Received by OCD: 2/13/2023 8:12:17 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 1 of 5.
Incident ID	NRM2033657348
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>320</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗸 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗸 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖌 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
- \checkmark 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.

Received by OCD.	: 2/13/2023 8:12:17 AM State of New Mexico			Page 2 of 53
			Incident ID	NRM2033657348
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			Application ID	
regulations all ope public health or th failed to adequate addition, OCD ace and/or regulations	at the information given above is true and complete to the erators are required to report and/or file certain release not he environment. The acceptance of a C-141 report by the ly investigate and remediate contamination that pose a thr ceptance of a C-141 report does not relieve the operator of b. Dale Woodall	tifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele coperator of liability sho ce water, human health iance with any other feo	ases which may endanger ould their operations have or the environment. In
email: dale.wo	oodall@dvn.com	Telephone: 575-7	48-1838	
OCD Only Received by:	Jocelyn Harimon	Date: 02	/13/2023	

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Oil Conservation Division

Incident ID	NRM2033657348
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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.

<u>Closure Report Attachment Checklist</u>: 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: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date:2/13/2023
email:dale.woodall@dvn.com	Telephone:575-748-1838
OCD Only	
Received by: Jocelyn Harimon	Date: 02/13/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	



February 9, 2023

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Release Characterization and Closure Report Devon Energy Production Company Red Bull 29 CTB 2 Release Unit Letter O, Section 29, Township 23 South, Range 35 East Lea County, New Mexico DOR: 11/12/2020 Incident ID: NRM2033657348

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by Devon Energy Production Company (Devon) to assess a release that occurred at the Red Bull 29 Central Tank Battery (CTB) 2 (Site) due to a pin hole leak in a water line. The release footprint is entirely on pad and is located in Public Land Survey System (PLSS) Unit Letter O, Section 29, Township 23 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.271664°, -103.385705°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on November 12, 2020. The release occurred as the result of a pin hole leak in a water line running to the water tanks. Based on the C-141, this release consisted of approximately 20.49 barrels (bbls) of produced water which affected an area of approximately 4,799 square feet. According to the calculations provided by Devon in the C-141, the release was estimated to have only saturated the top ¼ inch of the caliche pad. During initial response activities, a vacuum truck recovered approximately 1 bbl of produced water and unknown volume of saturated soils. The initial C-141 was dated to have been submitted November 20, 2020 and received by The New Mexico Oil Conservation District (NMOCD) on December 1, 2020, who subsequently assigned it the Incident ID NRM2033657348.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no wells within a ½ mile (800 meters) of the Site and the closest well with a documented depth to groundwater is 0.62 miles (998 meters) from the Site. This one well has a depth to water which is documented at 320 feet below ground surface (bgs).

Release Characterization and Closure Report February 9, 2023 Page 5 of 53

As the available water level information is from a well farther than ½ mile away from the site, Tetra Tech contacted NMOCD representative Jennifer Nobui on October 24, 2022 to discuss the possibility of using a water well outside of the ½ mile radius for Site Characterization purposes. The closest well is located 0.62 miles away from the Site. Jennifer Nobui informed Tetra Tech that although it is past the ½ mile limit, they would accept this well's data since 0.62 miles falls within their "discretionary limit". The site characterization data as well as a written brief pertaining to the NMOCD correspondence is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint (on-pad location) and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT SUMMARY

On November 30, 2022, Tetra Tech conducted initial assessment activities to delineate the release extent and confirm the efficacy of the remedial activities conducted during the initial response. A total of twelve (12) hand auger borings (AH-1A through AH-12A) were installed to attempt to achieve vertical and horizontal delineation of the release footprint on pad. The sampling locations were placed in a grid like pattern encircling the release point and the associated subsurface water line. A total of six (6) hand augur borings (AH-1A through AH-4A, AH-8A, and AH-12A) were installed along the perimeter of the approximate release extent to a maximum depth of 1-foot bgs to establish the lateral extent of the release footprint. The remaining borings (AH-5A through AH-7A and AH-9A through AH-11A) were installed within the release footprint to a maximum depth of 2 feet bgs in an attempt to determine the extent of the vertical impact of the release. The approximate release extent and the locations of the 12 hand auger borings are indicated in Figure 3. Photographic documentation of the Site conditions at the time of the assessment is presented in Appendix D.

A total of thirteen (13) samples were collected from the twelve (12) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 4500.0. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C.

SUMMARY OF SAMPLING RESULTS

Results from the November 30, 2022, soil sampling event are summarized in Table 1. Analytical results associated with samples collected during the assessment activities were below Site RRALs. The boring locations are indicated in Figure 3. Horizontal and vertical delineation was achieved during the assessment. The initial response remedial action was successful in removing the contaminant mass to meet the standards of Table I of 19.15.29.12 NMAC.

Release Characterization and Closure Report February 9, 2023 Page 6 of 53

CONCLUSION

Based on the results of the site assessment and subsequent sampling, Devon Energy Production Company respectfully requests closure of the incident. All analytical results associated with both the site assessment and sampling were below applicable Site RRALs following the initial response actions; therefore, no further remediation of the on-pad release footprint is required. The impacted surface area occurring on the developed pad at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC during the initial response remedial activities.

Final reclamation shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (432) 210-6952 or Christian at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

Joe Tyler Project Manager

Christian M. Llull, P.G. Program Manager

Release Characterization and Closure Report February 9, 2023

Devon Energy Production Company

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Initial Assessment and Release Extent

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

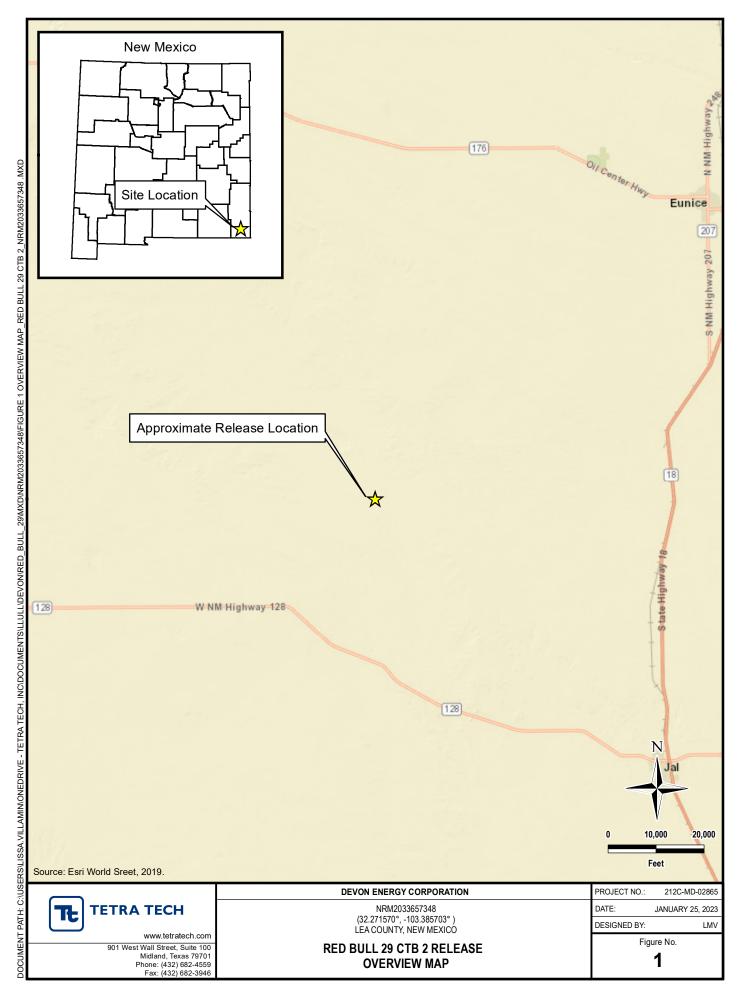
Appendix A – C-141 Forms

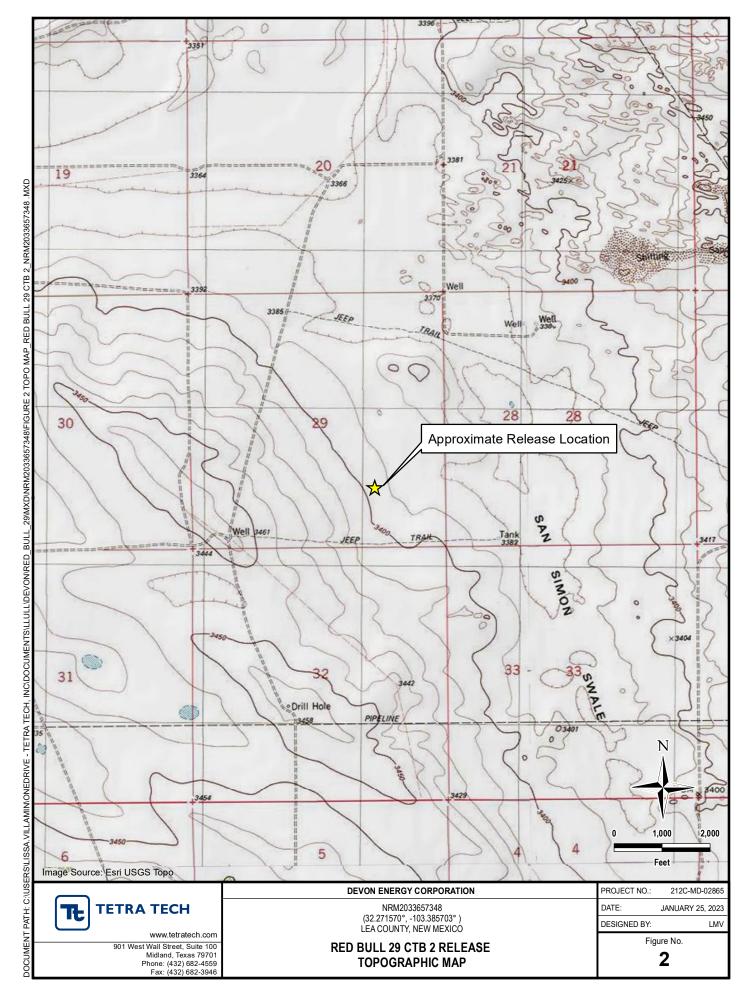
Appendix B – Site Characterization Data

Appendix C – Laboratory Analytical Data

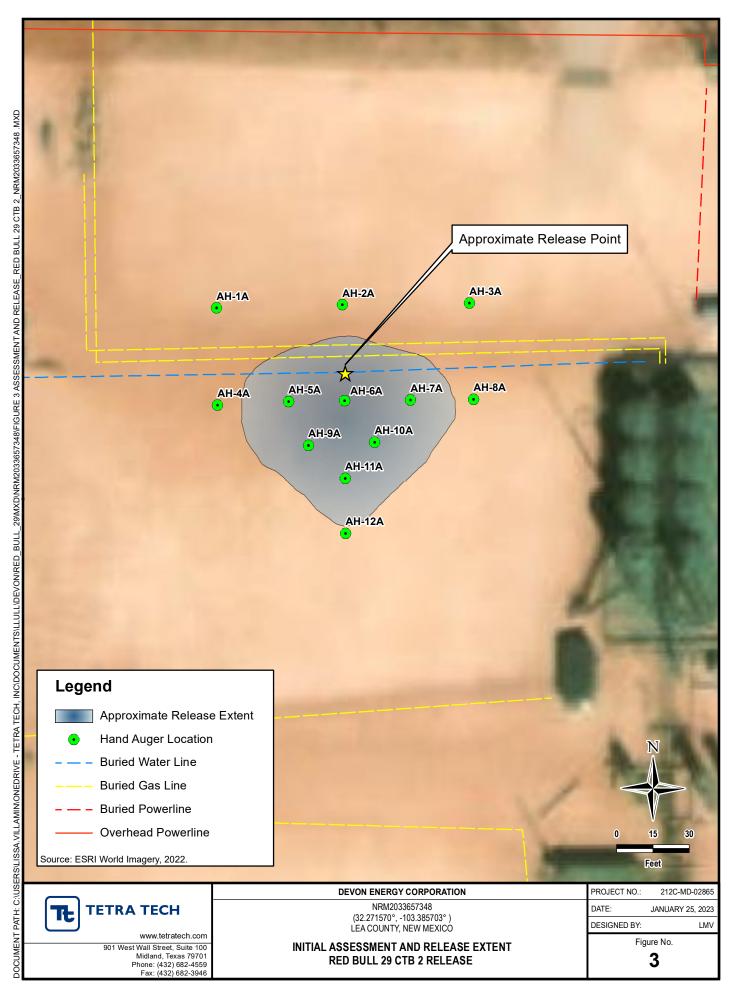
Appendix D – Photographic Documentation

FIGURES





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TABLE

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- NRM2033657348 DEVON ENERGY RED BULL 29 CTB 2 RELEASE LEA COUNTY, STATE

			Field Comme					BTEX ²												TPH ³							
Sample ID	Sample Date	Sample Depth	Field Screen	ing Results	Chloride1	ľ	Benzene		Toluene		Ethylbenzene	~	Total Vulon	Total Vulanas		Total Xylenes		Total Vylonos			GRO		DRO		EXT DRO		Total TPH
Sample ib	Sample Date		Chloride	PID			Benzene		Toldelle		Ethylbelizen	e	Total Aylen	E 3	TOTAL DIEX		TOTAL DIEX		Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		ft. bgs	ррі	m	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg				
AH- 1A	11/30/2022	0-1	84.5	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH- 2A	11/30/2022	0-1	323	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH- 3A	11/30/2022	0-1	79.9	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-4A	11/30/2022	0-1	69.1	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-5A	11/30/2022	0-1	46.2	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-6A	11/30/2022	0-1	40.2	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
АП-ФА	11/30/2022	1-2	121	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-7A	11/30/2022	0-1	59.6	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-8A	11/30/2022	0-1	41.9	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-9A	11/30/2022	0-1	46.2	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-10A	11/30/2022	0-1	56.7	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-11A	11/30/2022	0-1	51.2	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				
AH-12A	11/30/2022	0-1	50.3	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-				

NOTES:

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ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

APPENDIX A C-141 Forms

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

)

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Incident ID	NRM2033657348
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Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Longitude

Latitude		

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Page 2

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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:	Title:
Signature: <u>Kendra DeHoyos</u>	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>12/1/2020</u>

NRM2033657348

Spill Volume(Bbls) Calculator											
In	puts in blue,	Outputs in red									
Col	Contaminated Soil measurement										
Area (squ	are feet)	Depth(inches)									
479	99	0.250									
Cubic Feet of S	Soil Impacted	<u>99.979</u>									
Barrels of So	il Impacted	<u>17.82</u>									
Soil T	ype	Clay/Sand									
Barrels of Oi 100% Sat		<u>2.67</u>									
Saturation	Fluid pre	sent with shovel/backhoe									
Estimated Ba Relea	20020621 020002806	2.67									
	Free Standi	ng Fluid Only									
Area (squ	are feet)	Depth(inches)									
479	<u>99</u>	0.250									
Standin	g fluid	<u>17.822</u>									
Total fluid	ls spilled	<u>20.495</u>									

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

Form (111	23 8:12:17 AM State of New Mexico			Page 19 of
			Incident ID	NRM2033657348
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regulations all operators are public health or the environ failed to adequately investig		e notifications and perform the OCD does not relieve a threat to groundwater, su or of responsibility for con	n corrective actions for rel- the operator of liability sh Irface water, human health mpliance with any other fe fessional	eases which may endanger ould their operations have or the environment. In deral, state, or local laws

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Incident ID	NRM2033657348
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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.

<u>Closure Report Attachment Checklist</u>: Each of the following a	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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible 'or regulations.
Closure Approved by: <u>Scott Rodgers</u>	Date:01/22/2024
Printed Name: Scott Rodgers	Environmental Specialist Adv.

APPENDIX B Site Characterization Data



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 652056.316

Northing (Y): 3571655.831

Radius: 800

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.



(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)		are 1=NW 2=NI are smallest to		E) IAD83 UTM in me	ters)	(In feet)
POD Number	POD Sub- Code basin Cou	QQQ nty 64 16 4	•	a X	Y	•	n Depth Water I Water Column
CP 00614 POD2	CP LI	E 433	3 29 238 351	651102	3571401 🌍	998 440	0 320 120
					Averag	ge Depth to Wate	r: 320 feet
						Minimum Depth	n: 320 feet
						Maximum Depth	: 320 feet
Pecord Count: 1							

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 652077.391

Northing (Y): 3571616.737

Radius: 1000

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.

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)	(2=NE 3 st to lar	3=SW 4=SE) gest) (NA	D83 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin C	County		Q 16	-	Sec	Tws	Rng	х	Y	Distance	-	Depth Water	Water Column
CP 00614 POD2	CP	LE	4	3	3	29	23S	35E	651102	3571401 🌍	987	440	320	120
CP 01099 POD3	CP	LE	1	1	1	28	23S	35E	652478	3572932 🌍	1344	930	725	205
CP 01100 POD3	CP	LE	3	2	1	28	23S	35E	652987	3572726 🌍	1418	950	730	220
CP 01100 POD2	CP	LE		2	1	28	23S	35E	652995	3572726 🌍	1423	750	125	625
CP 01099 POD2	СР	LE	3	3	3	21	23S	35E	652968	3572750 🌍	1425	750	120	630
										Avera	ge Depth to	Water:	404	feet
											Minimum	Depth:	120	feet
											Maximum	Depth:	730 1	feet
Record Count: 5														

UTMNAD83 Radius Search (in meters):

Easting (X): 652056.316

Northing (Y): 3571655.831

Radius: 1600

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.

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RED BULL 29 CTB 2 RELEASE

KARST POTENTIAL MAP



Legend CRIT HIGH LOW MEDIUM SITE LOCATION

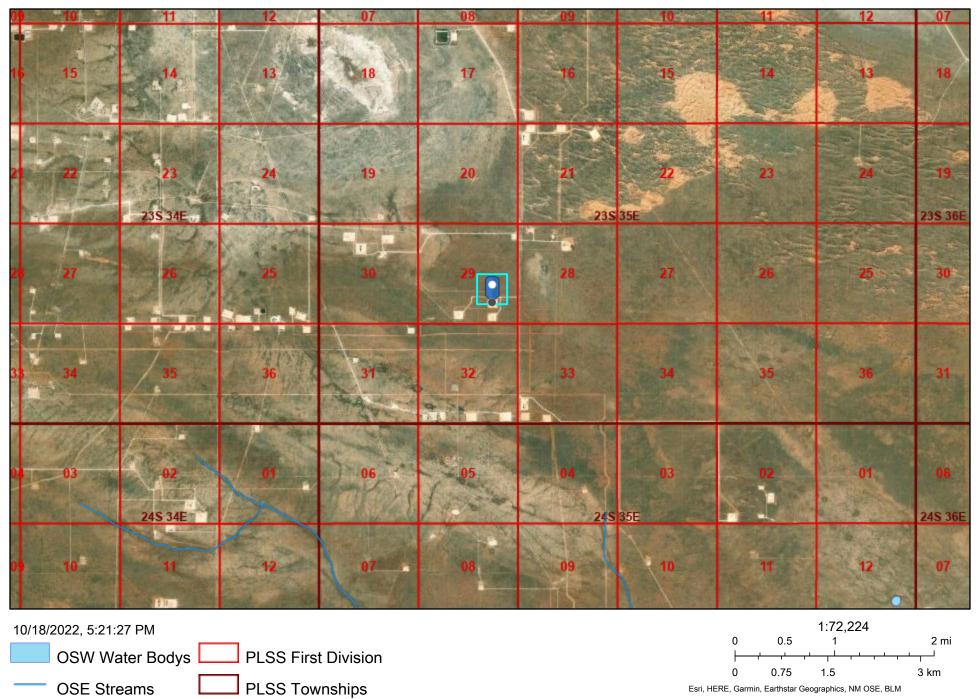
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Google Earth

In:Released to Finagings 1/22/2024 11:22:00 AM

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NMOCD Waterbodies Map



Released to Imaging: 1/22/2024 11:22:00 AM

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

New Mexico Oil Conservation Division

October 24, 2022

On October 24th, Joe Tyler with Tetra Tech spoke with NMOCD rep Jennifer Nobui to discuss a water well that was located past the State requested 0.50-mile radius from the Site. She informed us that since the water well in question is only 0.62 miles away, it is within their "discretionary" limit so it should be fine using this water well for our depth to groundwater characterization and to submit the workplan using that well data (CP 00614 POD2).

Joe Tyler Tetra Tech

APPENDIX C Laboratory Analytical Data



December 05, 2022

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED BULL 29 CTB 2 RELEASE (NRM2033657348)

Enclosed are the results of analyses for samples received by the laboratory on 11/30/22 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 1 A (0'-1') (H225615-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	74.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.5	% 46.3-17	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 2 A (0'-1') (H225615-02)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	96.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 3 A (0'-1') (H225615-03)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.4	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 4 A (0'-1') (H225615-04)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	110 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	120	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 5 A (0'-1') (H225615-05)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	91.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.9	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 6 A (0'-1') (H225615-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-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	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	90.8 % 45.3-16		1						
Surrogate: 1-Chlorooctadecane	98.7	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 6 A (1'-2') (H225615-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	99.6 % 45.3-10		1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 7 A (0'-1') (H225615-08)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	98.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 8 A (0'-1') (H225615-09)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 9 A (0'-1') (H225615-10)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/04/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/04/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/04/2022	ND					
Surrogate: 1-Chlorooctane	95.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 10 A (0'-1') (H225615-12)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/04/2022	ND	212	106	200	0.727	
DRO >C10-C28*	<10.0	10.0	12/04/2022	ND	196	98.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	12/04/2022	ND					
Surrogate: 1-Chlorooctane	99.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 11 A (0'-1') (H225615-13)

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	12/03/2022	ND	2.07	103	2.00	1.01	
Toluene*	<0.050	0.050	12/03/2022	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.08	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.37	106	6.00	1.36	
Total BTEX	<0.300	0.300	12/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	188	94.2	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	199	99.3	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	11/30/2022	Sampling Date:	11/30/2022
Reported:	12/05/2022	Sampling Type:	Soil
Project Name:	RED BULL 29 CTB 2 RELEASE (NRM2033	Sampling Condition:	Cool & Intact
Project Number:	DEVON	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 12 A (0'-1') (H225615-14)

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	12/02/2022	ND	2.12	106	2.00	15.7	
Toluene*	<0.050	0.050	12/02/2022	ND	2.12	106	2.00	15.9	
Ethylbenzene*	<0.050	0.050	12/02/2022	ND	2.08	104	2.00	15.1	
Total Xylenes*	<0.150	0.150	12/02/2022	ND	6.44	107	6.00	15.6	
Total BTEX	<0.300	0.300	12/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2022	ND	432	108	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	12/03/2022	ND	188	94.2	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	199	99.3	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					
Surrogate: 1-Chlorooctane	89.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.0	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page | of 2

Ansger: Dale Woodall P.O. #: 21080164 date.woodall@dvn.com Company: Devon Energy dd05) 318-4697 Fax #: NA Address: same Project Owner: City: City: unre: Red Bull 29 CTB 2 Release (NRM2033657348) State: project Owner: City: name: Gabe Fax #: NA Address: same Phone #: name: Cabe Fax #: One State: V MATRIX Project Owner: City: State: Zip: Project Owner: City: unre: Red Bull 29 CTB 2 Release (NRM2033657348) State: Sample I.D. Will Will Will Will Will Will Will Will	Company Name: Devon Energy Corp								BILL TO ANALYSIS REQUEST																	
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12 AH - JA (0'1') 0840 1 0850 13 AH - JA (0'1') 0850 0850 0 14 AH - 4A (0'-1') 0800 0850 0 15 AH - 5A (0'-1') 0900 0900 0 0 15 AH - 6A (0'-1') 0930 0 0 0 0 16 AH - 6A (0'-1') 0 0940 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	¥/	AH-14	(0'-1')		T				Ŭ					and the second se		x	×				-			\rightarrow		
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1/2 AH-6A (0-1') 0930 1/2 AH-6A (1'-3') 0940 1/8 AH-7A (0-1') 0940 1/9 AH-8A (0'1') 1000 1/9 AH-9A (0'1') 1010 1/9 AH-9A (0'1') 1010 1/0 1020 1020 1020 1/10 1020 1020 1020 1/10 1020 1020 1020 1/10 1020 1020 1020 1/10 1020 1020 1020 1/10 1020 1020 1020 1/2 AH-9A (0'1') 1020 1/2 0.000 1020 1020 1/2 0.000 1020 1020 1/2 0.000 1020 1020 1/2	15	AH-SA									T	T												-+		_
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It shall Cardinal be Rable for incidental or consequential demages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries,		AH- 9A	(0'-1')	V	V		V				1		V	1020	V	V	1							-	-	
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Sample Condition Cool Intact Yes Yes No No

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Page 16 of

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

X

Sampler - UPS - Bus - Other:



101 East Mariand, Hobbs, NM 88240

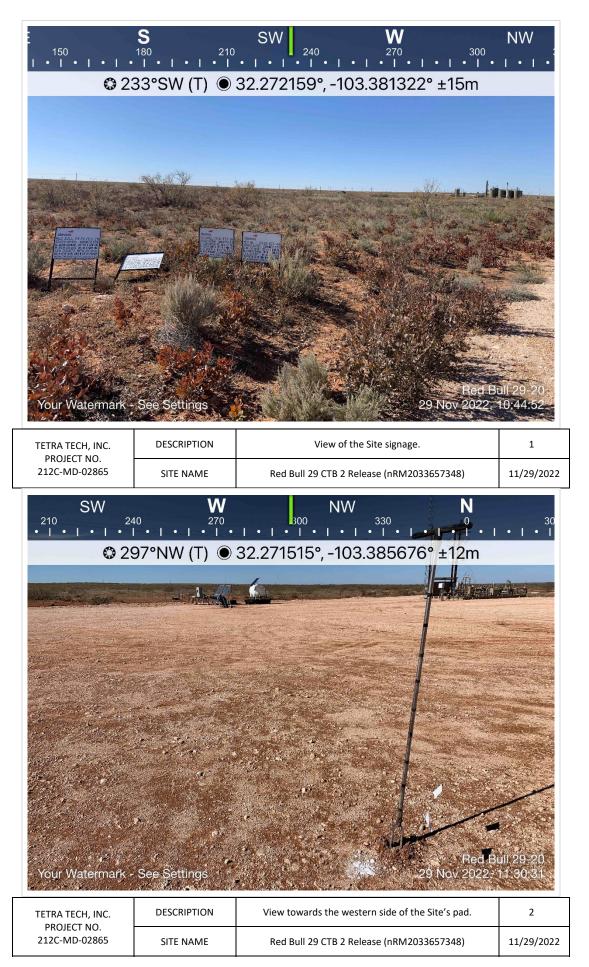
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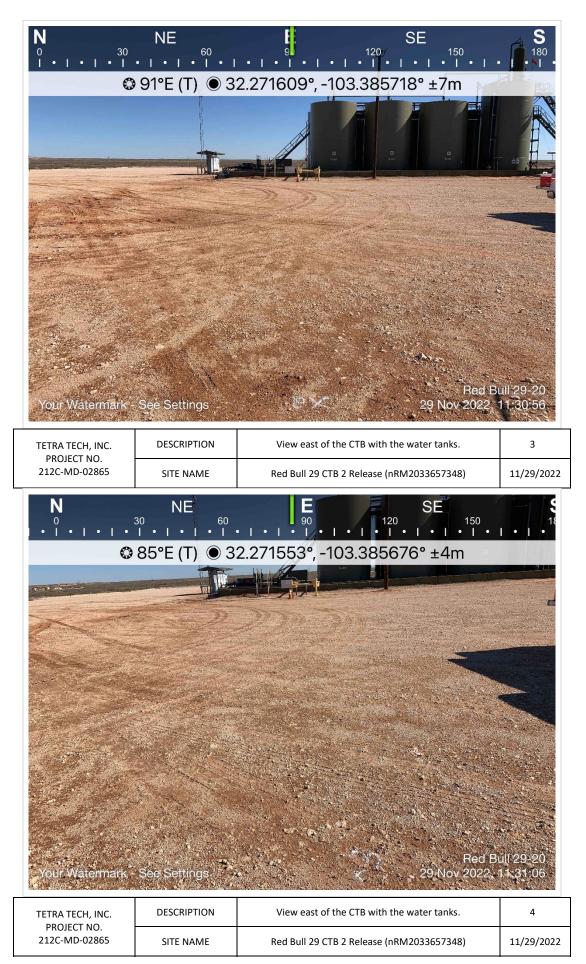
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Project Manage	er: Dale Woodall							P	.0.1	1:21	1080	0164		T	T		T	T	T		T	QUE				
Address: dale.v	woodall@dvn.com	-						c	om	Dany	:D	evon Ener	Mav.	1												
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 2/13/2023 8:12:17 AM

APPENDIX D Photographic Documentation

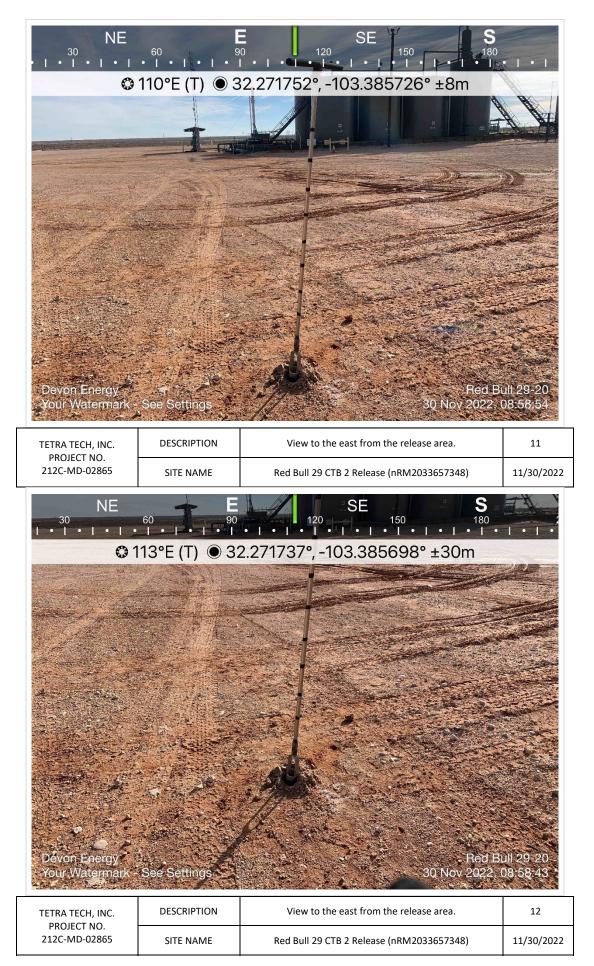












District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	185337
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS	

Created By	Condition	Condition Date
scott.rodgers	Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance given on 01/22/2024. Remediation Closure approved.	1/22/2024

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Action 185337

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