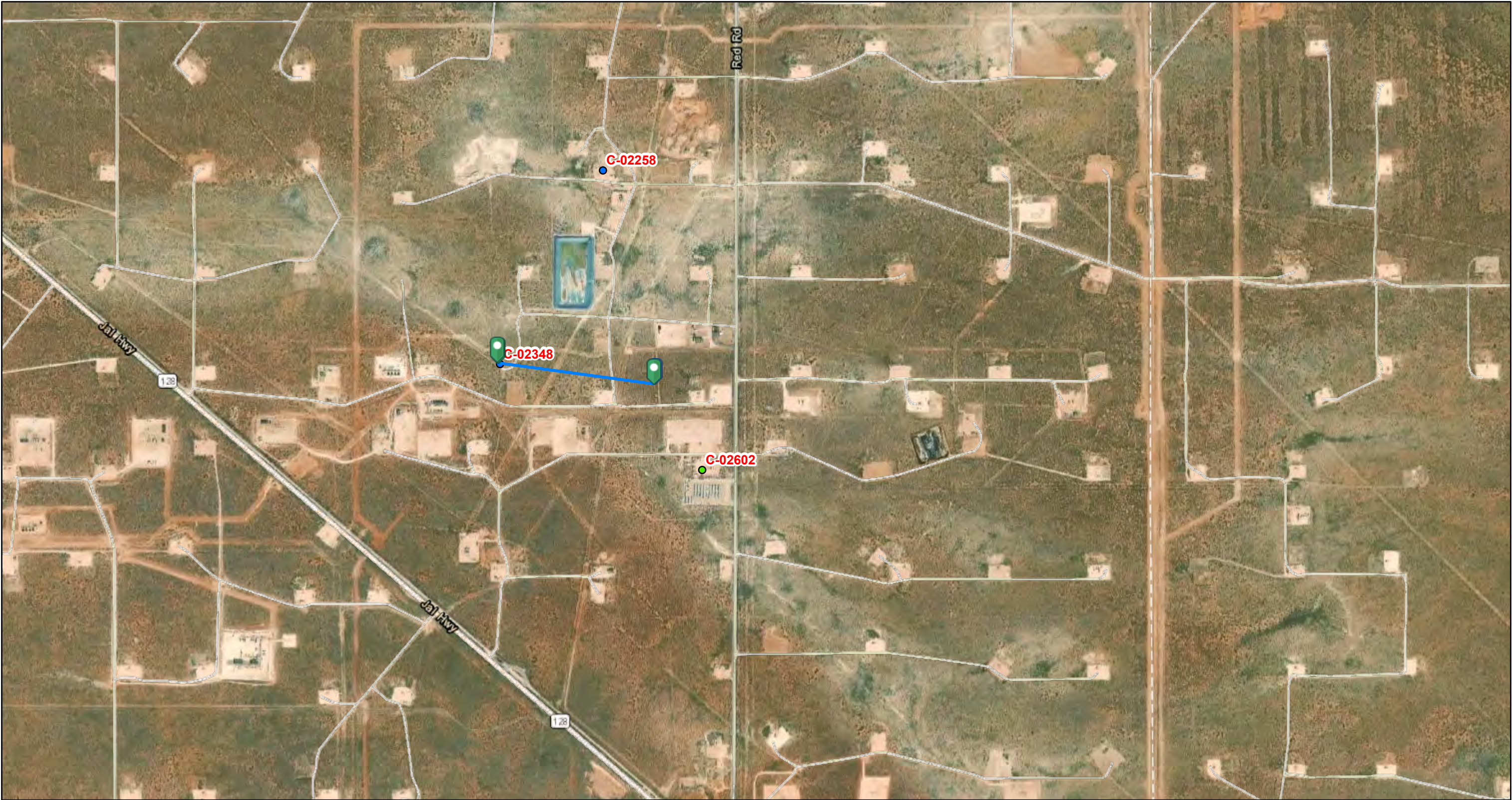
Note: Imagery from ESRI, 2018.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Closure Criteria Determination			
Site Name: Todd 26 G Fed 1			
Spill Coordinates:		X: 32.27720	Y: -103.74650
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	430	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	21,029	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	5,494	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	26,655	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	2,601	feet
	ii) Within 1000 feet of any fresh water well or spring		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	17,352	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)		Critical High Medium Low
10	Within a 100-year Floodplain	No	year
NMAC 19.15.29.12 E (Table 1) Closure Criteria		>100'	<50' 51-100' >100'

Todd 26 G Fed 1 - Nearest OSE Well



6/30/2020, 1:06:20 PM

OSE District Boundary

GIS WATERS PODs

●

Active

●

Pending

Conveyances

Acequia

Acequia Tunnel

Canal

Channel

Closed Drain

Community Ditch

Connector

Culvert

Ditch

Diversion Weir

Drain

Feeder

Interior Drain

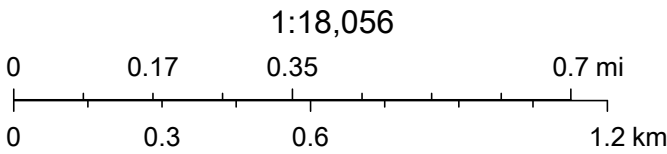
Lateral

Pipe

Wasteway

Other

Unknown



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02258	C	ED		3	2	26	23S	31E		618055	3571853*	8	662		
C 02348	C	ED		1	4	3	26	23S	31E	617648	3571068	878	700	430	270
C 02405	CUB	ED		4	1	02	24S	31E		617690	3568631*	3239	275	160	115
C 02464	C	ED		3	4	1	02	24S	31E	617589	3568530*	3352	320	205	115
C 02460	C	ED			3	02	24S	31E		617496	3568022*	3868	320		
C 02460 POD2	C	ED			3	02	24S	31E		617496	3568022*	3868	320		
C 02777	CUB	ED		4	4	4	10	23S	31E	616974	3575662	3959	890		
C 03749 POD1	CUB	ED		2	2	15	23S	31E		616974	3575662	3959	865	639	226
C 03529 POD1	C	LE		2	4	3	29	23S	32E	622651	3571212	4649	550		
C 03851 POD1	CUB	LE		3	3	4	20	23S	32E	622880	3572660	4900	1392	713	679

Average Depth to Water: **429 feet**

Minimum Depth: **160 feet**

Maximum Depth: **713 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 618046.25

Northing (Y): 3571851

Radius: 5000

*UTM location was derived from PLSS - see Help

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.

3/3/20 12:33 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance
C 02258	C	PRO		0 DEVON ENERGY CORP.(NEVADA)	ED	C 02258					3	2	26	23S	31E		618055	3571853*	8
C 02348	C	STK		3 NGL WATER SOLUTIONS PERMIAN	ED	C 02348				Shallow	1	4	3	26	23S	31E	617647	3571068	879
C 02602	C	SAN		0 POGO PRODUCING COMPANY	ED	C 02602					2	2	35	23S	31E		618471	3570650*	1274
C 00225 A	CUB	IRR	8.4	GREGORY ROCKHOUSE RANCH	ED	C 02405				Shallow	4	1	02	24S	31E		617690	3568631*	3240
C 01246 AO	CUB	IRR	47.82	CATHLEEN MC INTIRE	ED	C 02405				Shallow	4	1	02	24S	31E		617690	3568631*	3240
C 02405	C	PRO		0 TEXACO EXPLORATION & PROD. IND	ED	C 02405				Shallow	4	1	02	24S	31E		617690	3568631*	3240
C 02452	C	PRO		0 TEXACO EXPLORATION & PROD INC.	ED	C 02405				Shallow	4	1	02	24S	31E		617690	3568631*	3240
					ED	C 02452					4	1	02	24S	31E		617690	3568631*	3240
C 02576	C	PRO		0 SONAT EXPLORATION COMPANY	ED	C 02405				Shallow	4	1	02	24S	31E		617690	3568631*	3240
C 02464	C	PRO		0 COMMISSIONER OF PUBLIC LANDS	ED	C 02464				Shallow	3	4	1	02	24S	31E	617589	3568530*	3352
C 02901	C	PUB		0 B & H MAINTENANCE & CONST.	ED	C 02901					3	4	1	02	24S	31E	617589	3568530*	3352
C 02460	C	PRO		0 SONAT EXPLORATION	ED	C 02460				Shallow		3	02	24S	31E		617496	3568022*	3868
					ED	C 02460 POD2				Shallow		3	02	24S	31E		617496	3568022*	3868
C 02777	CUB	MON		0 US DEPT OF ENERGY WIPP	ED	C 02777					4	4	4	10	23S	31E	616973	3575662	3958
C 03749	CUB	MON		0 US DEPARTMENT OF ENERGY	ED	C 03749 POD1				Shallow	2	2	15	23S	31E		616973	3575662	3958
C 03529	C	STK		0 ANNETTE MCCLOY	LE	C 03529 POD1					2	4	3	29	23S	32E	622651	3571212	4649
C 03851	CUB	MON		0 US DEPARTMENT OF ENERGY	LE	C 03851 POD1			NON	Artesian	3	3	4	20	23S	32E	622879	3572660	4900

*UTM location was derived from PLSS - see Help

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Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 618046.25 **Northing (Y):** 3571851.53 **Radius:** 5000

Sorted by: Distance



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-Code	basin	County	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 02258	C	ED			3	2	26	23S	31E		618055	3571853*	8	09/18/1992	09/18/1992	09/25/1992	662		CORKY GLENN	421
C 02348	C	ED	Shallow		1	4	3	26	23S	31E	617648	3571068	879	10/31/2013	11/01/2013	11/07/2013	700	430	JOHN SIRMAN	1654
C 02405	CUB	ED	Shallow		4	1	02	24S	31E		617690	3568631*	3240	09/29/1994	09/30/1994	12/05/1994	275	160	COLLIS, ROBERT E.	1184
C 02464	C	ED	Shallow		3	4	1	02	24S	31E	617589	3568530*	3352	08/24/1995	08/24/1995	09/07/1995	320	205	GLENN, CLARK A."CORKY" (LD)	421
C 02460	C	ED	Shallow			3	02	24S	31E		617496	3568022*	3868	08/21/1995	08/21/1995	09/07/1995	320		GLENN, CLARK A."CORKY" (LD)	421
C 02460 POD2	C	ED	Shallow			3	02	24S	31E		617496	3568022*	3868	08/25/1995	08/25/1995	09/07/1995	320		GLENN, CLARK A."CORKY" (LD)	421
C 03749 POD1	CUB	ED	Shallow		2	2	15	23S	31E		616974	3575662	3958	07/10/2014	08/06/2014	09/11/2014	865	639	RANDY STEWART	331
C 03851 POD1	CUB	LE	Artesian		3	3	4	20	23S	32E	622880	3572660	4900	08/19/2015	10/02/2015	11/10/2015	1392	713	STEWART, RANDAL P.	1723

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 618046.25

Northing (Y): 3571851.53

Radius: 5000

*UTM location was derived from PLSS - see Help

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Page 1 of 1

WELLS WITH WELL LOG INFORMATION



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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Site Information ▼

Geographic Area:

United States ▼

GO

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- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

USGS 321609103445901 23S.31E.26.34411

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 365 feet

Land surface altitude: 3,451.00 feet above NGVD29.

Well completed in "Dewey Lake Redbeds" (312DYLK) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-04	2013-02-14	5
Field/Lab water-quality samples	1972-09-20	1972-09-20	1
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 [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions about sites/data?](#)
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Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321609103445901



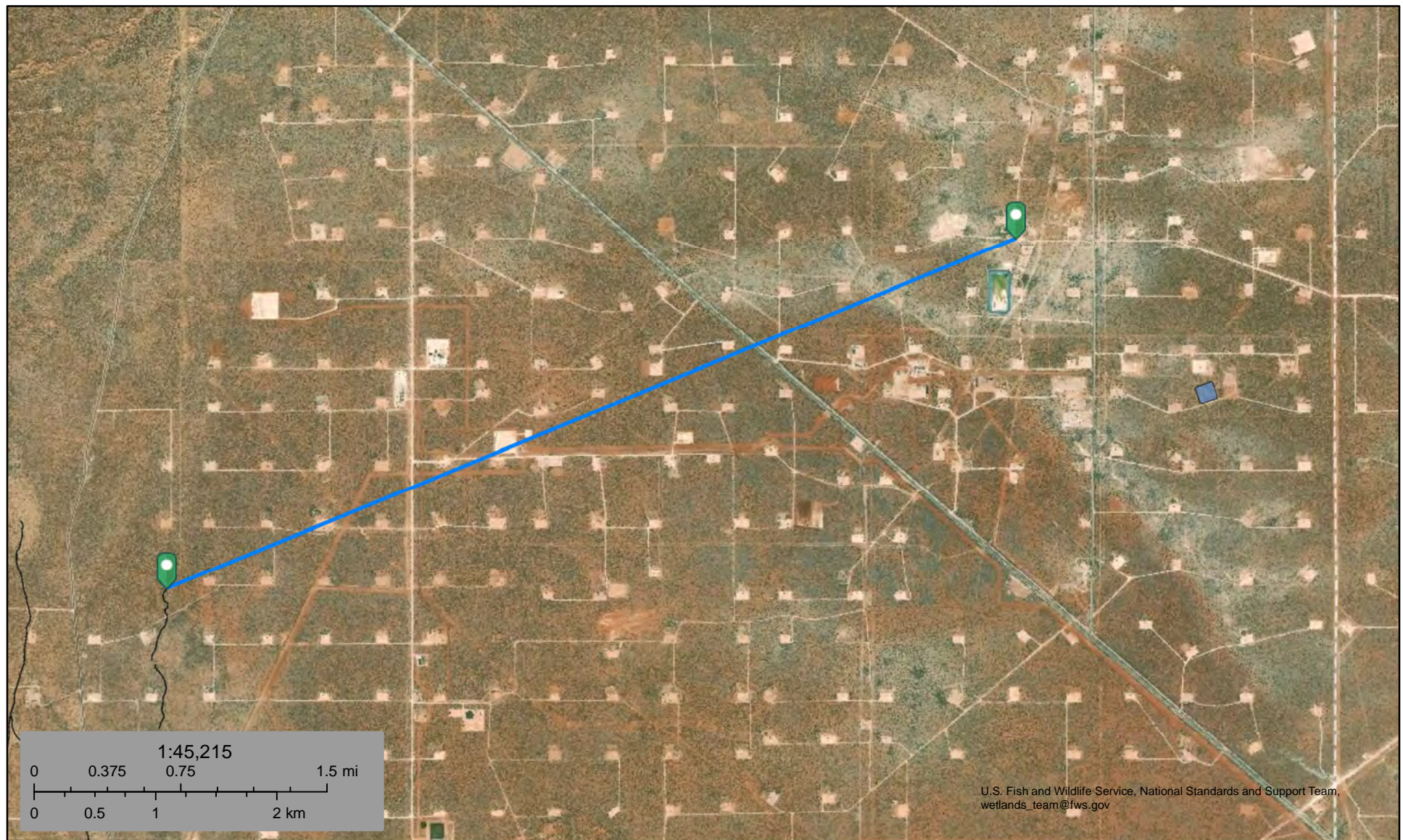
Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2020-03-04 08:53:58 EST

0.32 0.31 caww01



Todd 26 G Fed 1: Watercourse 21,029 ft



March 3, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland



- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

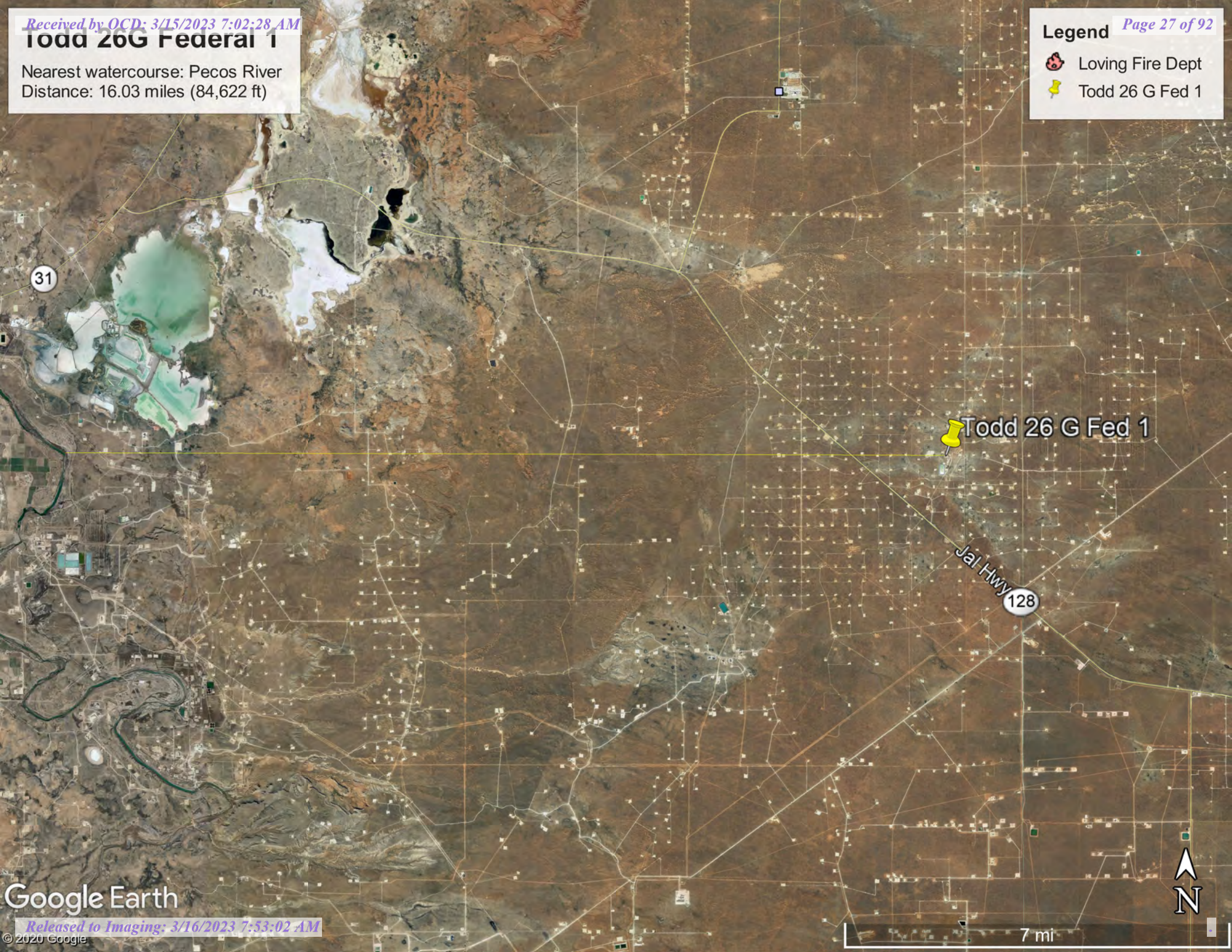
- Lake
- Other
- Riverine

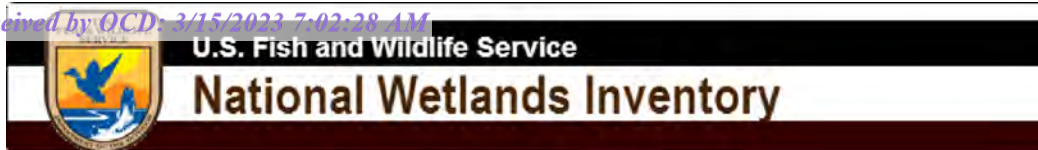
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Todd 26G Federal 1

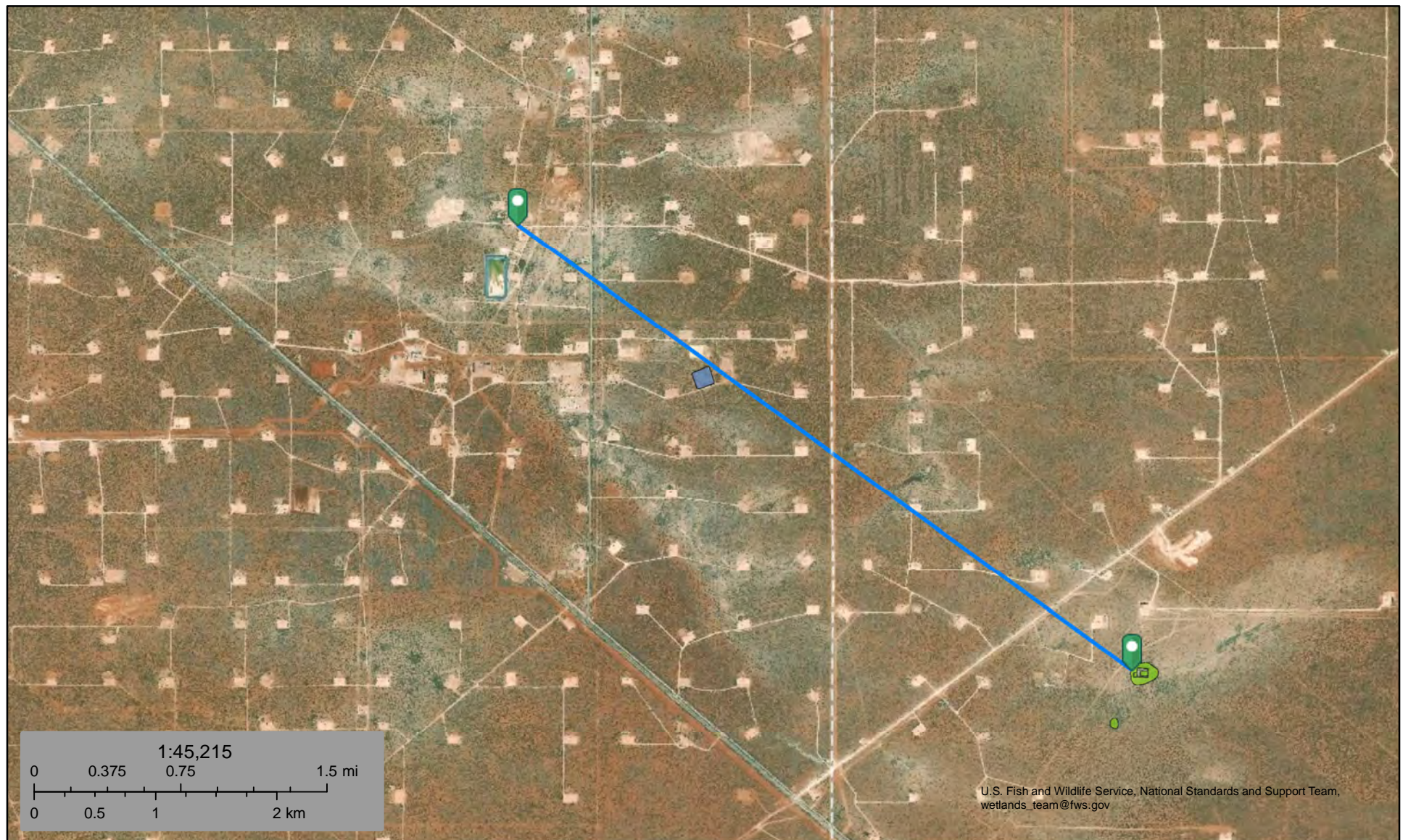
Nearest watercourse: Pecos River
Distance: 16.03 miles (84,622 ft)

-  Loving Fire Dept
-  Todd 26 G Fed 1





Todd 26 G Fed 1: Wetland 17,352 ft



March 3, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond



- Lake
- Other
- Riverine

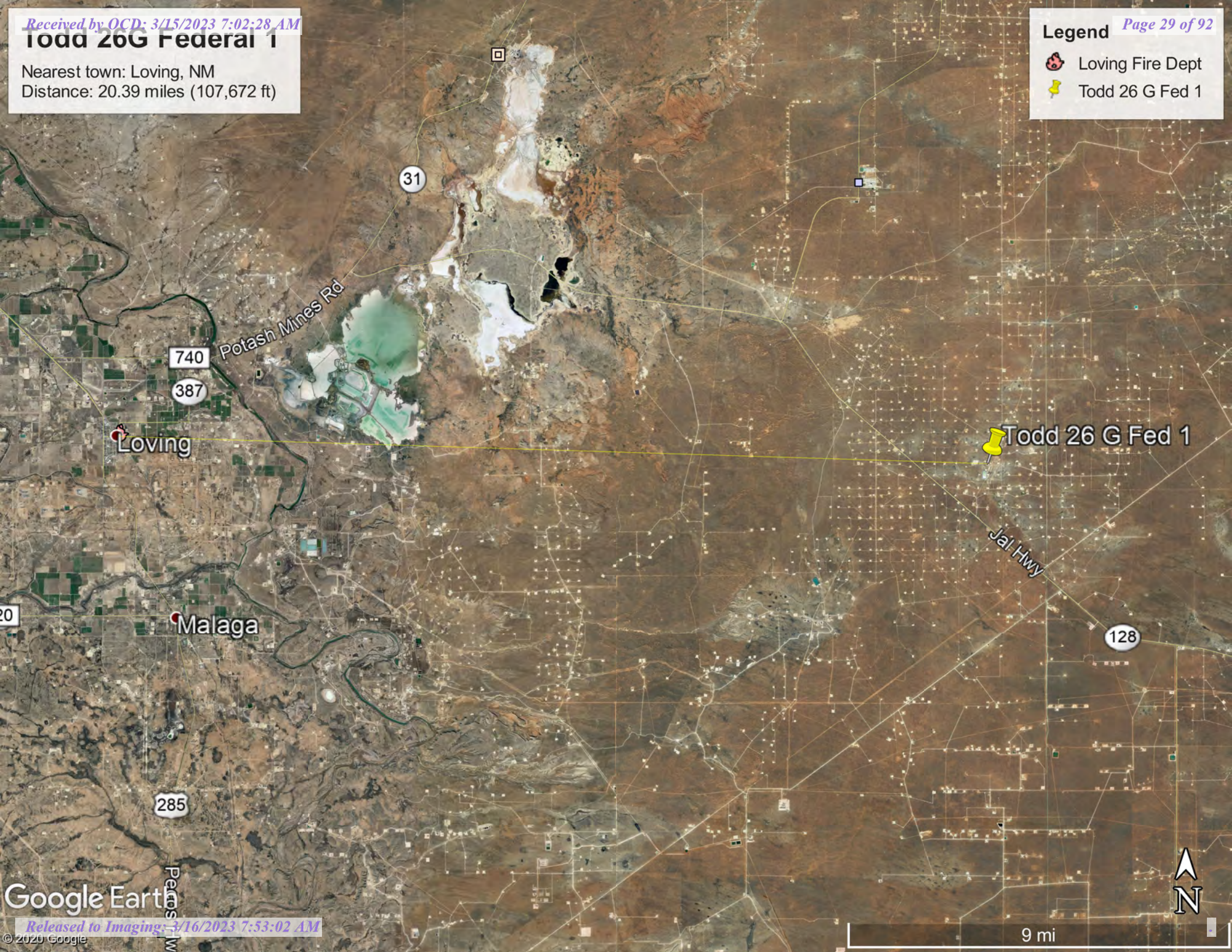
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Todd 26G Federal 1

Nearest town: Loving, NM

Distance: 20.39 miles (107,672 ft)

-  Loving Fire Dept
-  Todd 26 G Fed 1





Todd 26 G Fed 1: Pond 5,494 ft



March 3, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond


- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Todd 26 G Fed 1

Nearest Residence: 26,655 ft

Legend

 Feature 1

Residence

128

Todd 26 G Fed 1

Jal Hwy

Wipp Rd

Google Earth

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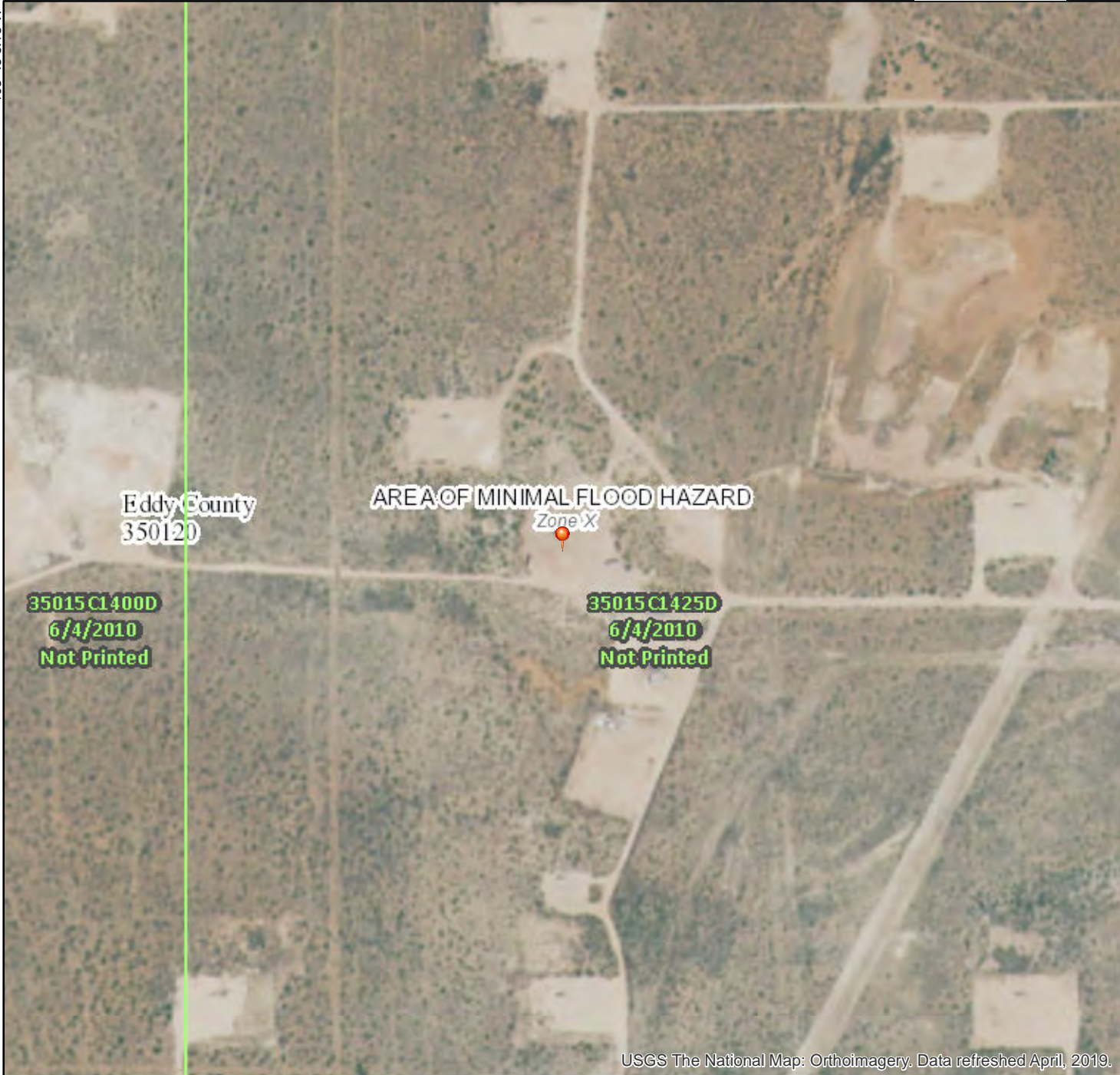
4 km



National Flood Hazard Layer FIRMette



32°16'53.13"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/3/2020 at 2:42:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Soil Map—Eddy Area, New Mexico
(Todd 26 G Fed 1)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/3/2020
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Todd 26 G Fed 1)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
SN	Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded---
Eddy Area, New Mexico

Todd 26 G Fed 1

Eddy Area, New Mexico

SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w5y
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 45 percent
Wink and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very high
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: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7e

Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded---
Eddy Area, New Mexico

Todd 26 G Fed 1

Hydrologic Soil Group: D
Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Description of Wink

Setting

Landform: Depressions, swales
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 to 60 inches: stratified gravelly variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
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: 30 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0
to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Sandy (R042XC004NM)
Hydric soil rating: No

Minor Components

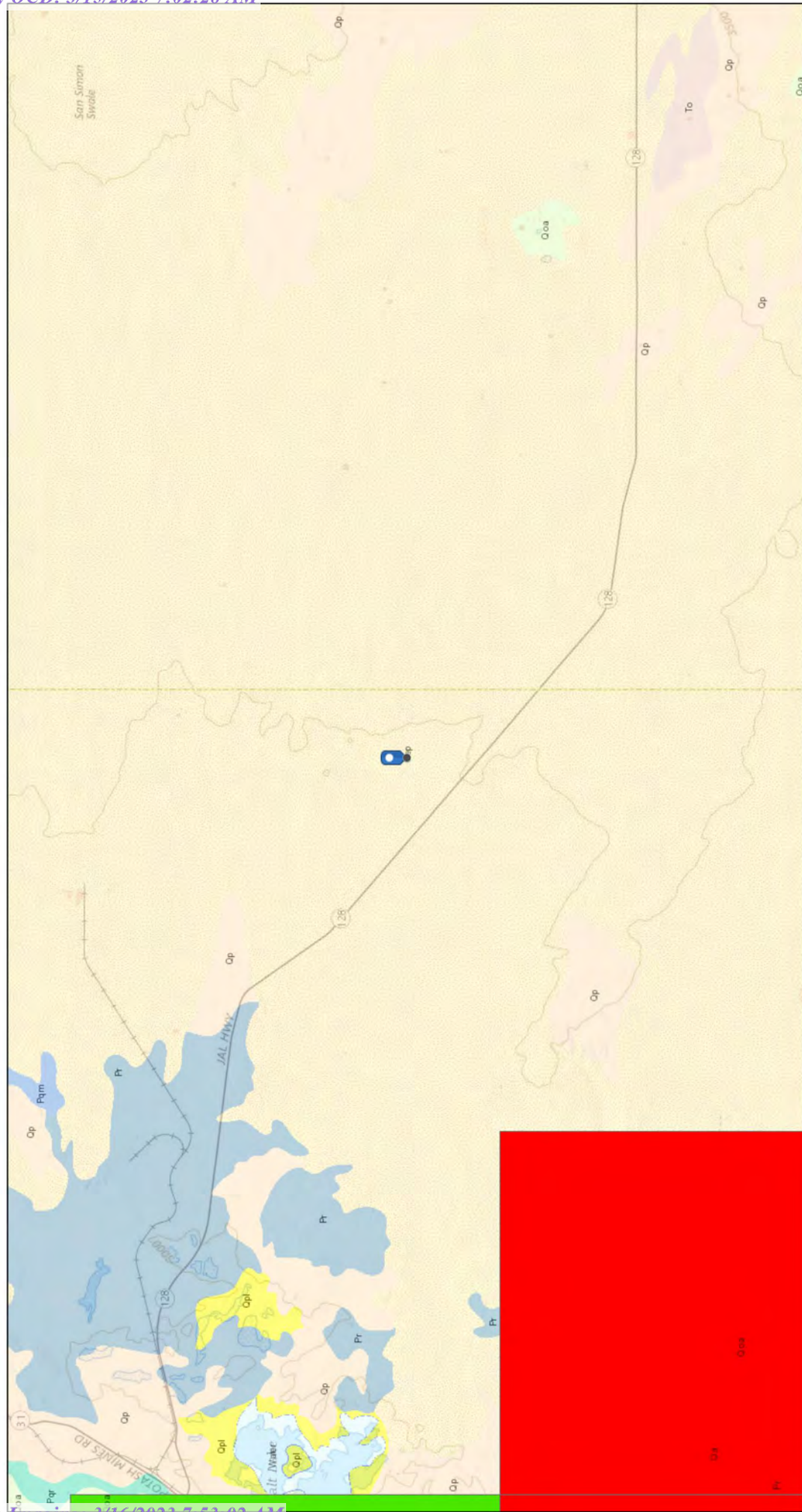
Dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019

Todd 26G Fed 1 Qep Geology



5/26/2020, 12:00:43 PM

STATEMAP (1993 to Present) [Publications]

Faults

— Fault, Exposed

--- Fault, Intermittent

..... Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

~~~~~ Fault, Concealed

Dikes

— Dike

--- Dike

..... Dike

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Shore Zone

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Volcanic Vents

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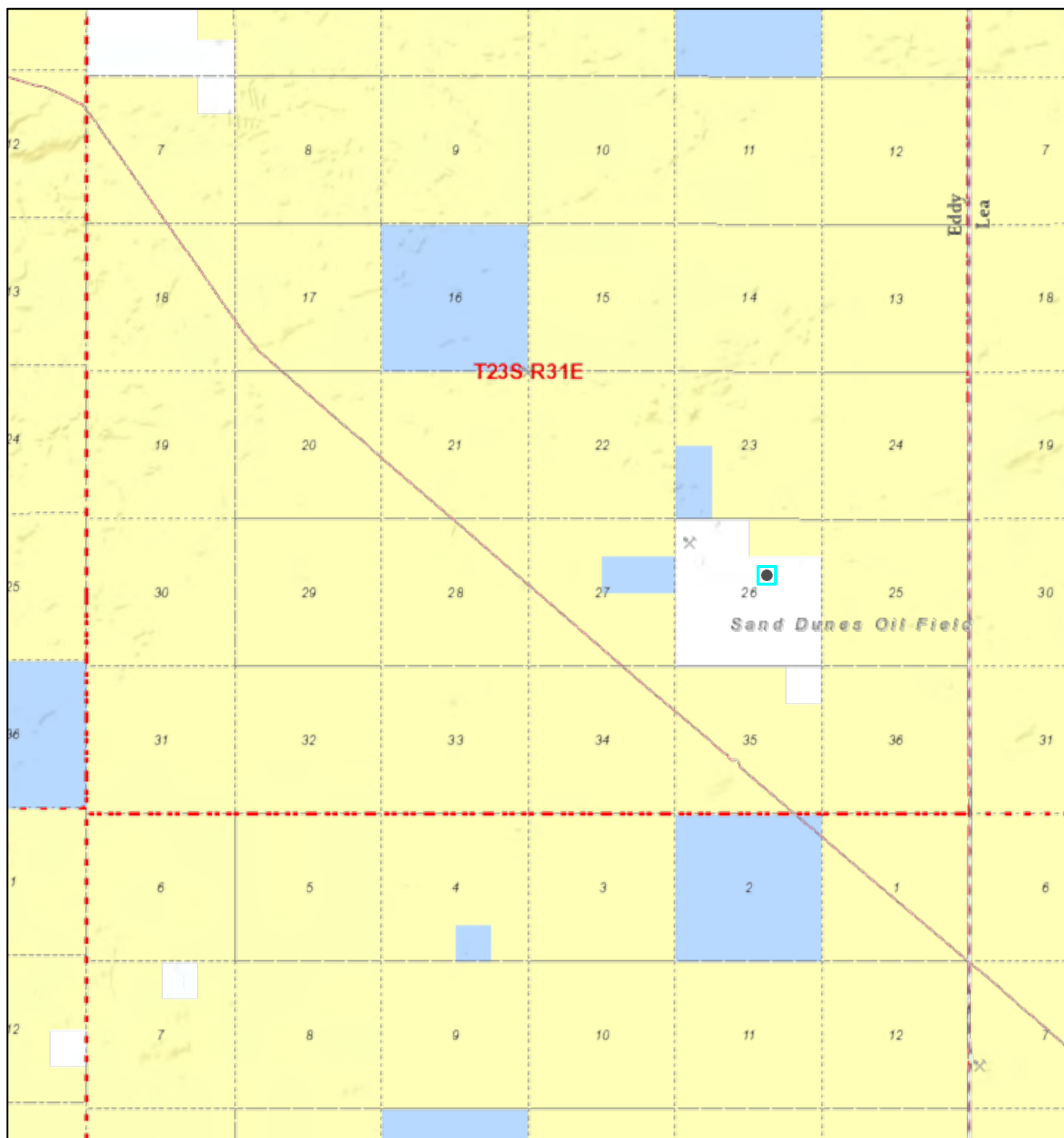
~~~~~ Volcanic Vents

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

Web AppBuilder for ArcGIS

USGS Global Ecosystems; U.S. Census Bureau TIGER/Line

Active Mines near Todd 26 G Feb 1

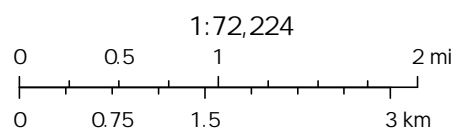


3/3/2020, 1:18:04 PM

Registered Mines

✕ Aggregate, Stone etc.

✕ Aggregate, Stone etc.



U.S. Bureau of Land Management - New Mexico State Office, Sources:
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

ATTACHMENT 4

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Tuesday, March 24, 2020 4:04 PM
To: Natalie Gordon
Subject: Fwd: NAB1808526921/nHMP1420427160: Todd 26G Fed 1 - 48-hr Notification of Confirmation Sampling

----- Forwarded message -----

From: **Dhugal Hanton** <vertexresourcegroupusa@gmail.com>
Date: Tue, Mar 24, 2020 at 4:03 PM
Subject: NAB1808526921/nHMP1420427160: Todd 26G Fed 1 - 48-hr Notification of Confirmation Sampling
To: Bratcher, Mike, EMNRD <Mike.Bratcher@state.nm.us>, Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>, Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>, Kelsey <KWade@blm.gov>, <Jamos@blm.gov>
Cc: <tom.bynum@dvn.com>, <amanda.davis@dvn.com>, <Lupe.Carrasco@dvn.com>, <wesley.mathews@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Todd 26G Federal 1 for the following two open releases:

NAB1808526921 - DOR: March 7, 2018
nHMP1420427160 - DOR: July 18, 2014

On Friday, March 27, 2020 at approximately 1:30 p.m., Monica Peppin of Vertex will be onsite to conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you,
Natalie

Natalie Gordon
Project Manager

Vertex Resource Group Ltd.
213 S. Mesa Street
Carlsbad, NM 88220

P 575.725.5001 ext 709
C 505.506.0040
F

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

ATTACHMENT 5



Daily Site Visit Report

| | | | |
|-------------------------|--------------------------|-------------------|--------------------|
| Client: | Devon Energy Corporation | Inspection Date: | 5/18/2020 |
| Site Location Name: | Todd 26G Federal 1 | Report Run Date: | 5/18/2020 7:43 PM |
| Project Owner: | Amanda Davis | File (Project) #: | 20E-00141 |
| Project Manager: | Natalie Gordon | API #: | 30-015-20242 |
| Client Contact Name: | Amanda Davis | Reference | 2RP-4677, 2RP-2386 |
| Client Contact Phone #: | (575) 748-0176 | | |

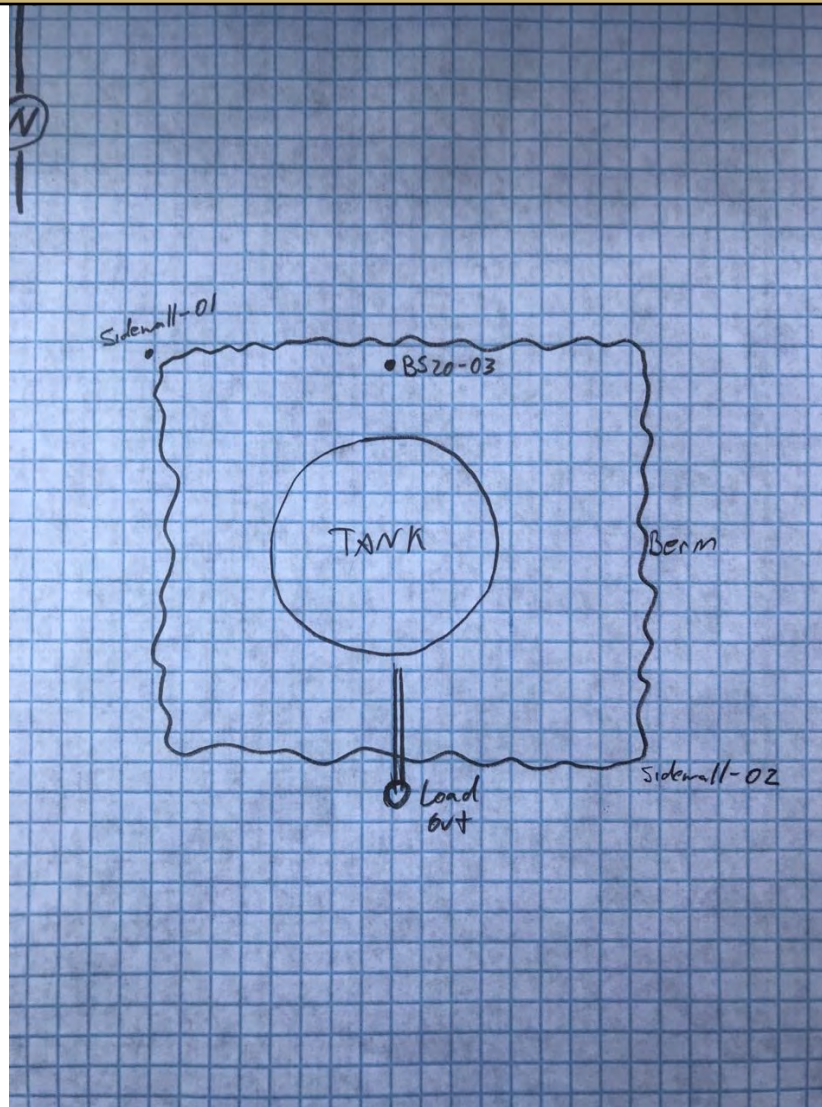
Summary of Times

| | |
|--------------------|--------------------|
| Left Office | 5/18/2020 8:15 AM |
| Arrived at Site | 5/18/2020 9:39 AM |
| Departed Site | 5/18/2020 12:25 PM |
| Returned to Office | 5/18/2020 1:27 PM |

Daily Site Visit Report



Site Sketch



Daily Site Visit Report



Summary of Daily Operations

9:40 Arrive on site.

Complete safety paperwork.

Obtain confirmatory sample at BS20-03 location.

Field screen and record.

Complete DFR.

Return to office.

Next Steps & Recommendations

1 Submit confirmation samples to lab

Sampling

ES-Base20-03

| Depth ft | VOC PID | Petro Flag
TPH ppm | Quantab
Range ppm | Quantab
Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On
Site Sketch? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|------------------------|---------------------------|
| 0 ft. | 1.1 ppm | 141 ppm | | | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | | 32.277331, -103.746739 | Yes |

ES-Wall20-01

| Depth ft | VOC PID | Petro Flag
TPH ppm | Quantab
Range ppm | Quantab
Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On
Site Sketch? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|-----------------------|---------------------------|
| 0 ft. | 0.5 ppm | 259 ppm | Low (30-600 ppm) | 1 ppm | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M) | | 32.27736, -103.746782 | Yes |

Daily Site Visit Report



ES-Wall20-02

| Depth ft | VOC PID | Petro Flag
TPH ppm | Quantab
Range ppm | Quantab
Reading ppm | Lab Analysis | Picture | Trimble Location | Marked On
Site Sketch? |
|----------|---------|-----------------------|----------------------|------------------------|--|---------|----------------------------|---------------------------|
| 0 ft. | 1.5 ppm | 285 ppm | Low (30-600
ppm) | 1 ppm | BTEX (EPA SW-846 Method
8021B/8260B), Chloride (SW-
4500 Cl), TPH (EPA SW-846
Method 8015M) | | 32.277249, -
103.746624 | Yes |

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



NW corner, middle of wall sample 01

Viewing Direction: Northwest



Southeast corner, Middle of wall sample 02

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: ES-Base20-03



Depth: 0 ft.

Sample Point ID: ES-Wall20-01



Depth: 0 ft.

Sample Point ID: ES-Wall20-02



Depth: 0 ft.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature



Daily Site Visit Report

| | | | |
|-------------------------|--------------------------|-------------------|--------------------|
| Client: | Devon Energy Corporation | Inspection Date: | 3/27/2020 |
| Site Location Name: | Todd 26G Federal 1 | Report Run Date: | 5/14/2020 12:13 AM |
| Project Owner: | Amanda Davis | File (Project) #: | 20E-00141 |
| Project Manager: | Natalie Gordon | API #: | 30-015-20242 |
| Client Contact Name: | Amanda Davis | Reference | 2RP-4677, 2RP-2386 |
| Client Contact Phone #: | (575) 748-0176 | | |

Summary of Times

| | |
|--------------------|--------------------|
| Left Office | 3/27/2020 9:00 AM |
| Arrived at Site | 3/27/2020 9:30 AM |
| Departed Site | 3/27/2020 12:13 PM |
| Returned to Office | 3/27/2020 2:13 PM |

Daily Site Visit Report



Site Sketch



Daily Site Visit Report



Daily Site Visit Report



Summary of Daily Operations

- 9:32** Collect 12 composite samples for confirmation sampling event
- 9:39** Collecting composite samples from containment and pasture

Next Steps & Recommendations

- 1** Send samples for lab analysis
- 2** Closure report

Daily Site Visit Report



Site Photos

Viewing Direction: North



West side of battery

Viewing Direction: East



Tank battery containment

Viewing Direction: East



North side of containment





Viewing Direction: South



East side of containment



Daily Site Visit Report

| | |
|---|--|
| <p>Viewing Direction: West</p>  <p><small>Descriptive Photo
Viewing Direction: West
Date: East side of containment
Created: 5/27/2020 9:34:34 AM
Lat:32.277349, Long:-103.744060</small></p> <p>East side of containment</p> | <p>Viewing Direction: West</p>  <p><small>Descriptive Photo
Viewing Direction: West
Date: Pasture area of spill next to right of way
Created: 5/27/2020 9:50:45 AM
Lat:32.289457, Long:-103.744060</small></p> <p>Pasture area of spill next to right of way</p> |
| <p>Viewing Direction: South</p>  <p><small>Descriptive Photo
Viewing Direction: South
Date: Area of pasture spill next to right of way
Created: 5/27/2020 9:52:11 AM
Lat:32.289457, Long:-103.744060</small></p> <p>Area of pasture spill next to right of way</p> | <p>Viewing Direction: North</p>  <p><small>Descriptive Photo
Viewing Direction: North
Date: Area of pasture spill
Created: 5/27/2020 9:53:49 AM
Lat:32.289457, Long:-103.744060</small></p> <p>Area of pasture spill</p> |

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, appearing to be 'MP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

Signature

ATTACHMENT 6

Client Name: Devon Energy Production Company
 Site Name: Todd 26G Federal 1
 NM OCD Tracking #: NHMP1420427160
 Project #: 20E-00141-037
 Lab Reports: 2003C65 and 2005807

| Table 2. Confirmatory Sampling Laboratory Data - Depth to Groundwater > 100 feet | | | | | | | | | | |
|--|------------|----------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|--------------|------------------------------------|-----------|
| Sample Description | | | Petroleum Hydrocarbons | | | | | | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Volatile | | Extractable | | | | | Chloride |
| | | | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | GRO + DRO | Total Petroleum Hydrocarbons (TPH) | |
| | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| BS 20-01 | 0 | March 27, 2020 | <0.025 | <0.225 | <5.0 | 170 | 660 | 170 | 830 | <60 |
| BS 20-02 | 0 | March 27, 2020 | <0.024 | <0.220 | <4.9 | 78 | 240 | 78 | 318 | <60 |
| BS 20-03 | 0 | March 27, 2020 | <0.025 | <0.222 | <4.9 | 1,700 | 3,000 | 1,700 | 4,700 | <60 |
| BS 20-03 | 0.5 | May 18, 2020 | <0.024 | <0.212 | <4.7 | <8.6 | <43 | <13.3 | <56.3 | <59 |
| BS 20-04 | 0 | March 27, 2020 | <0.025 | <0.222 | <4.9 | 210 | 330 | 210 | 540 | <60 |
| BS 20-05 | 0 | March 27, 2020 | <0.025 | <0.225 | <5.0 | 130 | 220 | 130 | 350 | <60 |
| BS 20-06 | 0 | March 27, 2020 | <0.025 | <0.222 | <4.9 | 210 | 550 | 210 | 760 | <59 |
| BS 20-07 | 0 | March 27, 2020 | <0.025 | <0.222 | <4.9 | <9.6 | <48 | <14.5 | <62.5 | <60 |
| BS 20-08 | 0 | March 27, 2020 | <0.025 | <0.221 | <4.9 | <9.4 | <47 | <14.3 | <61.3 | <60 |
| WS 20-01 | 0 - 0.5 | May 18, 2020 | <0.024 | <0.212 | <4.7 | <9.9 | 61 | <14.6 | 61 | <60 |
| WS 20-02 | 0 - 0.5 | May 18, 2020 | <0.024 | <0.219 | <4.9 | 12 | 53 | 12 | 65 | 110 |

Bold and shaded indicates exceedance outside of applied action level

ATTACHMENT 7



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2020

Natalie Gordon

Devon Energy

6488 Seven Rivers Highway This lab data report covers confirmatory sampling for two releases at Todd 26G:

Artesia, NM 88210

TEL: (575) 748-0176 NHMP1420427160 (BS20-01 through BS20-08, WS20-01 through WS20-02)

FAX NAB1808526921 (BS20-09 through BS20-12)

RE: Todd 26 G Federal 1

OrderNo.: 2003C65

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/28/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-01 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 9:40:00 AM

Lab ID: 2003C65-001

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 170 | 9.8 | | mg/Kg | 1 | 4/2/2020 12:31:15 AM |
| Motor Oil Range Organics (MRO) | 660 | 49 | | mg/Kg | 1 | 4/2/2020 12:31:15 AM |
| Surr: DNOP | 102 | 55.1-146 | | %Rec | 1 | 4/2/2020 12:31:15 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/4/2020 7:00:15 AM |
| Surr: BFB | 101 | 66.6-105 | | %Rec | 1 | 4/4/2020 7:00:15 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 7:00:15 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 7:00:15 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 7:00:15 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 4/4/2020 7:00:15 AM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 4/4/2020 7:00:15 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 2:18:56 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 1 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-02 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 9:45:00 AM

Lab ID: 2003C65-002

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 78 | 47 | | mg/Kg | 5 | 4/5/2020 11:17:53 PM |
| Motor Oil Range Organics (MRO) | 240 | 230 | | mg/Kg | 5 | 4/5/2020 11:17:53 PM |
| Surr: DNOP | 93.4 | 55.1-146 | | %Rec | 5 | 4/5/2020 11:17:53 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 8:11:05 AM |
| Surr: BFB | 99.6 | 66.6-105 | | %Rec | 1 | 4/4/2020 8:11:05 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/4/2020 8:11:05 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 8:11:05 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 8:11:05 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 4/4/2020 8:11:05 AM |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 4/4/2020 8:11:05 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 2:31:17 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 2 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-03 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 9:50:00 AM

Lab ID: 2003C65-003

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 1700 | 95 | | mg/Kg | 10 | 4/2/2020 2:08:47 AM |
| Motor Oil Range Organics (MRO) | 3000 | 480 | | mg/Kg | 10 | 4/2/2020 2:08:47 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 4/2/2020 2:08:47 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 9:22:01 AM |
| Surr: BFB | 99.1 | 66.6-105 | | %Rec | 1 | 4/4/2020 9:22:01 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 9:22:01 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 9:22:01 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 9:22:01 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 9:22:01 AM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 4/4/2020 9:22:01 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 2:43:37 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 3 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-04 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 9:55:00 AM

Lab ID: 2003C65-004

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 210 | 9.9 | | mg/Kg | 1 | 4/2/2020 2:33:00 AM |
| Motor Oil Range Organics (MRO) | 330 | 50 | | mg/Kg | 1 | 4/2/2020 2:33:00 AM |
| Surr: DNOP | 104 | 55.1-146 | | %Rec | 1 | 4/2/2020 2:33:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 9:45:48 AM |
| Surr: BFB | 100 | 66.6-105 | | %Rec | 1 | 4/4/2020 9:45:48 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 9:45:48 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 9:45:48 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 9:45:48 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 9:45:48 AM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 4/4/2020 9:45:48 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 2:55:58 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-05 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:00:00 AM

Lab ID: 2003C65-005

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 130 | 9.3 | | mg/Kg | 1 | 4/2/2020 2:57:27 AM |
| Motor Oil Range Organics (MRO) | 220 | 46 | | mg/Kg | 1 | 4/2/2020 2:57:27 AM |
| Surr: DNOP | 95.2 | 55.1-146 | | %Rec | 1 | 4/2/2020 2:57:27 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/4/2020 10:09:34 AM |
| Surr: BFB | 97.1 | 66.6-105 | | %Rec | 1 | 4/4/2020 10:09:34 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 10:09:34 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 10:09:34 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 10:09:34 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 4/4/2020 10:09:34 AM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 4/4/2020 10:09:34 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 3:08:18 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 5 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-06 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:05:00 AM

Lab ID: 2003C65-006

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 210 | 96 | | mg/Kg | 10 | 4/2/2020 3:21:46 AM |
| Motor Oil Range Organics (MRO) | 550 | 480 | | mg/Kg | 10 | 4/2/2020 3:21:46 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 4/2/2020 3:21:46 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 10:33:16 AM |
| Surr: BFB | 98.0 | 66.6-105 | | %Rec | 1 | 4/4/2020 10:33:16 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 10:33:16 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 10:33:16 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 10:33:16 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 10:33:16 AM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 4/4/2020 10:33:16 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 59 | | mg/Kg | 20 | 4/2/2020 3:45:21 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 6 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-07 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:10:00 AM

Lab ID: 2003C65-007

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 4/2/2020 3:46:08 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 4/2/2020 3:46:08 AM |
| Surr: DNOP | 91.5 | 55.1-146 | | %Rec | 1 | 4/2/2020 3:46:08 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 10:57:01 AM |
| Surr: BFB | 101 | 66.6-105 | | %Rec | 1 | 4/4/2020 10:57:01 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 10:57:01 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 10:57:01 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 10:57:01 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 10:57:01 AM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 4/4/2020 10:57:01 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 3:57:41 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 7 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-08 0'

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:15:00 AM

Lab ID: 2003C65-008

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 4/2/2020 4:10:16 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 4/2/2020 4:10:16 AM |
| Surr: DNOP | 89.2 | 55.1-146 | | %Rec | 1 | 4/2/2020 4:10:16 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 11:20:50 AM |
| Surr: BFB | 101 | 66.6-105 | | %Rec | 1 | 4/4/2020 11:20:50 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 11:20:50 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 11:20:50 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 11:20:50 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 4/4/2020 11:20:50 AM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 4/4/2020 11:20:50 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 4:10:02 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 8 of 19

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-09

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:20:00 AM

Lab ID: 2003C65-009

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 4/2/2020 4:34:31 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 4/2/2020 4:34:31 AM |
| Surr: DNOP | 99.3 | 55.1-146 | | %Rec | 1 | 4/2/2020 4:34:31 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/4/2020 11:44:21 AM |
| Surr: BFB | 99.9 | 66.6-105 | | %Rec | 1 | 4/4/2020 11:44:21 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 11:44:21 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 11:44:21 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 11:44:21 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 11:44:21 AM |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 4/4/2020 11:44:21 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 4:22:23 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-10

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:25:00 AM

Lab ID: 2003C65-010

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 4/2/2020 4:58:44 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 4/2/2020 4:58:44 AM |
| Surr: DNOP | 104 | 55.1-146 | | %Rec | 1 | 4/2/2020 4:58:44 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/4/2020 12:07:52 PM |
| Surr: BFB | 102 | 66.6-105 | | %Rec | 1 | 4/4/2020 12:07:52 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 12:07:52 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 12:07:52 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 12:07:52 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 12:07:52 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 4/4/2020 12:07:52 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 4:34:44 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-11

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:30:00 AM

Lab ID: 2003C65-011

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 4/2/2020 5:23:03 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 4/2/2020 5:23:03 AM |
| Surr: DNOP | 90.8 | 55.1-146 | | %Rec | 1 | 4/2/2020 5:23:03 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/4/2020 8:52:24 PM |
| Surr: BFB | 101 | 66.6-105 | | %Rec | 1 | 4/4/2020 8:52:24 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 8:52:24 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 8:52:24 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/4/2020 8:52:24 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 8:52:24 PM |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 4/4/2020 8:52:24 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 61 | | mg/Kg | 20 | 4/2/2020 4:47:05 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2003C65

Date Reported: 4/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-12

Project: Todd 26 G Federal 1

Collection Date: 3/27/2020 10:35:00 AM

Lab ID: 2003C65-012

Matrix: SOIL

Received Date: 3/28/2020 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 4/2/2020 5:47:09 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 4/2/2020 5:47:09 AM |
| Surr: DNOP | 92.3 | 55.1-146 | | %Rec | 1 | 4/2/2020 5:47:09 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/4/2020 9:16:09 PM |
| Surr: BFB | 98.3 | 66.6-105 | | %Rec | 1 | 4/4/2020 9:16:09 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/4/2020 9:16:09 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 9:16:09 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/4/2020 9:16:09 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/4/2020 9:16:09 PM |
| Surr: 4-Bromofluorobenzene | 99.8 | 80-120 | | %Rec | 1 | 4/4/2020 9:16:09 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/2/2020 5:24:08 PM |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 12 of 19

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

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: MB-51520 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51520 | RunNo: 67778 | | | | | | | | |
| Prep Date: 4/2/2020 | Analysis Date: 4/2/2020 | SeqNo: 2342072 | | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-51520 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51520 | RunNo: 67778 | | | | | | | | |
| Prep Date: 4/2/2020 | Analysis Date: 4/2/2020 | SeqNo: 2342073 | | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.7 | 90 | 110 | | | |

| Sample ID: MB-51509 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51509 | RunNo: 67778 | | | | | | | | |
| Prep Date: 4/2/2020 | Analysis Date: 4/2/2020 | SeqNo: 2342104 | | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-51509 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|---------------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51509 | RunNo: 67778 | | | | | | | | |
| Prep Date: 4/2/2020 | Analysis Date: 4/2/2020 | SeqNo: 2342105 | | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.2 | 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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: LCS-51419 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51419 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 3/31/2020 | | | SeqNo: 2339279 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.8 | | 5.000 | | 75.9 | 55.1 | 146 | | | |

| Sample ID: MB-51419 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51419 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 3/31/2020 | | | SeqNo: 2339280 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.5 | | 10.00 | | 95.3 | 55.1 | 146 | | | |

| Sample ID: MB-51432 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51432 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | | | SeqNo: 2340291 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.6 | | 10.00 | | 95.7 | 55.1 | 146 | | | |

| Sample ID: 2003C65-001AMS | SampType: MS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|----------------------------------|--------------------------------|-----|-----------|--|-------|---------------------|-----------|------|----------|------|
| Client ID: BS20-01 0' | Batch ID: 51433 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | | | SeqNo: 2340660 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 130 | 9.8 | 48.88 | 166.5 | -72.3 | 47.4 | 136 | | | S |
| Surr: DNOP | 4.4 | | 4.888 | | 90.2 | 55.1 | 146 | | | |

| Sample ID: 2003C65-001AMSD | SampType: MSD | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------------|--------------------------------|-----|-----------|--|-------|---------------------|-----------|------|----------|------|
| Client ID: BS20-01 0' | Batch ID: 51433 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | | | SeqNo: 2340661 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 130 | 9.8 | 49.02 | 166.5 | -76.4 | 47.4 | 136 | 1.61 | 43.4 | S |
| Surr: DNOP | 4.5 | | 4.902 | | 90.9 | 55.1 | 146 | 0 | 0 | |

| Sample ID: LCS-51433 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51433 | | | RunNo: 67718 | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | | | SeqNo: 2340681 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 100 | 70 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 91.9 | 55.1 | 146 | | | |

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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: MB-51433 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51433 | RunNo: 67718 | | | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/1/2020 | SeqNo: 2340683 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.9 | | 10.00 | | 98.6 | 55.1 | 146 | | | |

| Sample ID: LCS-51460 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51460 | RunNo: 67718 | | | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | SeqNo: 2341419 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.0 | | 5.000 | | 100 | 55.1 | 146 | | | |

| Sample ID: MB-51460 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51460 | RunNo: 67718 | | | | | | | | |
| Prep Date: 3/31/2020 | Analysis Date: 4/2/2020 | SeqNo: 2341420 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 113 | 55.1 | 146 | | | |

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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: 2.5ug gro lcs | SampType: LCS | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|---------------------------------|--------------------------------|-----|-----------|---|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: G67819 | | | RunNo: 67819 | | | | | | |
| Prep Date: | Analysis Date: 4/3/2020 | | | SeqNo: 2342508 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 110 | 66.6 | 105 | | | S |

| Sample ID: mb | SampType: MBLK | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-----------------------|--------------------------------|-----|-----------|---|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: G67819 | | | RunNo: 67819 | | | | | | |
| Prep Date: | Analysis Date: 4/3/2020 | | | SeqNo: 2342518 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 109 | 66.6 | 105 | | | S |

| Sample ID: 2003c65-002ams | SampType: MS | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|----------------------------------|--------------------------------|-----|-----------|---|------|---------------------|-----------|------|----------|------|
| Client ID: BS20-02 0' | Batch ID: 51426 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | SeqNo: 2343506 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 24.90 | 0 | 87.0 | 69.1 | 142 | | | |
| Surr: BFB | 1100 | | 996.0 | | 111 | 66.6 | 105 | | | S |

| Sample ID: 2003c65-002amsd | SampType: MSD | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-----------------------------------|--------------------------------|-----|-----------|---|------|---------------------|-----------|--------|----------|------|
| Client ID: BS20-02 0' | Batch ID: 51426 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | SeqNo: 2343507 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 24.75 | 0 | 87.5 | 69.1 | 142 | 0.0461 | 20 | |
| Surr: BFB | 1100 | | 990.1 | | 111 | 66.6 | 105 | 0 | 0 | S |

| Sample ID: lcs-51420 | SampType: LCS | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|---|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51420 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/3/2020 | | | SeqNo: 2343527 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 109 | 66.6 | 105 | | | S |

| Sample ID: mb-51420 | SampType: MBLK | | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|---|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51420 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/3/2020 | | | SeqNo: 2343529 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 990 | | 1000 | | 98.6 | 66.6 | 105 | | | |

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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: mb-51426 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51426 | RunNo: 67819 | | | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | SeqNo: 2343530 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 | 1000 | | 1000 | | 101 | 66.6 | 105 | | | |

| Sample ID: lcs-51426 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51426 | RunNo: 67872 | | | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | SeqNo: 2344486 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 95.2 | 80 | 120 | | | |
| Surr: BFB | 1100 | | 1000 | | 107 | 66.6 | 105 | | | S |

| Sample ID: mb-51471 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51471 | RunNo: 67872 | | | | | | | | |
| Prep Date: 4/1/2020 | Analysis Date: 4/5/2020 | SeqNo: 2344497 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 950 | | 1000 | | 95.1 | 66.6 | 105 | | | |

| Sample ID: lcs-51471 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51471 | RunNo: 67872 | | | | | | | | |
| Prep Date: 4/1/2020 | Analysis Date: 4/5/2020 | SeqNo: 2344498 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 107 | 66.6 | 105 | | | S |

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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: 100ng btex lcs | SampType: LCS | | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
|----------------------------------|--------------------------------|-----|-----------|-------------|--|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R67819 | | | | RunNo: 67819 | | | | | |
| Prep Date: | Analysis Date: 4/3/2020 | | | | SeqNo: 2342520 | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID: mb | SampType: MBLK | | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
|----------------------------|--------------------------------|-----|-----------|-------------|--|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R67819 | | | | RunNo: 67819 | | | | | |
| Prep Date: | Analysis Date: 4/3/2020 | | | | SeqNo: 2342530 | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 114 | 80 | 120 | | | |

| Sample ID: 2003c65-001ams | SampType: MS | | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
|----------------------------------|--------------------------------|-------|-----------|-------------|--|---------------------|-----------|------|----------|------|
| Client ID: BS20-01 0' | Batch ID: 51426 | | | | RunNo: 67819 | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | | SeqNo: 2343554 | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 1.000 | 0 | 86.1 | 78.5 | 119 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 90.2 | 75.7 | 123 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.3 | 74.3 | 126 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 93.2 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 109 | 80 | 120 | | | |

| Sample ID: 2003c65-001amsd | SampType: MSD | | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
|-----------------------------------|--------------------------------|-------|-----------|-------------|--|---------------------|-----------|-------|----------|------|
| Client ID: BS20-01 0' | Batch ID: 51426 | | | | RunNo: 67819 | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | | SeqNo: 2343555 | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.024 | 0.9747 | 0 | 90.7 | 78.5 | 119 | 2.58 | 20 | |
| Toluene | 0.90 | 0.049 | 0.9747 | 0 | 92.3 | 75.7 | 123 | 0.277 | 20 | |
| Ethylbenzene | 0.92 | 0.049 | 0.9747 | 0 | 94.1 | 74.3 | 126 | 0.710 | 20 | |
| Xylenes, Total | 2.8 | 0.097 | 2.924 | 0 | 95.0 | 72.9 | 130 | 0.704 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9747 | | 104 | 80 | 120 | 0 | 0 | |

| Sample ID: LCS-51420 | SampType: LCS | | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
|-----------------------------|--------------------------------|-----|-----------|-------------|--|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51420 | | | | RunNo: 67819 | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/3/2020 | | | | SeqNo: 2343576 | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

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 Quantitative 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.**

WO#: 2003C65

06-Apr-20

Client: Devon Energy
Project: Todd 26 G Federal 1

| Sample ID: LCS-51426 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51426 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | SeqNo: 2343577 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 1.000 | 0 | 86.4 | 80 | 120 | | | |
| Toluene | 0.87 | 0.050 | 1.000 | 0 | 87.4 | 80 | 120 | | | |
| Ethylbenzene | 0.89 | 0.050 | 1.000 | 0 | 88.8 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 89.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

| Sample ID: mb-51420 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51420 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/3/2020 | | | SeqNo: 2343578 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

| Sample ID: mb-51426 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51426 | | | RunNo: 67819 | | | | | | |
| Prep Date: 3/30/2020 | Analysis Date: 4/4/2020 | | | SeqNo: 2343579 | | Units: mg/Kg | | | | |
| 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 | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

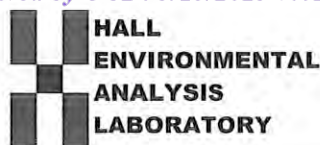
| Sample ID: mb-51471 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 51471 | | | RunNo: 67872 | | | | | | |
| Prep Date: 4/1/2020 | Analysis Date: 4/5/2020 | | | SeqNo: 2344549 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 97.9 | 80 | 120 | | | |

| Sample ID: LCS-51471 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|--------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 51471 | | | RunNo: 67872 | | | | | | |
| Prep Date: 4/1/2020 | Analysis Date: 4/5/2020 | | | SeqNo: 2344550 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.1 | 80 | 120 | | | |

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 Quantitative 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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 2003C65

RcptNo: 1

Received By: Erin Melendrez 3/28/2020 8:15:00 AM

Completed By: Erin Melendrez 3/28/2020 3:22:34 PM

Reviewed By: JR 3/30/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 3/30/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.7 | Good | | | | |
| 2 | 5.0 | Good | | | | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 26, 2020

Natalie Gordon

Vertex Resource Group Ltd.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Todd 26 6 Fed 1

OrderNo.: 2005807

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/19/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2005807

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BS20-03 0.0'

Project: Todd 26 6 Fed 1

Collection Date: 5/18/2020 11:00:00 AM

Lab ID: 2005807-001

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 8.6 | | mg/Kg | 1 | 5/21/2020 4:57:29 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | | mg/Kg | 1 | 5/21/2020 4:57:29 PM |
| Surr: DNOP | 109 | 55.1-146 | | %Rec | 1 | 5/21/2020 4:57:29 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 59 | | mg/Kg | 20 | 5/23/2020 9:25:50 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: DJF |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/21/2020 8:43:38 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 5/21/2020 8:43:38 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 5/21/2020 8:43:38 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 5/21/2020 8:43:38 PM |
| Surr: 1,2-Dichloroethane-d4 | 96.3 | 70-130 | | %Rec | 1 | 5/21/2020 8:43:38 PM |
| Surr: 4-Bromofluorobenzene | 96.3 | 70-130 | | %Rec | 1 | 5/21/2020 8:43:38 PM |
| Surr: Dibromofluoromethane | 98.8 | 70-130 | | %Rec | 1 | 5/21/2020 8:43:38 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 5/21/2020 8:43:38 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/21/2020 8:43:38 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 5/21/2020 8:43:38 PM |

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

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2005807

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: WS20-01 0.0'

Project: Todd 26 6 Fed 1

Collection Date: 5/18/2020 11:20:00 AM

Lab ID: 2005807-002

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 5/21/2020 5:21:43 PM |
| Motor Oil Range Organics (MRO) | 61 | 50 | | mg/Kg | 1 | 5/21/2020 5:21:43 PM |
| Surr: DNOP | 121 | 55.1-146 | | %Rec | 1 | 5/21/2020 5:21:43 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 5/23/2020 9:38:15 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: DJF |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/21/2020 9:13:36 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 5/21/2020 9:13:36 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 5/21/2020 9:13:36 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 5/21/2020 9:13:36 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.8 | 70-130 | | %Rec | 1 | 5/21/2020 9:13:36 PM |
| Surr: 4-Bromofluorobenzene | 94.1 | 70-130 | | %Rec | 1 | 5/21/2020 9:13:36 PM |
| Surr: Dibromofluoromethane | 94.0 | 70-130 | | %Rec | 1 | 5/21/2020 9:13:36 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 5/21/2020 9:13:36 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 5/21/2020 9:13:36 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 5/21/2020 9:13:36 PM |

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

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2005807

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: WS20-02 0.0'

Project: Todd 26 6 Fed 1

Collection Date: 5/18/2020 11:30:00 AM

Lab ID: 2005807-003

Matrix: SOIL

Received Date: 5/19/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 12 | 9.8 | | mg/Kg | 1 | 5/21/2020 5:46:12 PM |
| Motor Oil Range Organics (MRO) | 53 | 49 | | mg/Kg | 1 | 5/21/2020 5:46:12 PM |
| Surr: DNOP | 114 | 55.1-146 | | %Rec | 1 | 5/21/2020 5:46:12 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | 110 | 60 | | mg/Kg | 20 | 5/23/2020 9:50:40 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: DJF |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/21/2020 9:43:05 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 5/21/2020 9:43:05 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 5/21/2020 9:43:05 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 5/21/2020 9:43:05 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.8 | 70-130 | | %Rec | 1 | 5/21/2020 9:43:05 PM |
| Surr: 4-Bromofluorobenzene | 93.6 | 70-130 | | %Rec | 1 | 5/21/2020 9:43:05 PM |
| Surr: Dibromofluoromethane | 92.6 | 70-130 | | %Rec | 1 | 5/21/2020 9:43:05 PM |
| Surr: Toluene-d8 | 102 | 70-130 | | %Rec | 1 | 5/21/2020 9:43:05 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/21/2020 9:43:05 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 5/21/2020 9:43:05 PM |

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

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Page 3 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005807

26-May-20

Client: Vertex Resource Group Ltd.

Project: Todd 26 6 Fed 1

| | | | | | | | | | | |
|----------------------|--------|--------------------------|-----------|------------------------------------|------|----------|--------------|------|----------|------|
| Sample ID: MB-52667 | | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | | |
| Client ID: PBS | | Batch ID: 52667 | | RunNo: 69127 | | | | | | |
| Prep Date: 5/23/2020 | | Analysis Date: 5/23/2020 | | SeqNo: 2395515 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|----------------------|--------|--------------------------|-----------|------------------------------------|------|----------|--------------|------|----------|------|
| Sample ID: LCS-52667 | | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | | |
| Client ID: LCSS | | Batch ID: 52667 | | RunNo: 69127 | | | | | | |
| Prep Date: 5/23/2020 | | Analysis Date: 5/23/2020 | | SeqNo: 2395516 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.9 | 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 Quantitative 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 7

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

WO#: 2005807

26-May-20

Client: Vertex Resource Group Ltd.**Project:** Todd 26 6 Fed 1

| Sample ID: MB-52627 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 52627 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/21/2020 | Analysis Date: 5/21/2020 | | | SeqNo: 2392013 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.7 | | 10.00 | | 96.8 | 55.1 | 146 | | | |

| Sample ID: LCS-52627 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 52627 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/21/2020 | Analysis Date: 5/21/2020 | | | SeqNo: 2392014 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.5 | | 5.000 | | 90.5 | 55.1 | 146 | | | |

| Sample ID: MB-52598 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 52598 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/20/2020 | Analysis Date: 5/22/2020 | | | SeqNo: 2392532 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 107 | 55.1 | 146 | | | |

| Sample ID: MB-52605 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|--------------------------------|---------------------------------|-----|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 52605 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/20/2020 | Analysis Date: 5/21/2020 | | | SeqNo: 2392533 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.6 | | 10.00 | | 95.9 | 55.1 | 146 | | | |

| Sample ID: LCS-52598 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 52598 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/20/2020 | Analysis Date: 5/22/2020 | | | SeqNo: 2392534 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.2 | | 5.000 | | 83.8 | 55.1 | 146 | | | |

| Sample ID: LCS-52605 | SampType: LCS | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 52605 | | | RunNo: 69068 | | | | | | |
| Prep Date: 5/20/2020 | Analysis Date: 5/21/2020 | | | SeqNo: 2392535 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 87.0 | 70 | 130 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 87.7 | 55.1 | 146 | | | |

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 Quantitative 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.**

WO#: 2005807

26-May-20

Client: Vertex Resource Group Ltd.**Project:** Todd 26 6 Fed 1

| Sample ID: mb-52577 | SampType: MBLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 52577 | RunNo: 69081 | | | | | | | | |
| Prep Date: 5/19/2020 | Analysis Date: 5/21/2020 | SeqNo: 2392357 | Units: mg/Kg | | | | | | | |
| 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: 1,2-Dichloroethane-d4 | 0.47 | | 0.5000 | | 93.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 95.5 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.48 | | 0.5000 | | 96.2 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.2 | 70 | 130 | | | |

| Sample ID: LCS-52577 | SampType: LCS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 52577 | RunNo: 69081 | | | | | | | | |
| Prep Date: 5/19/2020 | Analysis Date: 5/21/2020 | SeqNo: 2392358 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 88.9 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 106 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 95.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.46 | | 0.5000 | | 93.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.47 | | 0.5000 | | 94.4 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |

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 Quantitative 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 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005807

26-May-20

Client: Vertex Resource Group Ltd.
Project: Todd 26 6 Fed 1

| | | |
|-------------------------------|--------------------------|--|
| Sample ID: mb-52577 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range |
| Client ID: PBS | Batch ID: 52577 | RunNo: 69081 |
| Prep Date: 5/19/2020 | Analysis Date: 5/21/2020 | SeqNo: 2392372 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 | 520 | 500.0 103 70 130 |

| | | |
|-------------------------------|--------------------------|--|
| Sample ID: LCS-52577 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range |
| Client ID: LCSS | Batch ID: 52577 | RunNo: 69081 |
| Prep Date: 5/19/2020 | Analysis Date: 5/21/2020 | SeqNo: 2392377 Units: mg/Kg |
| Analyte | Result | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 25.00 0 95.7 70 130 |
| Surr: BFB | 520 | 500.0 104 70 130 |

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 Quantitative 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 7



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: VERTEX CARLSBAD

Work Order Number: 2005807

RcptNo: 1

Received By: Isaiah Ortiz

5/19/2020 9:30:00 AM

I-OK

Completed By: Isaiah Ortiz

5/19/2020 10:32:31 AM

I-OK

Reviewed By: LB

5/19/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: DAD 5/19/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 4.2 | Good | Not Present | | | |

Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Todd 26 to Fed 1

Project #:

20E-00141

Project Manager:

Natalie Gordon

Sampler:

Austin HarrisOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 43.0 / 41.1 / 42.4 (°C)

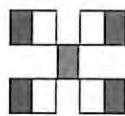
| Date | Time | Matrix | Sample Name |
|------|------|--------|--------------|
| 5-18 | 1100 | Soil | B520-03 0.0' |
| ↓ | 1120 | ↓ | WS20-01 0.0' |
| ↓ | 1130 | ↓ | WS20-02 0.0' |

| Container Type and # | Preservative Type | HEAL No. |
|----------------------|-------------------|----------|
| 402 | Ice | 2005807 |
| ↓ | ↓ | -002 |
| ↓ | ↓ | -003 |

| Date | Time | Relinquished by | Relinquished by |
|---------|------|-----------------|-----------------|
| 5-18 | 1330 | Austin Harris | |
| 5/18/20 | 1900 | | |

| Received by | Via | Date | Time |
|-------------|-----|---------|------|
| | | 5/18/20 | 1330 |
| | | 5/19/20 | 0930 |

Remarks:

CC: Natalie GordonHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Analysis Request |
|--|
| BTEX / MTBE / TMBs (8021) |
| TPH:8015D(GRO / DRO / MRO) |
| 8081 Pesticides/8082 PCBs |
| EDB (Method 504.1) |
| PAHs by 8310 or 8270SIMS |
| RCRA 8 Metals |
| Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ |
| 8260 (VOA) |
| 8270 (Semi-VOA) |
| Total Coliform (Present/Absent) |

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

Action 197181

CONDITIONS

| | |
|---|---|
| Operator:
DEVON ENERGY PRODUCTION COMPANY, LP
333 West Sheridan Ave.
Oklahoma City, OK 73102 | OGRID:
6137 |
| | Action Number:
197181 |
| | Action Type:
[C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| amaxwell | None | 3/16/2023 |