

November 13, 2020 Vertex Project #: 20E-00141-049

Spill Closure Report: Tomcat 15 Federal 3-2

Unit D, Section 15, Township 23 South, Range 32 East

County: Lea

API: 30-025-35524

Incident Tracking Number: NJXK1604649303

Prepared For: Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 1 - Hobbs

1625 North French Drive Hobbs, New Mexico 88240

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred on February 12, 2016, at Tomcat 15 Federal 3-2, API 30-025-35524 (hereafter referred to as "Tomcat 15"). Devon provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 1 and the Bureau of Land Management (BLM), who owns the property, via submission of an initial C-141 Release Notification on February 15, 2016 (Attachment 1). The NM OCD incident tracking number assigned to this incident is NJXK1604649303.

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 February 12, 2016, a release occurred at Devon's Tomcat 15 site when a bull pushed into the fencing around the wellhead and broke a 1" nipple. This incident resulted in the release of approximately 5 barrels (bbls) of produced water onto the wellpad. Upon discovery of the release, the well was shut in and the nipple was replaced. A hydrovac truck was dispatched to the site to recover free liquids. Approximately 1 bbl of produced water was recovered from the spill area and removed for disposal off-site. The release remained entirely on-pad; no produced water was released into undisturbed areas or waterways.

Site Characterization

The release at Tomcat 15 occurred on federally-owned land, N 32.3100281, W 103.6689453, approximately 25 miles east of Loving, New Mexico. The legal description for the site is Unit D, Section 15, Township 23 South, Range 32 East, Lea County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial photograph and site schematic are included

2020 Spill Assessment and Closure October 2020

in Attachment 2.

Tomcat 15 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. The following sections specifically describe the area around the wellpad.

The surrounding landscape is associated with southwestern plains generally found at elevations of 3,000 to 3,900 feet above sea level and is classified as farmland of statewide importance. The climate is semi-arid, with average annual precipitation ranging between 10 and 12 inches. Historically, the plant community has been dominated by black grama, dropseeds and bluestems, with scattered shinnery oak and sand sage. Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and, to a lesser extent, bare ground make up a significant portion of the ground cover, while grasses compose the remainder (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted production wellpad.

The Geological Map of New Mexico indicates the surface geology at Tomcat 15 is comprised primarily of Qep – interlaid eolian sands and piedmont-slope deposits from the Holocene to middle Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resources Conservation Service Web Soil Survey characterizes the soil at the site as Pyote loamy fine sand, which is comprised of loamy fine sand over deep layers of fine sandy loam. It tends to be well-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 Tomcat 15 (United States Department of the Interior, Bureau of Land Management, 2020).

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 4.8 miles east of the site (United States Fish and Wildlife Service, 2020). At Tomcat 15, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to the site is a United States Geological Survey well from 2013, located approximately 1.6 miles due north of the site, with a depth to groundwater of 490 feet below ground surface (bgs; United States Department of the Interior, United States Geological Survey, 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 is 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 Tomcat 15 is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. As the nearest groundwater well is further than 0.5 miles from the release site, the depth to groundwater at Tomcat 15 cannot be accurately determined. The closure criteria for the site are determined to be associated with the following constituent concentration limits.

2020 Spill Assessment and Closure October 2020

Table 1. Closure Criteria for Soils Impacted by a Release						
Depth to Groundwater	Constituent	Limit				
<50 feet	Chloride	600 mg/kg				
	TPH ¹	100 mg/kg				
	(GRO + DRO + MRO)	100 1118/ 118				
	BTEX ²	50 mg/kg				
	Benzene	10 mg/kg				

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

Remedial Actions

Initial Remedial Actions

An initial spill inspection, completed on April 3, 2020, identified and mapped the boundaries of the release using an electroconductivity meter to approximate the levels of chloride in the soil. The release area was determined to be approximately 35 feet wide by 30 feet long; the total affected area was determined to be approximately 1,060 square feet (Attachment 2 – Figure 1). Initial field screening and site characterization activities determined that the site met closure criteria, based on an initial depth to groundwater determination of greater than 100 feet bgs, and, as no excavation or remediation was needed, confirmatory sampling could be conducted. The Daily Field Report (DFR) associated with the initial spill inspection is included as Attachment 4.

On May 13, 2020, Vertex provided 48-hour notification of confirmation sampling to NM OCD District 1 and the BLM, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). On May 15, 2020, five confirmatory samples (BS20-01 to BS20-05) were collected from within the footprint of the release area such that each five-point 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 (NELAP)-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Table 2 (Attachment 6). The laboratory data report and chain of custody form 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 the five-point composite samples. The confirmation sampling locations are presented on Figure 1 (Attachment 2).

Modification of Closure Criteria

Following the initial confirmatory sampling, additional depth to groundwater research was completed on Tomcat 15 and it was determined that, because the nearest groundwater well was farther from the release site than the recommended 0.5 miles, additional remediation would be needed to meet the most stringent closure criteria, as shown

² Benzene, toluene, ethyl benzene and xylenes (BTEX)

2020 Spill Assessment and Closure October 2020

in Table 1.

On August 31, 2020, Vertex again provided 48-hour notification of confirmation sampling to NM OCD District 1 and the BLM (Attachment 5), and on September 2, 2020, Vertex was on-site to guide excavation of contaminated soil to depths of approximately 1 foot bgs. Following remediation, five confirmatory samples (BS20-01 to BS20-05) were collected from the base of the excavation at the same approximate locations where the initial confirmatory samples were collected. Additionally, side wall samples were collected to show that the horizontal extents of the release had been properly identified. The final confirmatory samples were collected such that each five-point 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. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a NELAP-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. The second round of confirmatory sample analytical data are summarized in Table 2 with the original confirmatory sampling analytical data (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

The side wall confirmatory samples are presented with the original five confirmatory samples on Figure 1 (Attachment 2).

Closure Request

Vertex recommends no additional remediation action to address the release at Tomcat 15. Laboratory analyses for the final confirmatory samples showed constituent of concern concentration levels below NM OCD Closure Criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (NJXK1604649303) 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 February 12, 2016, release at Tomcat 15.

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

2020 Spill Assessment and Closure October 2020

Attachments

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

2020 Spill Assessment and Closure October 2020

References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- New Mexico Oil Conservation Division. (2018). New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United States Department of the Interior, United States Geological Survey. (2020). *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

2020 Spill Assessment and Closure October 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

Received by OCD: 11/17/2020 9:33:29 AM

<u>District I</u> 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

Energy Minerals and Natural

RECEIVED State of New Mexic

By JKeyes at 1:44 pm, Feb 15, 2016

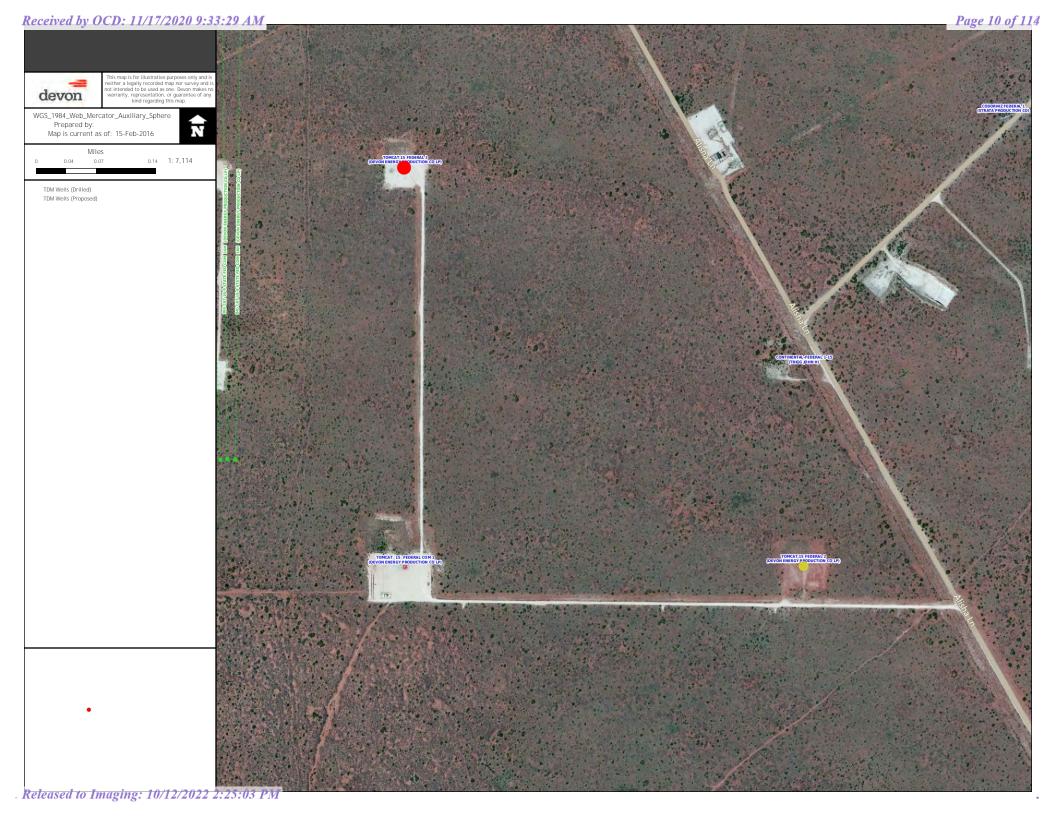
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Page 9 of 114

Release Notification and Corrective Action

						OPERA		\boxtimes		l Report		Final Repor
				Contact Ruben Garcia Assistant Production Foreman								
					No. 575-748-52							
Facility Na	me Tomc	at 15 Fed 3-2	2			Facility Ty	pe Injection SV	WD				
Surface Ov	Surface Owner Federal Mineral Owner				Federal		A	PI No	30-025-3	35524	,	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West	Line	County		
D	15	23S	32E	660		North	660	West	t		Lea	a
	Latitude: N 32'31'00.80" Longitude: W -103'66'89.38"											
				NAT	TURE	OF REL						
Type of Rele Produced Wa						Volume of 5 bbls	f Release		olume F obl	Recovered		
Source of Re							Hour of Occurre			Hour of Di	scover	rv
1" nipple						2/12/16 @				10:00am	500101	i j
Was Immed	iate Notice					If YES, To						
		K	Yes	No Not R	equired	Kellie Jone Jim Amos						
By Whom?	Ruben Garc	ia Assistant P	roduction	Foreman		Date and l	Hour					
						2/12/16 @ 2:25 pm						
Was a Wate	rcourse Re	ached?				2/12/16 @	2:20 pm olume Impacting	the Water	course			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000150 110		Yes 🗵	No		N/A	v	, 0210 // 4002/	004150			
	ourse was I	mpacted, Des	scribe Ful	ly.*								
N/A Describe Ca	use of Prob	olem and Ren	nedial Act	ion Taken *								
					ing 5 bb	ls produced w	vater to release. W	ell was shu	t in to p	revent furth	er rele	ease. Nipple
was replaced	and well w	as put back to	production	n.								
Describe Ar	ea Affected	l and Cleanu	p Action T	Taken.*								
							on the facility. 1 band 4'x10' on the					
				contacted for ren			ind 4 x10 on the	Norm side (or the w	eimead. An	. IIuIu I	remained on
1		C	,									
I hereby certi	fy that the	information of	iven above	is true and comp	lete to t	he best of my	knowledge and u	inderstand th	nat nure	uant to NM	OCD r	ules and
							nd perform correc					
							arked as "Final R					
							on that pose a three the operator of					
		ws and/or regu		runce of a C 111	гороги	ioes not remev	e the operator or	responsioni	iy 101 CC	mphanee w	Tun un.	y other
		_				OIL CONSERVATION DIVISION						
Signature: C	orina h	10ya							Jamx	/		
Printed Name	e: Corina N	Лоуа				Approved by	Environmental S		/ Jam + b	ayer		
Title: Field A	Admin Sup	port				Approval Da	02/15/2016 te:	Exp	iration I	Date: 04/1	5/2016	5
F-mail Addre	ecc corino	moya@dvn.c	om			Conditions of	f Annroval					
E-man Addit	.ss. cui ilia.	moya w u vii. C	VIII		I	Discrete site sa	amples only. Deli	neate and re	mediate	Attached 1RP 418		
	5/2016		hone: 575	.746.5559	r	er NMOCD g	guidelines. Ensure			nJXK16		9303
* Attach Addi	tional She	ets If Necess	ary		C	concurrence/ap	pproval.			pJXK16	504649	9401



	Page 11 of 11	4
Incident ID	NJXK1604649303	
District RP	1RP-4182	
Facility ID		
Application ID	pJXK1604649401	

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?	< 50 (ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗷 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗷 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗷 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittels in adf format are preferred) demonstrating the leteral and year	tical automts of sail

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

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

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- x Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- \(\overline{\text{\tin}}}}}}}}}} \encomessmillimity} \end{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t
- NA Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

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

Received by OCD: 11/17/2020 9:33:29 AM
State of New Mexico
Page 4 Oil Conservation Division

rage 12 0j 114	Page	12	of	114
----------------	------	----	----	-----

Incident ID	NJXK1604649303
District RP	1RP-4182
Facility ID	
Application ID	pJXK1604649401

regulations all operators are required to report and/or file certain release notifice public health or the environment. The acceptance of a C-141 report by the OCI failed to adequately investigate and remediate contamination that pose a threat addition, OCD acceptance of a C-141 report does not relieve the operator of resund/or regulations.	ations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum	Date: 11/14/2020
Signature: Tom Bynum email: tom.bynum@dvn.com	Telephone: 575-748-2663
OCD Only	
Received by:	Date:

Page 13 of 114

Incident ID	NJXK1604649303
District RP	1RP-4182
Facility ID	
Application ID	pJXK1604649401

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 n	nust be included in the closure report.						
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
X Laboratory analyses of final sampling (Note: appropriate ODC Distr	rict office must be notified 2 days prior to final sampling)						
Description of remediation activities							
which may endanger public health or the environment. The acceptance of liability should their operations have failed to adequately investigate and rewater, human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD w	remediate contamination that pose a threat to groundwater, surface a C-141 report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially not that existed prior to the release or their final land use in						
Printed Name: Tom Bynum	Title: EHS Consultant						
Signature: Tom Bynum	Date:11/14/2020						
email: tom.bynum@dvn.com	Telephone: <u>575-748-2663</u>						
OCD Only							
Received by:	Deter						
Received by:	Date:						
Closure approval by the OCD does not relieve the responsible party of liab remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible						
Closure Approved by: Luttan Hall	Date: 10/12/2022						
Printed Name: Brittany Hall	Title: Environmental Specialist						









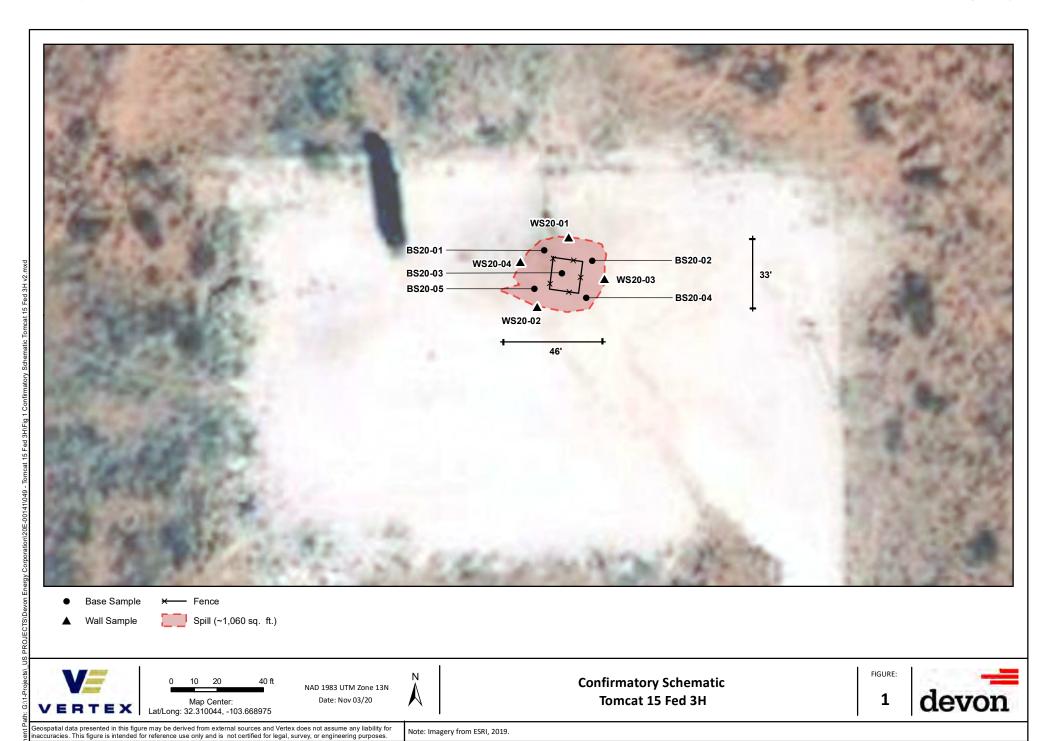






ATTACHMENT 2

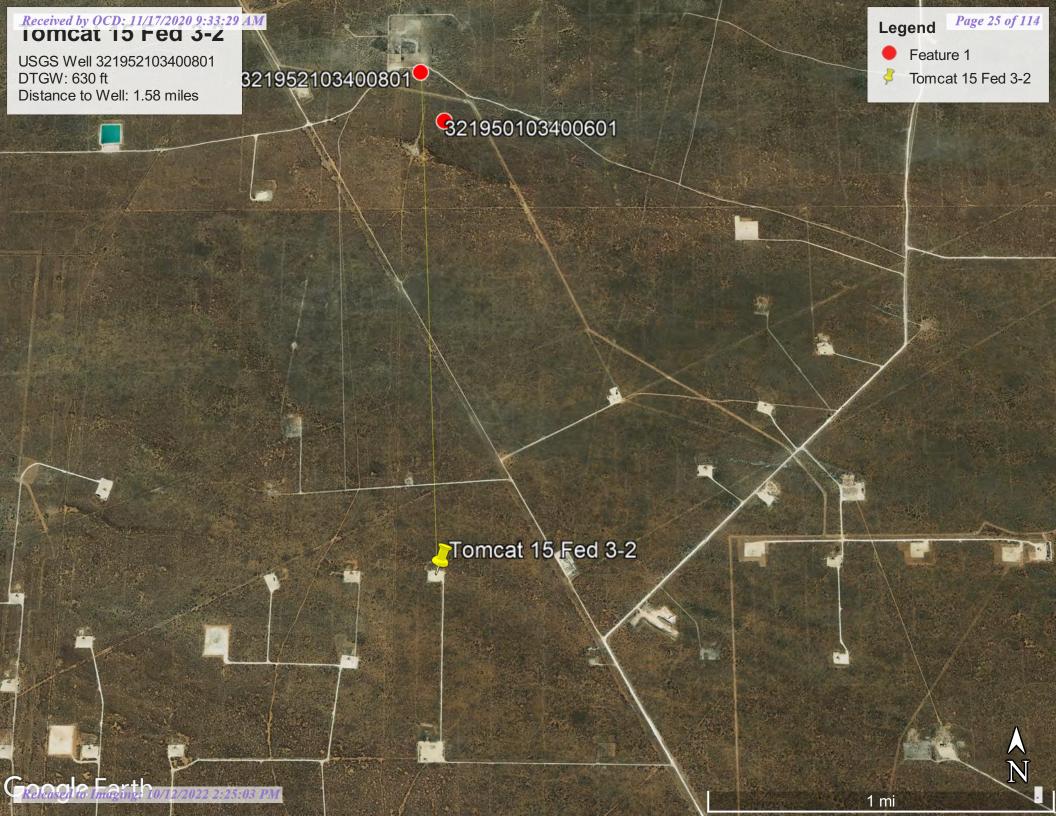
VERSATILITY. EXPERTISE.



Released to Imaging: 10/12/2022 2:25:03 PM

ATTACHMENT 3

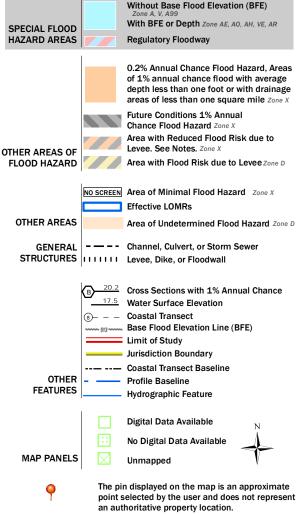
Closure (Criteria Determination Worksheet		
Site Nam	e: Tomcat 15 State 3		
Spill Coo	rdinates:	X: 32.31000	Y: -103.66890
Site Spec	ific Conditions	Value	Unit
1	Depth to Groundwater	< 50	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	25,125	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	8,850	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	30,388	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	12,450	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	46,650	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	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'



FEMA

Legend

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

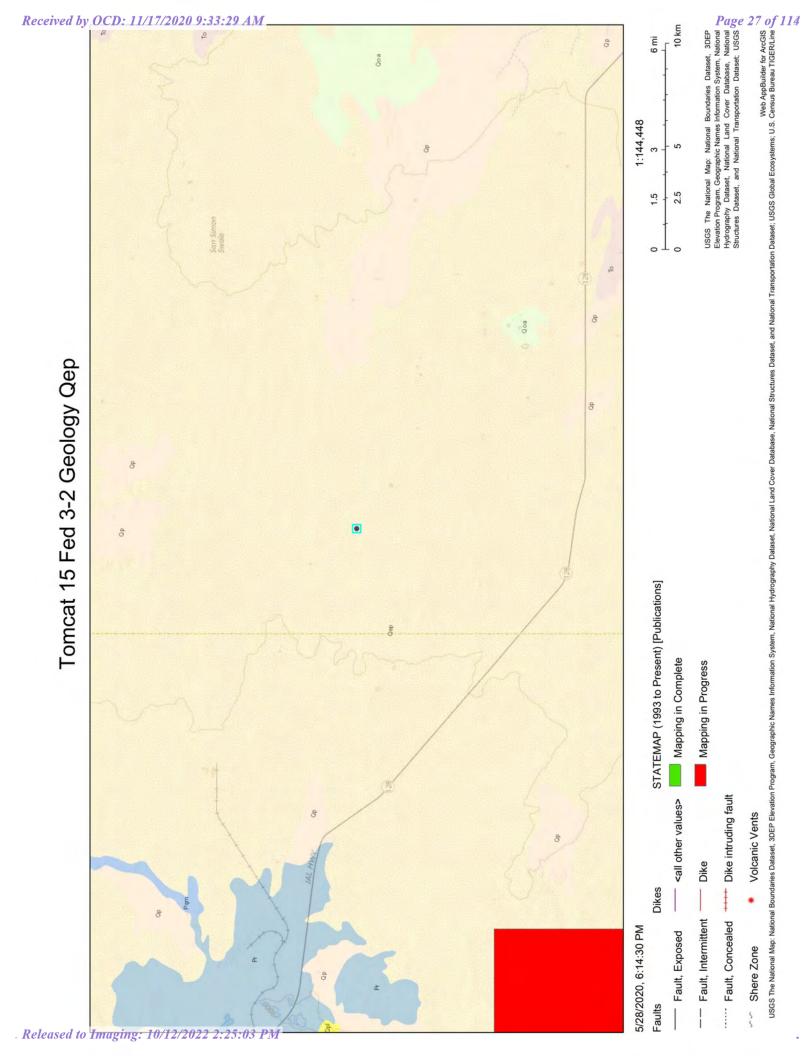


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/30/2020 at 10:05:35 AM 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.





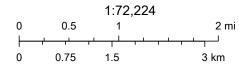
Active Mines near Tomcat 15 Fed 3



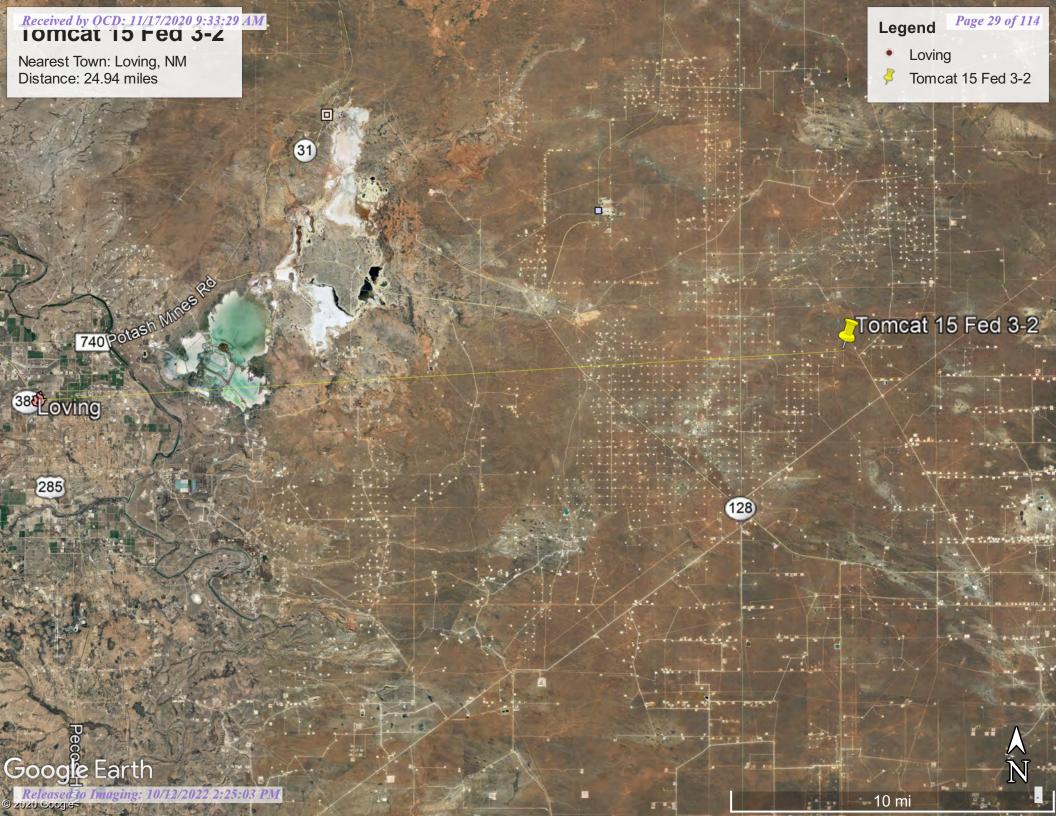
3/30/2020, 8:19:33 AM

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





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

C 03851 POD1

4 20 23S 32E

622880

3572660

Driller License: 1723

Driller Company:

SBQ2, LLC DBA STEWART BROTHERS DRILLING

CO.

Driller Name:

Drill Start Date:

08/19/2015

Drill Finish Date:

10/02/2015

Plug Date:

Log File Date:

11/10/2015

PCW Rcv Date:

Source:

Artesian

Pump Type:

Pipe Discharge Size:

Depth Well:

Estimated Yield: 3 GPM

Casing Size:

5.00

1392 feet

Depth Water:

713 feet

Water Bearing Stratifications:

Top Bottom Description

1354 1380 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

1383 1354

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.

10/21/20 5:03 PM

POINT OF DIVERSION SUMMARY

Page 31 of 114 Received by OCD: 11/17/2020 9:33:29 AM



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

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

	(acre ft	per annum)			C=the file is closed)	(quarters are	smallest	to largest)	(NAD83	UTM in meters)	
	Sub			Well		qqq					
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Tag	Code Grant	Source 6416 4	Sec Tw	s Rng	Х	Y	Distance
<u>C 02520</u>	C PRO	0 PENWELL ENERGY	LE <u>C 02520</u>			1 4	15 23	S 32E	626122	3574791*	1129
<u>C 02216</u>	CUB PLS	11.3 BRININSTOOL XL RANCH LLC	LE <u>C 02216</u>			2 2 4	21 23	S 32E	625035	3573261*	2331
<u>C 02349</u>	CUB STK	3 CHARLES F. JAMES	ED <u>C 02349</u>			2 3	03 23	S 32E	625678	3578004*	2456
<u>C 02445</u>	C STK	3 BUREAU OF LAND MANAGEMENT	LE <u>C 02445</u>			3 3 3	13 23	S 32E	628437	3574327*	3367
<u>C 03851</u>	CUB MON	0 US DEPARTMENT OF ENERGY	LE <u>C 03851 POD1</u>		NON	Artesian 3 3 4	20 23	S 32E	622879	3572660 🌑	3795

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 625309.51 Northing (Y): 3575575.8 Radius: 5000

Sorted by: Distance

*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.

ACTIVE & INACTIVE POINTS OF DIVERSION 3/30/20 8:03 AM Page 1 of 1



Tomcat 15 Fed 3: Pond 8,850 ft



March 30, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

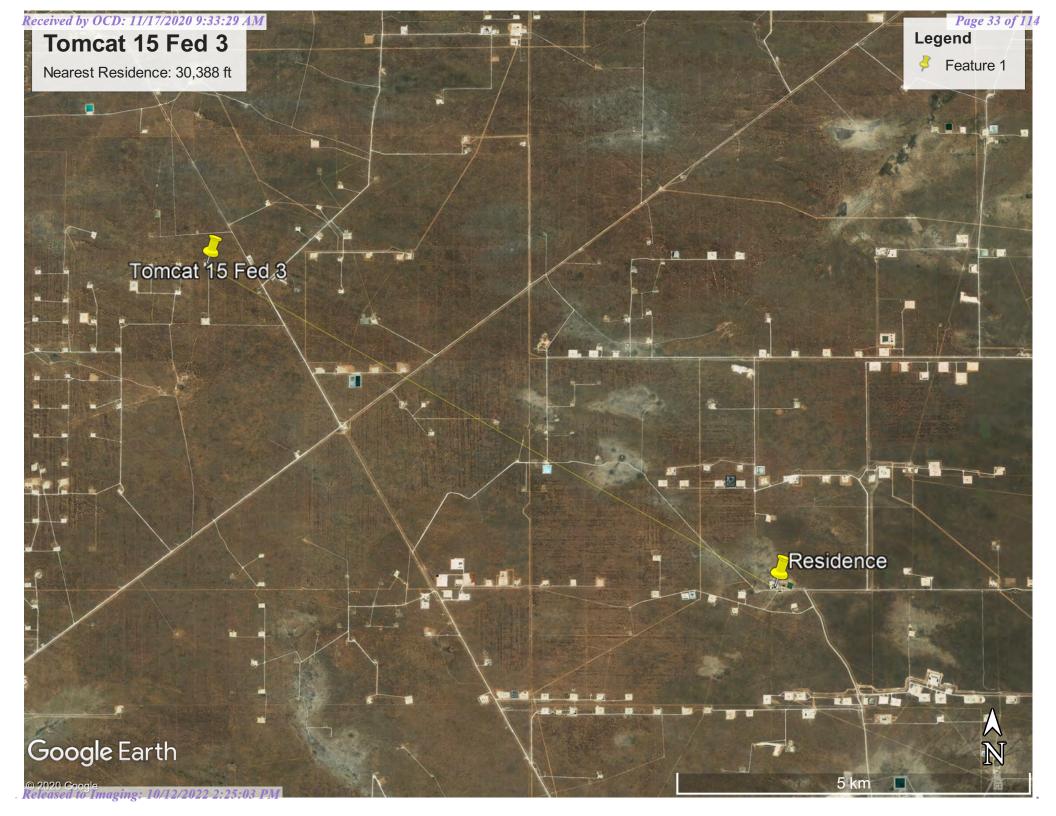
Lake

Other

Riverine

Other

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.





Soil Map—Lea County, New Mexico (Todd 15 Fed 3)

MAP LEGEND

â

0

Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

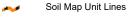
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

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

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: Lea County, New Mexico Survey Area Data: Version 16, 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.

Todd 15 Fed 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PT	Pyote loamy fine sand	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary

rock

Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: A

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 8 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Palomas

Percent of map unit: 7 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

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



National Water Information System: Web Interface

USGS Water Resources

USGS Home **Contact USGS** Search USGS

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

USGS 321732103401701 23S,32E.21.223444

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

Well Site

DESCRIPTION:

Latitude 32°17'32", Longitude 103°40'17" NAD27 Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: 550 feet

Land surface altitude: 3,682 feet above NAVD88.

Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1972-09-21	1976-12-07	2
Revisions	Unavailable (site:0) (timese	eries: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? Feedback on this web site Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes

Accessibility Plug-Ins

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

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321732103401701

Policies and Notices

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2020-05-28 20:23:19 EDT

0.32 0.3 caww01

News

USA.gov



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GC

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 321952103400801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321952103400801 23S.32E.03.311114

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83

Land-surface elevation 3,648.00 feet above NGVD29

The depth of the well is 630 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

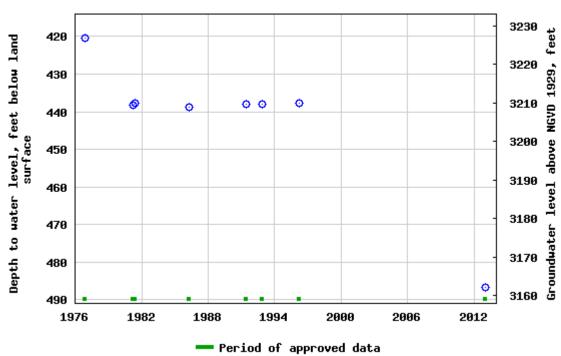
Output formats

Table of data	
Tab-separated data	

Graph of data

Reselect period

USGS 321952103400801 235.32E.03.311114



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site

Automated retrievals

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

News

Accessibility

FOIA

Privacy

Policies and Notices

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

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-10-21 19:08:06 EDT

0.61 0.52 nadww02





National Water Information System: Web Interface

USGS Water Resources

USGS Home **Contact USGS** Search USGS

Data Category: Site Information United States GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

USGS 321952103400801 23S.32E.03.311114

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

Well Site

DESCRIPTION:

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83 Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: 630 feet

Land surface altitude: 3,648.00 feet above NGVD29.

Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1976-12-09	2013-01-16	8
Revisions	Unavailable (site:0) (timese	eries: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? Feedback on this web site Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes

News

Accessibility Plug-Ins Privacy Policies and Notices

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

Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321952103400801

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2020-05-28 20:24:10 EDT

0.37 0.33 caww01





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 Sub-		Q	Q Q							Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
C 02216	CUB	LE	2 2	2 4	21	23S	32E	625035	3573261*	2331	585	400	185
<u>C 02349</u>	CUB	ED	2	2 3	03	23S	32E	625678	3578004* 🌍	2456	525		
C 03851 POD1	CUB	LE	3 3	3 4	20	23S	32E	622880	3572660 🌍	3795	1392	713	679

Average Depth to Water: 556 feet

> Minimum Depth: 400 feet

Maximum Depth: 713 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Radius: 5000 Easting (X): 625309.51 Northing (Y): 3575575.8

*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.



Tomcat 15 Fed 3: Flowing Water 25,125 ft



March 30, 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.

Page 46 of 114 Received by OCD: 11/17/2020 9:33:29 AM



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,

closed)

C=the file is

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD

Subqqq

Code basin County Source 6416 4 Sec Tws Rng

Distance Start Date Finish Date Date

Log File

Depth Depth Well Water Driller License

POD Number C 03851 POD1

LE Artesian 3 3 4 20 23S 32E

622880 3572660

3795 08/19/2015 10/02/2015 11/10/2015

713 STEWART, RANDAL P.

Number 1723

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 625309.51

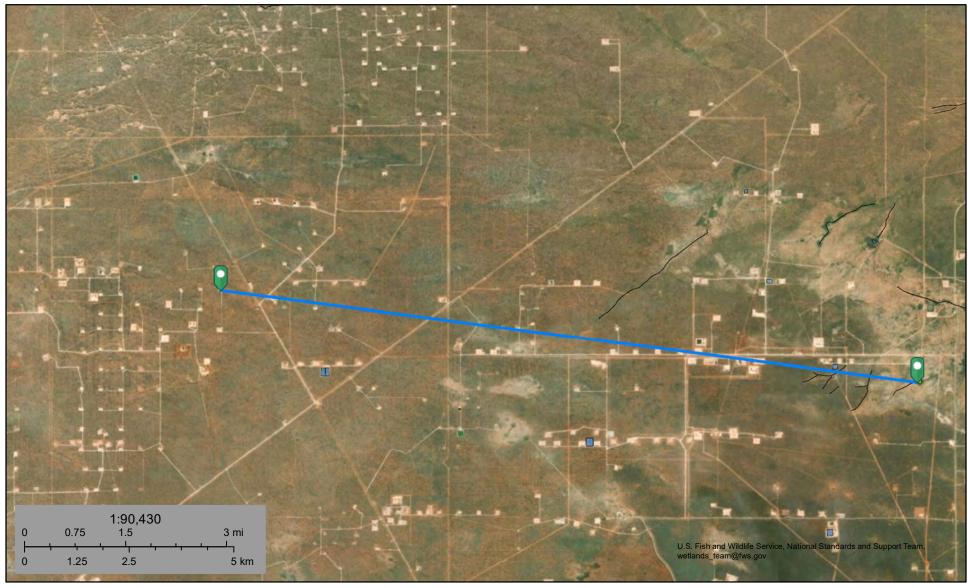
Northing (Y): 3575575.8

Radius: 5000

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.



Tomcat 15 Fed 3: Wetland 46,650 ft



March 30, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

Other

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.

This map is for general reference only. The US Fish and Wildlife

ATTACHMENT 4



Client: Devon Energy Inspection Date: 4/3/2020

Corporation

Site Location Name: Tomcat 15 Fed3-2 Report Run Date: 4/17/2020 10:50 PM

Project Owner: Amanda Davis File (Project) #: 20E-00141

Project Manager: Natalie Gordon API #: 30-025-35524

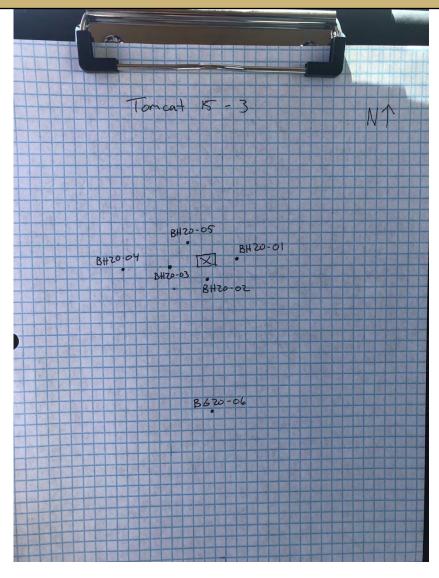
Client Contact Name: Amanda Davis Reference Spill 1RP-4182

Client Contact Phone #: (575) 748-0176

Summary of Times							
Left Office	4/3/2020 9:30 AM						
Arrived at Site	4/3/2020 11:00 AM						
Departed Site	4/3/2020 1:26 PM						
Returned to Office	4/3/2020 2:59 PM						



Site Sketch





Summary of Daily Operations

11:05 Fill out arrival and safety forms

Conduct characterization/delineation

Field screen

Record data

Demobilize

Next Steps & Recommendations

1 Confirmation samples

	Sampling								
Back	ground20-0)6							
	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 ppm			62 ppm		<	32.30957667, - 103.66919381	Yes
	0.5 ft.	0 ppm			57 ppm		/	32.30957667, - 103.66919381	Yes
BH2	0-01								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	O ft.	0 ppm			2248 ppm		<	32.31006317, - 103.66880869	Yes



ily Site	VISIC INC	Port					T.	VERTE
0.5 ft.	0 ppm			129 ppm		V	32.31006317, - 103.66880869	Yes
)-02			· I					l
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked Or Site Sketch
O ft.	0 ppm			3114 ppm		/	32.31004238, - 103.66896201	Yes
0.5 ft.	0 ppm			1177 ppm		V	32.31004238, - 103.66896201	Yes
)-03			<u> </u>	l l				
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked O
O ft.	0 ppm			612 ppm		V	32.31006170, - 103.66905170	Yes
0.5 ft.	0 ppm			91 ppm		V	32.31006170, - 103.66905170	Yes
D-04	l		1					l
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked O Site Sketcl
O ft.	0 ppm			486 ppm		V	32.31003552, - 103.66912844	Yes

Daily Site Visit Report

	1	V			
V	E	R	T	E	x

									VERTEX
	0.5 ft.	0 ppm			100 ppm		/	32.31003552, - 103.66912844	Yes
BH2	0-05								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	O ft.	0 ppm			725 ppm		<	32.31014056, - 103.66896832	Yes
	0.5 ft.	0 ppm			112 ppm		/	32.31014056, - 103.66896832	Yes



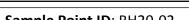
Site Photos

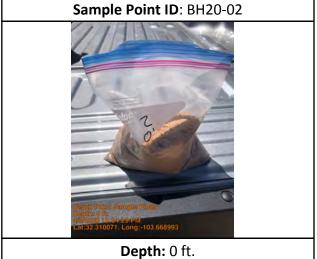




Depth Sample Photos







Sample Point ID: BH20-01

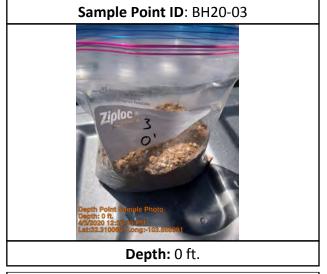


Depth: 0.5 ft.



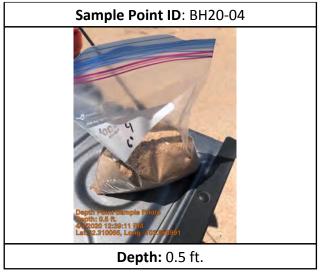
Run on 4/17/2020 10:50 PM UTC Powered by www.krinkleldar.com Page 7 of 10



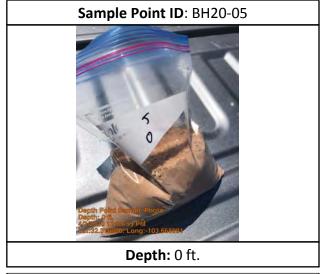






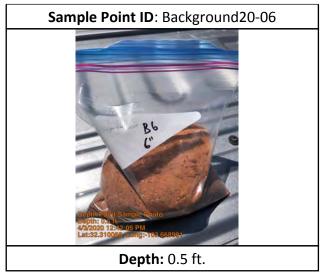














Daily Site Visit Signature

Inspector: Jason Crabtree

Signature:



Client:	Devon Energy Corporation	Inspection Date:	9/2/2020
Site Location Name:	Tomcat 15 Fed3-2	Report Run Date:	9/4/2020 4:14 PM
Client Contact Name:	Amanda Davis	API #:	30-025-35524
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID	-Tomcat 15 Fed3-2	— Project Owner:	Amanda Davis
Project Reference #	Spill 1RP-4182	Project Manager:	Natalie Gordon
		Summary of	Times
Arrived at Site	9/2/2020 8:35 AM		
Departed Site	9/2/2020 2:31 PM		

Field Notes

- 11:15 Complete additional excavation of areas which exceeded NM OCD criteria from the first sampling event.
- 11:16 Excavation of exceeded will be completed to one foot below ground surface. CCI Services will be conducting excavation.

Next Steps & Recommendations

- 1 Submit confirmation samples for lab analysis and await results.
- 2 Complete closure report if samples are below NM OCD criteria. If not complete additional remediation.



Site Photos





Final excavation









Daily Site Visit Signature

Inspector: Kevin Smith

Signature: Signature

	V	V			
V	E	R	T	E	×

spili kesp	onse ana							
Client:		Tie.	~ Éner	57	Initial Spill Information - Reco	ord on First Vis	iit	
Date:		9/2	120	, ,	Spill Date:			
Site Name:		Tome	~ Ener 120 at 15 Fe	8 A 003	Spill Volume:			
Site Location:	7.				Spill Cause:			
Project Owner:					Spill Product:			
Project Manager:					Recovered Spill Volume:			
Project #:		7.08	-14100-		Recovery Method:	art - 18 ger a Suffare	3.5 Apr 3	* X 34543 503
		1 1 250 000	Field Screening	Sampling	Data Collection	Check for Yes		S. A. A. Cartin
Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH (ppm)	Quantab (High/Low) + or -	Lab Analysis	Picture	Trimble Coordinates	Marked on Site Sketch
SS/TP/BH - Year - Number Ex. BH18-01	Ex. '2ft	Ex. 400 ppm	200 ppm	iz (Ex. High+	Ex. Hydrocarbon Chloride		*	
B520-01	1'		45	130				
B520-02 B520-02 B520-03 B520-04			29	196				
13520 -03			61	215			-	
B520 -04			50	160			-	-
B520 -05	1		47	110				
Superior Control						9		-
						W		
				reduction of		1 -		_
			12.0					
							_	
						1		
a service and	100 100 100	Saying j						
				1. () () () () () ()				
<u> </u>								
							ilion	
				• 5	re-		VET	
	Total Total Control	Para Para					-	
	_100		-				1	



Client:	Devon Energy Corporation	Inspection Date:	11/3/2020
Site Location Name:	Tomcat 15 Fed3-2	Report Run Date:	11/3/2020 8:30 PM
Client Contact Name:	Amanda Davis	API #:	30-025-35524
Client Contact Phone #:	(575) 748-0176		
Unique Project ID	-Tomcat 15 Fed3-2	Project Owner:	Amanda Davis
Project Reference #	Spill 1RP-4182	Project Manager:	Natalie Gordon
		Summary of	Times
Arrived at Site	11/3/2020 10:01 AM		
Departed Site	11/3/2020 12:13 PM		

Field Notes

13:26 Collect two sidewall confirmation samples to show that four sides of excavation sidewalks meet NMOCD criteria.

Next Steps & Recommendations

- 1 Submit samples for laboratory analysis and revise confirmation sample schematic.
- **2** Complete closure report.



Site Photos







Daily Site Visit Signature

Inspector: Kevin Smith

Signature: Signature

pill Respo			N)—		Initial Saill Lafe	SALL S		ERTI
Date:	L	11/18	4/22/0		Initial Spill Information	1 - Record on Firs	t Visit	
ite Name:		Devo- 11/04/2000 Jonat 15 Fed 3			Spill Date: Spill Volume:			
Site Location:			and the		Spill Cause:			-
Project Owner:				A 15 1 15 1	Spill Product:			
Project Manager:			The street		Recovered Spill Volume		-	MINIST N
Project #:			Section 1		Recovery Method:			eight de
			Field Screening	Sampling	Data Collec	tion (Check for Y	(os)	
				Quantab		TOTAL TOTAL	Trimble	
Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH (ppm)	All the second of the base of the second of	Lab Analysis	Picture		Marked Site Sket
Sample ID SS/TP/BH - Year - Number Ex. BH18-01	Depth (ft)	VOC (PID) Ex. 400 ppm	(ppm)	(High/Low) + or -	Lab Analysis Ex. Hydrocarbon Chloride	Picture	Coordinates	
SS/TP/BH - Year - Number Ex. BH18-01	Ex. '2ft		(ppm)	(High/Low) + or - Ex. 'High +	Ex. Hydrocarbon	Picture		
SS/TP/BH - Year - Number	Ex. '2ft		(ppm) 200 ppm	(High/Low) + or -	Ex. Hydrocarbon	Picture		Marked Site Sket

ATTACHMENT 5

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 30, 2020 4:24 PM

To: Natalie Gordon

Subject: Fwd: NJXK1604649303: Tomcat 15 Fed 3 - 48-hour Notification of Confirmation

Sampling

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

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Date: Fri, Oct 30, 2020 at 4:23 PM

Subject: Re: NJXK1604649303: Tomcat 15 Fed 3 - 48-hour Notification of Confirmation Sampling

To: Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us >, CFO_Spill, BLM_NM < blm_nm_cfo_spill@blm.gov >, Kelsey < KWade@blm.gov >, Amos, James A < Jamos@blm.gov >, < wesley.mathews@dvn.com >, < Lupe.Carrasco@dvn.com >,

<amanda.davis@dvn.com>, <tom.bynum@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled additional confirmatory sampling to be conducted at Tomcat 15 Fed 3 for the produced water release that occurred on February 12, 2016, incident tracking # nJXK1604649303.

This work will be completed on behalf of Devon Energy Production Company.

On Tuesday, November 3, 2020 at approximately 10:00 a.m., Kevin Smith of Vertex will be onsite to conduct additional confirmatory sampling of the sidewalls. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. 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

www.vertex.ca

On Mon, Aug 31, 2020 at 12:15 PM Dhugal Hanton < vertexresourcegroupusa@gmail.com> wrote: All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Tomcat 15 Fed 3 for the produced water release that occurred on February 12, 2016, incident tracking # nJXK1604649303.

This work will be completed on behalf of Devon Energy Production Company.

On Wednesday, September 2, 2020 at approximately 8:00 a.m., Kevin Smith of Vertex will be onsite using field screening methods to guide remediation activities. This work is expected to last one day. Kevin will conduct final confirmatory sampling as the remediation activities finish up, beginning in the afternoon around 1:00pm. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. 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

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, August 31, 2020 12:16 PM

To: Natalie Gordon

Subject: Fwd: NJXK1604649303: Tomcat 15 Fed 3 - 48-hour Notification of Confirmation

Sampling

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

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Date: Mon, Aug 31, 2020 at 12:15 PM

Subject: NJXK1604649303: Tomcat 15 Fed 3 - 48-hour Notification of Confirmation Sampling

 $\label{lem:cocd_spill_blm_gov} To: <\underline{OCD.Enviro@state.nm.us}, CFO_Spill, BLM_NM <\underline{blm_nm_cfo_spill@blm.gov}, Kelsey <\underline{KWade@blm.gov}, Amos, James A <\underline{Jamos@blm.gov}, <\underline{wesley.mathews@dvn.com}, <\underline{Lupe.Carrasco@dvn.com}, <\underline{amanda.davis@dvn.com}, <\underline{menda.davis@dvn.com}, <\underline{menda.davis@dvn$

<tom.bynum@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Tomcat 15 Fed 3 for the produced water release that occurred on February 12, 2016, incident tracking # nJXK1604649303.

This work will be completed on behalf of Devon Energy Production Company.

On Wednesday, September 2, 2020 at approximately 8:00 a.m., Kevin Smith of Vertex will be onsite using field screening methods to guide remediation activities. This work is expected to last one day. Kevin will conduct final confirmatory sampling as the remediation activities finish up, beginning in the afternoon around 1:00pm. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. 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

www.vertex.ca

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, May 13, 2020 11:40 AM

To: Natalie Gordon

Subject: Fwd: nJXK1604649303: Tomcat 15 Fed 3-2 - 48-hr Notification of Confirmatory

Sampling

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

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Date: Wed, May 13, 2020 at 11:39 AM

Subject: nJXK1604649303: Tomcat 15 Fed 3-2 - 48-hr Notification of Confirmatory Sampling

To: Bratcher, Mike, EMNRD < Mike.Bratcher@state.nm.us >, EMNRD-OCD-District1spills < emnrd-ocd-

district1spills@state.nm.us>, Amos, James A < Jamos@blm.gov>, Kelsey < KWade@blm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Tomcat 15 Fed 3-2 for incident number nJXK1604649303, DOR: 02/12/2016

This work will be completed on behalf of Devon Energy Production Company.

On Friday, May 15, 2020 at approximately 12:00 p.m., Kevin Smith of Vertex will be onsite to conduct confirmatory sampling for the above referenced releases. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. 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

ATTACHMENT 6

Client Name: Devon Energy Production Company

Site Name: Tomcat 15 Fed 3

NM OCD Incident Tracking Numbers: NJXK1604649303

Project #: 20E-00141-049

Lab Report: 2005802; 2009310; 2011387

		Table 2. Confirmat	tory Samplin	g Laboratory	Results - Dep	th to Ground	lwater < 50 fe	eet		
	Sample Description	n			Petro	oleum Hydroca	rbons			Inorganic
			Vol	atile			Extractable			illorganic
Sample ID	Depth (ft)	Sample Date	Benzene	ВТЕХ (Тоtal)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS20-01	0-0.5	May 15, 2020	<0.024	<0.213	<4.7	8	50	8	58	73
BS20-01	1	September 2, 2020	<0.024	<0.096	<4.8	<8.8	<44	<13.6	<57.6	180
BS20-02	0-0.5	May 15, 2020	<0.025	<0.224	<5.0	63	100	63	163	350
BS20-02	1	September 2, 2020	<0.023	<0.093	<4.7	<9.1	<45	<13.8	<58.8	250
BS20-03	0-0.5	May 15, 2020	<0.024	<0.215	<4.8	48	79	48	127	96
BS20-03	1	September 2, 2020	<0.024	<0.095	<4.7	<9.8	<49	<14.5	<63.5	190
BS20-04	0-0.5	May 15, 2020	<0.025	<0.225	<5.0	<8.6	<43	<13.6	<56.6	1,000
BS20-04	1	September 2, 2020	<0.024	<0.097	<4.8	<9.6	<48	<14.4	<62.4	<60
BS20-05	0-0.5	May 15, 2020	<0.023	<0.208	<4.6	22	77	22	99	92
BS20-05	1	September 2, 2020	<0.025	<0.098	<5.0	<9.5	<48	<14.5	<62.5	<60
WS20-01	0-1	September 2, 2020	<0.025	<0.097	<4.9	<8.4	<42	<13.3	<55.3	430
WS20-02	0-1	September 2, 2020	<0.024	<0.1	<4.8	<9.9	<49	<14.7	<63.7	280
WS20-03	0-1	November 3, 2020	<0.025	<0.222	<4.9	<9.2	<46	<14.1	<60.1	<60
WS20-04	0-1	November 3, 2020	<0.025	<0.225	<5.0	<9.6	<48	<14.6	<62.6	<60

[&]quot;-" - Not applicable/assessed

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria

Bold and green shaded indicates re-collection of sample previously in exceedance of NM OCD Closure Criteria



ATTACHMENT 7



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 Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Tomcat 15 Fed 3 OrderNo.: 2005802

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 5 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-01 0-6"

 Project:
 Tomcat 15 Fed 3
 Collection Date: 5/15/2020 12:55:00 PM

 Lab ID:
 2005802-001
 Matrix: SOIL
 Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	73	59	mg/Kg	20	5/23/2020 6:19:40 PM	52667
EPA METHOD 8015D MOD: GASOLINE RANGE	İ				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/21/2020 4:18:27 PM	52577
Surr: BFB	100	70-130	%Rec	1	5/21/2020 4:18:27 PM	52577
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	8.0	7.8	mg/Kg	1	5/23/2020 1:17:15 PM	52590
Motor Oil Range Organics (MRO)	50	39	mg/Kg	1	5/23/2020 1:17:15 PM	52590
Surr: DNOP	82.3	55.1-146	%Rec	1	5/23/2020 1:17:15 PM	52590
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	5/21/2020 4:18:27 PM	52577
Toluene	ND	0.047	mg/Kg	1	5/21/2020 4:18:27 PM	52577
Ethylbenzene	ND	0.047	mg/Kg	1	5/21/2020 4:18:27 PM	52577
Xylenes, Total	ND	0.095	mg/Kg	1	5/21/2020 4:18:27 PM	52577
Surr: 1,2-Dichloroethane-d4	92.8	70-130	%Rec	1	5/21/2020 4:18:27 PM	52577
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	5/21/2020 4:18:27 PM	52577
Surr: Dibromofluoromethane	93.7	70-130	%Rec	1	5/21/2020 4:18:27 PM	52577
Surr: Toluene-d8	100	70-130	%Rec	1	5/21/2020 4:18:27 PM	52577

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

Qualifiers:

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

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

Page 1 of 9

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-02 0-6"

 Project:
 Tomcat 15 Fed 3
 Collection Date: 5/15/2020 1:01:00 PM

 Lab ID:
 2005802-002
 Matrix: SOIL
 Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	350	60	mg/Kg	20	5/23/2020 6:56:55 PM	52667
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/21/2020 4:48:29 PM	52577
Surr: BFB	102	70-130	%Rec	1	5/21/2020 4:48:29 PM	52577
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	63	8.2	mg/Kg	1	5/23/2020 1:41:30 PM	52590
Motor Oil Range Organics (MRO)	100	41	mg/Kg	1	5/23/2020 1:41:30 PM	52590
Surr: DNOP	104	55.1-146	%Rec	1	5/23/2020 1:41:30 PM	52590
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	5/21/2020 4:48:29 PM	52577
Toluene	ND	0.050	mg/Kg	1	5/21/2020 4:48:29 PM	52577
Ethylbenzene	ND	0.050	mg/Kg	1	5/21/2020 4:48:29 PM	52577
Xylenes, Total	ND	0.099	mg/Kg	1	5/21/2020 4:48:29 PM	52577
Surr: 1,2-Dichloroethane-d4	92.6	70-130	%Rec	1	5/21/2020 4:48:29 PM	52577
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	5/21/2020 4:48:29 PM	52577
Surr: Dibromofluoromethane	95.7	70-130	%Rec	1	5/21/2020 4:48:29 PM	52577
Surr: Toluene-d8	101	70-130	%Rec	1	5/21/2020 4:48:29 PM	52577

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

Qualifiers:

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

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

Page 2 of 9

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-03 0-6"

 Project:
 Tomcat 15 Fed 3
 Collection Date: 5/15/2020 1:08:00 PM

 Lab ID:
 2005802-003
 Matrix: SOIL
 Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	96	61	mg/Kg	20	5/23/2020 7:09:20 PM	52667
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/21/2020 6:16:23 PM	52577
Surr: BFB	101	70-130	%Rec	1	5/21/2020 6:16:23 PM	52577
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	48	8.5	mg/Kg	1	5/23/2020 2:05:44 PM	52590
Motor Oil Range Organics (MRO)	79	42	mg/Kg	1	5/23/2020 2:05:44 PM	52590
Surr: DNOP	115	55.1-146	%Rec	1	5/23/2020 2:05:44 PM	52590
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	5/21/2020 6:16:23 PM	52577
Toluene	ND	0.048	mg/Kg	1	5/21/2020 6:16:23 PM	52577
Ethylbenzene	ND	0.048	mg/Kg	1	5/21/2020 6:16:23 PM	52577
Xylenes, Total	ND	0.095	mg/Kg	1	5/21/2020 6:16:23 PM	52577
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%Rec	1	5/21/2020 6:16:23 PM	52577
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/21/2020 6:16:23 PM	52577
Surr: Dibromofluoromethane	96.8	70-130	%Rec	1	5/21/2020 6:16:23 PM	52577
Surr: Toluene-d8	102	70-130	%Rec	1	5/21/2020 6:16:23 PM	52577

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

Qualifiers:

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

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

Page 3 of 9

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-04 0-6"

 Project:
 Tomcat 15 Fed 3
 Collection Date: 5/15/2020 1:14:00 PM

 Lab ID:
 2005802-004
 Matrix: SOIL
 Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1000	60	mg/Kg	20	5/23/2020 7:21:45 PM	52667
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/21/2020 6:45:35 PM	52577
Surr: BFB	102	70-130	%Rec	1	5/21/2020 6:45:35 PM	52577
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	5/23/2020 2:30:07 PM	52590
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/23/2020 2:30:07 PM	52590
Surr: DNOP	69.4	55.1-146	%Rec	1	5/23/2020 2:30:07 PM	52590
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	5/21/2020 6:45:35 PM	52577
Toluene	ND	0.050	mg/Kg	1	5/21/2020 6:45:35 PM	52577
Ethylbenzene	ND	0.050	mg/Kg	1	5/21/2020 6:45:35 PM	52577
Xylenes, Total	ND	0.10	mg/Kg	1	5/21/2020 6:45:35 PM	52577
Surr: 1,2-Dichloroethane-d4	95.8	70-130	%Rec	1	5/21/2020 6:45:35 PM	52577
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	5/21/2020 6:45:35 PM	52577
Surr: Dibromofluoromethane	94.2	70-130	%Rec	1	5/21/2020 6:45:35 PM	52577
Surr: Toluene-d8	101	70-130	%Rec	1	5/21/2020 6:45:35 PM	52577

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

Qualifiers:

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

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

Page 4 of 9

Date Reported: 5/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-05 0-6"

 Project:
 Tomcat 15 Fed 3
 Collection Date: 5/15/2020 1:21:00 PM

 Lab ID:
 2005802-005
 Matrix: SOIL
 Received Date: 5/19/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	92	60	mg/Kg	20	5/23/2020 7:34:09 PM	52667
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/21/2020 7:14:53 PM	52577
Surr: BFB	99.7	70-130	%Rec	1	5/21/2020 7:14:53 PM	52577
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	22	8.0	mg/Kg	1	5/23/2020 2:54:18 PM	52590
Motor Oil Range Organics (MRO)	77	40	mg/Kg	1	5/23/2020 2:54:18 PM	52590
Surr: DNOP	112	55.1-146	%Rec	1	5/23/2020 2:54:18 PM	52590
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	5/21/2020 7:14:53 PM	52577
Toluene	ND	0.046	mg/Kg	1	5/21/2020 7:14:53 PM	52577
Ethylbenzene	ND	0.046	mg/Kg	1	5/21/2020 7:14:53 PM	52577
Xylenes, Total	ND	0.093	mg/Kg	1	5/21/2020 7:14:53 PM	52577
Surr: 1,2-Dichloroethane-d4	94.9	70-130	%Rec	1	5/21/2020 7:14:53 PM	52577
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	5/21/2020 7:14:53 PM	52577
Surr: Dibromofluoromethane	96.2	70-130	%Rec	1	5/21/2020 7:14:53 PM	52577
Surr: Toluene-d8	103	70-130	%Rec	1	5/21/2020 7:14:53 PM	52577

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

Qualifiers:

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

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

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005802**

26-May-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

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: Ics 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

26-May-20

2005802

WO#:

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: LCS-52590 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 52590 RunNo: 69011

Prep Date: 5/20/2020 Analysis Date: 5/21/2020 SeqNo: 2392468 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 47 50.00 94.9 70 130 Surr: DNOP 3.0 5.000 60.1 55.1 146

Sample ID: MB-52590 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 52590 RunNo: 69011

Prep Date: 5/20/2020 Analysis Date: 5/21/2020 SeqNo: 2392474 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 7.1 10.00 71.4 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

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005802**

26-May-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: mb-52577 SampType: MBLK				TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch ID: 52577			F	RunNo: 6					
Prep Date: 5/19/2020	Analysis Date: 5/21/2020		5	SeqNo: 2392357 Units: mg/K			g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 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	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	chQC Batch ID: 52577				RunNo: 69081						
Prep Date: 5/19/2020	Analysis D	Date: 5/ 2	21/2020	5	SeqNo: 2:	392358	(g				
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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

O#: **2005802 26-May-20**

WO#:

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: 2005802-002ams

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 O 95.7 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range

Surr: BFB 520 500.0 104 70 130

Client ID: BS20-02 0-6" Batch ID: 52577 RunNo: 69081

SampType: MS

Prep Date: 5/19/2020 Analysis Date: 5/21/2020 SeqNo: 2392390 Units: mg/Kg

Trep Date. 3/19/2020 Analysis Date. 3/21/2020 Seq. 2392390 Offics. Ing/kg

Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 4.9 24.30 0 102 70 130

Surr: BFB 490 485.9 102 70 130

Sample ID: 2005802-002amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: BS20-02 0-6" Batch ID: 52577 RunNo: 69081

Prep Date: 5/19/2020 Analysis Date: 5/21/2020 SeqNo: 2392391 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 24 24.22 100 70 1.95 4.8 130 20 Surr: BFB 500 484.5 103 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 9



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 Num	ber: 2005802		RcptNo: 1
Received By:	Isaiah Ortiz	5/19/2020 9:30:00	АМ	I_0	4
Completed By:	Isaiah Ortiz	5/19/2020 9:45:55	AM	INO	K
Reviewed By:	DAD 5/19/20				***
Chain of Cus	stody				
1. Is Chain of C	custody complete?		Yes 🗸	No 🗆	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	mpt made to cool the samp	bles?	Yes 🗸	No 🗆	NA 🗆
4. Were all sam	ples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗆	
6. Sufficient san	nple volume for indicated t	est(s)?	Yes 🗸	No 🗌	
7. Are samples	(except VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗆	
8. Was preserva	ative added to bottles?		Yes	No 🗸	NA 🗆
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
10. Were any sai	mple containers received t	oroken?	Yes	No 🗸	# of preserved
	ork match bottle labels? ancies on chain of custody	()	Yes 🔽	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
12, Are matrices	correctly identified on Cha	in of Custody?	Yes 🗸	No 🗌	Adjusted?
	it analyses were requested	1?	Yes 🔽	No 🗌	/
	ing times able to be met? sustomer for authorization.		Yes 🔽	No 🗆	checked by: 8M 5/19/2
	ling (if applicable) otified of all discrepancies	with this order?	Yes	No 🗆	NA 🗹
	Notified:	Date			107 43
By Who		Via:		Phone Fax	In Person
Regard	*	VIO.	Civian	Thorie Tax	III Pelson
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nstructions:				
16. Additional re	emarks:				
17. Cooler Info	rmation				
Cooler No		Seal Intact Seal No	Seal Date	Signed By	
1	1.0 Good	Not Present			

205 415 4107 Tel. 505-345-3975
Sanit
Preservative
Type
Via: Date Time Remarks: (ATM WARLIE
Via: Date Time Remarks: Via: Date Time Remarks: Via: Date Time Remarks: Via: Date Time
Via: Date Time Remarks: Copy Watchir
Via: Date Time Remarks: Capy Warkhir Via: Date Time
Via: Date Time Remarks: (1774 Markelit
Via: Date Time Remarks: CAPY Wartabit Via: Date Time
Via: Date Time Remarks: Copy Markelit



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

September 15, 2020

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

FAX:

RE: Tomcat 15 Fed 3 OrderNo.: 2009310

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/4/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-01 1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:05:00 PM

 Lab ID:
 2009310-001
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/9/2020 6:53:54 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/9/2020 6:53:54 AM
Surr: DNOP	101	30.4-154	%Rec	1	9/9/2020 6:53:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/9/2020 6:38:10 PM
Surr: BFB	96.1	75.3-105	%Rec	1	9/9/2020 6:38:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/9/2020 6:38:10 PM
Toluene	ND	0.048	mg/Kg	1	9/9/2020 6:38:10 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/9/2020 6:38:10 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/9/2020 6:38:10 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/9/2020 6:38:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	9/12/2020 12:00:06 PM

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

Qualifiers:

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

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

Page 1 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-02 1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:10:00 PM

 Lab ID:
 2009310-002
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	9/9/2020 7:17:34 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/9/2020 7:17:34 AM
Surr: DNOP	98.6	30.4-154	%Rec	1	9/9/2020 7:17:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/9/2020 7:01:44 PM
Surr: BFB	95.5	75.3-105	%Rec	1	9/9/2020 7:01:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	9/9/2020 7:01:44 PM
Toluene	ND	0.047	mg/Kg	1	9/9/2020 7:01:44 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/9/2020 7:01:44 PM
Xylenes, Total	ND	0.093	mg/Kg	1	9/9/2020 7:01:44 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/9/2020 7:01:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	9/12/2020 1:02:08 PM

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

Qualifiers:

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

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

Page 2 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-03 1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:15:00 PM

 Lab ID:
 2009310-003
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2020 7:41:13 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2020 7:41:13 AM
Surr: DNOP	98.9	30.4-154	%Rec	1	9/9/2020 7:41:13 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/9/2020 8:12:34 PM
Surr: BFB	95.2	75.3-105	%Rec	1	9/9/2020 8:12:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/9/2020 8:12:34 PM
Toluene	ND	0.047	mg/Kg	1	9/9/2020 8:12:34 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/9/2020 8:12:34 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/9/2020 8:12:34 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/9/2020 8:12:34 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	190	60	mg/Kg	20	9/12/2020 1:14:32 PM

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

Qualifiers:

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

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

Page 3 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-04 1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:20:00 PM

 Lab ID:
 2009310-004
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/9/2020 8:04:36 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/9/2020 8:04:36 AM
Surr: DNOP	95.8	30.4-154	%Rec	1	9/9/2020 8:04:36 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/9/2020 8:36:02 PM
Surr: BFB	94.1	75.3-105	%Rec	1	9/9/2020 8:36:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/9/2020 8:36:02 PM
Toluene	ND	0.048	mg/Kg	1	9/9/2020 8:36:02 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/9/2020 8:36:02 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/9/2020 8:36:02 PM
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	9/9/2020 8:36:02 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/12/2020 1:26:56 PM

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

Qualifiers:

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

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

Page 4 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS20-01 0-1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:25:00 PM

 Lab ID:
 2009310-005
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	9/8/2020 1:18:23 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	9/8/2020 1:18:23 PM
Surr: DNOP	102	30.4-154	%Rec	1	9/8/2020 1:18:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/9/2020 9:46:34 PM
Surr: BFB	92.7	75.3-105	%Rec	1	9/9/2020 9:46:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	9/9/2020 9:46:34 PM
Toluene	ND	0.049	mg/Kg	1	9/9/2020 9:46:34 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/9/2020 9:46:34 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/9/2020 9:46:34 PM
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	9/9/2020 9:46:34 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/12/2020 1:39:21 PM

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

Qualifiers:

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

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

Page 5 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS20-02 0-1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:30:00 PM

 Lab ID:
 2009310-006
 Matrix: SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	27	9.9	mg/Kg	1	9/8/2020 2:32:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/8/2020 2:32:14 PM
Surr: DNOP	103	30.4-154	%Rec	1	9/8/2020 2:32:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/9/2020 10:57:00 PM
Surr: BFB	94.0	75.3-105	%Rec	1	9/9/2020 10:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/9/2020 10:57:00 PM
Toluene	ND	0.048	mg/Kg	1	9/9/2020 10:57:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/9/2020 10:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/9/2020 10:57:00 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/9/2020 10:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	430	60	mg/Kg	20	9/12/2020 1:51:46 PM

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

Qualifiers:

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

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

Page 6 of 14

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS20-05 1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 9/2/2020 2:35:00 PM

 Lab ID:
 2009310-007
 Matrix:
 SOIL
 Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/8/2020 2:56:11 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/8/2020 2:56:11 PM
Surr: DNOP	101	30.4-154	%Rec	1	9/8/2020 2:56:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/10/2020 12:07:28 AM
Surr: BFB	93.4	75.3-105	%Rec	1	9/10/2020 12:07:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2020 12:07:28 AM
Toluene	ND	0.050	mg/Kg	1	9/10/2020 12:07:28 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/10/2020 12:07:28 AM
Xylenes, Total	ND	0.10	mg/Kg	1	9/10/2020 12:07:28 AM
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	9/10/2020 12:07:28 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	280	60	mg/Kg	20	9/12/2020 2:04:10 PM

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

Qualifiers:

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

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

Page 7 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009310**

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: MB-55114 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55114 RunNo: 71818

Prep Date: 9/11/2020 Analysis Date: 9/12/2020 SeqNo: 2513250 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-55114 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55114 RunNo: 71818

Prep Date: 9/11/2020 Analysis Date: 9/12/2020 SeqNo: 2513251 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 14

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 9/8/2020

PQL

9.2

Result

43

4.5

WO#: **2009310**

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: MB-54981	SampT	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 54 9	981	F	RunNo: 7	1691				
Prep Date: 9/5/2020	Analysis D	ate: 9/	8/2020	S	SeqNo: 2	507305	Units: mg/k	(g		
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	11		10.00		110	30.4	154			
Sample ID: LCS-54981	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	Satch ID: 54981 RunNo: 71691								
Prep Date: 9/5/2020	Analysis D	ate: 9/	8/2020	S	SeqNo: 2	507306	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	70	130			
Surr: DNOP	5.2		5.000		105	30.4	154			
Sample ID: 2009310-005AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: WS20-01 0-1'	Batch	ID: 54 9	981	F	RunNo: 7	1691				
Prep Date: 9/5/2020	Analysis D	ate: 9/	8/2020	8	SeqNo: 2	507308	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	8.9	44.33	0	95.1	47.4	136			
Surr: DNOP	4.4		4.433		100	30.4	154			
Sample ID: 2009310-005AMSI	S ampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	·
Client ID: WS20-01 0-1'	Batch	ID: 54 9	981	RunNo: 71691						

Sample ID: MB-54972	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 54 9	972	F	RunNo: 7	1691					
Prep Date: 9/5/2020	Analysis D	ate: 9/	8/2020	SeqNo: 2507329 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	9.4		10.00		94.5	30.4	154				

0

SPK value SPK Ref Val

46.17

4.617

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Prep Date: 9/5/2020

Diesel Range Organics (DRO)

Analyte

Surr: DNOP

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

SeqNo: 2507310

LowLimit

47.4

30.4

%REC

93.4

96.7

Units: mg/Kg

136

154

%RPD

2.25

0

RPDLimit

43.4

0

Qual

HighLimit

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

Page 9 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009310**

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: LCS-54972 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54972 RunNo: 71691

Prep Date: 9/5/2020 Analysis Date: 9/8/2020 SeqNo: 2507330 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 46
 10
 50.00
 0
 92.5
 70
 130

 Surr: DNOP
 4.6
 5.000
 92.1
 30.4
 154

Qualifiers:

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

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

Page 10 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009310

15-Sep-20

Client: Devon Energy Project: Tomcat 15 Fed 3

Sample ID: mb-54967 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 54967 RunNo: 71708 Prep Date: Analysis Date: 9/9/2020 SeqNo: 2508112 9/4/2020 Units: mq/Kq SPK value SPK Ref Val %REC **RPDLimit** LowLimit HighLimit %RPD Qual

Analyte Result PQL Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 94.7 75.3 105

Sample ID: Ics-54967 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54967 RunNo: 71708

Prep Date: 9/4/2020 SeqNo: 2508113 Units: mg/Kg Analysis Date: 9/9/2020

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 82.1 72.5 106 Surr: BFB 1000 1000 104 75.3 105

Sample ID: mb-54978 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54978 RunNo: 71708

Prep Date: 9/5/2020 Analysis Date: 9/10/2020 SeqNo: 2508136 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 930 1000 93.0 75.3 105

Sample ID: Ics-54978 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54978 RunNo: 71708

Prep Date: 9/5/2020 Analysis Date: 9/9/2020 SeqNo: 2508137 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 20 79.3 5.0 25.00 72.5 106

Surr: BFB 1000 1000 102 75.3 105

Sample ID: 2009310-006ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS20-02 0-1 Batch ID: 54978 RunNo: 71708

Units: mg/Kg Prep Date: 9/5/2020 Analysis Date: 9/9/2020 SegNo: 2508140

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.9 0 61.3 19 24.46 78.2 114 Surr: BFB 1000 978.5 103 75.3 105

Sample ID: 2009310-006amsd TestCode: EPA Method 8015D: Gasoline Range SampType: MSD

Client ID: WS20-02 0-1' Batch ID: 54978 RunNo: 71708

Prep Date: 9/5/2020 SeqNo: 2508141 Units: mg/Kg Analysis Date: 9/9/2020

HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit Qual

Qualifiers:

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

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

Page 11 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009310**

Qual

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: 2009310-006amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS20-02 0-1' Batch ID: 54978 RunNo: 71708

Prep Date: 9/5/2020 Analysis Date: 9/9/2020 SeqNo: 2508141 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Result 0 61.3 0.292 20 Gasoline Range Organics (GRO) 19 4.8 23.97 80.0 114 Surr: BFB 990 958.8 103 75.3 105 0 0

Qualifiers:

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

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

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009310**

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: mb-54967	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batch	ID: 54 9	967	F	RunNo: 71708					
Prep Date: 9/4/2020	Analysis D	ate: 9/	9/2020	SeqNo: 2508158 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	0.99		1.000		98.8	80	120			

Sample ID: LCS-54967	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	n ID: 54 9	967	RunNo: 71708								
Prep Date: 9/4/2020	Analysis D	Date: 9/9	9/2020	8	SeqNo: 2	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.87	0.025	1.000	0	87.1	80	120					
Toluene	0.88	0.050	1.000	0	87.5	80	120					
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120					
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120					

Sample ID: mb-54978	SampT	ype: ME	e: MBLK TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 54 9	978	F	RunNo: 7	1708				
Prep Date: 9/5/2020	Analysis D	oate: 9/	10/2020	8	SeqNo: 2	508182	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	0.99		1.000		98.9	80	120			

Sample ID: LCS-54978	SampT	Type: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: 54 9	978	F	RunNo: 7	1708				
Prep Date: 9/5/2020	Analysis Date: 9/9/2020 SeqNo: 2508183 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.92	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009310**

15-Sep-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: 2009310-005ams Client ID: WS20-01 0-1' Prep Date: 9/5/2020	·	Гуре: MS h ID: 54 9 Date: 9/ 9		F	tCode: El RunNo: 7 SeqNo: 2	1708	8021B: Volat			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9881	0	85.5	76.3	120			
Toluene	0.86	0.049	0.9881	0	87.1	78.5	120			
Ethylbenzene	0.86	0.049	0.9881	0	87.3	78.1	124			
Xylenes, Total	2.6	0.099	2.964	0	88.1	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9881		98.8	80	120			

Sample ID: 2009310-005ams	TestCode: EPA Method 8021B: Volatiles										
Client ID: WS20-01 0-1'	Batch	n ID: 54 9	978	RunNo: 71708							
Prep Date: 9/5/2020	S	SeqNo: 2	508186	Units: mg/k							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.024	0.9569	0	89.7	76.3	120	1.55	20		
Toluene	0.86	0.048	0.9569	0	89.9	78.5	120	0.0214	20		
Ethylbenzene	0.87	0.048	0.9569	0	90.6	78.1	124	0.513	20		
Xylenes, Total	2.6	0.096	2.871	0	91.9	79.3	125	1.02	20		
Surr: 4-Bromofluorobenzene	0.98		0.9569		102	80	120	0	0		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 14 of 14



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

Sample Log-In Check List

Client Name: Devon Energy Work Order Numb						9310		Rcpti	RcptNo: 1		
Received By:	Cheyenne	Cason	9/4/202	0 8:00:00 A	M						
Completed By:	Juan Roja	ıs	9/4/202	0 9:08:38 A	M		Hansa	9			
Reviewed By:	B		9/9	1/20							
Chain of Cu	stody										
1. Is Chain of C	Custody comp	lete?			Yes	V	No 🗆	Not Present]		
2. How was the	e sample deliv	ered?			Cou	<u>rier</u>					
Log In											
3. Was an atte	mpt made to c	ool the samp	les?		Yes	V	No 🗆	NA □]:		
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗆	NA □			
5 Comple(a) in		(-)0					N- F	1			
5. Sample(s) in	proper contai	ner(s)?			Yes	V	No L	J			
6. Sufficient sar	mple volume f	or indicated te	est(s)?		Yes	~	No 🗌				
7. Are samples	(except VOA	and ONG) pro	operly preserve	ed?	Yes	V	No 🗌				
8. Was preserve	ative added to	bottles?			Yes		No 🗸	NA 🗌			
9. Received at I	east 1 vial witl	n headspace	<1/4" for AQ \	OA?	Yes		No 🗌	NA 🗹	/		
10. Were any sa	mple containe	ers received b	roken?		Yes		No 🗸	# of preserved			
No. of the		50.0.03						bottles checked			
11. Does paperw (Note discrete	ork match bot pancies on cha)		Yes	V	No 🗌	and the same of th	or >12 unless noted)		
12. Are matrices					Yes	V	No 🗌	/			
13. Is it clear wha	at analyses we	ere requested	?		Yes	V	No 🗌		a 1 1=		
14. Were all hold					Yes	V	No 🗌	Checked by:	Em 9/4/20		
(If no, notify o	customer for a	uthorization.)									
Special Hand	ling (if app	licable)									
15. Was client n	otified of all di	screpancies v	with this order?	?	Yes		No 🗆	NA ✓	1		
Persor	Notified:			Date				1			
By Wh	om:			Via:	☐ eM	ail 🗌	Phone Fa	ax 🗌 In Person			
Regard											
Client	Instructions:										
16. Additional re	emarks:										
17. Cooler Info	rmation										
Cooler No	o Temp ℃	Condition	Seal Intact	Seal No	Seal D	ate	Signed By				
1	3.2	Good									

Received by OCD: 11/17/2020 9:33:29 AM Page 104 of 114 340.2=3.25 and report to Natalic Cordon **ANALYSIS LABORATORY** HALL ENVIRONMENTAL Page 1 of 1 f necessary, samples submitted to Hall EMironmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) Bill Devon (AOV-im92) 07S8 (AOV) 09S8 € E' BL' NO3, NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS 34-0. = 34.0. H.O. -0.2 = 3.5 EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (OAM \ OAG \ OAG)G\$108:H97 X MTBE / TMB's (8021) \\X\\ 5 Day Turnarous ပ္ 320 CONTROPPED 7 00 43 10 Time 400-200 000 700 9/3/10 lomcat 15 Fed 3 -003 Pinne 700-9/4/60 70848467 Date **%**□ Natalie Gordon Cooler Temp(including CF) Sampler: New Smith □ Rush Preservative Down ce 应 Yes Via: Type Turn-Around Time: Project Manager: # of Coolers: 2 Project Name: Standard
 Standard Type and # I PAMA P 408 in Received by: Received by: Container Project #: M -1-0 ☐ Level 4 (Full Validation) --0 Chain-of-Custody Record Sample Name 45/20-05 Energy BS20-03 10-085 M BS30-04 WS20-02 BS20-02 B520-01 PUMMINUM ! □ Az Compliance Relinquished by: Relinquished by: levon □ Other 0 Matrix 50,1 Mailing Address: 5:33 QA/QC Package: 2:25 1:38 □ EDD (Type) 9/2/201/108 email or Fax#: Time Accreditation: Time: Time: □ Standard □ NELAC Phone #: Client: Date Date:



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

November 13, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Tomcat 15 Fed 3 OrderNo.: 2011387

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/6/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Devon Energy

Analytical Report

Lab Order **2011387**Date Reported: **11/13/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS20-03 0-1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 11/3/2020 11:45:00 AM

 Lab ID:
 2011387-001
 Matrix: SOIL
 Received Date: 11/6/2020 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	11/12/2020 5:53:53 PM	56400
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/11/2020 5:39:17 PM	56302
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/11/2020 5:39:17 PM	56302
Surr: DNOP	18.4	30.4-154	S	%Rec	1	11/11/2020 5:39:17 PM	56302
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2020 1:08:29 PM	56283
Surr: BFB	93.5	75.3-105		%Rec	1	11/11/2020 1:08:29 PM	56283
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	11/11/2020 1:08:29 PM	56283
Toluene	ND	0.049		mg/Kg	1	11/11/2020 1:08:29 PM	56283
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2020 1:08:29 PM	56283
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2020 1:08:29 PM	56283
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/11/2020 1:08:29 PM	56283

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

Qualifiers:

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

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

Page 1 of 6

Analytical Report

Lab Order **2011387**

Date Reported: 11/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS20-04 0-1'

 Project:
 Tomcat 15 Fed 3
 Collection Date: 11/3/2020 11:55:00 AM

 Lab ID:
 2011387-002
 Matrix: SOIL
 Received Date: 11/6/2020 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60		mg/Kg	20	11/12/2020 6:31:08 PM	56400
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2020 6:03:11 PM	56302
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2020 6:03:11 PM	56302
Surr: DNOP	20.3	30.4-154	S	%Rec	1	11/11/2020 6:03:11 PM	56302
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2020 1:32:01 PM	56283
Surr: BFB	95.1	75.3-105		%Rec	1	11/11/2020 1:32:01 PM	56283
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	11/11/2020 1:32:01 PM	56283
Toluene	ND	0.050		mg/Kg	1	11/11/2020 1:32:01 PM	56283
Ethylbenzene	ND	0.050		mg/Kg	1	11/11/2020 1:32:01 PM	56283
Xylenes, Total	ND	0.10		mg/Kg	1	11/11/2020 1:32:01 PM	56283
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/11/2020 1:32:01 PM	56283

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

Qualifiers:

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

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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011387**

13-Nov-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: MB-56400 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56400 RunNo: 73331

Prep Date: 11/12/2020 Analysis Date: 11/12/2020 SeqNo: 2581085 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-56400 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56400 RunNo: 73331

Prep Date: 11/12/2020 Analysis Date: 11/12/2020 SeqNo: 2581086 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 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 3 of 6

Hall Environmental Analysis Laboratory, Inc.

2.7

WO#: 2011387

13-Nov-20

Client: Devon Energy **Project:** Tomcat 15 Fed 3

Surr: DNOP

Sample ID: LCS-56300 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 56300 RunNo: 73215

Analysis Date: 11/10/2020 Prep Date: 11/9/2020 SeqNo: 2577615 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 3.6 5.000 71.9 30.4 154

Sample ID: LCS-56302 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56302 RunNo: 73215 Prep Date: 11/9/2020 Analysis Date: 11/11/2020 SeqNo: 2577616 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) 46 10 50.00 0 92.2 70 130

54.8

30.4

154

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: MB-56300 SampType: MBLK Client ID: PBS Batch ID: 56300 RunNo: 73215 Units: %Rec

Prep Date: 11/9/2020 Analysis Date: 11/10/2020 SeqNo: 2577617

5.000

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 7.9 10.00 Surr: DNOP 79.4 30.4 154

Sample ID: MB-56302 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 56302 PBS RunNo: 73215 Prep Date: 11/9/2020 Analysis Date: 11/11/2020 SeqNo: 2577618 Units: mg/Kg %RPD PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Analyte Result Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 30.4 7.0 10.00 69.9 154

Qualifiers:

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

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011387**

13-Nov-20

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: mb-56283 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56283 RunNo: 73283

Prep Date: 11/7/2020 Analysis Date: 11/11/2020 SeqNo: 2578642 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 930 1000 92.6 75.3 105

Sample ID: Ics-56283 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56283 RunNo: 73283

Prep Date: 11/7/2020 Analysis Date: 11/11/2020 SeqNo: 2578643 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 5.0 25.00 0 83.8 72.5 106 Surr: BFB 1000 1000 101 75.3 105

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

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011387** *13-Nov-20*

Client: Devon Energy
Project: Tomcat 15 Fed 3

Sample ID: mb-56283 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56283 RunNo: 73283

Prep Date: 11/7/2020 Analysis Date: 11/11/2020 SeqNo: 2578689 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
 0.98
 1.000
 98.3
 80
 120

Sample ID: LCS-56283 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56283 RunNo: 73283

Prep Date: 11/7/2020	Analysis [Date: 11	/11/2020	5	SeqNo: 2578690		Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 6 of 6



Devon Energy

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com Client Name:

Client Name:	Devon Ene	ergy	Work	Order Num	ber: 201	1387			RcptNo: 1
Received By:	Isaiah Or	tiz	11/6/20	20 7:05:00	AM		I	-,0	14
Completed By:	Isaiah Or	tiz	11/6/20	20 8:50:50	AM		7	_0	24
Reviewed By:	JR 1	116/2							000
Chain of Cu	stody								
1. Is Chain of 0	Custody comp	lete?			Yes	~	No		Not Present
2. How was the	e sample deliv	vered?			Cou	rier			
Log In									
3. Was an atte	mpt made to	cool the samp	les?		Yes	V	No		NA 🗆
4. Were all san	nples received	I at a tempera	iture of >0° C	to 6.0°C	Yes	~	No		NA 🗆
5. Sample(s) in	n proper conta	iner(s)?			Yes	V	No		
6. Sufficient sar	mple volume f	or indicated to	est(s)?		Yes	~	No		
7. Are samples	(except VOA	and ONG) pro	operly preserve	ed?	Yes	~	No		
8. Was preserv	ative added to	bottles?			Yes		No	V	NA 🗆
9. Received at I	least 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No		NA 🗹
10. Were any sa	ample containe	ers received b	oroken?		Yes		No	V	# of preserved
11. Does paperw	vork match bo		N.		Yes	~	No		bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices					Yes	~	No		Adjusted?
13. Is it clear wha			and the same of the same of			V	No		
14. Were all hold (If no, notify of	fing times able customer for a				Yes	V	No		Checked by: SGL 1116/20
Special Hand	lling (if app	olicable)							
15. Was client n	otified of all d	iscrepancies	with this order?		Yes		No		NA 🗸
Person	n Notified:			Date				_	
By Wh	nom:			Via:	☐ eM	ail 📃	Phone _	Fax	☐ In Person
Regard	ding:								
Client	Instructions:								
16. Additional re	emarks:								
17. Cooler Info	rmation								
Cooler N	o Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	
1	3.1	Good	Not Present						
2	1.8	Good	Not Present						

Received by OCD: 11/17/2020 9:33:29 AM Page 113 of 114 send report to Natalie Gordan **ANALYSIS LABORATORY** HALL ENVIRONMENTAL if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report Page 1 of 1 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Total Coliform (Present/Absent) (AOV-imaS) 07S8 (AOV) 09S8 NO5, PO4, SO4 @' E' BL' NO3' RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (ORM \ ORG \ DRO \ MRO) MTBE / TMB's (8021) \≪3T9 X 11/4/20 07/05 (S) 87 1/2/30 850 Time T & \$ 1102 5 Day TAT Tomat 15 fed 3 2 1948h 80t Northire Coordon とれば □ Rush Preservative 355 コった Cooler Temp(including CF): ₩ Yes Kerr Turn-Around Time: Project Manager: Project Name: Standard # of Coolers: 402 jar Type and # Sampler: Container Received by: Received by: Project #: On Ice: ☐ Level 4 (Full Validation) 11-0 Chain-of-Custody Record Sample Name WS20-03 40-045W +11 ☐ Az Compliance Chlynn Relinquished by: Relinquished by: 30 ara □ Other Matrix 11/03/21 11:45 55:11 Mailing Address: 0880 QA/QC Package; Time 11:55 ☐ EDD (Type) email or Fax#: Accreditation: 900 Time: □ Standard □ NELAC Phone #: 08/2 Client: Date

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

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 11226

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	11226
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By	d Condition	Condition Date
bhal	None	10/12/2022