



March 25, 2025

NMOCD District 2 811 S. First Street Artesia, NM 88210

**RE**: REMEDIATION WORK PLAN **LOCATION**: Boomslang 14 CTB 1

WELL API: 30-025-42920 GPS: 32.224333, -103.539605

**INCIDENT LOCATION: B-14-T24S-R33E** 

**COUNTY**: Lea

NMOCD REF. NO. nCH1816634490

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Remediation Work Plan for a produced water and crude oil release that occurred at the Boomslang 14 CTB 1 (Boomslang). The initial C-141 Form was approved on June 15, 2018 (Appendix C). This incident was assigned Incident ID: nCH1816634490, by the New Mexico Oil Conservation Division (NMOCD).

#### SITE CHARACTERIZATION

The Boomslang is located approximately twenty-one (21) miles northwest of Jal, NM on privately owned land. This spill site is in Unit B, Section 14, Township 24S, Range 33E, Latitude 32.224333 Longitude -103.539605, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits. Interlayed eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of two different types: Pyote and Maljamar fine sands, and Berino-Cacique fine sandy loams association according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). Both have 0 to 3 percent slopes and both have drainage courses that are well drained. There is a low potential for karst geology to be present in the area of the Boomslang (Figure 3). A Topographic Map can be found in Figure 2.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 105' feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 63 feet BGS. The groundwater information from C-04919 establishes a lack of groundwater at 105' bgs and is located 0.06 miles from the Boomslang. This POD was drilled and recorded by H & R Enterprises, LLC on December 16, 2024. The well bore was left open for the required 72-hour timeframe then checked for saturation. No saturation or water-bearing soil was encountered, the well was then plugged. Depth to groundwater at the Boomslang will be classified as >100' BGS. The regulatory limits are as follows: Chlorides should be less than 20,000 mg/k, TPH (GRO+DRO+MRO) should be less than 2,500 mg/kg, BTEX should be less than 50 mg/kg, and Benzene should be less than 10 mg/kg. The closest waterway is Bell Lake, located approximately 2.11 miles to the west of this location. Water surveys, pod information, and water-related maps can be found in Appendix A.

#### **RELEASE & BACKGROUND INFORMATION**

nCH1816634490: On May 31, 2018, the lease operator arrived on location and found a leak in the fire tube. The production was switched to another heater to stop the release. Approximately 24.1 bbls of produced water and 10.27 bbls of crude oil were released onto the pad. No fluid left location. O bbls were recovered. Devon Energy contracted White Buffalo Environmental to commence remediation efforts. SMA was contracted by Devon Energy to verify remediation was completed by White Buffalo. SMA found that White Buffalo conducted a scrape to a depth of 0.5' BGS and removed the contaminated soil. Per the attached photos in Appendix D, SMA concluded that the remediation was completed, and proceeded to conduct a confirmation sampling event. SMA's Site and Sample Location Map can be found in Figure 5, the complete Laboratory Report is attached in Appendix E. SMA submitted a closure report for the incident that was subsequently denied.

On February 4, 2021, the NMOCD rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nCH1816634490, for the following reasons:

• The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than 1/2 mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. The responsible party may choose to remediate to the most stringent levels listed in Table 1 in lieu of drilling to determine depth to groundwater.

In response to this rejection, Devon had a bore hole drilled to determine depth to groundwater information. Updated groundwater information is included in this report.

• Horizontal delineation has not been completed. The values for determination of horizontal impact are derived by either "background" value as determined appropriate to Rule 29, or Table 1 / Closure Criteria for releases where groundwater is at a depth of 50 feet or less.

In response to delineation not being completed, see below proposed remediation plan.

### PROPOSED REMEDIATION PLAN

In response to the rejected report, Pima would like to propose the following Remediation Plan for consideration and approval:

- 1. Included in this Remediation Work Plan is a Proposed Sampling Map (Figure 5) showing eleven (11) vertical samples and seven (7) horizontal samples to be collected as delineation/exploration samples. Pima is requesting a variance that these samples be collected representing a surface area of no more than 400 ft2 and will be collected from surface, 1', 2', 3', and 4' bgs.
- 2. In the event that impact is encountered and samples come back over the regulatory limits, Devon Energy proposes to dig and haul contaminated soil to remediate/reclaim the site.



3. If the samples come back under the regulatory limits, Devon Energy is requesting a variance to use delineation samples as closure confirmation samples. Devon Energy will submit the required 48-hour sampling notification before collecting the delineation/exploration samples.

Should you have any questions or need additional information, please feel free to contact: Devon Energy Production – Jim Raley at 575-689-7597 or <a href="mailto:jim.raley@dvn.com">jim.raley@dvn.com</a>. Pima Environmental – DelRae Geller at 806-724-5391 or <a href="mailto:delrae@pimaoil.com">delrae@pimaoil.com</a>. Respectfully,

# DelRae Geller

DelRae Geller Project Manager Pima Environmental Services, LLC

# **ATTACHMENTS**

#### FIGURES:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- SMA's Site and Sample Location Map
- 5- Proposed Sampling Map

## **APPENDICES:**

Appendix A – Water Surveys and Water Related Maps

Appendix B - Soil Survey, Geological Data

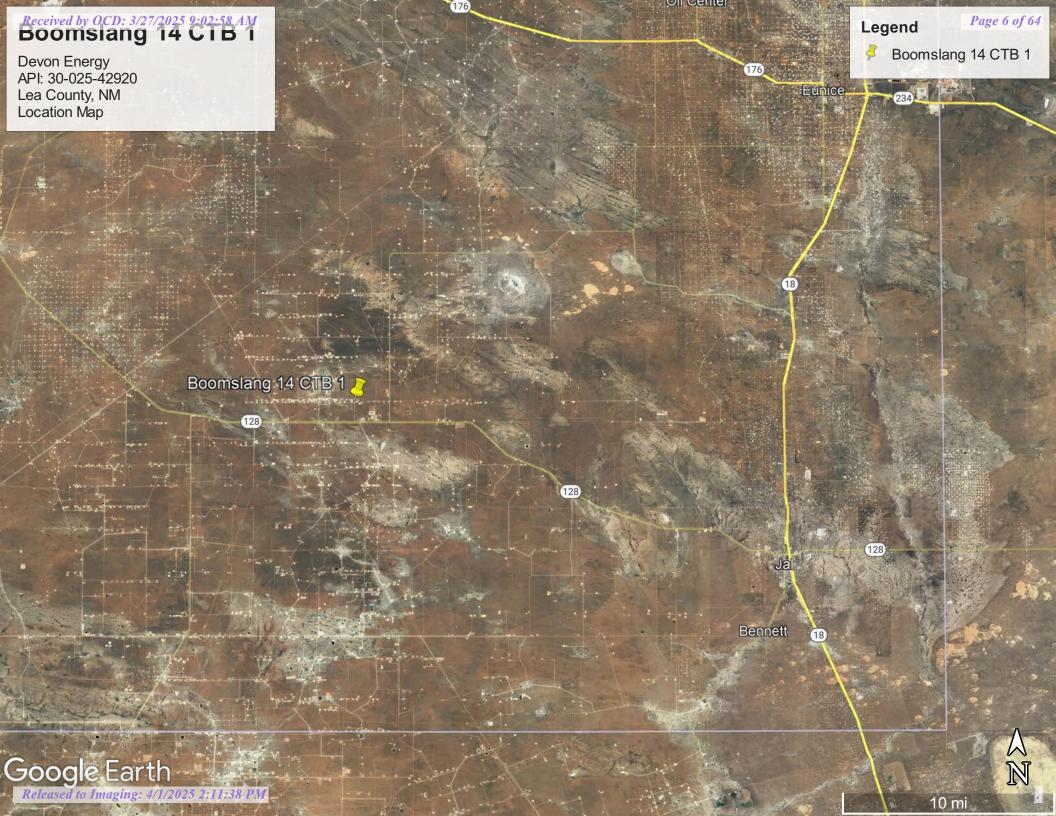
Appendix C - C-141 Form

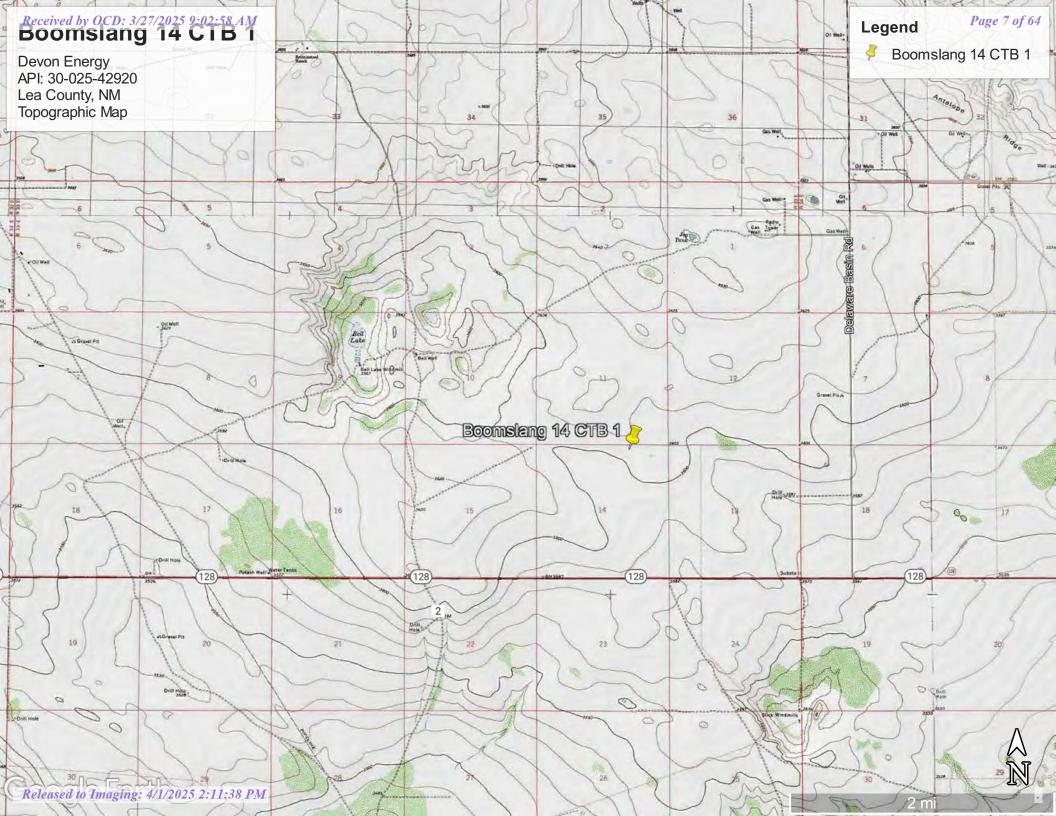
Appendix D – Photographic Documentation

Appendix E – SMA's Laboratory Report

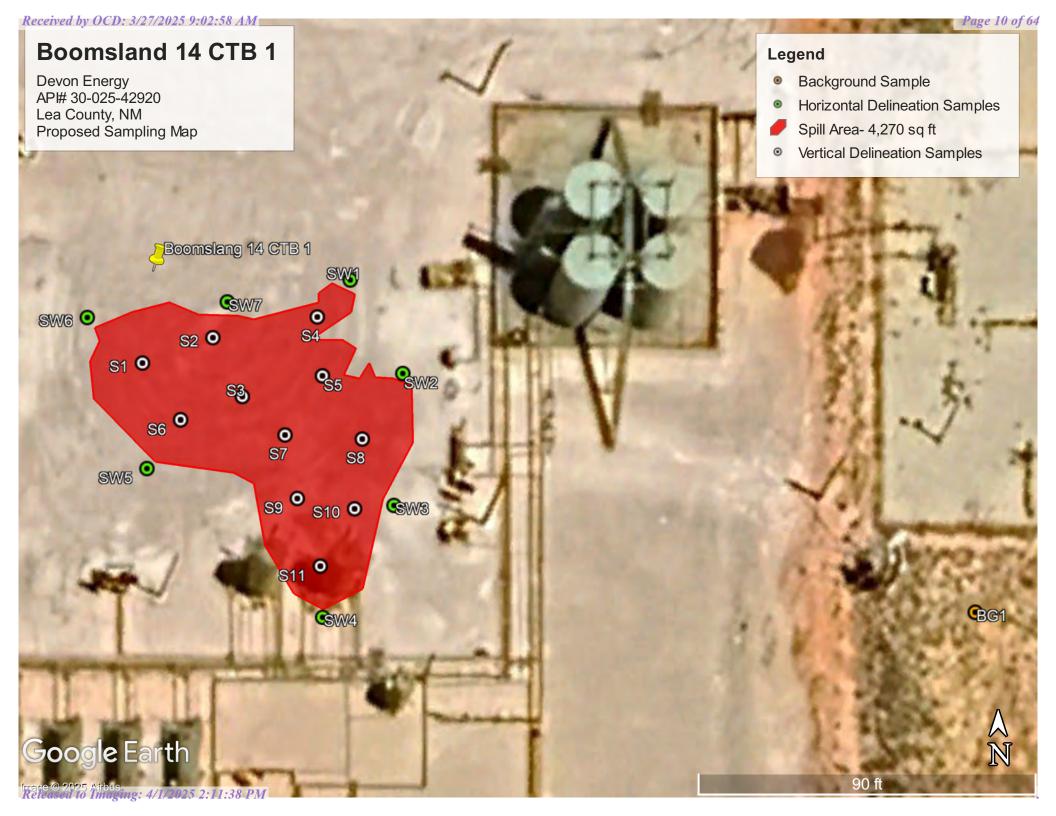
# **FIGURES**

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- SMA's Site and Sample Location Map
- 5- Proposed Sampling Map









# APPENDIX A

OSE Water Survey
USGS Water Survey
Water Related Maps



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE POD NO. (WELL NO.) Pod 1 WELL TAG ID NO.								OSE FILE NO( C-04919	5).				
1	WELL OWNER NAME(S)							PHONE (OPTIONAL)					
	Devon Energy Production												
	WELL OWNER M 6488 Seven Ri							Artesia		NM NM	88210	ZIP	
	WELL			GREES 32	MINUTES 13	SECON 29.0		* ACCURACY	REQUIRED: ONE TENT	TH OF A S	ECOND		
	(FROM GPS)	10.5	GITUDE	103	32	25.7			QUIRED: WGS 84				
	DESCRIPTION R S4 T24s R33e		G WELL LOCATION TO	STREET ADDR	ESS AND COMMO	ON LANDM	ARKS - PL	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE		
1	LICENSE NO. WD-1862	2	NAME OF LICENSED		James Hawley	,			NAME OF WELL DRI		OMPANY ises, LLC		
-	DRILLING STAR 12-16-24		DRILLING ENDED 12-16-24	DEPTH OF COM	MPLETED WELL 105'	(FT)	BORE HO	DEPTH WATER FIRS	ST ENCOU				
	COMPLETED WI	ELL IS:	ARTESIAN *add Centralizer info bel	V DRY HOL	E SHALI	OW (UNC	ONFINED)	IN COMPLETED WELL NIA				TIC MEASUREI 2-23-24	
	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:  CHECK HERE IF PITLESS ADAPTER I												
	DRILLING METH	IOD: 🗸	ROTARY HAMM	TER CABL	ETOOL 0	HER - SPE	CIFY:		CHECK INSTAL	HERE IF	PITLESS ADA	PTER IS	
	DEPTH (fee	t bgl)	BORE HOLE	CASING 1	MATERIAL AN	ND/OR	С	ASING	CASING	100000000000000000000000000000000000000	NG WALL	SLC	
	FROM	ТО	DIAM (inches)		each casing strin			NECTION TYPE pling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)		SIZ (inch	
	0'	105'	6'	No c	asing left in hol	e							
												-	
	DATE:	. t. w		LIST ANNU	LAR SEAL MAT	ERIAL AN	D GRAVE	EL PACK SIZE-	AMOUNT		Manage	D OF	
	DEPTH (fee	TO	BORE HOLE DIAM. (inches)	*(if using Cer	RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below			ne spacing below	AMOUNT METHOD OF (cubic feet) PLACEMENT				
						N/A							
THE WAY													
S. ANNOLAN MA LEMME													
3.0													
OR	OSE INTERNA	L USE						WR-	20 WELL RECORD	& LOG	(Version 09/2	22/2022	
	E NO.				POD	NO.		TRN	NO.				

WELL TAG ID NO.

LOCATION

	DEPTH (f	eet bgl)		COLOR AND T	YPE OF MATERIAL E	NCOUNTERED -		WA	ΓER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)		EARING CAVITIES C		NES	BEAR (YES	2000	WATER- BEARING ZONES (gpm
Г	0'	15'	15'		Sandy Caliche			Y	✓ N	
	15'	20'	5'		Sand with Gravel			Y	✓ N	
	20'	60'	40"		Sand			Y	√ N	
	60'	105'	45'		Sandy Clay			Y	✓ N	
1								Y	N	
r								Y	N	
r								Y	N	
r								Y	N	
r								Y	N	
1								Y	N	
H								Y	N	
+								Y	N	
1								Y	N	
H								Y	N	
+								Y	N	
H								Y	N	
+								Y	N	
+								Y	N	
-								Y	N	
+								Y	N	
1		-						Y	N	
ŀ	A CONTROL I	IOED TO I	COTIMATE VIELD	OF WATER-BEARING S	TRATA.		тота	AL ESTI	MATED	
	PUM				ER - SPECIFY: DTGW	Bore	WEL	L YIEL	D (gpm):	0.00
	WELL TES	TES STA	T RESULTS - ATT RT TIME, END TI	ACH A COPY OF DATA ME, AND A TABLE SHO	COLLECTED DURING WING DISCHARGE A	WELL TESTING, ND DRAWDOWN	INCLUDI OVER TH	NG DISC E TESTI	CHARGE NG PERI	METHOD, OD.
			w po	epth to groundwater bor as removed, bore hole w oured from 10' BGS to so	as backfilled with dri urface.	ll cutting to 10' Bo	GS. Hydra	ited ben	tonite ho	le plug was
	PRINT NAI		DRILL RIG SUPE	RVISOR(S) THAT PROVI	DED ONSITE SUPERV	VISION OF WELL O	CONSTRU	CTION (	OTHER T	HAN LICENSE
	CODDECT	DECODD	OF THE AROVE	FIES THAT, TO THE BES DESCRIBED HOLE AND 30 DAYS AFTER COMPL Jan	THAT HE OR SHE W	LL FILE THIS WE	BELIEF, T LL RECOI	KD WII	EGOING H THE ST	IS A TRUE AT TATE ENGINE
6		SIGNA	ATURE OF DRILL	ER X PRINT SIGNEE NA	AME				DATE	
	R OSE INTER	NAT TICE	2	V		WR-20	WELL RE	CORD &	& LOG (V	ersion 09/22/20
-		WAL USI						1000		
	E NO.				POD NO.	TRN No	Ο.			_



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Well (	Engineer Well Number: C-owner: Devon Energy Proc	luction				Phone	No.:		
Aailir	ng address: 6488 Seven Ri	vers HWY							
City:	Artesia		State:			NM		Zip code:	88210
I. W	ELL PLUGGING INFO	RMATION:							
)	Name of well drilling co	mpany that plug	ged well:	H&R Enter	prises,	LLC.			
2)	New Mexico Well Drille						Expirat	ion Date:	6-16-25
3)	Well plugging activities Nathan Smelcer			owing wel	l driller	(s)/rig su	pervisor(s)	:	
4)	Date well plugging bega	nn: 12-23-24		Date	well plu	ugging co	oncluded:	12-23-24	
5)	GPS Well Location:	Latitude: Longitude:	32 103	deg, deg,	13 32	_ min, _ min,	29.0856 25.7382	sec, WGS	84
6)	Depth of well confirmed by the following manne	d at initiation of pr: well sounder	olugging as	:105'	ft be	elow grou	und level (l	ogl),	
7)	Static water level measu	ured at initiation	of plugging	: N/A	ft b	gl			
8)	Date well plugging plan	of operations w	as approved	d by the St	ate Eng	ineer: _	12-11-24	-	
9)	Were all plugging activ differences between the	ities consistent w	ith an appring plan and	oved plug d the well	ging pla as it wa	n?s plugge	yes d (attach ac	_ If not, pag	please describ ges as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

## For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Pour	
_	10' - 105' Drill Cuttibgs	Approx. 139 gallons	139 gallons	Pour	
					2
-					
_					
		MULTIPLY cubic feet x cubic yards x 20	BY AND OBTAIN 7.4805 = gallons 11.97 = gallons	,	,

## III. SIGNATURE:

١.					familiar									
Eı	ngineer pertaining to the plugging of wells and that ear	ch a	nd all	of th	ne stateme	ents in	this	Plugg	ging	Rec	ord and	att	achr	nents
	e true to the best of my knowledge and belief.													

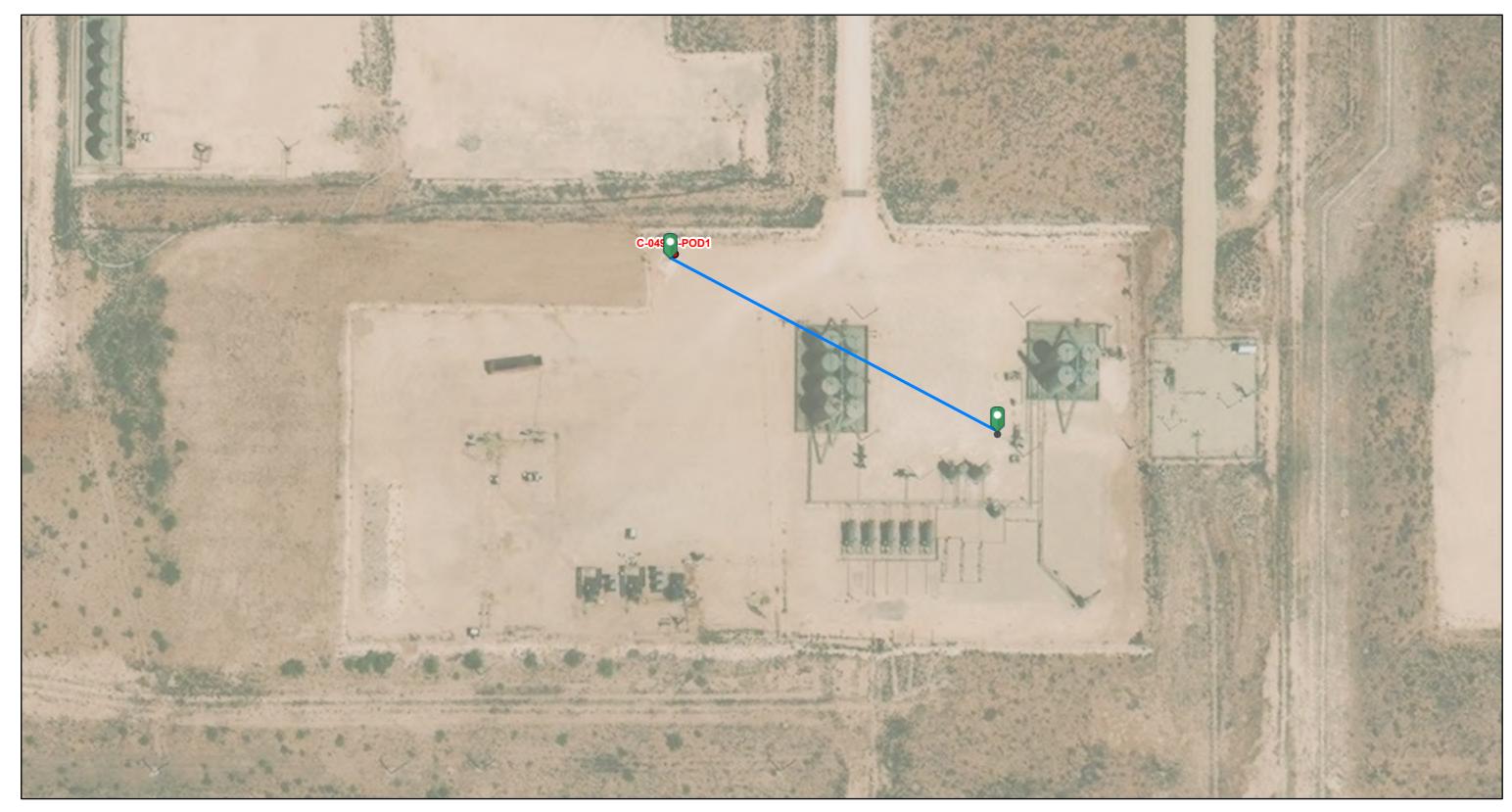
Signature of Well Driller

Version: September 8, 2009 Page 2 of 2

Date

1-13-25

# OSE POD Location Map



3/25/2025, 9:49:08 AM

GIS WATERS PODs

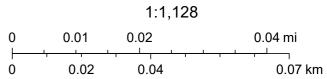
Water Right Regulations

Plugged

Closure Area

OSE District Boundary

Artesian Planning Area



Maxar, Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community



USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	<b>~</b>	GO

## Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

site\_no list =

• 321403103300301

# Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321403103300301 24S.34E.07.22222

Available data for this site Groundwater: Field measurements 

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007 Latitude 32°14'03", Longitude 103°30'03" NAD27

Land-surface elevation 3,606 feet above NAVD88

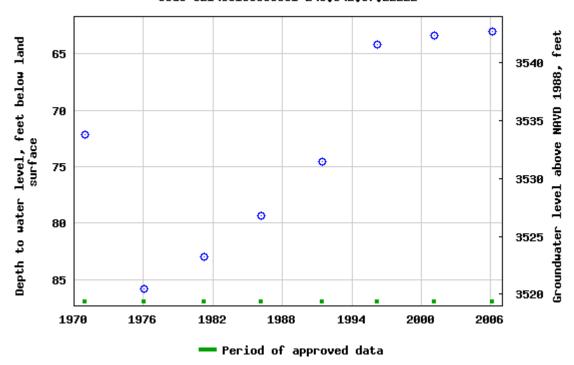
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

# **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

#### USGS 321403103300301 245.34E.07.22222



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
Help
Data Tips
Explanation of terms

# <u>Subscribe for system changes</u> <u>News</u>

Accessibility FOIA Privacy Policies and Notices

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

**Title: Groundwater for USA: Water Levels** 

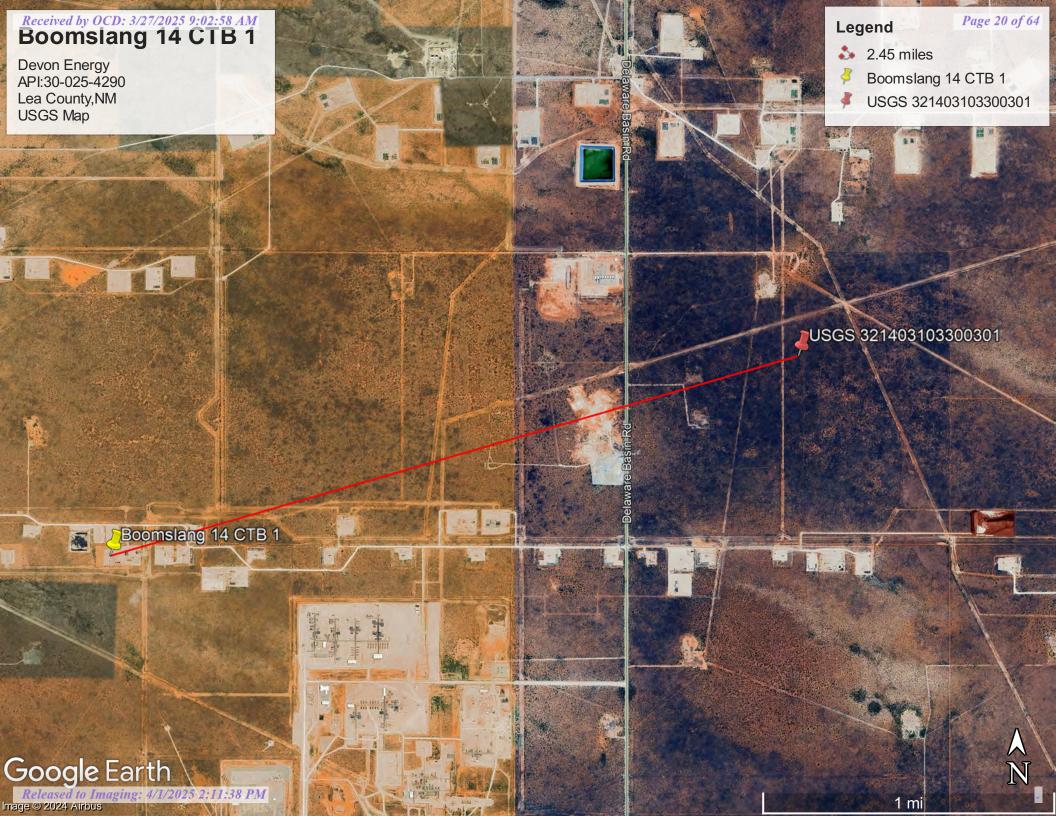
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

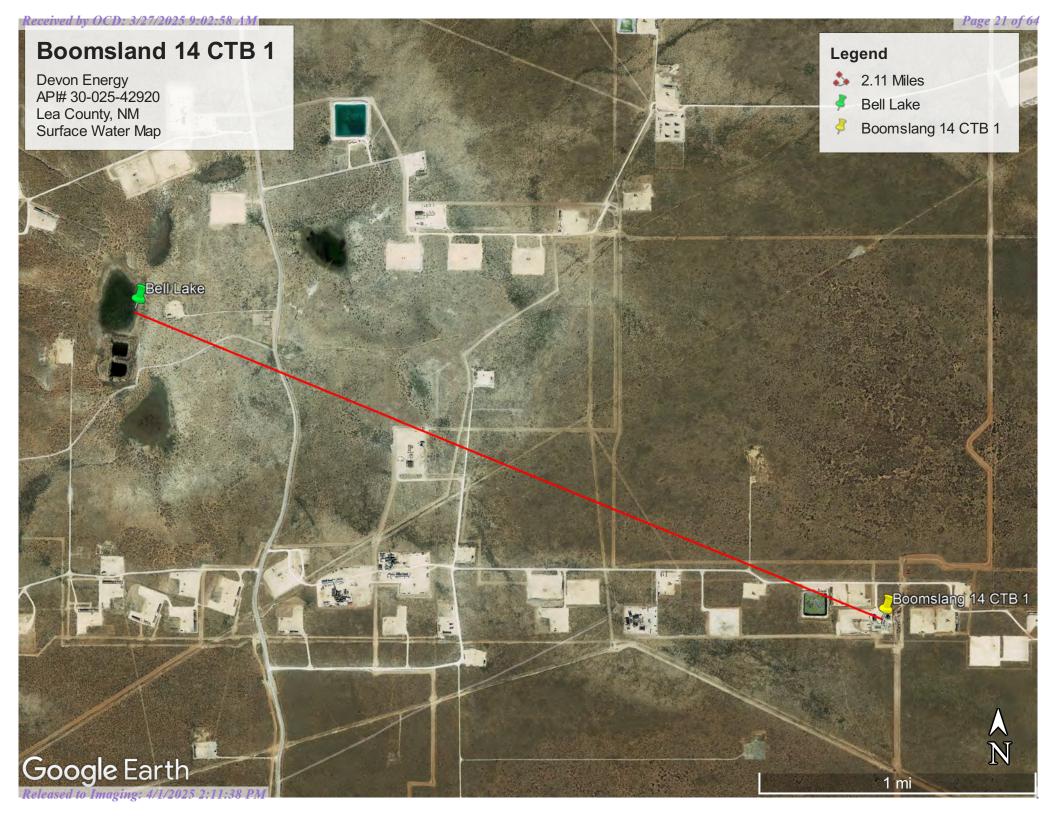
Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2023-02-21 16:20:44 EST

0.64 0.5 nadww01







OReleas 24/1/2025 2:999:38 PM

# Received by OCD: 3/27/2025 9:02:58,AM National Flood Hazard Layer FIRMette





Legend

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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** 

Digital Data Available

--- Coastal Transect Baseline

Hydrographic Feature

**Profile Baseline** 

No Digital Data Available

Unmapped

OTHER

**FEATURES** 

MAP PANELS

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/21/2023 at 4:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





# Wetlands Map



February 21, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

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.

# APPENDIX B

Soil Survey & Geological Data Geologic Unit Map

# Lea County, New Mexico

# BE—Berino-Cacique loamy fine sands association

## **Map Unit Setting**

National map unit symbol: dmpd

Elevation: 3,000 to 3,C

Mean annual precapation: 10 to 13 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

# **Description of Berino**

## 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 over calcareous sandy alluvium derived from sedimentary

rock

#### Typical profile

A - 0 to 6 inches: loamy fine sand Btk - 6 to 60 inches: sandy clay loam

## **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.7

inches)

# Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### **Description of Cacique**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Calcareous eolian deposits derived from

sedimentary rock

#### Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

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

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

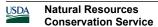
### **Minor Components**

#### Maljamar

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

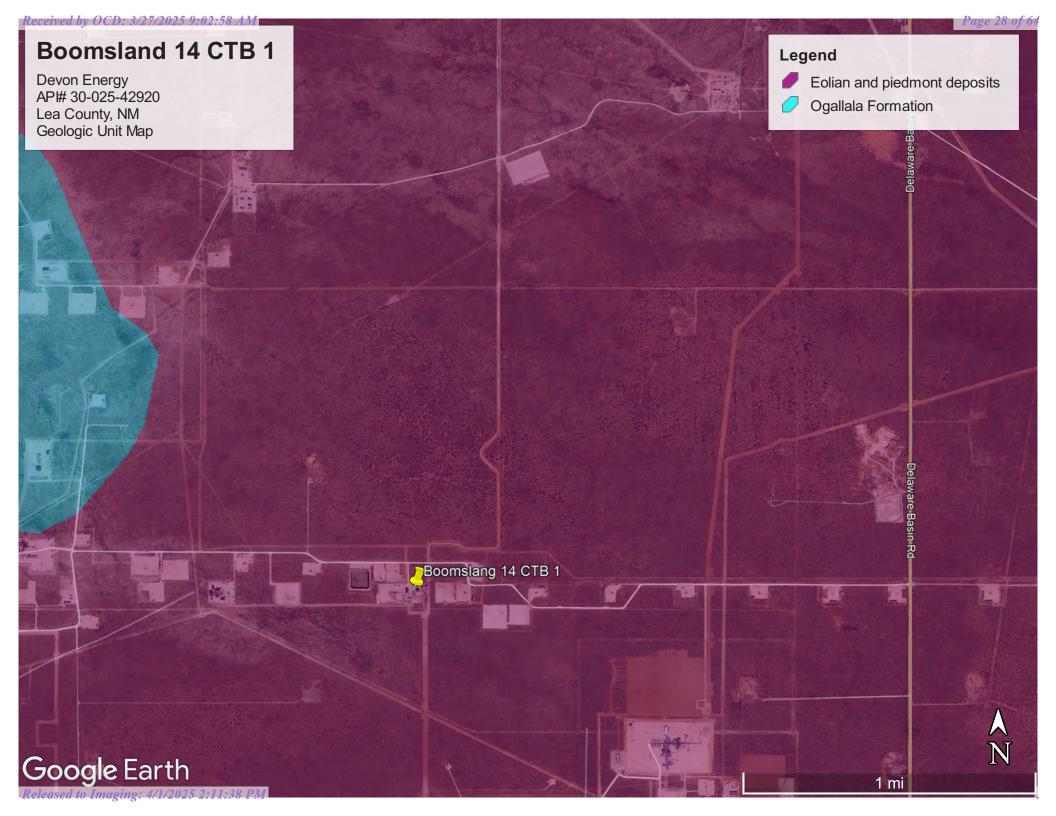


### **Palomas**

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022



# APPENDIX C

C-141

Form C-141

Revised April 3, 2017

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

# State of New Mexico Energy Minerals and Natural Resources

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

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8/50:	,	Sa	anta F	Fe, NM 875	505					
Release Notification and Corrective Action												
						OPERA'	TOR		⊠ Initia	al Report		Final Report
Name of Co	ompany D	evon Energy	Product	ion Company		Contact Merle Lewis, Production Foreman						F
		Rivers Hwy				Telephone 1	No. 575-748-337	71				
	ne Booms	lang 14-23 F		elease occurred	at	Facility Typ	pe Oil					
Surface Owner Private Mineral Owner						Federal			API No	. 30-025-4	2920	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter B	Section 14	Township 24S	Range 33E	Feet from the		North/South Line   Feet from the   East/West Line   County   Lea						
Latitude_32.224333_ Longitude_103.539605_ NAD83												
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of				Recovered		
Produced Wa	ater & Oil					24.1bbls p 10.27bbls	roduced water & oil		0bbls			
Source of Re Heater treater							Hour of Occurrence	our of Occurrence Date and Hour of Discove				
Was Immedi		Given?				May 31, 2018 @ 4:00 AM MST   May 31, 2018 @ 4:00 AM MST   If YES, To Whom?						
		$\boxtimes$	Yes 🗆	] No 🔲 Not R	equired							
D 11/1 0.1	£'1 C1	1				BLM-She		10 41 D	A A A COTT			
By Whom? N Was a Water							Hour 05/31/18 @ : olume Impacting t					
was a water	course Read		Yes 🗵	1 No		N/A	orume impacting t	ne wat	ercourse.			
If a Watercou	I						RECEIVE	ח				
N/A	irse was iii	ipacied, Descr	ibe rully.						4 40.24	om luu	. 15	2040
Dogoriho Cov	usa of Drobl	em and Reme	dial Aatia	n Takan *		В	y CHernand	iez a	10:31	am, Jui	1 15,	, 2016
					he fire	tube. The p	roduction was s	witched	d to anothe	er heater to	stop 1	the release.
		and Cleanup					- 0.11.01	0.1.1				
				r delineation and			No fluid left location	on. U bi	ols were rec	covered. Ar	. Envir	ronmental
I hereby certi	ify that the	information g	iven above	e is true and comp	lete to	the best of my	knowledge and u	ınderstaı	nd that purs	suant to NM	OCD 1	rules and
regulations a	ll operators	are required t	o report a	nd/or file certain r	elease	notifications a	nd perform correc	tive act	ions for rel	eases which	may e	endanger
							narked as "Final R					
							ion that pose a three the operator of the oper					
		ws and/or regi		hance of a C-141	тероп	does not renev						ly other
							OIL CON	<u>SERV</u>	'ATION	DIVISIO	<u>)N</u>	
Signature: S	heila Fi	sher								ı I		
Printed Name	e: Sheila F	isher				Approved by Environmental Specialist:						
Title: Field	Admin Sup	port				Approval Date: 6/15/2018 Expiration Date:						
E-mail Addre	ess: Sheila.	Fisher@dvn.c	com			Conditions o	f Approval:				Д	
		<u> </u>		<i>575 74</i> 0 1000			ached directi	ive		Attached	싴	
Date: 6/11/18 Attach Addi		ets If Necess		ne: 575.748.1829		400.500	7 0000	0.4.0.0.1	24462	<del>                                     </del>		
A THACH AUUI	nonai one	0.00 11 1400088	our y			1RP-509	7   nCH1	ช1663	34490	1		

pCH1816636894

Boomslang 14-23 Fed 1H(release occurred at the Boomslang 14 CTB 1) 24.1bbls pw & 10.27bls oil\_5 This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map. devon WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere Prepared by: Sheila Fisher Map is current as of: 14-Jun-2018 Miles 0.04 1:1,779 24.1bbls pw & 10.27bbls oil Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_6/14/2018\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-5097\_\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_7/15/2018\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Page 34 of 64

Incident ID	NCH1816634490
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

(ft bgs)
Yes X No
Yes X No
Yes No
Yes No
☐ Yes ☑ No
Yes No
☐ Yes k No
Yes X No
Yes No
Yes No
Yes No
Yes No
tical extents of soil
s.

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: 3/27/2025 9:02:58 AM State of New Mexico
Page 4 Oil Conservation Division

Page 35 of 64

Incident ID	NCH1816634490
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Dale Woodall	Title:Environmental Professional						
Signature:	Date:						
email:dale.woodall@dvn.com	Telephone:575-748-1838						
OCD Only							
Received by:	Date:						

Page 36 of 64

Incident ID	NCH1816634490
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
x Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.1	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.  Title: Environmental Professional	
email:dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

# APPENDIX D

Photographic Documentation









# APPENDIX E

SMA's Laboratory Report



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

March 18, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-8801

FAX:

RE: Boomslang 14CTB1 IRP 5097 OrderNo.: 2003483

#### Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/11/2020 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

**Client Sample ID: BS1** 

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Boomslang 14CTB1 IRP 5097 **Collection Date:** 3/7/2020 3:39:00 PM

**Lab ID:** 2003483-001 **Matrix:** SOIL **Received Date:** 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 5:06:40 PM	51087
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	39	9.6	mg/Kg	1	3/16/2020 6:43:41 PM	51053
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	3/16/2020 6:43:41 PM	51053
Surr: DNOP	109	55.1-146	%Rec	1	3/16/2020 6:43:41 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2020 1:39:19 PM	51042
Surr: BFB	81.7	66.6-105	%Rec	1	3/14/2020 1:39:19 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/14/2020 1:39:19 PM	51042
Toluene	ND	0.048	mg/Kg	1	3/14/2020 1:39:19 PM	51042
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2020 1:39:19 PM	51042
Xylenes, Total	ND	0.095	mg/Kg	1	3/14/2020 1:39:19 PM	51042
Surr: 4-Bromofluorobenzene	90.3	80-120	%Rec	1	3/14/2020 1:39:19 PM	51042

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 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BS2

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 3:42:00 PM

 Lab ID:
 2003483-002
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 5:19:01 PM	51087
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	10	9.7	mg/Kg	1	3/13/2020 3:40:10 PM	51053
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/13/2020 3:40:10 PM	51053
Surr: DNOP	110	55.1-146	%Rec	1	3/13/2020 3:40:10 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2020 2:02:43 PM	51042
Surr: BFB	86.1	66.6-105	%Rec	1	3/14/2020 2:02:43 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/14/2020 2:02:43 PM	51042
Toluene	ND	0.047	mg/Kg	1	3/14/2020 2:02:43 PM	51042
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2020 2:02:43 PM	51042
Xylenes, Total	ND	0.093	mg/Kg	1	3/14/2020 2:02:43 PM	51042
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	1	3/14/2020 2:02:43 PM	51042

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 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BS3

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 3:46:00 PM

 Lab ID:
 2003483-003
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	3/13/2020 5:56:05 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	730	94		mg/Kg	10	3/16/2020 7:05:46 PM	51053
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	3/16/2020 7:05:46 PM	51053
Surr: DNOP	0	55.1-146	S	%Rec	10	3/16/2020 7:05:46 PM	51053
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	3/14/2020 2:26:09 PM	51042
Surr: BFB	86.5	66.6-105		%Rec	5	3/14/2020 2:26:09 PM	51042
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/14/2020 2:26:09 PM	51042
Toluene	ND	0.23		mg/Kg	5	3/14/2020 2:26:09 PM	51042
Ethylbenzene	ND	0.23		mg/Kg	5	3/14/2020 2:26:09 PM	51042
Xylenes, Total	ND	0.46		mg/Kg	5	3/14/2020 2:26:09 PM	51042
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	5	3/14/2020 2:26:09 PM	51042

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 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BS4

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 3:53:00 PM

 Lab ID:
 2003483-004
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 6:08:26 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	120	9.8	mg/Kg	1	3/16/2020 7:28:05 PM	51053
Motor Oil Range Organics (MRO)	180	49	mg/Kg	1	3/16/2020 7:28:05 PM	51053
Surr: DNOP	114	55.1-146	%Rec	1	3/16/2020 7:28:05 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2020 2:49:46 PM	51042
Surr: BFB	85.4	66.6-105	%Rec	1	3/14/2020 2:49:46 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/14/2020 2:49:46 PM	51042
Toluene	ND	0.046	mg/Kg	1	3/14/2020 2:49:46 PM	51042
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2020 2:49:46 PM	51042
Xylenes, Total	ND	0.092	mg/Kg	1	3/14/2020 2:49:46 PM	51042
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	3/14/2020 2:49:46 PM	51042

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 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 4:00:00 PM

 Lab ID:
 2003483-005
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 6:45:29 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	290	9.1	mg/Kg	1	3/13/2020 4:16:53 PM	51053
Motor Oil Range Organics (MRO)	470	46	mg/Kg	1	3/13/2020 4:16:53 PM	51053
Surr: DNOP	100	55.1-146	%Rec	1	3/13/2020 4:16:53 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2020 4:24:05 PM	51042
Surr: BFB	84.0	66.6-105	%Rec	1	3/14/2020 4:24:05 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/14/2020 4:24:05 PM	51042
Toluene	ND	0.047	mg/Kg	1	3/14/2020 4:24:05 PM	51042
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2020 4:24:05 PM	51042
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2020 4:24:05 PM	51042
Surr: 4-Bromofluorobenzene	91.1	80-120	%Rec	1	3/14/2020 4:24:05 PM	51042

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

- 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 12

Date Reported: 3/18/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

**Project:** Boomslang 14CTB1 IRP 5097 **Collection Date:** 3/7/2020 4:04:00 PM

**Lab ID:** 2003483-006 **Matrix:** SOIL **Received Date:** 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 7:22:32 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	200	9.8	mg/Kg	1	3/13/2020 4:35:15 PM	51053
Motor Oil Range Organics (MRO)	320	49	mg/Kg	1	3/13/2020 4:35:15 PM	51053
Surr: DNOP	102	55.1-146	%Rec	1	3/13/2020 4:35:15 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/14/2020 4:47:44 PM	51042
Surr: BFB	79.8	66.6-105	%Rec	1	3/14/2020 4:47:44 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/14/2020 4:47:44 PM	51042
Toluene	ND	0.049	mg/Kg	1	3/14/2020 4:47:44 PM	51042
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2020 4:47:44 PM	51042
Xylenes, Total	ND	0.098	mg/Kg	1	3/14/2020 4:47:44 PM	51042
Surr: 4-Bromofluorobenzene	86.7	80-120	%Rec	1	3/14/2020 4:47:44 PM	51042

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

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

Page 6 of 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW3

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 4:07:00 PM

 Lab ID:
 2003483-007
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	3/13/2020 7:34:52 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	270	9.9	mg/Kg	1	3/13/2020 4:44:22 PM	51053
Motor Oil Range Organics (MRO)	460	49	mg/Kg	1	3/13/2020 4:44:22 PM	51053
Surr: DNOP	113	55.1-146	%Rec	1	3/13/2020 4:44:22 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/14/2020 5:11:24 PM	51042
Surr: BFB	83.8	66.6-105	%Rec	1	3/14/2020 5:11:24 PM	51042
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/14/2020 5:11:24 PM	51042
Toluene	ND	0.050	mg/Kg	1	3/14/2020 5:11:24 PM	51042
Ethylbenzene	ND	0.050	mg/Kg	1	3/14/2020 5:11:24 PM	51042
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2020 5:11:24 PM	51042
Surr: 4-Bromofluorobenzene	91.4	80-120	%Rec	1	3/14/2020 5:11:24 PM	51042

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 12

Date Reported: 3/18/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Boomslang 14CTB1 IRP 5097
 Collection Date: 3/7/2020 4:10:00 PM

 Lab ID:
 2003483-008
 Matrix: SOIL
 Received Date: 3/11/2020 8:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/13/2020 7:47:13 PM	51099
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	220	9.6	mg/Kg	1	3/13/2020 4:53:30 PM	51053
Motor Oil Range Organics (MRO)	370	48	mg/Kg	1	3/13/2020 4:53:30 PM	51053
Surr: DNOP	108	55.1-146	%Rec	1	3/13/2020 4:53:30 PM	51053
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2020 5:35:03 PM	51042
Surr: BFB	83.3	66.6-105	%Rec	1	3/14/2020 5:35:03 PM	51042
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	3/14/2020 5:35:03 PM	51042
Toluene	ND	0.046	mg/Kg	1	3/14/2020 5:35:03 PM	51042
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2020 5:35:03 PM	51042
Xylenes, Total	ND	0.092	mg/Kg	1	3/14/2020 5:35:03 PM	51042
Surr: 4-Bromofluorobenzene	90.2	80-120	%Rec	1	3/14/2020 5:35:03 PM	51042

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 8 of 12

### Hall Environmental Analysis Laboratory, Inc.

2003483 30-Apr-20

WO#:

**Client:** Souder, Miller & Associates **Project:** Boomslang 14CTB1 IRP 5097

Sample ID: MB-51087 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51087 RunNo: 67280

Analysis Date: 3/13/2020 SeqNo: 2319975 Prep Date: 3/13/2020 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-51087 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51087 RunNo: 67280

Units: mg/Kg Prep Date: 3/13/2020 Analysis Date: 3/13/2020 SeqNo: 2319976

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

Chloride 14 1.5 15.00 93.0 110

Sample ID: MB-51099 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51099 RunNo: 67280

Prep Date: 3/13/2020 Analysis Date: 3/13/2020 SeqNo: 2320005 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-51099 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51099 RunNo: 67280

Prep Date: 3/13/2020 Analysis Date: 3/13/2020 SeqNo: 2320006 Units: mg/Kg

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

14 Chloride 1.5 15.00 n 92.9 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- 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 9 of 12

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2003483** 

30-Apr-20

Client: Souder, Miller & Associates

Project: Boomslang 14CTB1 IRP 5097

Sample ID: LCS-51053 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 51053 RunNo: 67261 Prep Date: 3/12/2020 Analysis Date: 3/13/2020 SeqNo: 2319831 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 10 0 50 50.00 99.3 70 130

 Diesel Range Organics (DRO)
 50
 10
 50.00
 0
 99.3
 70
 130

 Surr: DNOP
 4.8
 5.000
 96.3
 55.1
 146

Sample ID: MB-51053 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51053 RunNo: 67261

Prep Date: 3/12/2020 Analysis Date: 3/13/2020 SeqNo: 2319833 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 11 10.00 106 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 10 of 12

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2003483** 30-Apr-20

Client: Souder, Miller & Associates

Project: Boomslang 14CTB1 IRP 5097

Sample ID: mb-51042 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 51042 RunNo: 67276

Prep Date: 3/11/2020 Analysis Date: 3/14/2020 SeqNo: 2318760 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 830 1000 83.2 66.6 105

Sample ID: Ics-51042 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 51042 RunNo: 67276

960

Prep Date: 3/11/2020 Analysis Date: 3/14/2020 SeqNo: 2318761 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.6 80 120

96.4

66.6

105

#### Qualifiers:

Surr: BFB

- 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 11 of 12

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2003483

30-Apr-20

**Client:** Souder, Miller & Associates **Project:** Boomslang 14CTB1 IRP 5097

Sample ID: mb-51042 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

PBS Client ID: Batch ID: 51042 RunNo: 67276

Prep Date: 3/11/2020 Analysis Date: 3/14/2020 SeqNo: 2318870 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.91 1.000 90.8 80 120

Sample ID: LCS-51042 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 51042 RunNo: 67276

Prep Date: 3/11/2020	Analysis D	Date: 3/	14/2020	S	SeqNo: 2:	318871	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.3	80	120			
Toluene	0.86	0.050	1.000	0	85.7	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.0	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- 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 12 of 12



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:	SMA-CARLSBAD	Work Order Num	ber: 2003483		RcptNo: 1	
Received By:	Yazmine Garduno	3/11/2020 8:20:00		aforpin leftranti		
Completed By:	Yazmine Garduno	3/11/2020 12:39:33	3 PM	aftyrin lefteduti		
Reviewed By:	ENM	3/11/20				
Chain of Cus	stody					
1. Is Chain of C	Custody sufficiently comp	lete?	Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	mpt made to cool the sar	mples?	Yes 🗹	No 🗆	NA 🗆	
4. Were all sam	ples received at a tempe	erature 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	test(s)?	Yes 🗹	No 🗆		
7. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspac	ce <1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sa	mple containers received	d broken?	Yes	No 🗹	# of preserved	/
	ork match bottle labels? ancies on chain of custo	dy)	Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless	noted)
12. Are matrices	correctly identified on Ch	nain of Custody?	Yes 🗹	No 🗌	Adjusted?	
	at analyses were request		Yes 🗹	No 🗌	10 2/11	100
	ing times able to be met sustomer for authorization		Yes 🗹	No ∐	Checked by: JR 3 [[[	120
Special Hand	ling (if applicable)					
15. Was client no	otified of all discrepancie	s with this order?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:	Date	The state of the s	hores in all lains a securities		
By Wh	om:	Via:	🗌 eMail 🔲 F	Phone 🗌 Fax	☐ In Person	
Regard	ling:	in CPR-2-12, in which committee that we have been manufactured a strong and the confusion specific for	(reinin) (A. Chairin) i Calledoù an an an an daoine deo	**************************************	ndhirithinan farinda an air ahaan madaala	
Client I	nstructions:	th's debter as where the considers unity of a good to a verte to prove the health has a since for different below.	نظام والمحمودية في المراقع في مواجعة والمواقعة المحمد المجاهزة المحمد المحمد المحمد المحمد المحمد المحمد المحم	n diek von von Amerika soore and tree kanne van de valitieken e	وسيشيون فرخانه المخاط والمحافظ	
16. Additional re	emarks:					
17. Cooler Info						
	Temp °C Condition	n Seal Intact Seal No	Seal Date	Signed By		
1 2	5.3 Good 4.2 Good	:				
-	3000			•		

Client:							1			CL	LINE TANK	
	SMA- Cails bad	□ Standard	Rush 5 day	s day turn				ANAL YSTS	Z	Y	YSTS I ABORATO	AL VOC
		Project Name:					VAN	www.hallenvironmental.com	nviron			
Mailing Address:		Romstana	14 (TR)	1RP-5370	4	4901 Hawkins NE	awkins	1	Albuqu	erdile	Albuquerque, NM 87109	V: 5/1
		Project #:				Tel. 50	505-345-3975		Fax	505-3	505-345-4107	6/14/2
Phone #:		20715191	15					Ar	Analysis		st	023
email or Fax#:		Project Manager	er:			10			<sup>⊅</sup> O	(,-	(nu	2102
QA/QC Package:	Level 4 (Fill Malidation)	Achie	Z				SWIS		S '*Oc	107	Vnsel	4581AN
;	Compliance	Sompler: / A	1 A STATES						ا 'در		11120	1
	□ Other	On Ice:	Yes	ON					ON		201.1	
ype)		# of Coolers:	7					stals			\	
		Cooler Temp(including cF):	duding CF): 5.3 [6]	(a):5.3 (°C)				θM			IOIIII	
Date Time Matrix	ix Sample Name	Container P	Preservative 7(	4.76) - 4.2 70034 \$3	BTEX/	9G 1808	EDB (M	8 ARDA	© E' B	8) 0728	Total Co	
3/3/20 1539 501	_								-			
1543				-00	_				×			
93.51	1353			-003	×				٧			
K-53	884		7%	700	X				×			
1600	Sw i			-OOK	XX				×			
1991	Sw a			100	XX				×			
1 6091	SW 3		1	- 00	×				×			
1610	Swy	-		-00g	X				X			
				4.								
Date: Time: Relin	Relinquished by:	Received by	Via:	Jate Time 3/6/20 1430	Remarks: Dred		8-11.	Devan	WD		=	P
Date: Time: Relin	Relinquished by:	Redevedus: VI	13: R. 3/11	120	۲.	المهرا	Curasco	983				age 57 o

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS

Action 446164

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	446164
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nCH1816634490
Incident Name	NCH1816634490 BOOMSLANG 14 CTB 1 @ 30-025-42920
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-025-42920] BOOMSLANG 14 23 FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BOOMSLANG 14 CTB 1
Date Release Discovered	05/31/2018
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 10 BBL   Recovered: 0 BBL   Lost: 10 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 24 BBL   Recovered: 0 BBL   Lost: 24 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 446164

QUESTI	ONS (continued)
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 446164 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	[C-141] Site Char. Remediation Plan C-141 (C-141-v-Plan)
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/27/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 3

Action 446164

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	446164
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions ti	hat apply or are indicated. This information must be provided t	to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	61
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2130
GRO+DRO	(EPA SW-846 Method 8015M)	753
BTEX	(EPA SW-846 Method 8021B or 8260B)	1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1
	NMAC unless the site characterization report includes complet telines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAG
On what estimated date wi	Il the remediation commence	06/01/2018
On what date will (or did) to	ne final sampling or liner inspection occur	03/07/2020
On what date will (or was)	the remediation complete(d)	06/01/2025
What is the estimated surfa	ace area (in square feet) that will be reclaimed	4270
What is the estimated volu	me (in cubic yards) that will be reclaimed	80
What is the estimated surfa	ace area (in square feet) that will be remediated	4270
What is the estimated volu	me (in cubic yards) that will be remediated	80
These estimated dates and measu	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that propose	ed remediation measures may have to be minimally adjusted in	accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 4

Action 446164

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	446164
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC. which includes the anticipated timelines for beginning and completing the remediation.

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

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 03/27/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 5

Action 446164

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	446164
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 446164

**QUESTIONS** (continued)

Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	446164	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	No	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 446164

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	446164
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The Variance Request for 400 ft2 floor confirmation sample size is denied. This size of the release does not justify an alternative sampling plan. The Variance Request to use delineation samples as confirmation closure samples is denied. Confirmation samples should be collected every 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please make sure that the edge of the release extent is accurately defined, especially around equipment. The work will need to be completed in 90 days after the report has been reviewed.	4/1/2025