# DEVON ENERGY Cotton Draw 29-30 CTB

# Workplan

UL H, Section 30, T25S, R32E Lea County, New Mexico

NAPP2520435505

August 15, 2025



Prepared for:

Devon Energy 6488 Seven Rivers Hwy Artesia, NM 88210

By:

Safety & Environmental Solutions, Inc. 1501 W. Bender Blvd. Hobbs, New Mexico 88240 (575) 397-0510

### **Company Contacts**

Representative	Company		E-mail:
Jim Raley	Devon Energy	575-689-7597	jim.raley@dvn.com
Leslie Mendenhall	SESI	575-397-0510	Imendenhall@sesi-nm.com

#### Location

The Cotton Draw 29-30 CTB is located approximately 40 miles west of Hobbs, NM. The legal location for this facility is Unit Letter H, Section 30, Township 25 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.10432422, -103.706636 NAD83.

# Background

Incident C-141 received on 07/23/2025 for release discovered on 07/22/2025. The cause of the release was reported as equipment failure: "Pinhole leak developed on separator, allowing produced water to impact pad surface." approximately Corrosion | Separator | Produced Water | Released: 7 BBL | Recovered: 3 BBL | Lost: 4 BBL.

### Surface and Groundwater

According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is classified primarily as Pyote loamy fine sand, with 0 to 3 percent slopes. This soil is formed from sandy eolian deposits derived from sedimentary rock and occurs on nearly level plains. The Pyote series consists of loamy fine sand over fine sandy loam with no restrictive features to a depth greater than 80 inches. It is well drained with negligible runoff and high permeability. Available water capacity is low, and the soil is rated as non-hydric.

Minor components include the Berino-Cacique loamy fine sands association, which includes the Berino series—well drained with moderate water-holding capacity and no restrictive layer—and the Cacique series, which contains a petrocalcic horizon at 20 to 40 inches and exhibits very low to moderately low permeability and high runoff. Also present in very limited extent are the Maljamar and Palomas fine sands, which occur on similar terrain and include petrocalcic layers at 40 to 60 inches in the Maljamar series. All soils are classified as non-hydric and fall within Ecological Site R070BD003NM (Loamy Sand). The area is not designated as prime farmland, but portions are considered farmland of statewide importance. Salinity levels are minimal, gypsum content is low, and there is no risk of flooding or ponding. The site is located within a low karst area.

According to the New Mexico Oil Conservation Division (NMOCD) Oil and Gas Map, there are no surface water features within 0.050 miles of the reported release location. Records from the New Mexico Office of the State Engineer (OSE) indicate that the closest registered Point of Diversion (POD), identified as C-04618-POD1, is located approximately 1.44 miles northwest of the release site at coordinates 32.123870, -103.716860 (SW SE SW Section 18, Township 25S Range 32E). This exploration well was drilled by Devon Energy on May 11, 2022, to a depth of 55 feet below ground surface (bgs) using a hollow stem auger. No groundwater was encountered during drilling, and the well was classified as a dry hole.

# Characterization

Cl	osure Criteria for Soils Impa			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**	
< 50 feet	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg	
	TPH	EPA SW-846	100 mg/kg	
	(GRO+DRO+MRO)	Method 8015M		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg	
0110001001	TPH	EPA SW-846 Method 8015M	2,500 mg/kg	
	(GRO+DRO+MRO)			
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	
>100 feet	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg	
100 1001	TPH	EPA SW-846 Method 8015M	2,500 mg/kg	
	(GRO+DRO+MRO)			
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	

# Work Performed

On July 28, 2025, SESI mobilized the site to conduct a delineation investigation. A total of fifteen (15) soil samples were collected at the surface and at six inches bgs. Samples were field-tested for chloride and submitted to Cardinal Laboratories (Lab ID: H254588) under proper chain-of-custody protocols for full analysis of:

- Chloride (SM4500Cl-B)
- DRO/GRO/EXT DRO (EPA 8015M)
- BTEX (EPA 8021B)

		E	Sampl	le Date Colle	n Draw 29-30 0 cted: 07/28/202 ratory (Lab ID:	25			
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	MRO (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)
SP-1 @ 6"	8960	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
SP-2 @ 6"	8640	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
SP-3 @ 6"	27200	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	32.5
SP-4 @ 6"	17200	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	22.0
SP-5 @ 6"	7440	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
SP-6 @ 1'	7600	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-1	3760	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-2	48.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-3	272	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-4	32.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-5	96.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-6	64.0	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-7	64.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0
HP-8	64.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0

			Samp	e Date Colle	n Draw 29-30 ( cted: 07/28/202 ratory (Lab ID:	25			
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	MRO (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)
HP-9	64.0	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0

Laboratory results show elevated chloride concentrations exceeding 10,000 mg/kg in several samples, including SP-3 at 6 inches and SP-4 at 6 inches. Diesel Range Organics (DRO) were detected at these same locations but remained below the laboratory reporting limit of 1,000 mg/kg. All BTEX and hydrocarbon compounds, including Gasoline Range Organics (GRO) and Motor Oil Range Organics (MRO), were reported as below detection limits (<10 mg/kg).

On August 5, 2025, SESI returned to the site to collect (7) additional field chloride samples. Samples were collected at the surface and field tested for chlorides. (6) samples were taken under infrastructure (underneath separators) to be able to determine extent of contamination. (1) additional horizontal sample was collected HP-1-A-S.

Field Sample	Field Chloride Results
SS-1-S	15,340
SS-2-S	376
SS-3-S	16,960
SS-4-S	10,736
SS-5-S	13,953
SS-6-S	4,164
HP-1-A-S	120

# **Proposed Remediation Action Plan**

Following the initial site assessment, SESI determined that the impacted area encompasses approximately 1,969 square feet. The site is situated in a low karst potential area, with groundwater encountered at a depth greater than 55 feet below ground surface (bgs). Based on these site-specific conditions, the applicable remediation standards in accordance with NMOCD Table 1 are 10,000 mg/kg for Chloride and 2,500 mg/kg for Total Petroleum Hydrocarbons (TPH).

Based on the sampling conducted on July 28, 2025, and August 5, 2025, SESI recommends excavating impacted soils to a depth of approximately 2-4 feet bgs where applicable, excavation will be conducted with a backhoe where feasible, and hand augers will be utilized between and around infrastructure areas until analytical data confirms that vertical delineation meets the target concentrations. All excavated material will be transported under manifest to an NMOCD-approved disposal facility.

Notably, soil samples collected beneath the separator infrastructure at locations SS-1, SS-3, SS-4, and SS-5 exceeded regulatory limits. Due to the presence of challenging infrastructure and piping, it is recommended to excavate by hand in this area to remove as much contamination as possible. Once remediation actions are complete, should areas under infrastructure not meet the NMOCD Table 1 parameters, a deferral of remediation for this section will be requested until the final pad reclamation occurs at the time of facility abandonment.

Following excavation, confirmation soil samples will be collected from the base of the excavated area and submitted to Cardinal Laboratories for analysis in accordance with NMOCD Table 1 parameters. Once laboratory results verify that both regulatory closure criteria and SESI's internal remediation targets have been met, the excavated area will be backfilled with clean, compatible material and restored to existing grade in accordance with site specifications.

A final remediation closure report will be prepared and submitted to the NMOCD. This report will include analytical results and details of site restoration activities for regulatory review and approval.

# **Supplemental Documentation**

Document 1: Vicinity Map

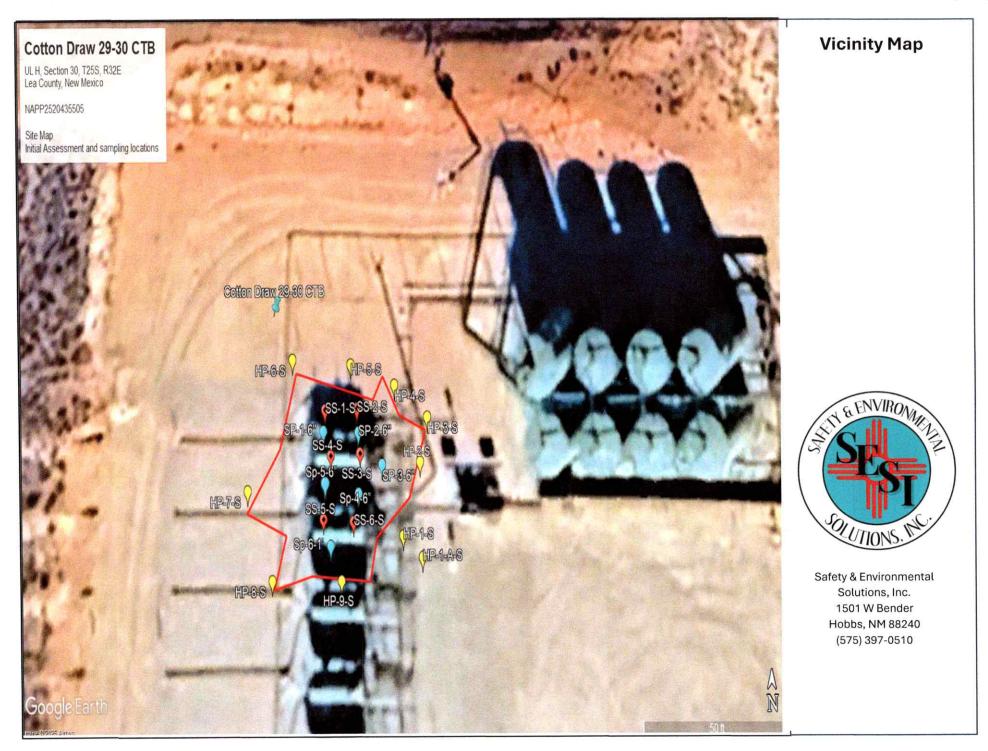
Document 2: OSE information

Document 3: NMOCD Oil and Gas Map

Document 4: BLM Cave Karst Map

Document 5: FEMA Floodplain Map

Document 6: Photographs
Document 7: C-141 initial

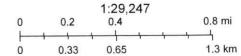


# OSE POD Location Map



8/9/2025, 10:07:46 PM

OSE District Boundary



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

Online web user This is an unofficial map from the OSE's online application.



# New Mexico Office of the State Engineer

# **Active & Inactive Points of Diversion**

			(acre ft per annum)				and no	has been longer ser the file is	ves this		ers are 1 ers are s			SW 4=S	E)	(NAD83 UTM	I in meters)				(in feet)	(in feet)
WR File Nbr	Sub basin	Use	Diversion	County	POD Number	Well Tag	Code	Grant	Source	<b>q64</b>	q16	q4	Sec	Tws	Range	x	Y	Мар	Start Date	End Date		Depth Water
C 04317	CUB	GEO	0.000	LE	C 04317 POD1	NA				NE	SW	NE	36	25S	32E	629792.2	3551223.9	0				
C 04618	CUB	MON	0.000	LE	C 04618 POD1	NA				SW	SE	SW	18	25S	32E	621040.8	3554886.9	•	2022-06-01	2022-06-01	55	
C 04620	CUB	MON	0.000	LE	C 04620 POD1	NA				SE	SW	SE	06	25S	32E	621445.0	3558018.4	•	2022-06-01	2022-06-01	55	
C 04634	CUB	EXP	0.000	LE	C 04634 POD1	NA				SE	SW	SW	10	25S	32E	625642.8	3556522.4	•	2022-06-07	2022-06-07	55	
C 04722	CUB	MON	0.000	LE	C 04722 POD1	NA				SW	SW	NE	29	25S	32E	622962.1	3552530.5	•	2023-06-01	2023-06-01		
				LE	C 04722 POD2	NA				NE	NW	NW	06	25S	32E	620808.2	3559499.5	•	2023-06-01	2023-06-01	55	
C 04795	CUB	EXP	0.000	LE	C 04795 POD1	NA				SE	SE	NW	80	25S	32E	622864.7	3557423.8	•	2024-01-19	2024-01-19		
C 04857	CUB	EXP	0.000	LE	C 04857 POD1	NA				NE	SW	NE	35	25S	32E	628178.1	3551126.7					
C 04879	CUB	EXP	0.000	LE	C 04879 POD1	NA				SW	NW	NW	28	25S	32E	623889.6	3552875.3		2024-10-07	2024-10-07	55	
C 04891	CUB	MON	0.000	LE	C 04891 POD1	NA				NE	NW	NW	27	25S	32E	625617.5	3553080.4	•				
C 04924	CUB	MON	0.000	LE	C 04924 POD1	NA				SE	SE	SW	04	25S	32E	624324.5	3558103.7	•	2024-01-08	2024-01-08	105	
C 04957	CUB	EXP	0.000	LE	C 04957 POD1	NA				SW	SW	SE	33	25S	32E	624598.5	3550047.5	•	2025-05-07	2025-05-07	70	
C 04972	CUB	MON	0.000	LE	C 04972 POD1	NA				NE	NE	NE	34	25S	32E	626804.2	3551481.6	•				
C 04980	CUB	EXP	0.000	LE	C 04980 POD1	NA				SW	SE	SE	21	25S	32E	624217.9	3553251.7					

**Record Count:** 14

Filters Applied:

Basin/County Search:

August 3, 2025 06:16 PM MST

Page 1 of 2

Active & Inactive Points of Diversion (with Well Drill Dates & Depths)



# **NEW MEXICO OFFICE OF THE STATE ENGINEER**

# WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

	For fees, see State Engineer w	ebsite: http://www.ose.state.nm.us/
Purpose:	Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
Exploratory Well (Pump test)	Construction Site/Public Works Dewatering	Other(Describe): Groundwater Determination
☐ Monitoring Well	☐ Mine Dewatering	
A separate permit will be required	to apply water to beneficial use	regardless if use is consumptive or nonconsumptive.
☐ Temporary Request - Request	ted Start Date:	Requested End Date:
Plugging Plan of Operations Subr	mitted?  Yes No	
. APPLICANT(S)		
Name:		Name:
Devon Energy  Contact or Agent:	check here if Agent	Contact or Agent: check here if Agent
	S. Sort Hold II / Gain L	
Dale Woodall  Mailing Address:		Mailing Address:
6488 7 Rivers Hwy		
City: Artesia		City:
State:	Zip Code:	State: Zip Code:
NM Phone: 575-748-1838	88210  ☐ Home ■ Cell	Phone:
Phone (Work):		Phone (Work):
E-mail (optional):		E-mail (optional):
Dale.Woodall@dvn.com		OSE DIT MAY 11 2022 •••8:53
		U3E U11 PHY 112 2022 MING : U3
	TOT OUT INTERNAL LIST	Application for Permit, Form WR-07, Rev 11/17/16
	FOR OSE INTERNAL USE	Tm. No.: 1 2 505) Receipt No.: 7-44561
	Trans Description (optional):	MAN
	Sub-Basin: 0100	PCW/LOG Due Date: 5/19/23

Sub-Basin:

2. W	VELL	(S)	Describe	the	well(s)	applicable	to	this	application
------	------	-----	----------	-----	---------	------------	----	------	-------------

(Lat/Lon	g - WGS84).			State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude e a PLSS location in addition to above.
	State Plane (NAD83) M West Zone M East Zone M Central Zone		TM (NAD83) (Mete ]Zone 12N ]Zone 13N	1/10 <sup>th</sup> of second)
Well N	umber (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-	POD1(TW-1)	-103°43'0.69"	32°7'25.94"	SW SE SW Sec.18 T25S R32S NMPM
Other de Site ID:23	nal well descriptions escription relating well	s are attached:	Yes No	m WR-08 (Attachment 1 – POD Descriptions) If yes, how many
	on land owned by: Bur		ment	
Well Inf				scribed, provide attachment. Attached?   Yes No
	mate depth of well (fe	et): 55		Outside diameter of well casing (inches): 2.375 or 1.315
	lame: Jackie D. Atkins			Driller License Number: 1249
A Soil Bo Temporar	ry well will be in place	th up to 55 feet. Tem	porary PVC well ma ours. If ground wate	aterial will be placed to total depth and secured at surface. er is encountered the boring will be plugged immediately using is than 6.0 gallons of water per 94 lb. sack. If no water is ace and plugged using hydrated bentonite.
		į	FOR OSE INTERNAL	Application for Permit Form WR-07

File No.:

Released to Imaging: 9/8/2025 11:58:36 AM

Trn No.: Page 2 of 3

**4. SPECIFIC REQUIREMENTS:** The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: Pollution Control and/or Recovery: Construction De-Watering: Include a plan for pollution De-Watering:	
description of control/recovery, that includes the	
any proposed following: proposed dewatering	for mine
pump test, if A description of the need for the operation, dewatering.	
applicable. pollution control or recovery operation.   The estimated duration of The estimated maximum process.	
☐ The estimated maximum period of the operation, for completion of the operation	
time for completion of the operation.	to be diverted.
☐ The annual diversion amount. water to be diverted, ☐ The geohydrologic charact	enstics of the
☐ The annual consumptive use ☐ A description of the need aquifer(s).	
amount. for the dewatering operation, The maximum amount of w	vater to be
☐ The maximum amount of water to be and, diverted per annum.	enter to be
	e operation.
	ent of water
	on water
I mode the mater produced and deciral god.	ne aquifer
	d area of
The The characteristics of the aquifer. If or the completed project and line method and place of different duration. If the method of determining the required depths.	
of the planned   resulting annual consumptive use of   The time frame for   water rights and underground	
monitoring. water and depletion from any related constructing the geothermal from the mine dewatering pro	
stream system. heat exchange project, and, A description of the method	ds employed to
☐ Proof of any permit required from the ☐ The duration of the project. estimate effects on surface w	ater rights and
New Mexico Environment Department. Preliminary surveys, design underground water rights.	
☐ An access agreement if the data, and additional ☐Information on existing well	
applicant is not the owner of the land on information shall be included to springs, and wetlands within	the area of
which the pollution plume control or provide all essential facts hydrologic effect.	
recovery well is to be located. relating to the request.	
ACKNOWLEDGEMENT	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dale Woodall (Apr 23, 2022 11:04 MDT)	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall	
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I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Date Woodall (Apr 25, 2022 11:04 MDT)  Applicant Signature  Applicant Signature	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dale Woodall (Apr 25, 2022 11:04 MDT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dale Woodall (Apr 25, 2022 11:04 MDT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:   approved partially approved denied	water in New
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall (Apr 25, 2022 11:04 MDT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:	water in New
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dale Woodall (Apr 25, 2022 11:04 MDT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:  Quapproved partially approved denied  provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of the state of the detriment of any others having existing rights, and is not contrary to the conservation of the state of the state of the state of the detriment of any others having existing rights, and is not contrary to the conservation of the state of the st	water in New
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  Print Name(s)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall Date Woodall (Apr 25, 2022 11:04 MOT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:  approved partially approved denied  provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of we many others and further subject to the attached conditions of approval.	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dale Woodall  Dale Woodall (Apr 25, 2022 11:94 MDT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:  Dapproved partially approved denied  provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.  Witness my hand and seal this day of 20 22, for the State Engineer,  OSE DII MAY 11 2022.	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall Date Woodall (Apr 29, 2022 11-24 MOT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:	
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall  Dal	
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Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:  approved partially approved denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of whexico nor detrimental to the public welfare and further subject to the attached conditions of approval.  Witness my hand and seal this day of 20 27, for the State Engineer,  By:  Signature  Applicant Signature  Action OF THE STATE ENGINEER  This application is:  approved partially approved denied conditions of approval.  Witness my hand and seal this day of 20 27, for the State Engineer,  State Engineer  Fint  Title: Laber Recours Manager I  Print	№8:54 ———
I, We (name of applicant(s)), Dale Woodall (Devon Energy)  affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.  Dale Woodall (ber 15, 2021 15% MOT)  Applicant Signature  ACTION OF THE STATE ENGINEER  This application is:    approved	№8:54 ———



# PLUGGING RECORD



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

	CASAS
State	ngineer Well Number: C-4618
Well	Wher: Devon Energy Phone No.: 575-748-1838
Maili	g address: 6488 7 Rivers Hwy
City:	Artesia State: New Mexico Zip code: 88210
II. W	ELL PLUGGING INFORMATION:
1)	Name of well drilling company that plugged well:
2)	New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
4)	Date well plugging began: 6/6/2022 Date well plugging concluded: 6/6/2022
5)	GPS Well Location: Latitude: 32 deg, 7 min, 25.94 sec Longitude: 103 deg, 43 min, 0.69 sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as:55 ft below ground level (bgl), by the following manner: water level probe
7)	Static water level measured at initiation of plugging:n/a ft bgl
8)	Date well plugging plan of operations was approved by the State Engineer:5/19/2022
9)	Were all plugging activities consistent with an approved plugging plan? Yes If not, please described differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):
	OSE ON JUN 10 2022 MM9:23

Version: September 8, 2009

Page 1 of 2

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 <u>Material Used</u> (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 galions	15 gallons	Augers	
-	10'-55'				
<del>-</del>	Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	
-					
				ORAN DAN	[LA, 1,0 2022 ax3:20
 					3
		MULTIPLY cubic feet x 7- cubic yards x 201	BY AND OBTAIN 4605 = gallons 97 = gailons		1

# III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins	6/9/2022
Signature of Well Driller	Date

Version: September 8, 2009 Page 2 of 2



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

# www.ose.state.nm.us

ON	OSE POD NO. (V POD 1 (TW-		0.)		WELL TAG ID NO N/A	).		OSE FILE NO C-4618	)(S).			
GENERAL AND WELL LOCATION	WELL OWNER Devon Energ		)					PHONE (OPTIONAL) 575-748-1838				
TT	WELL OWNER							CITY		STA		ZIP
WE	6488 7 Rive	s Hwy						Artesia		NM	88210	
ND	WELL	T	DE	EGREES	MINUTES	SECON						
AL.	LOCATION	LA	TITUDE	32	7	25.9	N		Y REQUIRED: ONE TEN EQUIRED: WGS 84	TH OF	A SECOND	
NER	(FROM GPS)		NGITUDE	103	43	0.6						
1. GE			NG WELL LOCATION TO T25S R32S NMPM	STREET ADD	RESS AND COMMO	N LANDMA	ARKS – PLS	SS (SECTION, T	OWNSHJIP, RANGE) WI	HERE A	VAILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER					NAME OF WELL DE	ULLING	G COMPANY	
	1249			1	Jackie D. Atkins	3				<del>.</del>	ng Associates, I	
	DRILLING STA 6/1/202		DRILLING ENDED 6/1/2022		MPLETED WELL (F mporary Well	T)		LE DEPTH (FT) ±55	DEPTH WATER FIR		COUNTERED (FT)	
z	COMPLETED V	ELL IS:	ARTESIAN	✓ DRY HOL	E SHALLO	OW (UNCO	NFINED)		WATER LEVEL MPLETED WELL N	I/A	DATE STATIC	
TIO	O DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:											
DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMM		MER CABI	LE TOOL 📝 OTH	IER – SPEC	IFY: I	Hollow Stem	Auger CHECK	K HERE LLED	IF PITLESS ADAI	TER IS	
VFO	DEPTH (fe	et bgl)	BORE HOLE	CASING	MATERIAL ANI	D/OR		ASING	CASING	CA	SING WALL	SLOT
NG I	FROM	то	DIAM	(include	GRADE each casing string	and	CON	NECTION	INSIDE DIAM.	1	HICKNESS	SIZE
ASI			(inches)	note	sections of screen			TYPE oling diameter)	(inches)		(inches)	(inches)
& C	0	55	±6.5		Boring-HSA				-	$\vdash$		-
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RIA	FROM	ТО		-					1			
ATE				+								
RM												
OL.												
ANNULAR MATERIAL												
6.				<del> </del>								
											C 01	9/2022
	OSE INTERN	AL USE	·		POD N	0	1		NO. +76	a LO	(Version 01/2	8/2022)
-	CATION 7	801	31F 18	34				WELL TAG			PAGE	1 OF 2
LLUC	ALIUN 1	1 1	7/1	) 1				THE MANUEL TATE	*** ****			

	DEPTH (	feet bgI) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	Sand, Fine-grained, poorly graded, 2.5 YR 5/6, Red	Y /N	
	6	24	18	Sand, Fine-grained, poorly graded, unconsolidated, with Caliche 7.5 YR 7/6, Re-		
	24	55	31	Sand, Fine-grained, poorly graded,unconsolidated, 7.5 YR 75/6, Brown	Y ✓N	
					Y N	
					Y N	
ر					Y N	
VEL					Y N	
OF V					Y N	
90				,	Y N	
HYDROGEOLOGIC LOG OF WELL			<u> </u>		Y N	
90′					Y N	
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ROG					Y N	
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4.					Y N	
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1					Y N	
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					Y N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA: TOT	AL ESTIMATED	
	PUM	P 🗆 A	IR LIFT	BAILER OTHER - SPECIFY: WE	LL YIELD (gpm):	0.00
NO	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER TH	ING DISCHARGE I IE TESTING PERIO	METHOD, DD.
5. TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	be 23	otton Draw Unit 507H	ttings from total derface.	
ST; 1						
S. TE	PRINT NAM Shane Eldri			VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRU	CTION OTHER TE	IAN LICENSEE:
6. SIGNATURE	AND THE P	RECORD O	F THE ABOVE I	PIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, TO DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD DAYS AFTER COMPLETION OF WELL DRILLING:	THE FOREGOING RD WITH THE ST	IS A TRUE AND ATE ENGINEER
6. SIGN	Jack A	Itkins		Jackie D. Atkins	6/9/2022	
		SIGNAT	TURE OF DRILLI	R / PRINT SIGNEE NAME	DATE	
FOI	R OSE INTER	NAL USE		WR-20 WELL RE	CORD & LOG (Ve	rsion 01/28/2022)
	ENO.	4618		POD NO. TRN NO.	15951	
1.0	CATION	152	30E	18 343 WELL TAG ID NO.	_	PAGE 2 OF 2



# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

May 17, 2022

Devon Energy 6488 7 Rivers Highway Artesia, NM 88210

RE: Well Plugging Plan of Operations for C-4618-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer.

- (1) Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.
- (2) In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor is required. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30, 19.27.4.31, 19.27.4.33 NMAC, and all specific conditions of approval. While conducting the well drilling activities, the Well Driller shall maintain a copy of the approved permit, conditions and Well Plugging Plan of Operations on-site and available for inspection upon request.
- (3) Well that encounters water Maximum 6 gallons water per 94 lb. sack Portland Cement
- (4) Dry hole Drill cuttings used to ten feet of land surface. Hydrated bentonite Fresh water to be added above water column at rate of 5 gallons per 50-lb sack/bucket.
- (5) Any deviation from this plan <u>must</u> obtain an approved variance from this office prior to implementation.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <a href="https://www.ose.state.nm.us/Statewide/wdForms.php">https://www.ose.state.nm.us/Statewide/wdForms.php</a>.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh

Water Resources Manager I



# WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this for	rm.		
II. GENERAL / WELL OWNERSHIP:	Check here if proposing on	e plan for multiple monitoring	wells on the same site and attaching WD-08
Existing Office of the State Engineer POD Num Name of well owner: Devon Energy	iber (Well Number)	for well to be plugged:	C- 66(8 - (POD-1)
Mailing address: 6488 7 Rivers Hwy		County:	Eddy
City: Artesia	State:	NM	Zip code: 88210
Phone number: 575-748-1838	E-mail:	Dale.Woodall@dvn.cor	
III. WELL DRILLER INFORMATION: Well Driller contracted to provide plugging service	es · Jackie D. Atkins (	Atkins Engineering Asso	ociates)
New Mexico Well Driller License No.: 1249		Expiration Dat	
New Mexico Well Diffiel Electise No.:		Expiration Dat	
Note: A copy of the existing Well Record for the v  1) GPS Well Location: Latitude: Longitude:  2) Reason(s) for plugging well(s):	32deg,	7 min, 25.94 43 min, 0.69	sec
Soil boring to determine groundwater leve	ıl	OS	E DII MAY 11 2022 AM8:52
Was well used for any type of monitoring what hydrogeologic parameters were monuted water, authorization from the New Mexico	onitored. If the wel	l was used to monitor	contaminated or poor quality
4) Does the well tap brackish, saline, or other	erwise poor quality w	ater? N/A If	yes, provide additional detail,
including analytical results and/or laborate	ory report(s):		
5) Static water level:Unknownfeet b	elow land surface / fe	et above land surface (	circle one)
6) Depth of the well:feet			
			WD-08 Well Plugging Plan Version: July 31, 2019

-

Page 1 of 5

7)	Inside diameter of innermost casing:inches.						
8)	Casing material: Temporary PVC SCH 40						
9)	The well was constructed with:  an open-hole production interval, state the open interval:  a well screen or perforated pipe, state the screened interval(s):						
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? N/A						
11)	Was the well built with surface casing? If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? If yes, please describe:						
12)	Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.						
Y. D	ESCRIPTION OF PLANNED WELL PLUGGING: If pingging method differs between multiple wells on same site, a separate form must be completed for each method.						
diagra	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed n of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such shysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.						
Also, if	this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.						
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology						
	proposed for the well:						
	The temporary 1° or 2° well material will be removed. Tremied from bottom to land Neat Cement in lifts						
2)	Will well head be cut-off below land surface after plugging? N/A						
VI. P	LUGGING AND SEALING MATERIALS:						
Note: from ti	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe se cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.						
1)	For plugging intervals that employ cement grout, complete and attach Table A.						
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.						
3)	Theoretical volume of grout required to plug the well to land surface: 87						
4)	Type of Cement proposed: Type I/II Neat Cement						
5)	Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.						
6)	Will the grout be: batch-mixed and delivered to the site						
•	× mixed on site OSE DII MAY 11 2022 №8:52						

WD-08 Well Plugging Plan Version: July 31, 2019 Page 2 of 5

7)	Grout additives requested, and percent by dry wei	ght relative to cement:	
	N/A		
8)	Additional notes and calculations:		
0)	Site ID:23		
	Location Name:Cotton Draw Unit 507H		
VII. AI	DDITIONAL INFORMATION: List additional i	nformation below, or on separat	e sheet(s):
surface	nporary well material will be removed. If no water is and plugged using hydrated bentonite. If ground wa rry of Portland TYPE I/II Neat cement in lifts. A 6.5"	ater is encountered the boring wi	
1			
1			
	IGNATURE:		
7		that I have carefully read the for	
	ons and any attachments, which are a part hereof; the pertaining to the plugging of wells and will comp		
	Plan of Operations and attachments are true to the		
	Itale Hookall		04/25/2022
		Signature of Applicant	Date
IV AC	TION OF THE STATE ENGINEER:		
IA. AC	HON OF THE STATE ENGINEER.		
This We	Il Plugging Plan of Operations is:		OSE DIT MAY 11 2022 MR:52
This We	ell Plugging Plan of Operations is:		OSE DIT MAY 11 2022 №8:52
This We	Approved subject to the attached condition		OSE DIT MAY 11 2022 •••8:52
This We	Approved subject to the attached condition  Not approved for the reasons provided or	n the attached letter.	
This We	Approved subject to the attached condition  Not approved for the reasons provided or	n the attached letter.	
This We	Approved subject to the attached condition  Not approved for the reasons provided or	n the attached letter.	
This We	Approved subject to the attached condition  Not approved for the reasons provided or		2022
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	New Mexico State Engineer
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	New Mexico State Engineer
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	New Mexico State Engineer
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	2022
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	New Mexico State Engineer  AP PAREKH  WD-08 Well Plugging Plan
This We	Approved subject to the attached condition  Not approved for the reasons provided or	day of Mantonio Jr. P.E., 1	New Mexico State Engineer  AP PAREKHI  W. R.M. F

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

Michigan Street	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	N/A
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	55
Theoretical volume of grout required per interval (gallons)	N/A	N/A	87
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A DSE DII MAY 11 2022 AM8:52

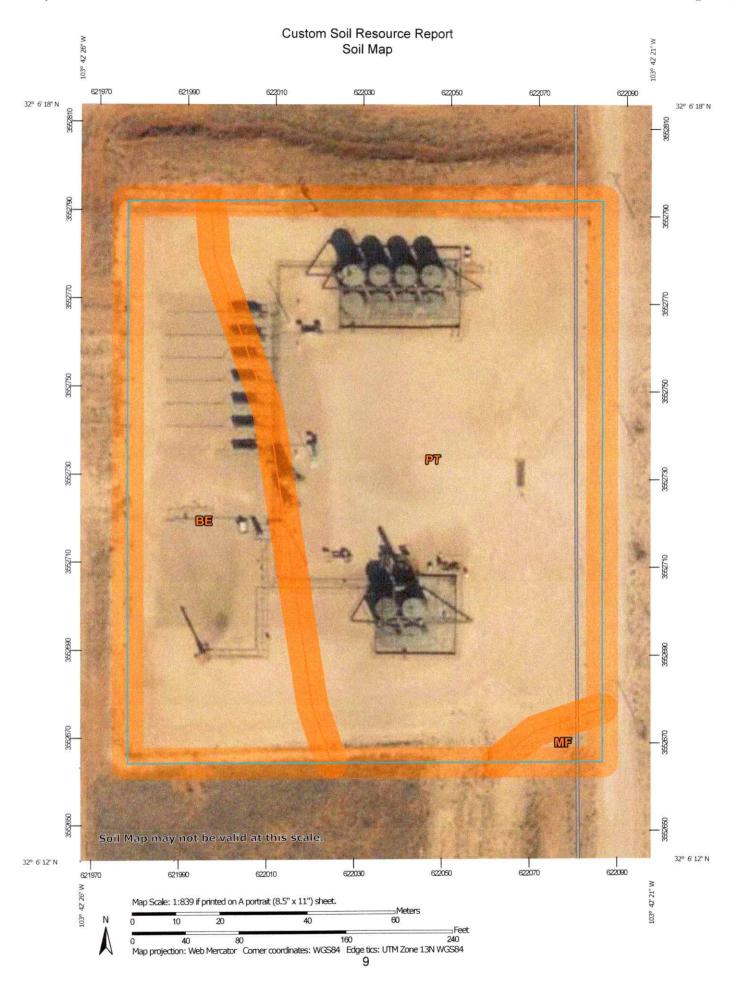
WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	15
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

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WD-08 Well Plugging Plan Version: July 31, 2019 Page 5 of 5



#### MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) Spoil Area 1:20,000. Area of Interest (AOI) â Stony Spot Soils 0 Very Stony Spot Warning: Soil Map may not be valid at this scale. Soil Map Unit Polygons 87 Wet Spot Soil Map Unit Lines Enlargement of maps beyond the scale of mapping can cause Other misunderstanding of the detail of mapping and accuracy of soil Soil Map Unit Points line placement. The maps do not show the small areas of Special Line Features **Special Point Features** contrasting soils that could have been shown at a more detailed **Water Features** Blowout scale. (0) Streams and Canals Borrow Pit O Transportation Please rely on the bar scale on each map sheet for map Clay Spot 英 +++ Rails measurements. Closed Depression 0 Interstate Highways Source of Map: Natural Resources Conservation Service Gravel Pit **US Routes** Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Gravelly Spot Major Roads Landfill 0 Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Lava Flow Background distance and area. A projection that preserves area, such as the Marsh or swamp Aerial Photography Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. Mine or Quarry Miscellaneous Water This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Perennial Water Rock Outcrop Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024 Saline Spot Sandy Spot Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Severely Eroded Spot Sinkhole Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020 Slide or Slip Sodic Spot The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	1.0	30.4%
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	0.0	1.3%
PT	Pyote loamy fine sand	2.3	68.3%
Totals for Area of Interest		3.4	100.0%

# **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# Lea County, New Mexico

# BE—Berino-Cacique loamy fine sands association

### Map Unit Setting

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

Mean annual precipitation: 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

# MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

#### **Map Unit Setting**

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

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

### Map Unit Composition

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

# Description of Maljamar

### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary rock

#### Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

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

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 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 5.6 inches)

#### Interpretive groups

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

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

# **Description of Palomas**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Alluvium derived from sandstone

## Typical profile

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy 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: 45 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 7.5 inches)

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

# **Kermit**

Percent of map unit: 5 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

#### Wink

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

# 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

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 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 5.3 inches)

### Interpretive groups

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

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

# **Minor Components**

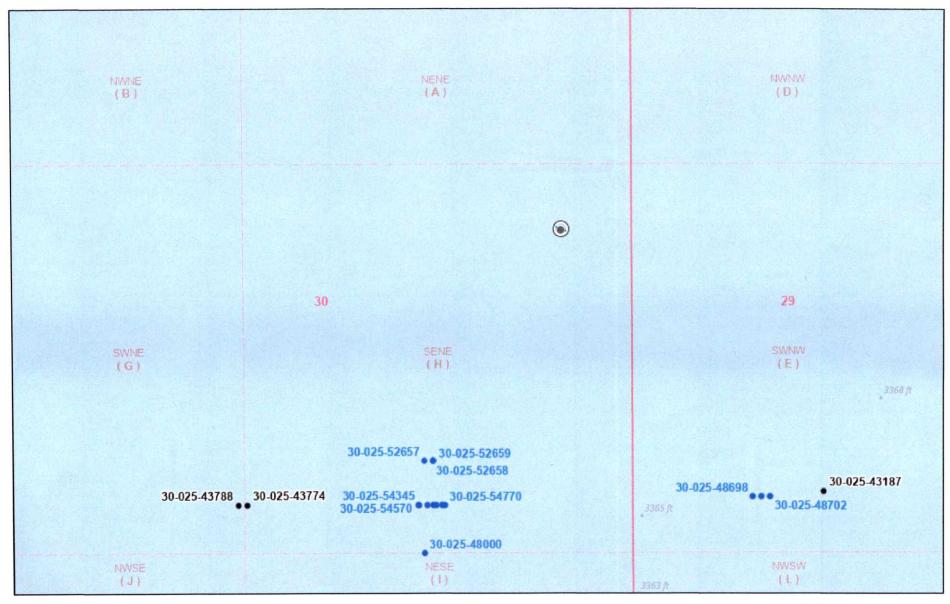
# Maljamar

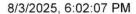
Percent of map unit: 8 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

# **Palomas**

Percent of map unit: 7 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

# OCD Well Locations | Karst Map





Wells - Large Scale Incident Release

Oil, Active Oil, New

Produced Water Release

PLSS Second Division

Karst Occurrence Potential

**PLSS First Division** 

1:4,514 0.03 0.07 0.13 mi 0.05 0.1 0.2 km

BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri,

New Mexico Oil Conservation Division

Low

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75. New Mexico Oil Conservation Division

Released to Imaging: 9/8/2025 11:58:36 AM

# Received by OCD: 8/25/2025 8:15:01 AM National Flood Hazard Layer FIRMette





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 STRUCTURES IIIIII Levee, Dike, or Floodwall B 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation 8 - - - Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER Profile Baseline **FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below.

The basemap shown complies with FEMA's basemap accuracy standards

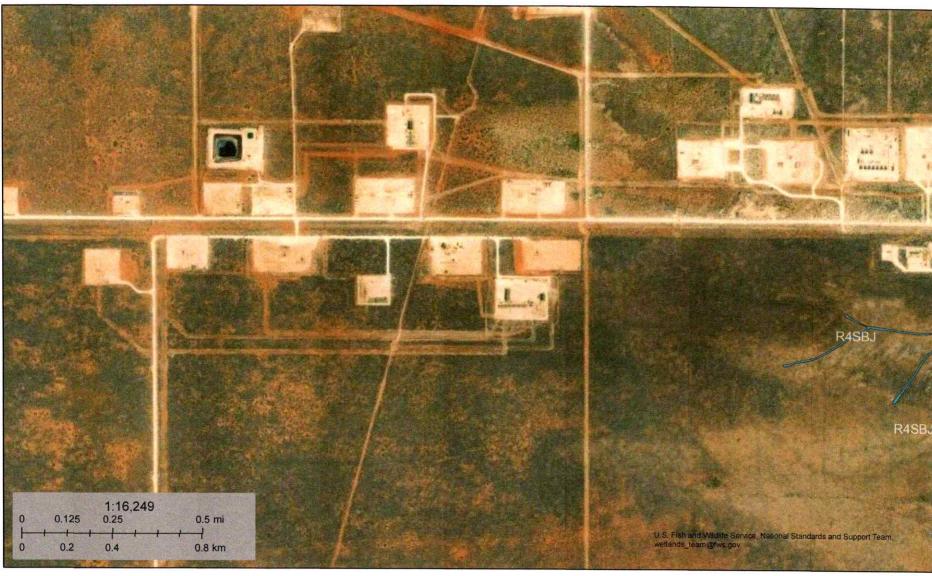
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2025 at 8:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.



# U.S. Fish and Wildlife Service National Wetlands Inventory

# Wetlands Map



August 10, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

011

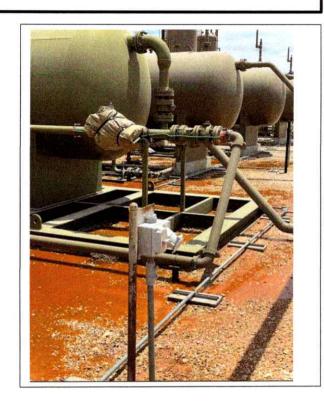
Other

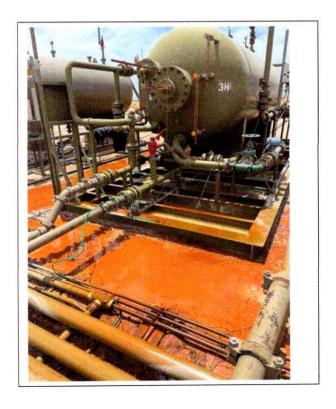
Riverine

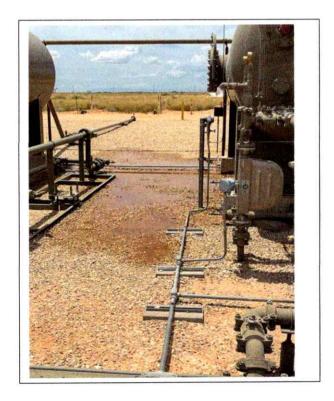
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Cotton Draw 29-30 Central Tank Battery

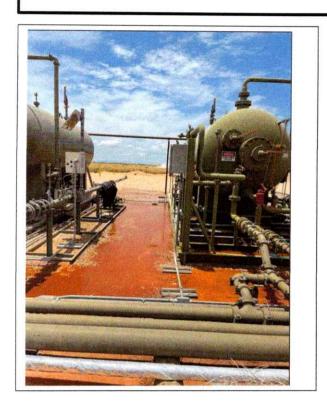






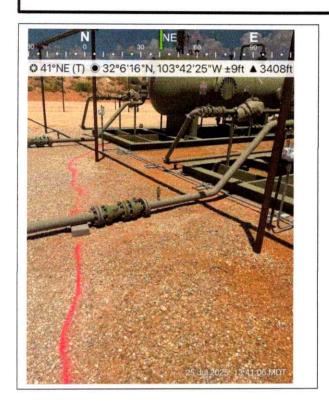


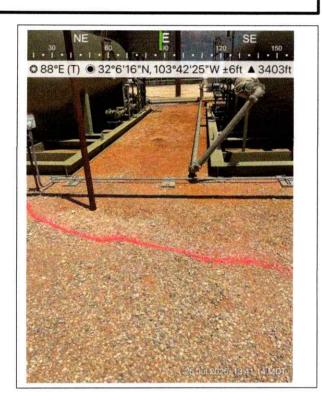
# Cotton Draw 29-30 Central Tank Battery

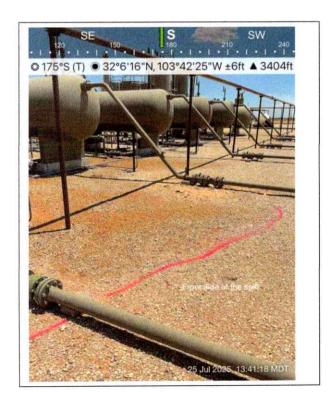


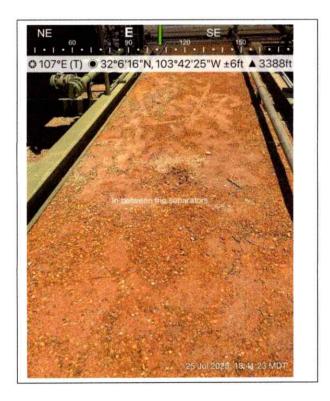


# Cotton Draw 29-30 Central Tank Battery July 25, 2025

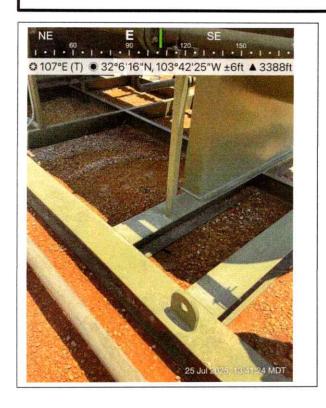


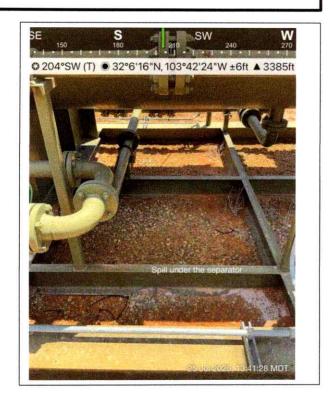


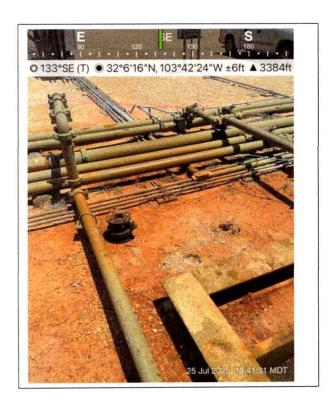


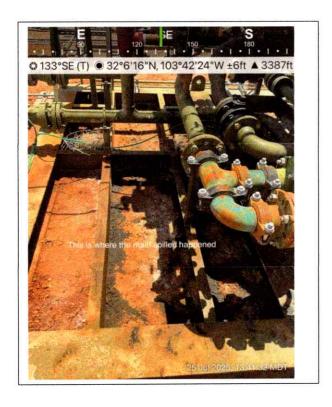


# Cotton Draw 29-30 Central Tank Battery July 25, 2025

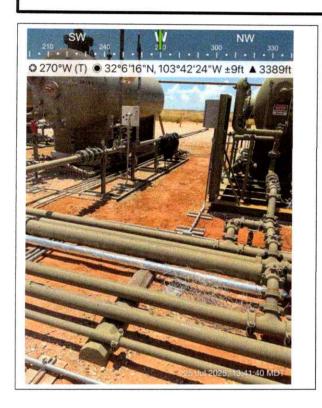


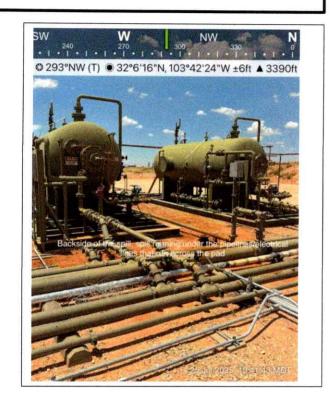






# Cotton Draw 29-30 Central Tank Battery July 25, 2025







August 04, 2025

LESLIE MENDENHALL
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: COTTON DRAW 29-30 CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/29/25 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

**DEV-25-**

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

ma/ka

Sample ID: SP - 1 - 6" (H254588-01)

BIEX 8021B	my	/ kg	Anaiyze	u by: Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/30/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	< 0.150	0.150	07/30/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg Analyzed By: KH							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	95.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.8	% 40.6-15	3						

# Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

**DEV-25-**

Project Location:

DEVON -

Sample Received By:

Shalyn Rodriguez

# Sample ID: SP - 2 - 6" (H254588-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/30/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.4	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported:

Project Name:

07/29/2025

08/04/2025

COTTON DRAW 29-30 CTB

Project Number: Project Location: **DEV-25-**DEVON - Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

Shalyn Rodriguez

07/28/2025

Sample ID: SP - 3 - 6" (H254588-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/30/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	32.5	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	91.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

Sample ID: SP - 4 - 6" (H254588-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/30/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	22.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	93.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.8	40.6-15	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

Sample ID: SP - 5 - 6" (H254588-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg Analyzed By: Ki			d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

Sample ID: SP - 6 - 1' (H254588-06)

				- Intro-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	< 0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg Analyzed I			d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	88.5	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

ma/ka

Sample ID: HP - 1 - S (H254588-07)

BIEX 8021B	my,	kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	227	114	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	108	200	0.676	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	95.4	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	91.2	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

Sample ID: HP - 2 - S (H254588-08)

DIENGOLLD	9	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.4-14	5						
Surrogate: I-Chlorooctadecane	95.0	% 40.6-15	3						

Surrogate: 1-Chlorooctadecane 95.0 % 40.6-153

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

00/04/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

mg/kg

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

Sample ID: HP - 3 - S (H254588-09)

				Management of the Control of the Con					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	< 0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	< 0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg Analyzed By: KH								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	104	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 10 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

Sample ID: HP - 4 - S (H254588-10)

DIEX GOZID	ilig/	Ng .	Allaryzo	d by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	g/kg Analyzed By: KH							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	105 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	104 9	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: 1H

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

DTEV 9021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

Sample ID: HP - 5 - S (H254588-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	< 0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg Analyzed By: KH								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	105	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	103	% 40.6-15	3						

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Celey D. Keene, Lab Director/Quality Manager

Page 12 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

Sample ID: HP - 6 - S (H254588-12)

BTEX	8021B	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	< 0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	< 0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	ka	Analyze	d By: KH					
emoriacy strisecer b	91								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
A CONTROL OF THE PROPERTY OF T	2501 1000				BS 416	% Recovery	True Value QC	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 07/30/2025	Method Blank		100000	A Wast House Card		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 07/30/2025	Method Blank		100000	A Wast House Card		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 64.0 mg/	Reporting Limit 16.0 kg	Analyzed 07/30/2025 Analyze	Method Blank ND d By: MS	416	104	400	0.00	
Analyte  Chloride  TPH 8015M  Analyte	Result 64.0 mg/	Reporting Limit 16.0  kg  Reporting Limit	Analyzed 07/30/2025 Analyze	Method Blank  ND  d By: MS  Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	

Analyzed By: JH

Surrogate: 1-Chlorooctane 98.2 % 44.4-145 Surrogate: 1-Chlorooctadecane 102 % 40.6-153

Cardinal Laboratories

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 13 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

07/29/2025

Sampling Date:

07/28/2025

Reported:

BTEX 8021B

08/04/2025

Sampling Type:

Soil

Project Name:

COTTON DRAW 29-30 CTB

Sampling Condition:

Cool & Intact

Project Number:

DEV-25-

Sample Received By:

Shalyn Rodriguez

Project Location:

DEVON -

mg/kg

106%

40.6-153

Sample ID: HP - 7 - S (H254588-13)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	108	% 44.4-14	5						

Analyzed By: JH

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 14 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Analyzed By: JH

Received: Reported:

BTEX 8021B

07/29/2025

08/04/2025

mg/kg

COTTON DRAW 29-30 CTB

Project Name: Project Number: Project Location:

DEV-25-DEVON - Sampling Date:

Sample Received By:

07/28/2025 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Shalyn Rodriguez

Sample ID: HP - 8 - S (H254588-14)

·									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					

44.4-145 Surrogate: 1-Chlorooctane 108 % 40.6-153 Surrogate: 1-Chlorooctadecane 108 %

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 15 of 19



# Analytical Results For:

Safety & Environmental Solutions LESLIE MENDENHALL 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: Reported:

BTEX 8021B

07/29/2025

08/04/2025

Project Name: Project Number: COTTON DRAW 29-30 CTB **DEV-25-**

mg/kg

108 %

40.6-153

Project Location:

DEVON -

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

07/28/2025

Soil

Cool & Intact

Shalyn Rodriguez

Sample ID: HP - 9 - S (H254588-15)

DILX 00210	mg/	Ng .	Alldiyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2025	ND	1.97	98.6	2.00	2.92	
Toluene*	<0.050	0.050	07/31/2025	ND	1.98	99.2	2.00	0.929	
Ethylbenzene*	<0.050	0.050	07/31/2025	ND	2.02	101	2.00	0.950	
Total Xylenes*	<0.150	0.150	07/31/2025	ND	6.40	107	6.00	0.416	
Total BTEX	<0.300	0.300	07/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2025	ND	221	111	200	3.41	
DRO >C10-C28*	<10.0	10.0	07/30/2025	ND	215	107	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/30/2025	ND					
Surrogate: 1-Chlorooctane	109 %	6 44.4-14	5						

Analyzed By: JH

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Page 16 of 19



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit RPD

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Page 17 of 19



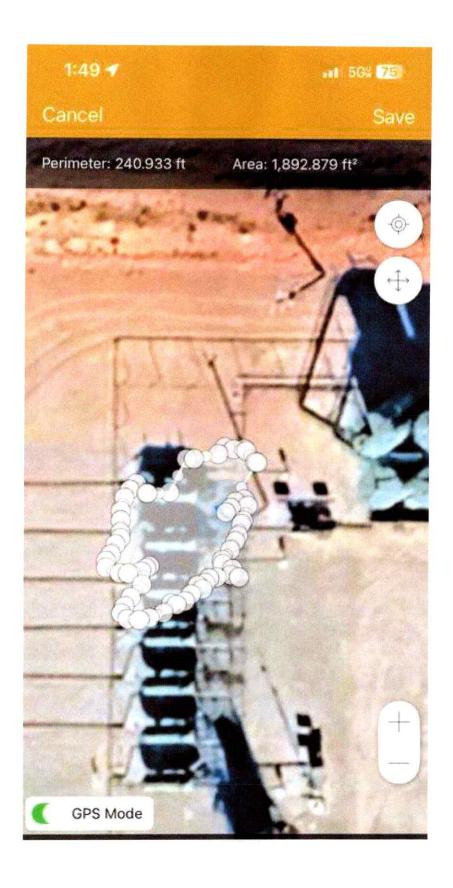
# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		- I MILD HITAL TOTO NEGOEST
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (576) 393-2476		Page 1 of 2
Safety and Environmental Solutions	BILLTO	0
Project Manager: Leslie Mendenhall		ANALYSIS REQUEST
Address: 1501 W Bender, PO Box 1613	P.O. #: 21653671 Company: Devon Enevir	
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: 575 397-0510 Fax #: 575 393-4388		
Desired A DEV DE	Address:	
The state of the s	City:	
all at 13 and 21 30 Cr	State: Zip:	
	Phone #:	
Sampler Name: Emmer J Romo	Fax #:	
MATRIX	PRESERV. SAMPLING	
(CJOMP ERS ATER		
Lab I.D. Sample I D. VERS	5 4	
Lab I.D. Sample I.D.	I BOW	
Tap I.D. Sample I.D. #CONTAINERS GROUNDWATER WASTEWATER SOIL	STUDGE OTHER: ACIDIBASE: ACIDIBAS	
SP-1-10 1 GII X	V No Louis V C C	
2 SP-2-1011 GI		
3 58-3-611 61	1990019	
4 SP-4-6" GI		
5 SP-6-611 GI	728 8 49	
6 SP-6-1' GI	169-8033	
7 HP-1-5 GI	7/28/75 9:35	
B HP-2-5 GI	7/20/75/75	
9 40-3-5 611	72739.92	
10 HP-4-8	7/20/20:45	
EASE NOTE: Usbelly and Damages. Cardinal's leability and clearly exclusive famody for any claim easing whether based in control styres. As claims including those for nephgence and any other cause elementary shall be depressed in control.	act or land, shall be britished to the amount paid by the depth for the	
raice. In no event shall Cardinal be Vable for incidental or consequental damages, including without sinstallon, business interruption.	nod reconved by Cardinal within 30 days effer completion of the applicable s, loss of use, or loss of profits increment by others, the profit of the	
elinquished By:  Date: Received By:	in the behald upon any of the above stated research or otherwise.	
Land a land a Diman Solodo	Phone Result: D Yes 20 No	
alinguished by	Chuy REMARKS:	
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

				AND ANALIOIS	TEGOESI	
101 East Marland, Hobbs, N	M 88240		Daco	7 2 7		
Company Name (575) 393-2326 FAX (575) 38 Safety and Environme	3-2476		ray	2 OT O		
Project Manager: Leslie Mendenhall	The Conditions	BILLTO		ANALYSIS REQUEST		
		P.O. #: 21653671			T	
Cu John Tr Donder, 10 DOX 1	the second secon	Company: DOVOV	noncial			
F76 000 00	NM Zip: 88240	Attn:	1 of			
	575 393-4388	Address:				
Project #: DEV - 25 - Project	Owner: DQVOV	City:				
Project Name: Catton Dyaw	29-30 CTB	State: Zip:				
Project Location: Cotton Dray	29-30 CTB	Phone #:				
Sampler Name: EMWer ()	Romo	Fax #:				
ON DIE ONE T	MATRIX	PRESERV. SAMPLING				
	(C)OMP ERS ATER		D			
Lab I.D. Sample I.D.			Chloride TPH BTEX			
	(G)RAB OR # CONTAIN GROUNDW WASTEWAT SOIL	ACIDIBASE OTHER: OTHER: THERE	SIN			
H254588	(G)RA # CON GROU WAST SOIL	OTHER:  ACIDIANS  OTHER:  ALICA COO  OTHER:  ALICA COO  OTHER:	5 4 5			
11 HP-5-5			V V			
12 HP-6-5	GII	X 7/28/25 9.53	XXX			
13 HP-7-5	61111	7/28/25 (9.57	++++-	+		
14 HP-8-5	GI	7/20/25 10:22		+		
13 HP-9-5	GIIII	7/28/5 10:21				
		100	1111			
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Dar 1 of 1. dt	25 Colored by:	Phone Res Fax Result		Add'l Phone #: Add'l Fax #:		
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ampler - UPS - Bus - Other: 57	Cred Introt	(IrtiNate) 1				
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Spill Volume Calculations							
	Free Standing Fluid Volume						
How do you want	to enter area?		Total area f	rom app			
Area from app (ft²)	900.00						
Depth of fluid				0.50 in			
Number of Tanks in Flo		ny):		0			
Tank Diameter (if need	led):			15.5 ft			
Volume of Standing Flu	ıid			6.68 bbl			
	Contaminated So	il Calc	ulations				
How do you want	ow do you want to enter area? Total area from app						
	-						
Area from app (ft²)	900.00						
Depth of impacted soil		0.25	in				
Soil Type		Ca	liche				
Spilled Material	Oil / Produced Water						
Soil Saturation	Moist - some color change; little to no moisture left on hands						
Volume of Spill In Soil			0.75	bbls			
Total Spill Volume			7.43	bbls			

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- Mister

Event

Order

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7/23/25, 1:36 PM

SIGN-IN HELP

Searches

Mines

Federal

Operator Data

Hearing Fee Application

# **OCD Permitting**

Incident Details

# NAPP2520435505 COTTON DRAW 29-30 CTB @ 0

# General Incident Information

Site Name

Welf

Facility (APP2130734795) COTTON DRAW 29-30 CTB

Operator

[6137] DEVON ENERGY PRODUCTION COMPANY LP

Status

Notification Accepted. Panding submission of Initial C-141 from the operator Produced Water Release

Type:

H-30-25S-32E 1542 FNL 240 FEL

Lat/Long:

32.10432422 -163.766636 NAD83

Directions.

Source of Referral Industry Rep

Resulted to Fire:

Endangered Public Health:

Fresh Water Contamination

Action / Escalation:

Resulted in Injury:

Surface Owner.

County

Will or Has Reached Watercourse:

Property Or Environmental Damage:

### Contact Details

Contact Name

Contact Title

# Event Dates

Date of Discovery:

07/22/2025

Initial C-141 Report Due

Remediation Closure Report Due:

# Incident Dates

Notification

487967

07/23/2025

# Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

### Incident Materials

7/23/25, 1:36 PM

			3 9 99
	Searches	Operator Data	Hearing Fee Application
a validate no duem per tel dispersiva, legal valisada. <b>Yes No</b>			
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Incident Events			
INCIDENT EVERS			

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### Incident Severity

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# Incident Corrective Actions

## initial Response

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## Orders

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

Action 498326

# **QUESTIONS**

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	498326
ı		Action Type:
ı		[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2520435505			
Incident Name	NAPP2520435505 COTTON DRAW 29-30 CTB @ FAPP2130734795			
Incident Type	Produced Water Release			
Incident Status	Remediation Plan Received			
Incident Facility	[fAPP2130734795] COTTON DRAW 29-30 CTB			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	COTTON DRAW 29-30 CTB			
Date Release Discovered	07/22/2025			
Surface Owner	Federal			

Incident Details				
Please answer all the questions in this group.				
Incident Type	Produced Water Release			
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	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion   Separator   Produced Water   Released: 7 BBL   Recovered: 3 BBL   Lost: 4 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)	Pinhole leak developed on separator, allowing produced water to impact pad surface.	

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# **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 498326

QUESTI	ONS (continued)
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 498326
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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	T ·
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 of 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 releate OCD does not relieve the operator of liability should their operations have failed to a	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: 08/25/2025

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 498326

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	498326
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that app	ly or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan a	approval with this submission	Yes
Attach a comprehensive report demonstr	rating the lateral and vertical extents of soil contamination	n 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 exte	nts of contamination been fully delineated	Yes
Was this release entirely contain	ed within a lined containment area	No
Soil Contamination Sampling: (Pro	vide the highest observable value for each, in mi	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	27200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	32
GRO+DRO	(EPA SW-846 Method 8015M)	32
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	unless the site characterization report includes completed for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAG
On what estimated date will the i	remediation commence	08/30/2025
On what date will (or did) the fina	al sampling or liner inspection occur	09/15/2025
On what date will (or was) the re	mediation complete(d)	10/15/2025
What is the estimated surface an	ea (in square feet) that will be reclaimed	1969
What is the estimated volume (in	cubic yards) that will be reclaimed	292
What is the estimated surface ar	ea (in square feet) that will be remediated	1969
What is the estimated volume (in	cubic yards) that will be remediated	292
These estimated dates and measurement	ts are recognized to be the best guess or calculation at th	e time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed reme	ediation measures may have to be minimally adjusted in a	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.

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

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 498326

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	498326
	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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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.
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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: 08/25/2025

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.

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# 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 498326

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	498326
	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

Requesting a remediation closure approval with this submission

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# 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 498326

**QUESTIONS** (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP	OGRID: 6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	498326
	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.

No

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

CONDITIONS

Action 498326

### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	498326
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

## CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written except with the following conditions; 1. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, Jay Management must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 2. Devon has 90-days (December 8, 2025) to submit to OCD its appropriate or final remediation closure report.	9/8/2025