

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Incident ID	NAPP2114127159
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone 575-748-1838
Contact email dale.woodall@dev.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia NM 88210	

### Location of Release Source

Latitude 32.255311 Longitude -103.5727709  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Thistle Trunkline	Site Type
Date Release Discovered 5/20/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	33	23S	33E	LEA

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls) 256.61 bbls	Volume Recovered (bbls) 195 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

Ball valve on main water line riser failed causing fluid release

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Spill is over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR was completed on the OCD website	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  Spill was not in containment	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>DALE WOODALL</u> Signature: <u>[Signature]</u> email: <u>DALE.WOODALL@DUN.COM</u>	Title: <u>ENV. PROFESSIONAL</u> Date: <u>4/22/2022</u> Telephone: <u>575-748-1836</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	



## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

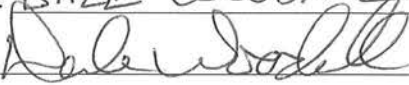
### Characterization Report Checklist: *Each of the following items must be included in the report.*

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

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

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

Printed Name: DALE WOODALL Title: ENV. PROFESSIONAL  
Signature:  Date: 4/27/2022  
email: DALE.WOODALL@DVN.COM Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: DALE WOODALL Title: ENV. PROFESSIONAL  
 Signature: [Signature] Date: 4/27/22  
 email: DALE.WOODALL@DVN.COM Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 05/19/2022



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## Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

C-141

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2013  
Submit to appropriate OCD District office

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Facility ID	
Application ID	

## Release Notification

## Responsible Party

Responsible Party	Devon Energy Production Company	OGRID	6137
Contact Name	Wesley Mathews	Contact Telephone	575-578-6195
Contact email	Wesley.Mathews@dvn.com	Incident # (assigned by OCD)	
Contact mailing address	6488 Seven Rivers Hwy Artesia, NM 88210		

## Location of Release Source

Latitude 32.2552311 Longitude -103.5727709  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Thistle Trunkline	Site Type	
Date Release Discovered	5/20/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
P	33	23S	33E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

## Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 256.61 BBLS	Volume Recovered (bbls) 195 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Ball valve on main water line riser failed causing fluid release.

C-141

Form C-141

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Spill is over 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR was completed on the OCD website.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Spill was not in containment.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra DeHoyos</u>	Title: <u>EHS Associate</u>
Signature: <u>Kendra DeHoyos</u>	Date: <u>6/8/2021</u>
email: <u>Kendra.DeHoyos@dvn.com</u>	Telephone: <u>575-748-0167</u>
<b>OCD Only</b> Received by: <u>Ramona Marcus</u> Date: <u>6/8/2021</u>	



NAPP2114127159

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<b>Contaminated Soil measurement</b>	
Area (square feet)	Depth(inches)
<u>6826.795</u>	<u>4.000</u>
Cubic Feet of Soil Impacted	<u>2275.598</u>
Barrels of Soil Impacted	<u>405.63</u>
Soil Type	<u>Clay/Sand</u>
Barrels of Water Assuming 100% Saturation	<u>60.84</u>
Saturation	<u>Fluid present with shovel/backhoe</u>
Estimated Barrels of Water Released	<u>60.84</u>
<b>Free Standing Fluid Only</b>	
Area (square feet)	Depth(inches)
<u>3294.72</u>	<u>4.000</u>
Standing fluid	<u>195.765</u>
<b>Total fluids spilled</b>	<b><u>256.610</u></b>



April 26, 2022

Incident ID	nAPP2114127159
District RP	pending
Facility ID	pending
Application ID	pending

NMOCD Representative

**Re: Site Assessment Report and Proposed Remediation Plan**  
**Site Name: Mesquite Booster Trunkline**  
**GPS: Latitude: (32.255735°) Longitude: (-103.571636)**  
**Legals: UL "O", Sec. 33, T23SS, R33EE**  
**Lea County, New Mexico**  
**NMOCD Ref. No. pending**

Caprock Services, LLC, on behalf of Devon Energy, has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the Mesquite Booster Trunkline . Details of the release are summarized on the table below:

Nature and Volume of Release	
Date Release Discovered	5/20/2021
Source of Release	Pipeline
Type of Release	Produced Water
Volume Released (bbls)	256.61bbls
Volume Recovered (bbls)	195bbls
Cause of Release	
The ball valve on the main water line riser failed, causing fluid release.	
Affected Area	
The release impacted an area within the pipeline right of way of approximately 11,445 square feet.	
Was this a major release?	If YES, for what reasons (s) is this considered a major release?
Yes	Volume Greater than 25 bbls
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?	
Not Available, Not Available, Not Available, Not Available	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	nAPP2114127159
District RP	pending
Facility ID	pending
Application ID	pending

Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	225'
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas <b>not</b> on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (C-4594-Pod1) within 1/2 mile radii of the site. A field survey indicated available geographic information for C-4595-POD1 was drilled to a depth of 55' resulting in a dry well and was plugged. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release	
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2500 mg/kg
Combined GRO and DRO	1000 mg/kg
Chloride	20000 mg/kg

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.



Incident ID	nAPP2114127159
District RP	pending
Facility ID	pending
Application ID	pending

### INITIAL SITE ASSESSMENT

On March 15, 2022, Caprock proceeded to location to conduct a site evaluation and preform a sampling event. Discrete surface soil samples were collected within the impacted area utilizing a hand augur. Further vertical delineation could not take place due to augur refusal and proximity to infrastructure. Caprock collected sixteen samples at three different points of the affected area. Samples were jarred (in new clean and sterile sample jars) placed on ice, created a chain of custody (COC) and delivered to an approved New Mexico laboratory for analytical results.

Results from the event are presented in the following data table.

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
E.S.E.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	160
E.S.N.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	<16.0
E.S.S.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	560
E.S.S.H @ 2'	3/15/22	2'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	1600.0
M.V @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	1,600
M.V @ 2'	3/15/22	2'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	3,680.0
M.V @ 2'6"	3/15/22	2'6"	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	8,400.0
M.E.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	688.0
M.E.H @ 2'	3/15/22	2'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	4,000.0
M.E.H @ 3'	3/15/22	3'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	6,960.0
M.W.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	32
W.S.W.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	1,600
W.S.W.H @ 2'	3/15/22	2'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	3,000
W.S.N.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	128.0
W.S.N.H @ 2'	3/15/22	2'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	1,500.0
W.S.S.H @ 1'	3/15/22	1'	In-Situ	-	-	<10.0	<10.0	<10.0	-	<10.0	288.0
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #8. Laboratory analytical reports are provided as Attachment #7.



Incident ID	nAPP2114127159
District RP	pending
Facility ID	pending
Application ID	pending

## PROPOSED REMEDIATION PLAN

Based on field observations made during the initial site assessment, Caprock Services proposes the following remediation activities designed to advance the Site toward an approved closure.

- Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by figure #3, until laboratory analytical results from confirmation soil samples indicate concentrations of chloride are below the NMOCD Closure Criteria.
- The affected area is approximated to be 11,445 square feet. As the release occurred "off pad" the first 4' BGS will be excavated to meet the more stringent requirements of table 1 (600 mg/kg for chloride).
- The affected area below 4' BGS will revert to the DTGW of 100' to 150' of table 1 (20,000 mg/kg for chloride).
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to R360 a NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be contoured to match the natural surrounding area. Re-Seeding of the excavated area will be with a land-owner approved seed mix, and seeded at the most favorable time of the year to encourage seed germination and growth.

## SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 200 sq ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 200 **square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

## TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on site characteristics and field observations made during the initial site assessment it is estimated that approximately **1,696 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

Incident ID	nAPP2114127159
District RP	pending
Facility ID	pending
Application ID	pending

## RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Steve Taylor or the undersigned by phone or email.

Respectfully,

Matt Taylor  
Environmental Professional  
Caprock Services LLC,

**Attachments:** Attachment #1- Figure 1 - Topographic Map  
Attachment #2- Figure 2- Aerial Map  
Attachment #3- Figure 3- Site and Sample Map  
Attachment #4 Figure 4- Photographs of site  
Attachment #5 Figure 5- Water Well Data  
Attachment #6 Figure 6- C-141  
Attachment #7 Figure 7- Laboratory analytical results

## LIMITATIONS

This document has been prepared on behalf of Devon Energy. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of Caprock Services/and or Devon Energy is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. Caprock Services notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

Caprock Services has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or



**LEGEND:**

● Site Location

**Figure 1**

Topographic Map

Devon Energy

Mesquite Booster Trunkline

GPS: (32.255735°), (-103.571636)

Lea County, New Mexico

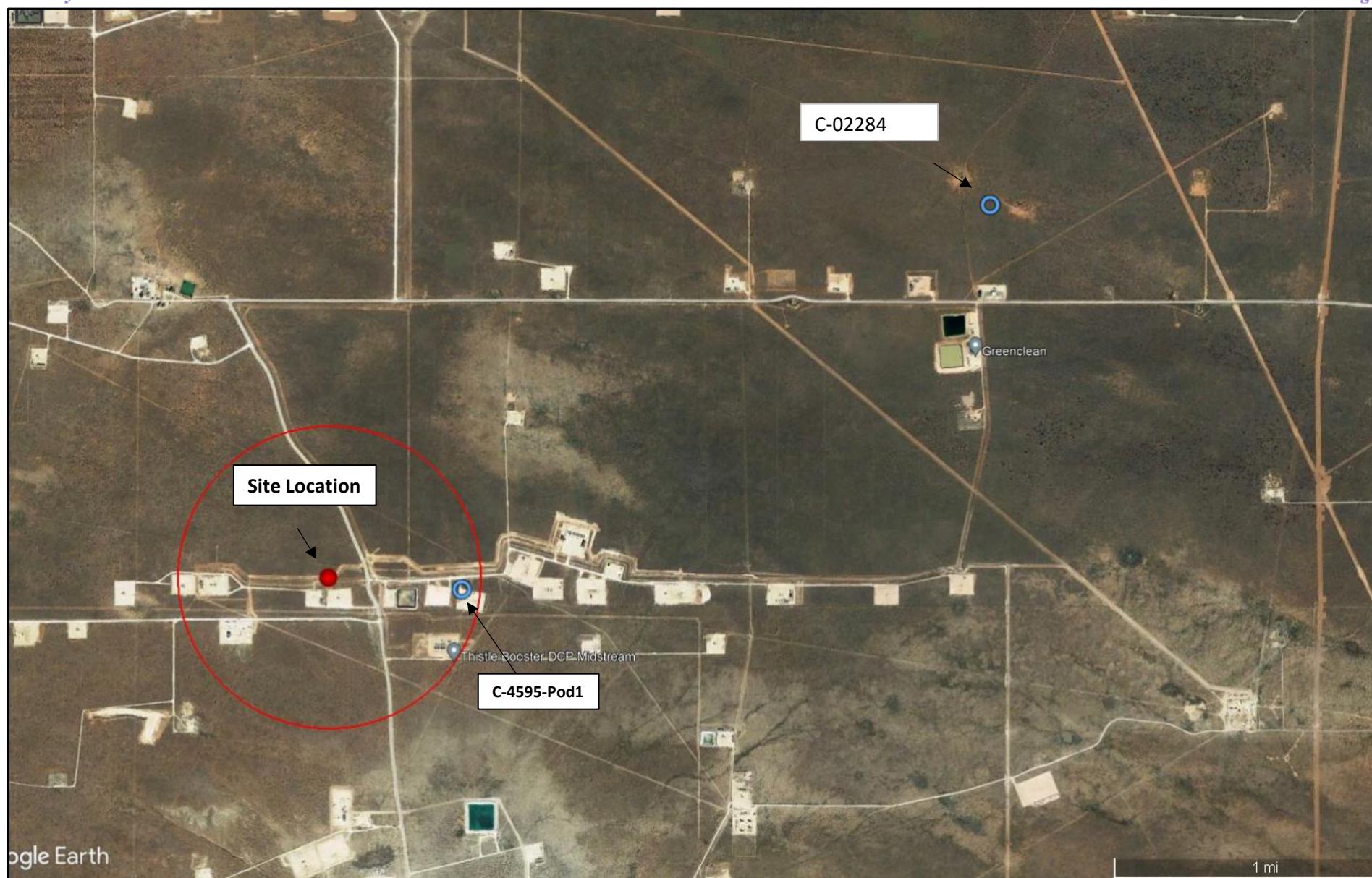


Drafted by- MST

Checked by: client

Date: 4/26/2022





## LEGEND:

- |  |   |
|--|---|
| <span style="color: red;">●</span> Site Location         |  Non-Industrial Building |
| <span style="color: blue;">○</span> Fresh Water Well     |  Subsurface Mine         |
| <span style="color: blue;">⬢</span> 100-Year Floodplain  | <span style="color: red;">○</span> 1/2 Mile Radius  |
| <span style="color: green;">■</span> High/Critical Karst |   |

**Figure 2**  
 Aerial Map  
 Devon Energy  
 Mesquite Booster Trunkline  
 GPS: (32.255735°), (-103.571636)  
 Lea County, New Mexico



Drafted by: MST

Checked by: client

Date: 4/26/2022



**LEGEND:**

- Sample Location
- ▬ Affected Area
- ▬ Excavated Area

**Figure 3**  
 Site & Sample Location Map  
 Mesquite Booster Trunkline  
 GPS: (32.255735, -103.571636)  
 Lea County, NM  
 Devon Energy



Drafted by: MST

Checked by: client

Date: 4/20/2022



## PHOTOGRAPHIC LOG



**Figure 1** View of release point looking west.



**Figure 2** View of release on right away looking west.



## PHOTOGRAPHIC LOG



**Figure 3** View of release looking west.



**Figure 4** View of release looking south west towards release point.



## PHOTOGRAPHIC LOG



**Figure 5** View of release looking south to release point.



## Groundwater Information



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02275</a>	CUB	LE		3	3	2	19	23S	33E	630843	3573557*	650	400	250
<a href="#">C 02276</a>	CUB	LE		3	1	4	19	23S	33E	630848	3573154*	650	400	250
<a href="#">C 02277</a>	CUB	LE		2	3	4	20	23S	33E	632863	3572970*	550	400	150
<a href="#">C 02278</a>	CUB	LE		3	4	2	28	23S	33E	634484	3571989*	650	400	250
<a href="#">C 02279</a>	CUB	LE		3	4	3	28	23S	33E	633891	3571173*	650	400	250
<a href="#">C 02280</a>	CUB	LE		3	2	4	28	23S	33E	634489	3571586*	650	400	250
<a href="#">C 02281</a>	CUB	LE		3	4	4	28	23S	33E	634495	3571183*	545	400	145
<a href="#">C 02282</a>	CUB	LE		3	1	1	25	23S	33E	638098	3572436*	325	225	100
<a href="#">C 02283</a>	CUB	LE		4	2	2	26	23S	33E	637896	3572431*	325	225	100
<a href="#">C 02284</a>	CUB	LE		4	2	4	26	23S	33E	637907	3571626*	325	225	100
<a href="#">C 03582 POD1</a>	C	LE		4	1	1	14	23S	33E	636583	3575666	590		
<a href="#">C 04551 POD1</a>	CUB	LE		4	4	3	31	23S	33E	630671	3569556			
<a href="#">C 04595 POD1</a>	CUB	LE		4	3	3	34	23S	33E	635150	3569564	55		

Average Depth to Water: 347 feet

Minimum Depth: 225 feet

Maximum Depth: 400 feet

Record Count: 13

Basin/County Search:

County: Lea

PLSS Search:

Township: 23S Range: 33E

\*UTM location was derived from PLSS - see Help

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

4/15/22 5:59 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

## Groundwater Information



2904 W 2nd St.  
Roswell, NM 86201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

04/01/2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4595 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4595 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

00000000000000000000000000000000

## Groundwater Information



## WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4595			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia		STATE NM	
					ZIP 88210			
WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LATITUDE		LONGITUDE		N			
	32		15		16.73			
	103		33		54.92			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SW SW Sec. 34 T23S R33E								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/09/2022		DRILLING ENDED 03/09/2022		DEPTH OF COMPLETED WELL (FT) temporary well casing		BORE HOLE DEPTH (FT) ±55	
							DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) dry		DATE STATIC MEASURED 03/9/22, 3/15/22
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring	--	--	--	--
<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
FOR OSE INTERNAL USE								
FILE NO.			POD NO.		TRN NO.			
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2			

## Groundwater Information

[illegible]



## Groundwater Information



## PLUGGING RECORD



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

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: C-4595 POD-1  
 Well owner: Devon Energy Phone No.: 575-748-1838  
 Mailing address: 6488 7 Rivers Hwy  
 City: Artesia State: New Mexico Zip code: 88210

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 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):  
Shane Eldridge
- 4) Date well plugging began: 03/31/2022 Date well plugging concluded: 03/31/2022
- 5) GPS Well Location: Latitude: 32 deg, 15 min, 16.73 sec  
 Longitude: 103 deg, 33 min, 54.92 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),  
 by the following manner: weighted tape
- 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: 1/28/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

03/31/2022 12:03

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.

[illegible]

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

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

03/31/2022

Signature of Well Driller

Date \_\_\_\_\_

## Groundwater Information

## WR-20 Well Record and Log-forsign

Final Audit Report

2022-03-31

Created:	2022-03-31
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA5gS-BF8wqVLJUo4hjo9A2Gu8_pebpNFL

## "WR-20 Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2022-03-31 - 8:03:47 PM GMT - IP address: 69.21.254.158
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2022-03-31 - 8:04:57 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2022-03-31 - 9:28:09 PM GMT - IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2022-03-31 - 9:28:49 PM GMT - Time Source: server - IP address: 64.90.153.232
-  Agreement completed.  
2022-03-31 - 9:28:49 PM GMT

CSE DTI APR 4 2022 PM 2:03



C-141

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	nAPP2114127159
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Devon Energy Production Company	OGRID	6137
Contact Name	Wesley Mathews	Contact Telephone	575-578-6195
Contact email	Wesley.Mathews@dvn.com	Incident # (assigned by OCD)	
Contact mailing address	6488 Seven Rivers Hwy Artesia, NM 88210		

### Location of Release Source

Latitude 32.2552311 Longitude -103.5727709  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Thistle Trunkline	Site Type	
Date Release Discovered	5/20/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
P	33	23S	33E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 256.61 BBLS	Volume Recovered (bbls) 195 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Ball valve on main water line riser failed causing fluid release.



## C-141

Form C-141

Page 2

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2114127159
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Spill is over 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR was completed on the OCD website.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Spill was not in containment.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra DeHoyos</u>	Title: <u>EHS Associate</u>
Signature: <u>Kendra DeHoyos</u>	Date: <u>6/8/2021</u>
email: <u>Kendra.DeHoyos@dvn.com</u>	Telephone: <u>575-748-0167</u>
<b>OCD Only</b> Received by: <u>Ramona Marcus</u> Date: <u>6/8/2021</u>	

C-141

NAPP2114127159

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<b>Contaminated Soil measurement</b>	
Area (square feet)	Depth(inches)
<u>6826.795</u>	<u>4.000</u>
Cubic Feet of Soil Impacted	<u>2275.598</u>
Barrels of Soil Impacted	<u>405.63</u>
Soil Type	Clay/Sand
Barrels of Water Assuming 100% Saturation	<u>60.84</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Water Released	<u>60.84</u>
<b>Free Standing Fluid Only</b>	
Area (square feet)	Depth(inches)
<u>3294.72</u>	<u>4.000</u>
Standing fluid	<u>195.765</u>
<b>Total fluids spilled</b>	<b><u>256.610</u></b>



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

March 17, 2022

STEVE TAYLOR  
CAPROCK SERVICES  
P.O. BOX 457  
LOVINGTON, NM 88260

RE: MESQUITE BOOSTER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/11/22 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene  
Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: E.S.E.H @ 1' (H220989-01)**

Chloride, SM4500C-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	196	98.2	200	4.98	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	190	95.1	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-136							
Surrogate: 1-Chlorooctadecane	114 %	59.5-142							

**Sample ID: E.S.N.H @ 1' (H220989-02)**

Chloride, SM4500C-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	196	98.2	200	4.98	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	190	95.1	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	117 %	66.9-136							
Surrogate: 1-Chlorooctadecane	124 %	59.5-142							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the service hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: E.S.S.H. @ 1' (H220989-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	196	98.2	200	4.98	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	190	95.1	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane		113 %	66.9-136						
Surrogate: 1-Chlorooctadecane		118 %	59.5-142						

**Sample ID: E.S.S.H. @ 2' (H220989-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	196	98.2	200	4.98	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	190	95.1	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	119 %	66.9-136							
Surrogate: 1-Chlorooctadecane	120 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: M.V. @ 1' (H220989-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1600</b>	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>	112 %	66.9-136							
<i>Surrogate: 1-Chlorooctadecane</i>	114 %	59.5-142							

**Sample ID: M.V. @ 2' (H220989-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3680</b>	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>	111 %	66.9-136							
<i>Surrogate: 1-Chlorooctadecane</i>	114 %	59.5-142							

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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: M.V. @ 2' 6" (H220989-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	114 %	66.9-136							
<i>Surrogate: 1-Chlorooctadecane</i>									
	117 %	59.5-142							

**Sample ID: M.E.H @ 1' (H220989-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	115 %	66.9-136							
<i>Surrogate: 1-Chlorooctadecane</i>									
	119 %	59.5-142							

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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: M.E.H @ 2' (H220989-09)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/15/2022	ND	400	100	400	3.92	

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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

**Sample ID: M.E.H @ 3' (H220989-10)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	03/15/2022	ND	400	100	400	3.92	

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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: M.W.H @ 1' (H220989-11)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	115 %	66.9-136							
Surrogate: 1-Chlorooctadecane	118 %	59.5-142							

**Sample ID: W.S.W.H. @ 1' (H220989-12)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	107 %	66.9-136							
Surrogate: 1-Chlorooctadecane	110 %	59.5-142							

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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: W.S.W.H. @ 2' (H220989-13)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	114 %	66.9-136							
Surrogate: 1-Chlorooctadecane	118 %	59.5-142							

**Sample ID: W.S.N.H. @ 1' (H220989-14)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-136							
Surrogate: 1-Chlorooctadecane	113 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CAPROCK SERVICES  
STEVE TAYLOR  
P.O. BOX 457  
LOVINGTON NM, 88260  
Fax To:

Received:	03/11/2022	Sampling Date:	03/10/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	MESQUITE BOOSTER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - DELAWARE BASIN		

**Sample ID: W.S.N.H. @ 2' (H220989-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane		109 %	66.9-136						
Surrogate: 1-Chlorooctadecane		112 %	59.5-142						

**Sample ID: W.S.S.H. @ 1' (H220989-16)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/15/2022	ND	400	100	400	3.92	
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	03/15/2022	ND	206	103	200	0.0802	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	204	102	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	112 %	66.9-136							
Surrogate: 1-Chlorooctadecane	117 %	59.5-142							

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 SM4500Cl-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

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101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Caprock Services</u>		P.O. #: <u>20951931</u>	
Project Manager: <u>Steve Taylor</u>		Company: <u>Devon</u>	
Address: <u>P.O. Box 457</u>		Attn: <u>Dale Woodall</u>	
City: <u>Livingston</u> State: <u>NM</u> Zip: <u>88260</u>		Address: <u>6409 Stevens</u>	
Phone #: <u>(575) 704-2718</u> Fax #: _____		City: <u>Rivers Highway</u>	
Project #:		State: <u>NM</u> Zip: <u>88210</u>	
Project Name: <u>Mesquite Booster Trunk Line</u>		Phone #: <u>(405) 748-1839</u>	
Project Location: <u>Delaware Basin</u>		Fax #: _____	
Sampler Name: <u>Steve Taylor</u>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER			
H220989												
	ES.E.H.e.1'	X								3/10/22	9:01 AM	Chloride
	ES.N.H.e.1'	X								9:07	9:01 AM	TPH 8015 m. Ext (New Mexico)
	ES.S.H.e.1'	X								9:11		
	ES.S.H.e.2'	X								9:12		
	M.V.e.1'	X								9:22		
	M.V.e.2'	X								9:25		
	M.V.e.2 1/4"	X								9:28		
	M.E.H.e.1'	X								9:32		
	M.E.H.e.2'	X								9:32		
	M.E.H.e.3'	X								9:34		

Retrieved By: <u>[Signature]</u>	Received By: <u>[Signature]</u>
Date: <u>3-11-22</u>	Date: <u>3-11-22</u>
Time: <u>0920</u>	Time: <u>0920</u>
Delivered By: (Circle One) <u>2132 e-058</u>	Sample Condition: <u>Good</u>
Sampler - UPS - Bus - Other: <u>1.6 e #113</u>	Checked By: <u>45</u>

Caprock Services 56@gmail.com

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**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 101698

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 101698
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Depth to groundwater was established at >55ft bgs, not 100 ft bgs, therefore your criteria for chloride is 10,000 mg/kg, not 20,000 mg/kg.	5/19/2022