



Former Drilling Pit Delineation and Reclamation Plan

ConocoPhillips
Federal 29 Z 002H
Eddy County, New Mexico
Unit Letter "L", Section 29, Township 20 South, Range 27 East
Latitude 32.5425° North, Longitude 104.3108° West
NMOCD Reference No. NAPP2221331648

Prepared For:

ConocoPhillips 600 W Illinois Avenue Midland, Texas 79701

Prepared By:

TRC Environmental Corporation 10 Desta Drive, Suite 130E Midland, Texas 79705

October 25, 2024

Jared E. Stoffel, PG Project Manager

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INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of ConocoPhillips, has prepared this *Revised Remediation Work Plan and Proposed Variance Request* for the Release Site known as the Federal 29 Z 002H (the Site). The legal description of the Site is Unit Letter "L", Section 29, Township 20 South, Range 27 East, in Eddy County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the Site are N 32.5425°, W 104.3108°. A topographic map is provided as **Figure 1**.

On July 16, 2022, ConocoPhillips (COP) discovered a crude oil release had occurred at the Site. The Release was attributed to a packing blowout. On the discovery date, COP notified the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) of the Release. The Release was assigned an NMOCD Reference number of NAPP2221331648. On August 01, 2022, the initial Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. The Form C-141 indicated 1.5 barrels (bbls) of crude oil was released and zero (0) bbls of crude oil was recovered. The crude oil was oversprayed primarily to the west with a minor component to the north and east. The Release affected an area measuring approximately 10,800 square feet (sq. ft.). The C-141 indicated the impacted area was located on and off the location pad. The Site location is depicted in **Figure 1**. **Figure 2** and **Figure 3** reflect the characterization parameters of the Site. The affected area is depicted in **Figure 4**.

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.68 miles east of the site in S29, T20S, R27E and was drilled in 2023. The well has a reported depth to groundwater of 132 feet below ground surface (ft bgs). The screened interval is between 139 and 159 feet bgs. A copy of the associated Point of Diversion Summary report is attached in **Appendix A**.

Based on the inferred depth to groundwater at the Federal 29 Z 002H Release Site, the NMOCD Closure Criteria for Soils Impacted by a Release does not warrant the most stringent closure criteria listed based on depth to groundwater. However, the Federal 29 Z 002H is within 300 feet of a significant watercourse and/or wetland denoted as a riverine on Figure 2. Additionally, the Federal 29 Z 002H is located in the 'high karst' area as outlined in Bureau of Land Management (BLM) publicly available Karst Potential Map and is provided as Figure 3. Despite the depth to groundwater greater than 100 feet bgs, the NMOCD stance on the regulation of releases at Sites adjacent to flowing or significant watercourses, wetlands, and 'high karst' areas requires that COP utilize the most stringent NMOCD Closure Criteria for Soils Impacted by a Release for the Federal 29 Z 002H as follows:

- Benzene 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) –100 mg/kg
- Chloride 600 mg/kg



CHRONOLOGY AND DISCUSSIONS WITH THE NMOCD

- July 16, 2022 The release occurs and is incorrectly reported to NMOCD due to volume (1.5 barrels of crude oil; no produced water).
- December 15, 2022 The Initial Remediation Workplan is submitted to the NMOCD by Carmona Resources. The workplan is provided as **Attachment B**.
- March 17, 2023 The initial Remediation Workplan is approved by the NMOCD.
- June 21, 2023 An extension request is submitted by TRC prior to remediation enactment. The extension request is approved by the NMOCD.
- July 13, 2023 TRC provides a notification to NMOCD that workplan enactment will begin the following week to comply with the required 48-hour confirmation sampling notice.
- July 17, 2023 TRC is onsite for preparation of site remediation and notes ubiquitous elevated chloride concentrations in the former drilling pit area. The area to be remediated appears to be contained within the former drilling pit footprint. TRC is unable to differentiate between elevated chloride concentrations related to the former drilling pit and those caused by the release. Remediation activities are not initiated pending discussion with the NMOCD.
- July 25, 2023 TRC provides a notification to NMOCD via email of comingled former drilling pit footprint and release area footprint. TRC also notes the release was of a non-reportable volume (1.5 bbl crude oil and no produced water) and no TPH or BTEX concentrations exceeded NMOCD standards. TRC requests a meeting with the NMOCD to discuss path forward.
- August 2, 2023 NMOCD, COP, and TRC virtually meet to discuss comingled areas. The NMOCD indicates a variance request will be considered to avoid excavating the entirety of the former drilling pit, but the C-141 cannot be retracted despite the non-reportable release volume as a workplan has already been generated and approved.
- August 20, 2023 A second Remediation Workplan And Variance Request is submitted to NMOCD by TRC. The proposed workplan is to excavate the footprint of the release to four (4) feet bgs. The requested variance is to omit confirmation soil samples to avoid chloride concentrations sourced from the former drilling pit driving excavation extents beyond the spill footprint and previously delineated depths. The second workplan is provided as **Appendix** C.
- March 5, 2024 The NMOCD approves Remediation Workplan conditionally but denies variance request to omit confirmation sampling. The denial of the variance





- request would result in the excavation of elevated chloride concentrations in the full former drilling pit footprint.
- March 7, 2024 TRC requests a smaller sampling variance in which confirmation soil samples would be collected but only run for TPH and BTEX. No response from the NMOCD.
- April 8, 2024 TRC re-submits the March 7, 2024 request for a smaller sampling variance. No response from the NMOCD.
- April 25, 2024 TRC requests a meeting to discuss the smaller sampling variance submitted on March 7 and April 8. The NMOCD proposes a virtual meeting on May 21, 2024 meeting based on their availability.
- May 21, 2024 The NMOCD, COP and TRC meet virtually to discuss the denial of the variance requests and potential alternative options to avoid excavating the full extent of the former drilling pit, which is unrelated to the surface release of hydrocarbons. The NMOCD indicates that no variance requests or alternative options will be approved for the site and all chlorides above 600 mg/kg will require removal regardless of source. COP indicates delineation will be required internally to begin an excavation of this scale outside the scope of remediation related to the small overspray release. NMOCD and COP agree that a workplan documenting the delineation of elevated chloride concentrations in the former drilling pit area was an acceptable path forward.
- July 6, 2024 TRC attempts delineation of former drilling pit chlorides with backhoe. Vertical delineation is not achieved in all locations to below 600 mg/kg. In response, TRC begins the NMOSE drilling permit process as required by the NMOSE in borings deeper than 30 feet bgs. Additionally, BLM concurrence for the borings is required.
- October 4, 2024 The NMOSE issues the executed drilling permits.
- October 8, 2024 TRC attempts delineation of former drilling pit chlorides with air rotary rig. Vertical delineation is not achieved in all locations to below 600 mg/kg.
- October 22, 2024 TRC requests an extension to further investigate former drilling pit chlorides as the 2 delineation events had not yet resulted in full vertical delineation in each sampled location. The NMOCD denies the extension request despite an explanation that COP continues to comply with the NMOCD requests. Email communications between the NMOCD and TRC/COP is documented as **Appendix D**.



FORMER DRILLING PIT ASSESSMENT ACTIVITIS

Backhoe Delineation - Field Work

On July 6, 2024, TRC initiated a former drilling pit chloride delineation event utilizing a backhoe.

During the event, five (5) vertical trenches (Pit Trench NW, Pit Trench SW, Pit Trench Center, Pit Trench NE, and Pit Trench SE) were advanced within the former drilling pit footprint to the maximum extent of the backhoe. Soil samples were collected every two (2) feet. Each soil sample was analyzed for chloride concentrations, and surface samples were additionally analyzed for TPH and BTEX concentrations to confirm the surface soils were not affected by hydrocarbons from the release.

Additionally, four (4) lateral soil samples (Lateral-West, Lateral-East, Lateral-North, and Lateral-South) were collected from the 0-1' interval to confirm the lateral extent of the former drilling pit.

Soil sample locations are documented in Figure 4.

Backhoe Delineation – Results

One (1) surface soil sample, Pit Trench SW @ 0-1', exhibited a TPH concentration of 118 mg/kg, slightly above the NMOCD standard. The soil sample underlying this soil sample, Pit Trench SW @ 2', was also run for TPH and BTEX to confirm the hydrocarbon exceedances was vertically delineated. Pit Trench SW @ 2' did not exhibit TPH or BTEX concentrations above the laboratory detection limit (RL). Only one of the backhoe trenches, Pit Trench SW, exhibited vertical delineation below 600 mg/kg for chlorides in the deepest sample (12').

Each lateral soil sample exhibited TPH, BTEX, and chloride concentrations below the NMOCD regulatory standard. Lateral delineation of the former drilling pit was achieved to below 600 mg/kg.

Soil sample analytical results are summarized in **Table 1**.

Air Rotary Drilling Rig Delineation – Field Work

Following the July 6, 2024 backhoe delineation event, COP elected to re-attempt to vertically define the extent of elevated chloride concentrations in the former drilling pit utilizing a drilling rig. The potential depth of borings necessitated NMOSE permits, which took time to procure as discussed above.

On October 8, 2024, TRC initiated a former drilling pit chloride delineation event utilizing an air rotary rig. Immediately adjacent to the five (5) trenches within the former drilling pit footprint but outside the backfilled trenches themselves, five (5) soil borings (SB-NW, SB-SW, SB-Center, SB-NE, and SB-SE) were advanced to a total depth of thirty (30) feet bgs. Soil samples were collected from the surface, 1-3, 5', 10', 15', 20', 25', and 30' intervals utilizing a 'pig's foot' sampler. Soil samples were analyzed for chloride concentrations only.



Additionally, two (2) background soil borings were advanced between 50 and 100 feet from the former drilling pit to confirm the Site is not affected by elevated background chloride concentrations. Sampled intervals in the background borings matched the vertical delineation borings.

Soil sample locations are documented in **Figure 4**. Field boring logs are provided as **Appendix E**. The general lithology at the site is silty sand which transitions to a sandy clay, underlain by a red clay rich soils starting between 15 and 20 feet bgs.

Air Rotary Drilling Rig Delineation – Results

Vertical delineation was confirmed in SB-SW in soil samples from 15' to 30' bgs, which corroborated the data collected from the adjacent trench Pit Trench SW during the backhoe delineation event. Additionally, vertical delineation to below 600 mg/kg was achieved at SB-NW in the 30-foot soil sample. However, vertical delineation was not achieved in SB-Center, SB-SE, and SB-NE with bottomhole chloride concentrations of 678 mg/kg, 2,580 mg/kg, and 1,480 mg/kg, respectively.

No background soil samples exhibited chloride concentrations above 600 mg/kg, indicating elevated chloride concentrations are unlikely to be a naturally occurring phenomenon at the site.

PROPOSED RECLAMATION OF THE FORMER DRILLING PIT

The depths of the chloride concentrations above 600 mg/kg and lateral delineation of concentrations to below 600 mg/kg outside the former drilling pit margins further indicates that the chlorides are sourced from the former drilling pit and are not related to the 1.5 barrel hydrocarbon overspray release on July 22, 2022. While COP understands the site is in a sensitive area, the small volume, material released, and lack of hydrocarbon impacts indicate the release is not a risk to the sensitive area. Based on the approximate former drilling pit footprint and chloride concentrations above 600 mg/kg to over 30 feet in multiple borings, excavation of the full pit would require removal of approximately 49,000 ex situ cubic yards. Excavations of such depth are intrinsically less safe and impractical.

COP proposes to excavate the footprint of the former drilling pit to four (4) feet bgs and will reclaim the pit to the NMOCD reclamation standard. The excavation would also remove the single TPH exceedance at the surface from Pit Trench SW, which potentially is related to the overspray release. COP proposes collection of a floor sample to document the elevated chloride concentrations at the base of the excavation and proposes installation of a geosynthetic liner to limit rainwater infiltration. COP proposes collection of sidewall samples on a 200 square foot basis (50 linear feet) as outlined in NMAC 19.15.29. The estimated volume of soil removed will be approximately 5,500 cubic yards, which will be transported to an NMOCD approved disposal facility. The Site will then be backfilled with locally sourced 'like' material to near original grade and reseeded in accordance with BLM requirements.

COP is prepared to begin the activities outlined in this *Former Drilling Pit Delineation and Reclamation Plan* following NMOCD and BLM approval. On completion of reclamation activities, a Reclamation Summary and Closure Report will be prepared detailing field activities.

If you have any questions, or need any additional information, please feel free to contact myself or Ike Tavarez by phone or email.



LIMITATION

TRC has prepared this Former Drilling Pit Delineation and Reclamation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ConocoPhillips. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ConocoPhillips.

505 East Huntland Dr. Suite 250 Austin, TX 78752 **T** 512.329.6080 TRCcompanies.com

DISTRIBUTION

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street Artesia, NM 88210

Copy 2: Jim Amos

Bureau of Land Management (BLM)

620 E Greene Street Carlsbad, NM 88220

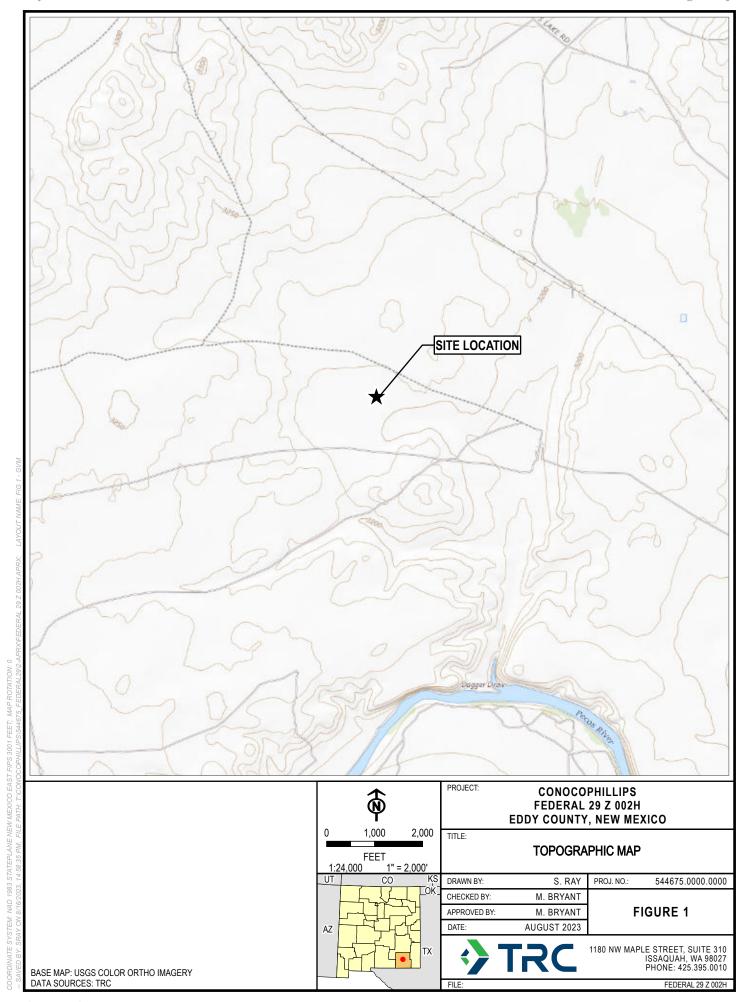
Copy 3: Ike Tavarez

ConocoPhillips

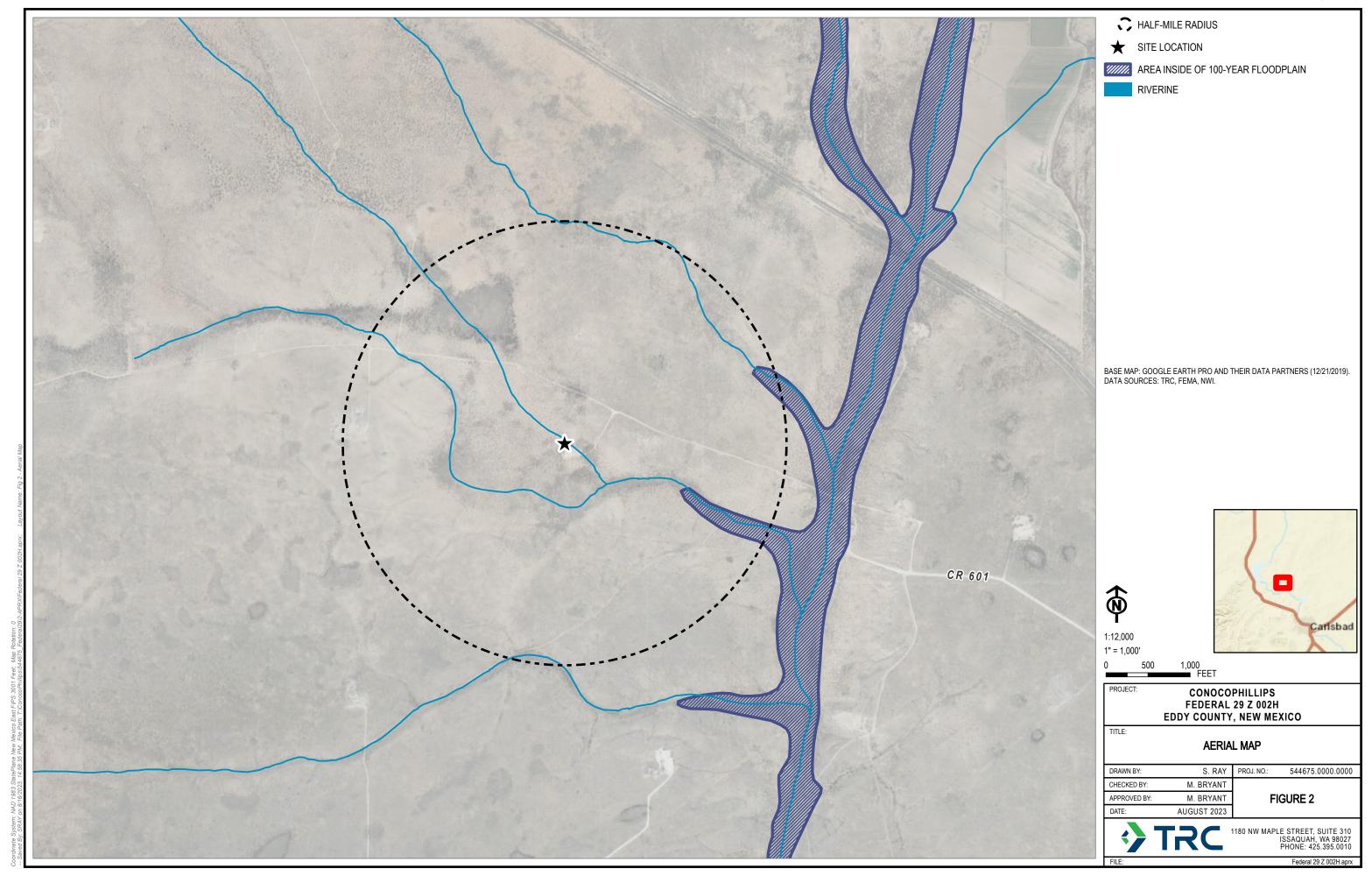
600 W. Illinois Avenue Midland, Texas 79701

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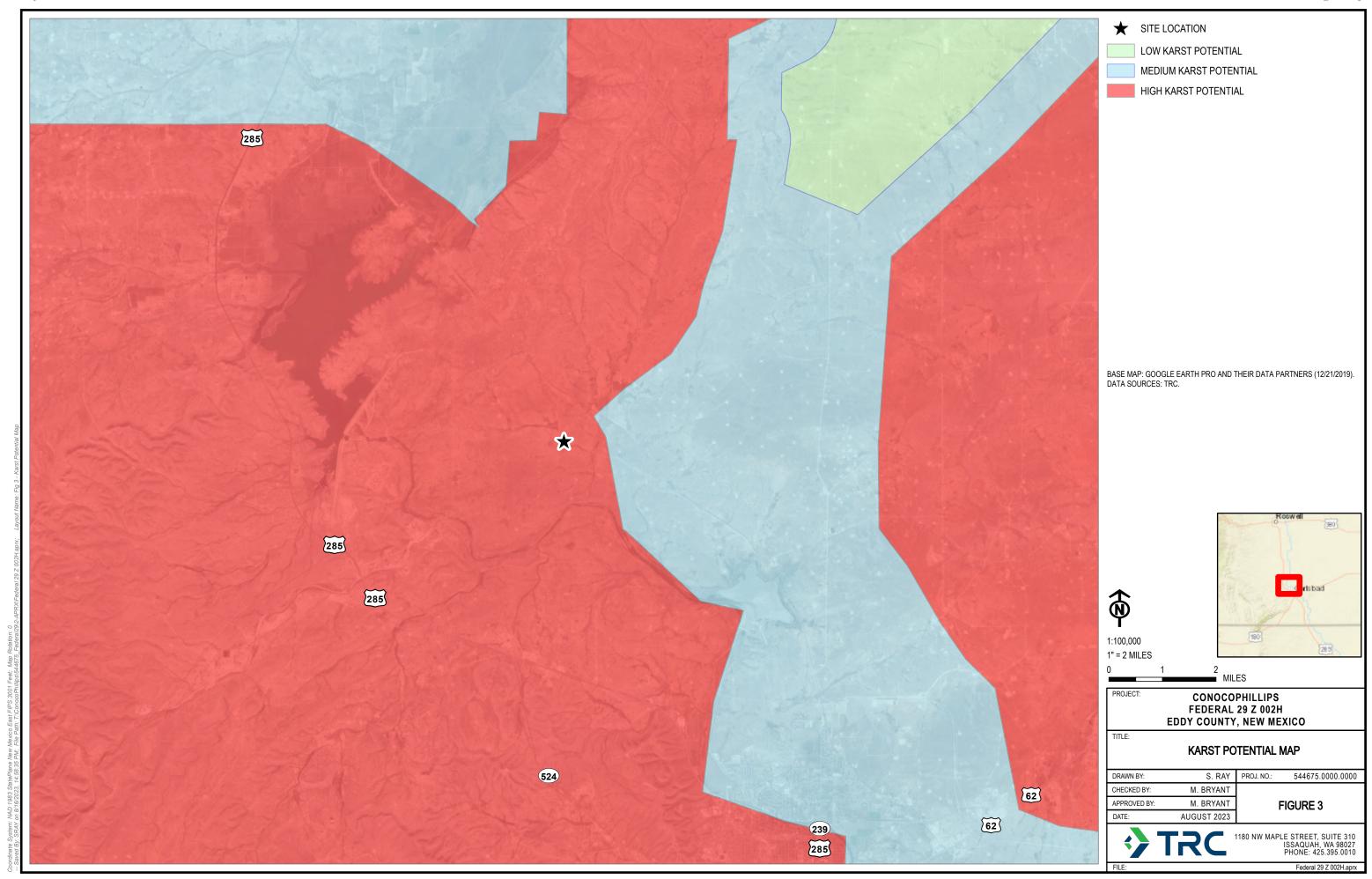
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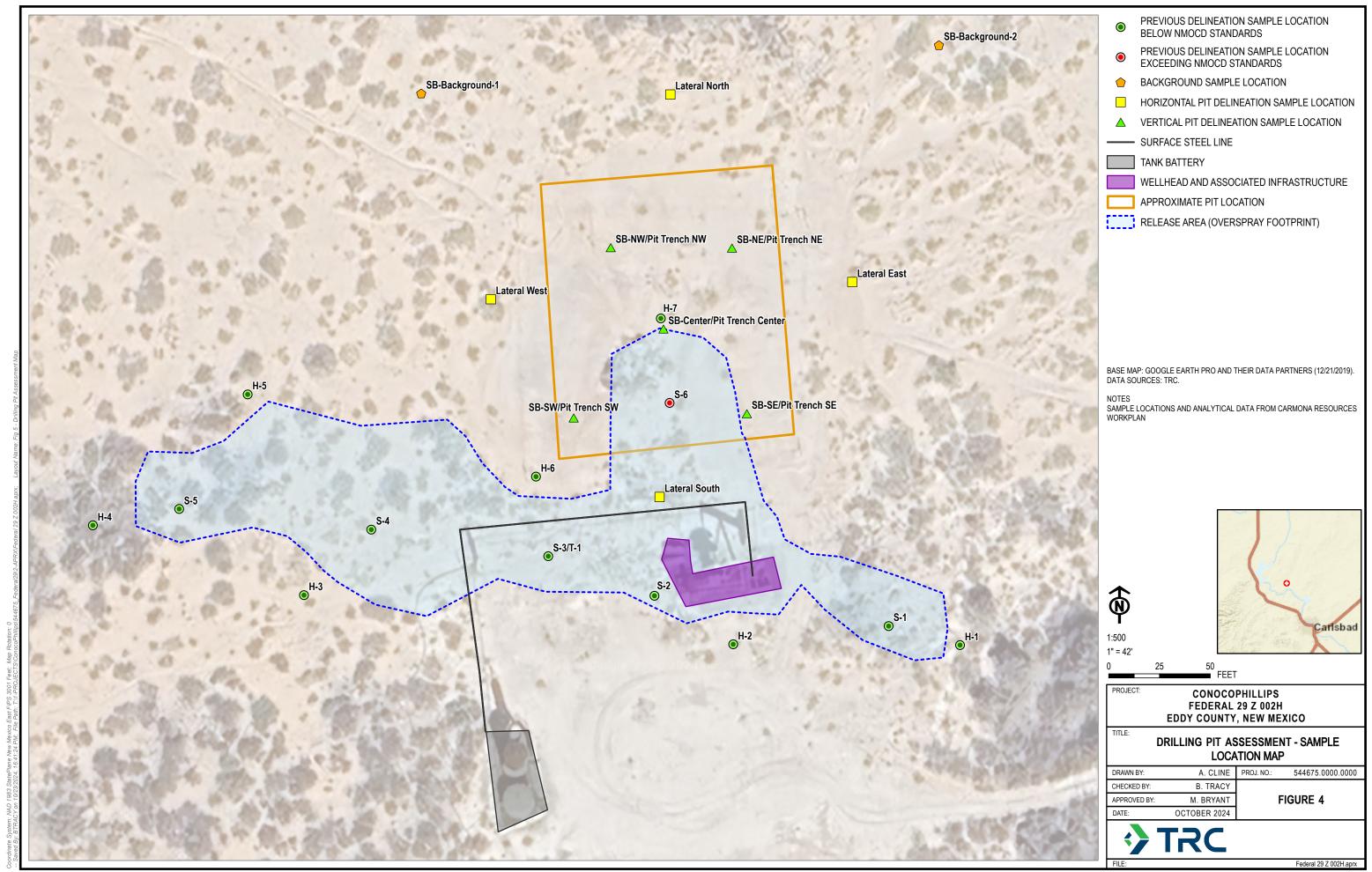


TABLE 1												
				COP, Feder	al 29 Z							
		Sumn	nary of Del	ineation Sam	pling Anal	lytical Resi	ults					
SAMPLE ID	DATE	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (GRO) C6-C10 (mg/kg)	Diesel Range Organics (DRO) C11-C28 (mg/kg)	OII Range Organics (ORO) (C29-C36) (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Guidelin	es	10				50				100	600	
Lateral Delineation												
Lateral-East @ 0-1'	6/6/2024	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00399	<49.9	<49.9	<49.9	<49.9	63.0	
Lateral-North @ 0-1'	6/6/2024	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00402	< 50.0	< 50.0	< 50.0	< 50.0	72.6	
Lateral-South @ 0-1'	6/6/2024	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	108	
Lateral-West @ 0-1' 6/6/2024 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <50.0 <50.0 <50.0 <50.0 6												
	Veritcal Delineation											
Pit Trench Center @ 0-1'	6/6/2024	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	1,340	
Pit Trench Center @ 2'	6/6/2024	-	-	-	-	-	-	-	-	-	1,520	
Pit Trench Center @ 4'	6/6/2024	-	-	-	-	-	-	-	-	-	848	
Pit Trench Center @ 6'	6/6/2024	-	-	-	-	-	-	-	-	-	1,020	
Pit Trench Center @ 8'	6/6/2024	-	-	-	-	-	-	-	-	-	2,450	
Pit Trench Center @ 10	6/6/2024	-	-	-	-	-	-	-	-	-	3,590	
Pit Trench Center @ 12	6/6/2024	-	-	-	-	-	-	-	-	-	2,970	
SB-Center @ Surface	10/8/2024	-	-	-	-	-	-	-	-	-	847	
SB-Center @ 1-3'	10/8/2024	-	-	-	-	-	-	-	-	-	1,110	
SB-Center @ 5'	10/8/2024	-	-	-	-	-	-	-	-	-	466	
SB-Center @ 10'	10/8/2024	-	-	-	-	-	-	-	-	-	1,570	
SB-Center @ 15'	10/8/2024	-	-	-	-	-	-	-	-	-	1,040	
SB-Center @ 20'	10/8/2024	-	-	-	-	-	-	-	-	-	883	
SB-Center @ 25'	10/8/2024	-	-	1	-	-	1	-	-	-	997	
SB-Center @ 30'	10/8/2024	-	-	-	1	-	-	-	-		678	

	TABLE 1											
				COP, Feder								
		Sumn	nary of Del	lineation Sam	pling Anal	lytical Res						
SAMPLE ID	DATE	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (GRO) C6-C10 (mg/kg)	Range	(C20 C36)	Total TPH	Chloride (mg/kg)	
NMOCD Guideline	es	10				50				100	600	
Pit Trench NE @ 0-1'	6/6/2024	< 0.00200	< 0.00200	< 0.00200	< 0.00401	< 0.00401	<49.9	<49.9	<49.9	<49.9	7,870	
Pit Trench NE @ 2'	6/6/2024	-	-	_	-	-	-	-	-	-	2,440	
Pit Trench NE @ 4'	6/6/2024	-	-	-	-	-	-	-	-	-	2,600	
Pit Trench NE @ 6'	6/6/2024	-	-	-	-	-	-	-	-	-	2,580	
Pit Trench NE @ 8'	6/6/2024	-	-	-	-	-	-	-	-	-	2,910	
Pit Trench NE @ 10'	6/6/2024	-	-	-	-	-	-	-	-	-	3,930	
Pit Trench NE @ 12'	6/6/2024	-	-	-	-	-	-	-	-	-	1,200	
SB-NE @ Surface	10/9/2024	-	-	-	-	-	-	-	-	-	7,440	
SB-NE @ 1-3'	10/9/2024	-	-	-	-	-	-	-	-	-	1,580	
SB-NE @ 5'	10/9/2024	-	-	-	-	-	-	-	-	-	1,620	
SB-NE @ 10'	10/9/2024	-	-	-	-	-	-	-	-	-	1,280	
SB-NE @ 15'	10/9/2024	-	-	-	-	-	-	-	-	-	965	
SB-NE @ 20'	10/9/2024	-	-	-	-	-	-	-	-	-	538	
SB-NE @ 25'	10/9/2024	-	-	-	-	-	-	-	-	-	1,160	
SB-NE @ 30'	10/9/2024	-	<u> </u>	!	-	-	- '	'	-	'	1,480	

2,000

4,000

5,060

1,360

1,540

571

TABLE 1												
				COP, Feder	al 29 Z							
Summary of Delineation Sampling Analytical Results												
SAMPLE ID	DATE	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (GRO) C6-C10 (mg/kg)	Diesel Range Organics (DRO) C11-C28 (mg/kg)	OII Range Organics (ORO) (C29-C36) (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Guidelines		10				50				100	600	
Pit Trench NW @ 0-1'	6/6/2024	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00399	<49.9	<49.9	<49.9	<49.9	10,300	
Pit Trench NW @ 2'	6/6/2024	-	-	-	-	-	-	-	-	-	4,570	
Pit Trench NW @ 4'	6/6/2024	-	1	-	-	1	1	-	-	-	4,110	
Pit Trench NW @ 6'	6/6/2024	-	-	-	-	-	-	-	-	-	5,530	
Pit Trench NW @ 8'	6/6/2024	-	-	-	-	-	-	-	-	-	4,740	
Pit Trench NW @ 10'	6/6/2024	-	-	-	-	-	1	-	-	-	7,850	
Pit Trench NW @ 12'	6/6/2024	-	-	-	-	-	-	-	-	-	4,080	
SB-NW @ Surface	10/9/2024	_	_	_	-	_	-	-	-	-	1,870	
	10/9/2021										,	

SB-NW @ 5'

SB-NW @ 10'

SB-NW @ 15'

SB-NW @ 20'

SB-NW @ 25'

SB-NW @ 30'

10/9/2024

10/9/2024

10/9/2024

10/9/2024

10/9/2024

10/9/2024

613

1,480

	TABLE 1											
				COP, Feder	al 29 Z							
		Sumn	nary of Del	ineation Sam	pling Anal	ytical Resi	ults					
SAMPLE ID	DATE	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (GRO) C6-C10 (mg/kg)	Diesel Range Organics (DRO) C11-C28 (mg/kg)	OII Range Organics (ORO) (C29-C36) (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Guideline	es	10				50				100	600	
Pit Trench SE @ 0-1'	6/6/2024	< 0.00202	< 0.00202	< 0.00202	< 0.00403	< 0.00403	<49.9	<49.9	<49.9	<49.9	1,730	
Pit Trench SE @ 10'	6/6/2024	-	-	-	-	-	-	-	-	-	2,140	
Pit Trench SE @ 2'	6/6/2024	-	1	ı	1	1	ı	-	1	ı	5,980	
Pit Trench SE @ 4'	6/6/2024	-	-	-	-	-	-	-	-	-	10,100	
Pit Trench SE @ 6'	6/6/2024	-	1	ı	1	1	ı	-	1	1	1,250	
Pit Trench SE @ 8'	6/6/2024	-	ı	-	1	ı	1	-	ı	ı	1,210	
Pit Trench SE @ 10'	6/6/2024	-	-	-	-	-	-	-	-	-	2,140	
Pit Trench SE @ 12'	6/6/2024	-	-	-	-	-	-	-	-	-	2,580	
SB-SE @ Surface	10/9/2024	-	-	-	-	-	-	-	-	-	7,230	
SB-SE @ 1-3'	10/9/2024	-	-	-	-	-	-	-	-	-	1,950	
SB-SE @ 5'	10/9/2024	-	-	-	-	-	-	-	-	-	1,760	
SB-SE @ 10'	10/9/2024	-	-	-	-	-	-	-	-	-	1,820	
SB-SE @ 15'	10/9/2024	-	-	-	-	-	-	-	-	-	1,540	
SB-SE @ 20'	10/9/2024	-	-	-	-	-	-	-	-	-	796	

SB-SE @ 25'

SB-SE @ 30'

10/9/2024

10/9/2024

	TABLE 1 COP, Federal 29 Z											
SAMPLE ID DATE Benzene (mg/kg) DATE Benzene (mg/kg) Benzene (mg/kg) Ethylbenzene (mg/kg) Total Xylenes (mg/kg) Ethylbenzene (mg/kg) Total Xylenes (mg/kg) Ethylbenzene (mg/kg) Organics (ORO) C6-C10 C11-C28 (mg/kg) (mg/kg) (mg/kg)											Chloride (mg/kg)	
NMOCD Guidelin	es	10				50				100	600	
Pit Trench SW @ 0-1'	6/6/2024	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00402	< 50.0	118	< 50.0	118	3,650	
Pit Trench SW @ 2'	6/6/2024	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00402	< 50.0	< 50.0	< 50.0	< 50.0	2,550	
Pit Trench SW @ 4'	6/6/2024	-	-	-	-	-	-	-	-	-	2,170	
Pit Trench SW @ 6'	6/6/2024	-	-	ı	-	-	-	-	-	-	1,660	
Pit Trench SW @ 8'	6/6/2024	-	-	1	ı	-	-	-	-	-	1,150	
Pit Trench SW @ 10'	6/6/2024	-	-	-	-	-	-	-	-	-	1,230	
Pit Trench SW @ 12'	6/6/2024	-	-	ı	ı	-	-	-	-	-	437	
SB-SW @ Surface	10/9/2024	-	-	-	-	-	-	-	-	-	7,170	
SB-SW @ 1-3'	10/9/2024	-	-	ı	ı	-	-	-	-	-	2,440	
SB-SW @ 5'	10/9/2024	-	-	-	-	-	-	-	-	-	2,240	
SB-SW @ 10'	10/9/2024	-	-	-	-	-	-	-	-	-	1,020	
SB-SW @ 15'	10/9/2024	-	-	-	-	-	-	-	-	-	215	
SB-SW @ 20'	10/9/2024	-	-	-	-	-	-	-	-	-	79.2	
SB-SW @ 25'	10/9/2024	-	-	-	-	-	-	-	-	-	78.3	
SB-SW @ 30'	10/9/2024	-	-	-	-	-	-	-	-	-	128	

TABLE 1												
				COP, Feder	al 29 Z							
		Sumn	nary of De	lineation Sam	pling Anal	lytical Res	ults					
SAMPLE ID	DATE	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (GRO) C6-C10 (mg/kg)	Diesel Range Organics (DRO) C11-C28 (mg/kg)	(ORO)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Guidelin	es	10				50				100	600	
Background Borings												
Background-1 @ Surface	10/10/2024	-	-	-	-	-	-	-	-	-	<10.0	
Background-1 @ 1-3'	10/10/2024	-	-	-	-	-	-	-	-	-	31.3	
Background-1 @ 5'	10/10/2024	-	-	-	-	-	-	-	-	-	25.4	
Background-1 @ 10'	10/10/2024	-	-	-	-	-	-	-	-	-	<9.90	
Background-1 @ 15'	10/10/2024	-	-	-	-	-	-	-	-	-	<10.0	
Background-1 @ 20'	10/10/2024	-	-	-	-	-	-	-	-	-	46.2	
Background-1 @ 25'	10/10/2024	-	-	-	-	-	-	-	-	-	164	
Background-1 @ 30'	10/10/2024	-	-	-	-	-	-	-	-	-	141	
Background-2 @ Surface	10/8/2024	-	-	-	-	-	-	-	-	-	334	
Background-2 @ 1-3'	10/8/2024	-	-	-	-	-	-	-	-	-	241	
Background-2 @ 5'	10/8/2024	1	-	-	1	-	-	-	-	-	271	
Background-2 @ 10'	10/8/2024	-	-	-	-	-	-	-	-	-	172	
Background-2 @ 15'	10/8/2024	-	-	-	1	-	-	-	-	-	50.7	
Background-2 @ 20'	10/8/2024	-	-	-	1	-	-	-	-	-	13.4	
Background-2 @ 25'	10/8/2024	-	-	-	-	-	-	-	-	-	14.1	
Background-2 @ 30'	10/8/2024	-	-	-	-	-	-	-	_	-	7.48	

Exceeds NMOCD Standard



Appendix A – Groundwater Database Results

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	х	Υ	Мар
2124F	C 04728 POD1	NE	SW	SE	29	20S	27E	565794.4	3600565.0	

^{*} UTM location was derived from PLSS - see Help

Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE		
Driller Name:	CLINTON E T	AYLOR			
Drill Start Date:	2023-09-11	Drill Finish Date:	2023-10-10	Plug Date:	
Log File Date:	2023-10-25	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	100
Casing Size:		Depth Well:	159	Depth Water:	132

Water Bearing Stratifications:

Тор	Bottom	Description
132	142	Limestone/Dolomite/Chalk
142	159	Limestone/Dolomite/Chalk

Casing Perforations:

Тор	Bottom
139	159

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

10/24/24 12:00 PM MST Point of Diversion Summary

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505 East Huntland Dr. Suite 250 Austin, TX 78752

Appendix B – Previously Submitted and Conditionally Approved Workplan; Carmona Resources



SITE INFORMATION

Work Plan Federal 29 Z 002H (07.16.22) Incident # NAPP2221331648 Eddy County, New Mexico Unit L Sec 29 T20S R27E 32.5425°, -104.3108°

Crude Oil Release

Point of Release: Packing blowout

Release Date: 07.16.22

Volume Released: 1.5 barrels of Crude Oil Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES

Prepared for: Concho Operating, LLC 15 West London Road Loving, New Mexico 88256

Prepared by: Carmona Resources, LLC 310 West Wall Street Suite 415 Midland, Texas 79701

> 310 West Wall Street, Suite 415 Midland TX, 79701 432.813.1992



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1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 PROPOSED WORK PLAN

6.0 CONCLUSIONS

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FIGURE 3 SAMPLE LOCATION FIGURE 4 PROPOSED EXCAVATION

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APPENDIX C INITIAL C-141 AND REMEDIATION PLAN

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS



December 15, 2022

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Work Plan

Federal 29 Z 002H (07.16.22) Concho Operating, LLC Incident # NAPP2221331648 Site Location: Unit L, S29, T20S, R27E (Lat 32.5425°, Long -104.3108°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Federal 29 Z 002H (07.16.22). The site is located at 32.5425°, -104.3108 ° within Unit L, S29, T20S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 16, 2022, from a packing blowout. It resulted in the release of approximately one point five (1.5) barrels of crude oil, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.70 miles Southeast of the site in S29, T20S, R27E and was drilled in 1957. The well has a reported depth to groundwater of 83.75' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

310 West Wall Street, Suite 415 Midland, Texas 79701 432.813.1992



4.0 Site Assessment Activities

Initial Assessment

On September 20, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points and seven (7) horizontal samples were advanced to depths ranging from the surface to 4.5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical delineation was not achieved due to the dense layer encountered. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-7 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Trenching

Based on the area having heavy rainfall events, Carmona Resources returned to the location on December 9, 2022, to vertically delineate the area of S-3 and evaluate soil impacts stemming from the release. A total of one (1) trench (T-1) was installed to a total depth from surface to 6.0 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sample locations are shown in Figure 3.

The area of Trench-1 showed no chloride impact from surface to 6.0 ft below the surface. The rain has significantly helped dilute or migrate the chloride concentrations during the rainfall events. Vertical delineation was achieved. Refer to Table 1.

5.0 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations, Concho proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The area of S-6 will be excavated to a depth of 4.0' below the surface and backfilled with clean material to grade. Which is on the edge of the reserve pit.
- COG requests to collect composite sidewall samples from the surface to 1' to mitigate digging into and sampling the possible impact from the reserve pit at 4.0'.
- An estimated 875 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.
- A variance is requested per 19.15.29.14. A NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 400 square feet to represent the release area.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.



Impacted soil around the reserve pit, oil and gas equipment, structures, or lines may not be removed
during remediation activities due to safety concerns for the onsite personnel. However, COG will
excavate the impacted soils to the maximum extent possible.

6.0 Conclusions

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Mike Carmona

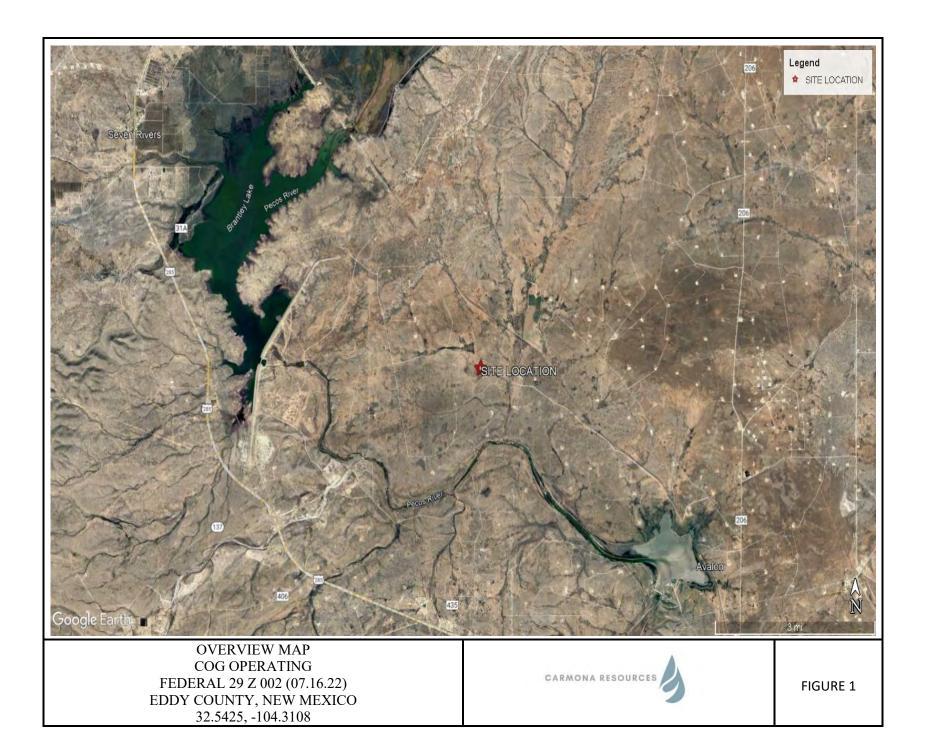
Environmental Manager

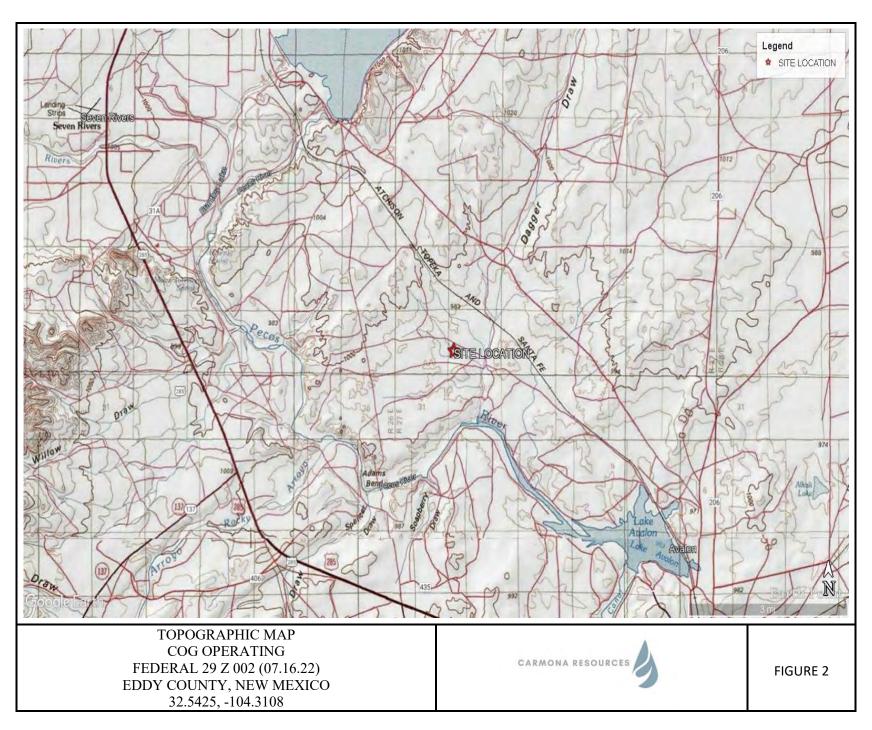
Conner Moehring

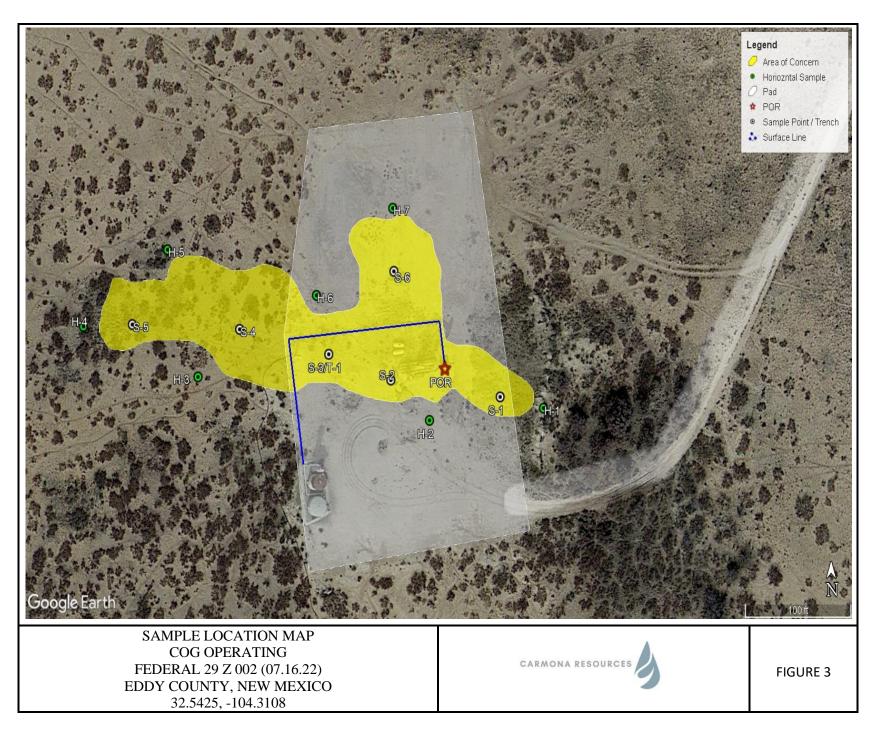
Sr. Project Manager

FIGURES

CARMONA RESOURCES









APPENDIX A

CARMONA RESOURCES

Table 1 COG Federal 29 Z #2 (07.16.22) Eddy County, New Mexico

0 1 10	2.	D 41 (62)	TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride		
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.0
S-1	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.0
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	60.2
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	12.3
S-2	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	14.7
3-2	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.6
	"	2.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.0
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	18.3
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.6
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.6
S-3	"	2.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	815
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	161
	"	3.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,090
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,560
	12/9/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	34.0
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.9
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	344
T-1	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	492
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	228
	"	5.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	85.6
	"	6.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	177
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	18.3
S-4	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.6
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.6
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.1
S-5	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.6
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.0
	9/20/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	3,860
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,320
	"	2.0	<50.0	79.1	<50.0	79.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	773
S-6	"	2.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,630
3-0	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,540
-	"	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,170
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	291
	"	4.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	293
	ry Criteria ^A Analyzed					100 mg/kg	10 mg/kg	-			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(T) Trench

Proposed Excavation

Table 1 COG Federal 29 Z #2 (07.16.22) Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-1	9/20/2022	0-0.5	<50.0	76.7	<50.0	76.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	15.3
H-2	9/20/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	220
H-3	9/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	8.83
H-4	9/20/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.3
H-5	9/20/2022	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9.39
H-6	9/20/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.84
H-7	9/20/2022	0-0.5	<49.8	99.5	<49.8	99.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	103
Regulatory Criteria A						100 mg/kg	10 mg/kg	-		-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:

View South, area of sample point S-1.



Photograph No. 2

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:

View West, areas of sample points S-2 and S-3.



Photograph No. 3

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:

View West, areas of sample points S-4 and S-5.





PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:

View Northeast, area of sample point S-6.



Photograph No. 5

Facility: Federal 29 Z 002H (07.16.22)

County: Eddy County, New Mexico

Description:

View East, area of S-3 (Trench-1).



APPENDIX C

CARMONA RESOURCES

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party				OGRID			
Contact Name				Contact Te	Contact Telephone		
Contact ema	Contact email				(assigned by OCD	9)	
Contact mail	ing address			1			
			Location	of Release Se	ource		
.							
Latitude			(NAD 83 in de	Longitude _cimal degrees to 5 decin	nal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	olicable)		
Unit Letter	Section	Township	Range	Cour	nty	7	
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 Release	ed (bbls)		Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	chloride in the	Yes No		
Condensa	nte	Volume Release			Volume Reco	overed (bbls)	
Natural G	ias	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units			e units)	Volume/Wei	ght Recovered (provide units)		
Cause of Rel	ease						

Received by OCD: 10/28/2024 2:29:51 PM State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

	what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	
Yes No	
If YES, was immediate notice given to	the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible party must unde	rtake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release has been	stopped.
	ed to protect human health and the environment.
Released materials have been con	tained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable m	aterials 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 response	onsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a narrative of	f actions to date. If remedial efforts have been successfully completed or if the release occurred 9.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	port and/or file certain release notifications and perform corrective actions for releases which may endanger eptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigate and remed	iate contamination that pose a threat to groundwater, surface water, human health or the environment. In rt does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	it does not refleve the operator of responsibility for compitance with any other federal, state, or local laws
Printed Name	Title:
Signature: _ Pautanux	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:
Teestived by.	

L48 Spill Volume Estimate Form									
Facility Name & Number: Federal 29 Z #2									
		Asset Area:	DBWN						
		Release Discovery Date & Time:	7.15.22						
		Release Type:	Oil Mixture						
	Provide a	any known details about the event:	Packing Blow out						
				Spill Calculation - Subs	urface Spill - Rectangle				
	W	las the release on pad or off-pad?			See reference table	e below			
H	las it rained at lea	ast a half inch in the last 24 hours?			See reference table	e below			
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	180.0	60.0	0.10	10.50%	16.020	1.682	50.00%	0.841	0.841
Rectangle B					0.000	0.000	50.00%	0.000	0.000
Rectangle C					0.000	0.000		0.000	0.000
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
					Total Volume Release:	1.682		0.841	0.841

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

District II

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

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

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

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

CONDITIONS

Action 130057

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	130057
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	8/1/2022

Received by OCD: 10/28/2024	2:29:51 PM
Form C-141	State of New Mexico
Page 3	Oil Conservation Division

	Page 44 of 124
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil				
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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	Page 45 of 1.	24
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 10/28/2024 2:29:51 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

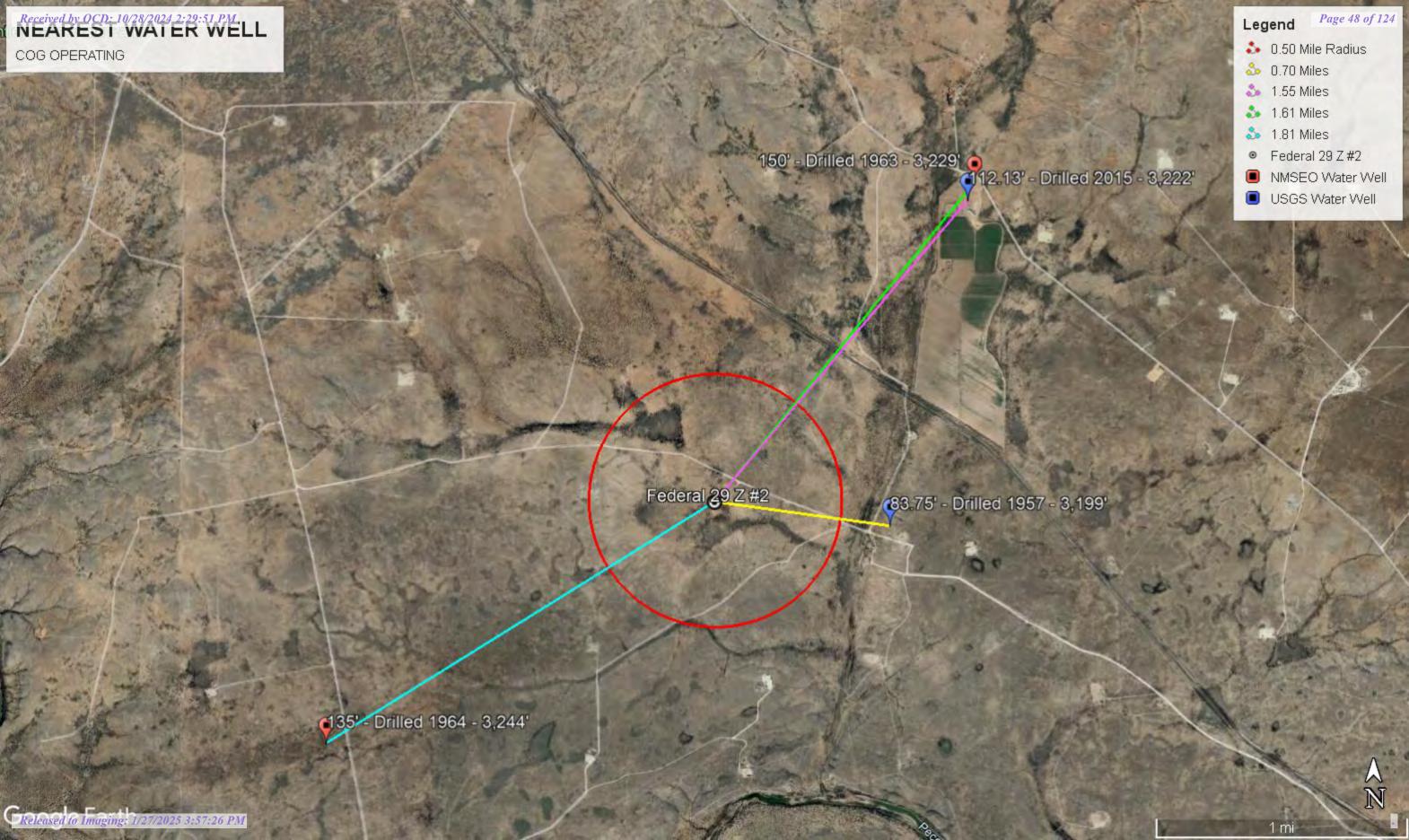
	Page 46 of 1.	24
Incident ID		
District RP		
Facility ID		
Application ID		

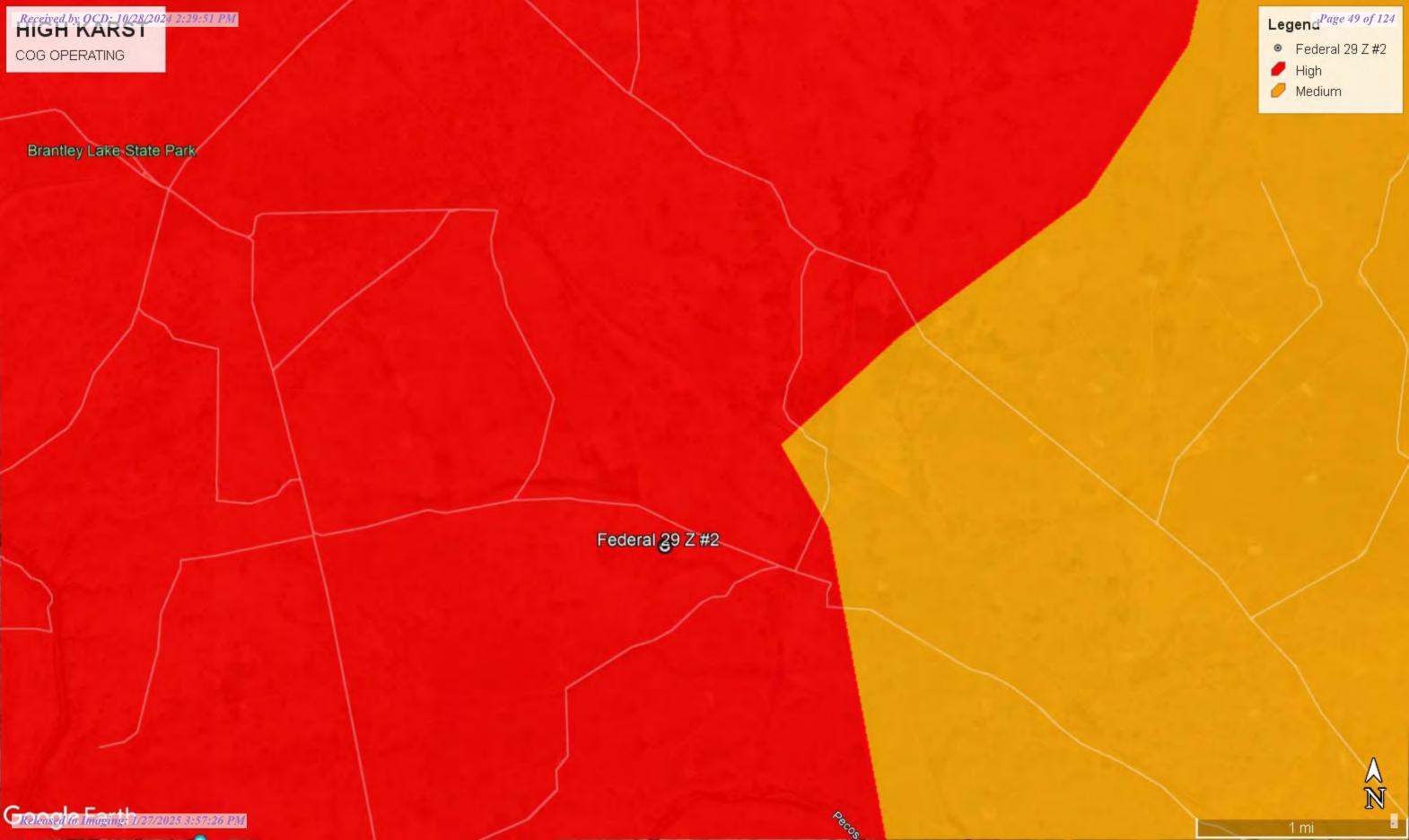
Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	ofirmed as part of any request for deferral of remediation
Deterral Requests Only. Each of the following tiems must be con-	ijirmea as part of any request for aeferrat of remeatation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

APPENDIX D

CARMONA RESOURCES







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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

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

(In feet)

		POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
<u>C 00419</u>	С	CUB	ED	3	3	4	19	20S	27E	563904	3601904* 🎒	1391	1813		
RA 03979		RA	ED	1	1	3	21	20S	27E	566306	3602539*	2309	190		
RA 10049		RA	ED	4	3	1	21	20S	27E	566506	3602744* 🌍	2595	200		
RA 04764		RA	ED		3	1	21	20S	27E	566407	3602845* 🌍	2608	171	150	21
RA 05857		RA	ED	2	2	2	20	20S	27E	566104	3603346* 🌍	2861			
<u>C 01182</u>		С	ED	1	1	4	36	20S	26E	562296	3599260* 🌍	2921	150	135	15
RA 07841		RA	ED		1	1	21	20S	27E	566408	3603251* 🌍	2936	200	140	60

Average Depth to Water: 141 feet

DEPTH TO WATER

Minimum Depth: 135 feet

Maximum Depth: 150 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 564769.94 Northing (Y): 3600814.18 Radius: 4000

*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.



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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323229104175401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323229104175401 20S.27E.29.441131

Eddy County, New Mexico

Table of data

Latitude 32°32'29", Longitude 104°17'54" NAD27

Land-surface elevation 3,199 feet above NAVD88

The depth of the well is 125 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Graph of dat	<u>:a</u>									
eselect per	<u>iod</u>									
Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source meason
1948-10-06	5	D	62610		3121.75	NGVD29	1	Z		
1948-10-06	5	D	62611		3123.30	NAVD88	1	Z		
1948-10-06	5	D	72019	75.70			1	Z		
1953-03-05	5	D	62610		3118.79	NGVD29	Р	Z		
1953-03-05	5	D	62611		3120.34	NAVD88	Р	Z		
1953-03-05	5	D	72019	78.66			Р	Z		
1953-03-12	2 21:23 UTC	m	62610		3118.42	NGVD29	Р	S	USGS	
1953-03-12	2 21:23 UTC	m	62611		3119.97	NAVD88	Р	S	USGS	
1953-03-12	2 21:23 UTC	m	72019	79.03			Р	S	USGS	
1953-04-03	3	D	62610		3117.75	NGVD29	1	Z		
1953-04-03	3	D	62611		3119.30	NAVD88	1	Z		
1953-04-03	3	D	72019	79.70			1	Z		
1953-06-12	2	D	62610		3115.87	NGVD29	1	Z		
1953-06-12	2	D	62611		3117.42	NAVD88	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-06-12		D	72019	81.58			1	. Z		
1953-07-02		D	62610		3115.00	NGVD29	1	. Z		
1953-07-02		D	62611		3116.55	NAVD88	1	. Z		
1953-07-02		D	72019	82.45			1	. Z		
1953-07-17		D	62610		3114.58	NGVD29	1	. Z		
1953-07-17		D	62611		3116.13	NAVD88	1	. Z		
1953-07-17		D	72019	82.87			1	. Z		
1953-08-10		D	62610		3113.91	NGVD29	1	. Z		
1953-08-10		D	62611		3115.46	NAVD88	1	. Z		
1953-08-10		D	72019	83.54			1	. Z		
1953-09-19		D	62610		3114.23	NGVD29	1	. Z		
1953-09-19		D	62611		3115.78	NAVD88	1	. Z		
1953-09-19		D	72019	83.22			1	. Z		
1953-10-31		D	62610		3114.57	NGVD29	1	. Z		
1953-10-31		D	62611		3116.12	NAVD88	1	. Z		
1953-10-31		D	72019	82.88			1	. Z		
1953-11-20		D	62610		3114.65	NGVD29	1	. Z		
1953-11-20		D	62611		3116.20	NAVD88	1	. Z		
1953-11-20		D	72019	82.80			1	. Z		
1953-12-08		D	62610		3114.77	NGVD29	1	. Z		
1953-12-08		D	62611		3116.32	NAVD88	1	. Z		
1953-12-08		D	72019	82.68			1	. Z		
1954-01-18		D	62610		3116.74	NGVD29	1	. Z		
1954-01-18		D	62611		3118.29	NAVD88	1	. Z		
1954-01-18		D	72019	80.71			1	. Z		
1954-03-15		D	62610		3117.63	NGVD29	1	. Z		
1954-03-15		D	62611		3119.18	NAVD88	1	. Z		
1954-03-15		D	72019	79.82			1	. Z		
1954-04-09		D	62610		3116.99	NGVD29	1	. Z		
1954-04-09		D	62611		3118.54	NAVD88	1	. Z		
1954-04-09		D	72019	80.46			1	. Z		
1954-05-28		D	62610		3115.62	NGVD29	1	. Z		
1954-05-28		D	62611		3117.17	NAVD88	1	. Z		
1954-05-28		D	72019	81.83			1	. Z		
1954-06-25		D	62610		3115.07	NGVD29	1	. Z		
1954-06-25		D	62611		3116.62	NAVD88	1	. Z		
1954-06-25		D	72019	82.38			1	. Z		
1954-07-30		D	62610		3113.51	NGVD29	1	. Z		
1954-07-30		D	62611		3115.06	NAVD88	1	. Z		
1954-07-30		D	72019	83.94			1	. Z		
1954-09-28		D	62610		3113.06	NGVD29	1	. Z		
1954-09-28		D	62611		3114.61	NAVD88	1	. Z		
1954-09-28		D	72019	84.39			1	. Z		
1954-10-18		D	62610		3113.87	NGVD29	1	. Z		
1954-10-18		D	62611		3115.42	NAVD88	1	. Z		
1954-10-18		D	72019	83.58			1	. Z		
1954-11-30		D	62610		3116.92	NGVD29	1	. Z		
1954-11-30		D	62611		3118.47	NAVD88	1	. Z		
1954-11-30		D	72019	80.53			1	. Z		
1954-12-31		D	62610		3118.45	NGVD29	1	. Z	<u>'</u>	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Sour meas
.954-12-31		D	62611		3120.00	NAVD88	1	Z		
954-12-31		D	72019	79.00	3120.00	NAVBOO	1			
.955-01-28		D	62610	75.00	3119.38	NGVD29	1			
955-01-28		D	62611		3120.93	NAVD88	1			
955-01-28		D	72019	78.07	3120.33		1			
.955-02-25		D	62610	70.07	3119.01	NGVD29	1			
1955-02-25		D	62611		3120.56	NAVD88	1			
1955-02-25		D	72019	78.44	3120.30		1			
955-03-12		D	62610		3118.42	NGVD29	1			
.955-03-12		D	62611		3119.97	NAVD88	1			
.955-03-12		D	72019	79.03			1			
.955-03-25		D	62610		3117.95	NGVD29	1			
955-03-25		D	62611		3119.50	NAVD88	1			
955-03-25		D	72019	79.50			1			
955-04-26		D	62610		3117.50	NGVD29	1	Z		
.955-04-26		D	62611		3119.05	NAVD88	1	Z		
.955-04-26		D	72019	79.95			1	Z		
955-05-24		D	62610		3116.45	NGVD29	1	Z		
955-05-24		D	62611		3118.00	NAVD88	1	Z		
955-05-24		D	72019	81.00			1	Z		
955-06-17		D	62610		3115.42	NGVD29	1	Z		
955-06-17		D	62611		3116.97	NAVD88	1	Z		
.955-06-17		D	72019	82.03			1	Z		
.955-07-26		D	62610		3113.76	NGVD29	1	Z		
955-07-26		D	62611		3115.31	NAVD88	1	Z		
955-07-26		D	72019	83.69			1	Z		
955-08-30		D	62610		3114.73	NGVD29	1	Z		
955-08-30		D	62611		3116.28	NAVD88	1	Z		
955-08-30		D	72019	82.72			1	Z		
955-09-22		D	62610		3115.31	NGVD29	1	Z		
955-09-22		D	62611		3116.86	NAVD88	1	Z		
955-09-22		D	72019	82.14			1	Z		
955-10-19		D	62610		3117.12	NGVD29	1	Z		
955-10-19		D	62611		3118.67	NAVD88	1	Z		
955-10-19		D	72019	80.33			1	Z		
955-11-23		D	62610		3120.38	NGVD29	1	Z		
955-11-23		D	62611		3121.93	NAVD88	1	Z		
955-11-23		D	72019	77.07			1	Z		
955-12-28		D	62610		3122.85	NGVD29	1	Z		
955-12-28		D	62611		3124.40	NAVD88	1	Z		
955-12-28		D	72019	74.60			1	Z		
956-01-28		D	62610		3123.08	NGVD29	1	Z		
956-01-28		D	62611		3124.63	NAVD88	1	Z		
956-01-28		D	72019	74.37			1	Z		
957-01-24		D	62610		3113.70	NGVD29	Р	Z		
957-01-24		D	62611		3115.25	NAVD88	Р	Z		
957-01-24		D	72019	83.75			Р	Z		

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> **Data Tips** Explanation of terms Subscribe for system changes <u>News</u>

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2022-08-01 11:27:29 EDT

0.33 0.28 nadww02





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USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs site_no list =

323336104173501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323336104173501 20S.27E.21.31112

Eddy County, New Mexico

Table of data

Latitude 32°33'36", Longitude 104°17'35" NAD27 Land-surface elevation 3,222 feet above NAVD88

The depth of the well is 190 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

ab-separa	ted data									
Graph of da	ata_									
Reselect pe	eriod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source meason
1961-01-0)3	D	62610		3109.46	NGVD29	1	Z		
1961-01-0)3	D	62611		3111.02	NAVD88	1	Z		
1961-01-0)3	D	72019	110.98			1	Z		
1963-09-0)4	D	62610		3100.29	NGVD29	1	Z		
1963-09-0)4	D	62611		3101.85	NAVD88	1	Z		
1963-09-0)4	D	72019	120.15			1	Z		
1984-02-2	28	D	62610		3108.53	NGVD29	1	Z		
1984-02-2	28	D	62611		3110.09	NAVD88	1	Z		
1984-02-2	28	D	72019	111.91			1	Z		
1989-02-1	14	D	62610		3110.41	NGVD29	1	Z		
1989-02-1	14	D	62611		3111.97	NAVD88	1	Z		
1989-02-1	.4	D	72019	110.03			1	Z		
1993-02-1	10	D	62610		3108.55	NGVD29	1	S		
1993-02-1	10	D	62611		3110.11	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-02-10		D	72019	111.89			1	S		
1994-02-11		D	62610		3105.41	NGVD29	1	S		
1994-02-11		D	62611		3106.97	NAVD88	1	S		
1994-02-11		D	72019	115.03			1	S		
1999-01-28		D	62610		3105.12	NGVD29	1	S	USGS	
1999-01-28		D	62611		3106.68	NAVD88	1	S	USGS	
1999-01-28		D	72019	115.32			1	S	USGS	
2015-01-12	20:45 UTC	m	62610		3108.31	NGVD29	1	S	NM001	
2015-01-12	20:45 UTC	m	62611		3109.87	NAVD88	1	S	NM001	
2015-01-12	20:45 UTC	m	72019	112.13			1	S	NM001	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	Α	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes **News**

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2022-08-01 11:29:33 EDT

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

RA 04764

21 20S 27E

566407 3602845*

Driller License: 28 **Driller Company:**

SMITH, A.F.

Driller Name: SMITH, A.F.

02/01/1963

Drill Finish Date:

02/02/1963

Plug Date:

Log File Date:

Drill Start Date:

PCW Rcv Date: 02/21/1963

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

171 feet

Depth Water: 150 feet

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.

7/29/22 9:52 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

C 01182

20S 26E

562296 3599260*

Driller License: 30 **Driller Company:**

BARRON, EMMETT

Driller Name:

Drill Start Date:

BARRON, EMMETT

Drill Finish Date:

04/10/1964

Plug Date:

Log File Date:

04/06/1964 05/01/1964

7.00

PCW Rcv Date:

Source:

Shallow

Pump Type:

Estimated Yield:

Casing Size:

Pipe Discharge Size: Depth Well:

150 feet

Depth Water:

135 feet

Water Bearing Stratifications:

Top Bottom Description

140

150 Limestone/Dolomite/Chalk

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.

7/29/22 9:54 AM

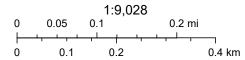
POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

New Mexico NFHL Data



July 29, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,



Appendix C – Previously Submitted and Conditionally Approved Workplan; TRC



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PROPOSED VARIANCE REQUEST

ConocoPhillips
Federal 29 Z 002H
Eddy County, New Mexico
Unit Letter "L", Section 29, Township 20 South, Range 27 East
Latitude 32.5425° North, Longitude 104.3108° West
NMOCD Reference No. NAPP2221331648

Prepared For:

ConocoPhillips 600 W Illinois Avenue Midland, Texas 79701

Prepared By:

TRC Environmental Corporation

10 Desta Drive, Suite 130E Midland, Texas 79705

September 2023

Misti Bryant Staff Geologist

Jared E. Stoffel, PC Project Manager



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- Appendix B Site Characterization Summary
- Appendix C Previously Submitted and Approved Workplan
- Appendix D Photographic Documentation



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INTRODUCTION & SITE BACKGROUND

TRC Environmental Corporation (TRC), on behalf of ConocoPhillips, has prepared this *Proposed Variance Request* for the Release Site known as the Federal 29 Z 002H (the Site). The legal description of the Site is Unit Letter "L", Section 29, Township 20 South, Range 27 East, in Eddy County, New Mexico. The subject property is owned by the State of New Mexico and administered by New Mexico State Land Office (NMSLO). The GPS coordinates for the Site are N 32.5425°, W 104.3108°. **Figure 1** is a topographic map of the Site.

SITE BACKGROUND

On July 16, 2022, ConocoPhillips (COP) discovered a crude oil release had occurred at the Site. The Release was attributed to a packing blowout. On the discovery date, COP notified the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) of the Release. The Release was assigned an NMOCD Reference number of NAPP2221331648. On August 01, 2022, the initial Release Notification and Corrective Action (Form C-141) was submitted to the NMOCD. The Form C-141 indicated 1.5 barrels (bbls) of crude oil was released and zero (0) bbls of crude oil was recovered. The Release affected an area measuring approximately 10,800 square feet (sq. ft.). The C-141 indicated the impacted area was located on and off the location pad. A copy of the submitted Form C-141 for the Release is provided in **Appendix A**. The Site location is depicted in **Figure 1**. **Appendix B** document the characterization parameters of the Site. The affected area is depicted in **Figure 2**.

REGULATORY FRAMEWORK

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.70 miles Southeast of the site in S29, T20S, R27E and was drilled in 1957. The well has a reported depth to groundwater of 83.75 feet below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in **Appendix B**.

Based on the inferred depth to groundwater at the Federal 29 Z 002H Release Site, the NMOCD Closure Criteria for Soils Impacted by a Release may not warrant the most stringent closure criteria listed, due to the lack of definitive depth to groundwater data. However, the Federal 29 Z 002H is within 300 feet of a significant watercourse and/or wetland denoted as a riverine in **Appendix B**. Additionally, the Federal 29 Z 002H is located in the 'high karst' area as outlined in Bureau of Land Management (BLM) publicly available Karst Potential Map and is provided in **Appendix B**. The NMOCD stance on the regulation of releases at Sites adjacent to flowing or significant watercourses, wetlands, and 'high karst' areas requires that COP utilize the most stringent NMOCD Closure Criteria for Soils Impacted by a Release for the Federal 29 Z 002H as follows:

- Benzene 10 mg/kg
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) –100 mg/kg
- Chloride 600 mg/kg



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SOIL INVESTIGATION SUMMARY AND PREVIOUSLY SUBMITTED AND APPROVED WORKPLAN

On September 20, 2022, Carmona Resources, LLC (Carmona Resources) performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points and seven (7) horizontal samples were advanced to depths ranging from the surface to 4.5 ft bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See **Figure 2** for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. Vertical delineation was not achieved due to the dense layer encountered. Horizontal delineation was achieved. Soil sample locations H-1 through H-7 exhibited concentrations below the regulatory limits for benzene, total BTEX, TPH, and chloride. **Table 1** includes the tabulated data provided by Carmona Resources for convenience.

Due to the heavy rainfall events and lack of complete vertical delineation, Carmona Resources returned to the Site on December 9, 2022, to vertically delineate the area of S-3 and evaluate soil impacts stemming from the release. One (1) trench (T-1) was installed to a total depth from surface to 6.0 ft below ground surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. The area of Trench-1 showed no chloride concentrations above NMOCD guidelines from surface to 6.0 ft below ground surface. The rain appears to have diluted or migrated the elevated chloride concentrations during the rainfall events.

Based on delineation data, the previously submitted and approved workplan proposed excavating the area represented by sample location S-6 to a depth of approximately 4 ft bgs, with confirmation samples on a 400 sq. ft. basis to confirm removal. The previously submitted and approved workplan is included as **Appendix C**.

The workplan was submitted to the NMOCD on December 15, 2022. The NMOCD approved the workplan on March 17, 2023 with the following conditional response:

The Remediation Plan is Conditionally Approved. This release is in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The variance for 400 ft² confirmation samples is approved. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Any contaminants left in place will need to be fully delineated and require a facility deconstruction to qualify for a deferral. Please remove contaminants with alternative methods around oil/gas equipment. The work will need to occur in 90 days after the work plan has been approved.



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PROPOSED VARIANCE REQUEST FOR APPROVED REMEDIATION WORKPLAN

On June 21, 2023, TRC requested an extension on the behalf of COP to confirm Site conditions prior to initiating remediation activities. The NMOCD granted the extension to September 21, 2023.

On July 13, 2023, TRC notified the NMOCD of the intent to begin remediation on July 17th. TRC completed the pre-remediation Site kickoff on July 17th, at which time no hydrocarbon surface staining was noted in the area to be remediated – soil sample location S-6. The initial workplan assumed S-6 was at the edge of the former reserve pit footprint, but an attempt to confirm prior to initiating remediation indicated S-6 was within the former reserve pit footprint. TRC attempted to determine the lateral extents of chloride concentrations associated with soil sample location S-6, and initial field screen data showed elevated chloride concentrations across the former reserve pit area. Elevated chloride concentrations in this area appear to be related to the former reserve pit rather than the Release. Photographic documentation is provided as **Appendix D**.

TRC did not begin the remediation due to the former reserve pit findings. COP and TRC reviewed all the data and noted the Release was a non-reportable (less than 5 bbl of fluid) overspray release of crude oil only. The overspray mechanism typically limits soil impacts to surface only and there were no produced water fluids reported. The elevated chloride concentrations to approximately 3.5 ft bgs are unlikely to be resultant of this non-reportable volume overspray crude oil release. Additionally, no soil samples submitted were affected above NMOCD guidelines for benzene, BTEX, or TPH. The lack of elevated hydrocarbon concentrations across the Site corroborates this interpretation. Prior to initiating remediation according to the approved workplan, COP requested a meeting with the NMOCD with the findings of non-reportable status and elevated chloride concentrations associated with the former reserve pit to clarify the path forward.

COP, TRC, and the NMOCD met virtually on August 2, 2023 to discuss the findings at the Site. During the meeting, the NMOCD indicated that despite the release volume of less than 5 bbls, the C-141 could not be retracted. Additionally, despite the lack of produced water from the Release, the elevated chloride concentrations associated with soil sample location S-6 must be addressed. However, a variance may be requested to the sampling requirements to avoid excavating the entirety of the former reserve pit area.

In response to the meeting on August 2, 2023, COP proposes to excavate the footprint of the overspray release in the area represented by soil sample S-6 to a depth of four (4) ft bgs, which based on the delineation data provided in the formerly approved workplan will remove the documented elevated chloride concentrations above NMOCD guidelines associated with soil sample location S-6. COP would like to respectfully request a variance under NMAC 19.15.29 to the requirement for confirmation sampling for the Release site and will limit the excavation to the indicated footprint and the prescribed four (4) foot depth. COP requests that no floor or sidewall samples be required, as the indicated footprint and four (4) foot depth will remove far more soil than was affected by an overspray release of crude oil only. The estimated volume of soil removed will be approximately 1,050 cubic yards, which will be transported to an NMOCD approved disposal facility. The Site will then be backfilled with locally sourced 'like' material to near original grade.



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COP is prepared to begin the activities outlined in this *Proposed Variance Request* following NMOCD and BLM approval. On completion of remediation activities, a Remediation Summary and Closure Report will be prepared detailing field activities.

If you have any questions, or need any additional information, please feel free to contact myself or Ike Tavarez by phone or email.

LIMITATION

TRC has prepared this Proposed Variance Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ConocoPhillips. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ConocoPhillips.



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DISTRIBUTION

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street Artesia, NM 88210

Copy 2: Jim Amos

Bureau of Land Management (BLM) Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

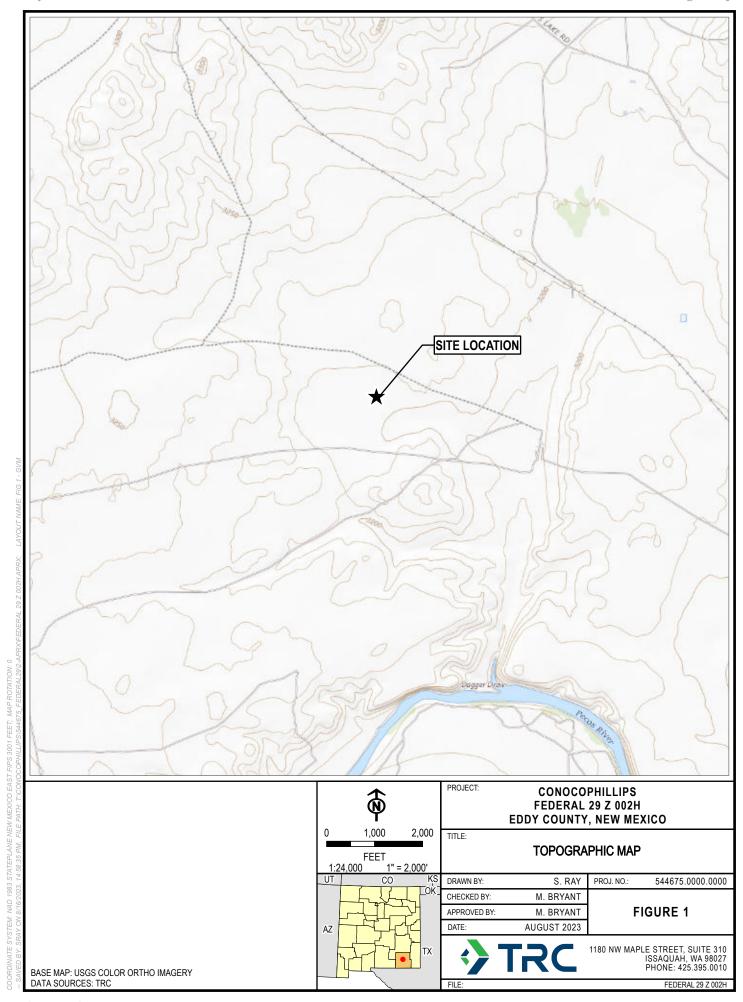
Copy 3: Ike Tavarez

ConocoPhillips

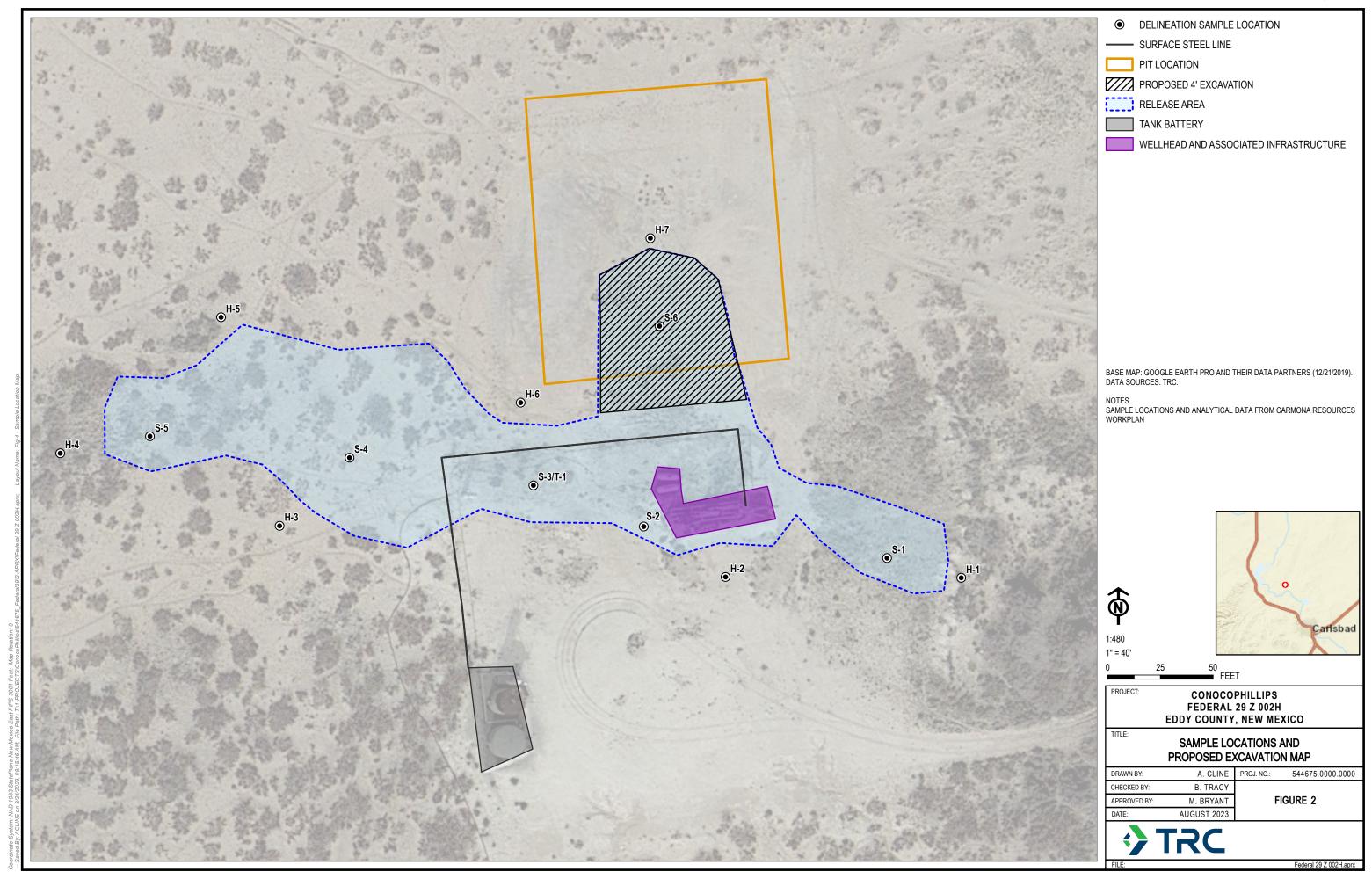
600 W. Illinois Avenue Midland, Texas 79701

Copy4: TRC Environmental Corporation

10 Desta Dr STE 130E Midland, TX 79705



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Federal 29 Z 002H
Table 1 - Summary of Carmona Resources Analytical Data

SAMPLE ID	SAMPLE DEPTH (FT)	SAMPLE DATE	Proposed Soil Status	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Xylenes, Total (mg/Kg)	Total BTEX (mg/Kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10- C28) (mg/Kg)	OII Range Organics (Over C28- C36) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD	-	-		5	-	-	-	50	-	-	-	100	600
Standards						Veritcal Delin	 eation						
S-1 (0-1')	1'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	12.0
S-1 (1.5')	1.5	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	33.0
S-1 (2')	2'	9/20/22	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	60.2
S-2 (0-1')	1'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	12.3
S-2 (1.5')	1.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	14.7
S-2 (2')	2'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	18.6
S-2 (2.5')	2.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	14.0
S-3 (0-1')	1'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	43.1
S-3 (1.5')	1.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	59.7
S-3 (2')	2'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	170
S-3 (2.5')	2.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	815
S-3 (3')	3'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	161
S-3 (3.5')	3.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	1,090
S-3 (4')	4'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	1,560
S-4 (0-1')	1'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	18.3
S-4 (1.5')	1.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	19.6
S-4 (2')	2'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	16.6
S-5 (0-1')	1'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	19.1
S-5 (1.5')	1.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	12.6
S-5 (2')	2'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	16.0
S-6 (0-1')	1'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	3,860
S-6 (1.5')	1.5'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	2,320
S-6 (2')	2'	9/20/22	Excavate	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	773
S-6 (2.5')	2.5'	9/20/22	Excavate	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	1,630

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Federal 29 Z 002H
Table 1 - Summary of Carmona Resources Analytical Data

SAMPLE ID	SAMPLE DEPTH (FT)	SAMPLE DATE	Proposed Soil Status	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Xylenes, Total (mg/Kg)	Total BTEX (mg/Kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10- C28) (mg/Kg)	OII Range Organics (Over C28- C36) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD Standards	-	1		5	1	1	-	50	-	-	-	100	600
S-6 (3')	3'	9/20/22	Excavate	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	1,540
S-6 (3.5')	3.5'	9/20/22	Excavate	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	1,170
S-6 (4')	4'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	291
S-6 (4.5)	4.5	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	293
T-1 (0-1')	1'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	34.0
T-1 (1.5')	1.5'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	63.9
T-1 (2')	2'	12/9/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	344
T-1 (3')	3'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	492
T-1 (4')	4'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	228
T-1 (5')	5'	12/9/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	85.6
T-1 (6')	6'	12/9/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	177
	Horizontal Delineation												
H-1 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	15.3
H-2 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	220
H-3 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	8.83
H-4 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	11.3
H-5 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	9.39
H-6 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	8.84
H-7 (0-0.5')	0.5'	9/20/22	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	99.5	<49.8	99.5	103

Definitions

X Analyte analytical result exceeds NMOCD regulatory guideline.

X Analyte detected above the detection limit at a concentration equal to X.

Analyte not detected at detection limit equal to x.

--

Abbreviations

mg/Kg Milligrams per Kilogram

TPH Total Petroleum Hydrocarbon

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes

NMOCD New Mexico Oil Conservation District



T 432.520.7720 TRCcompanies.com

Appendix A – Release Notification and Corrective Action (Form C-141)

Received by OCD: 10/28/2024 2:29:51 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Tuge /3 0j 1
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

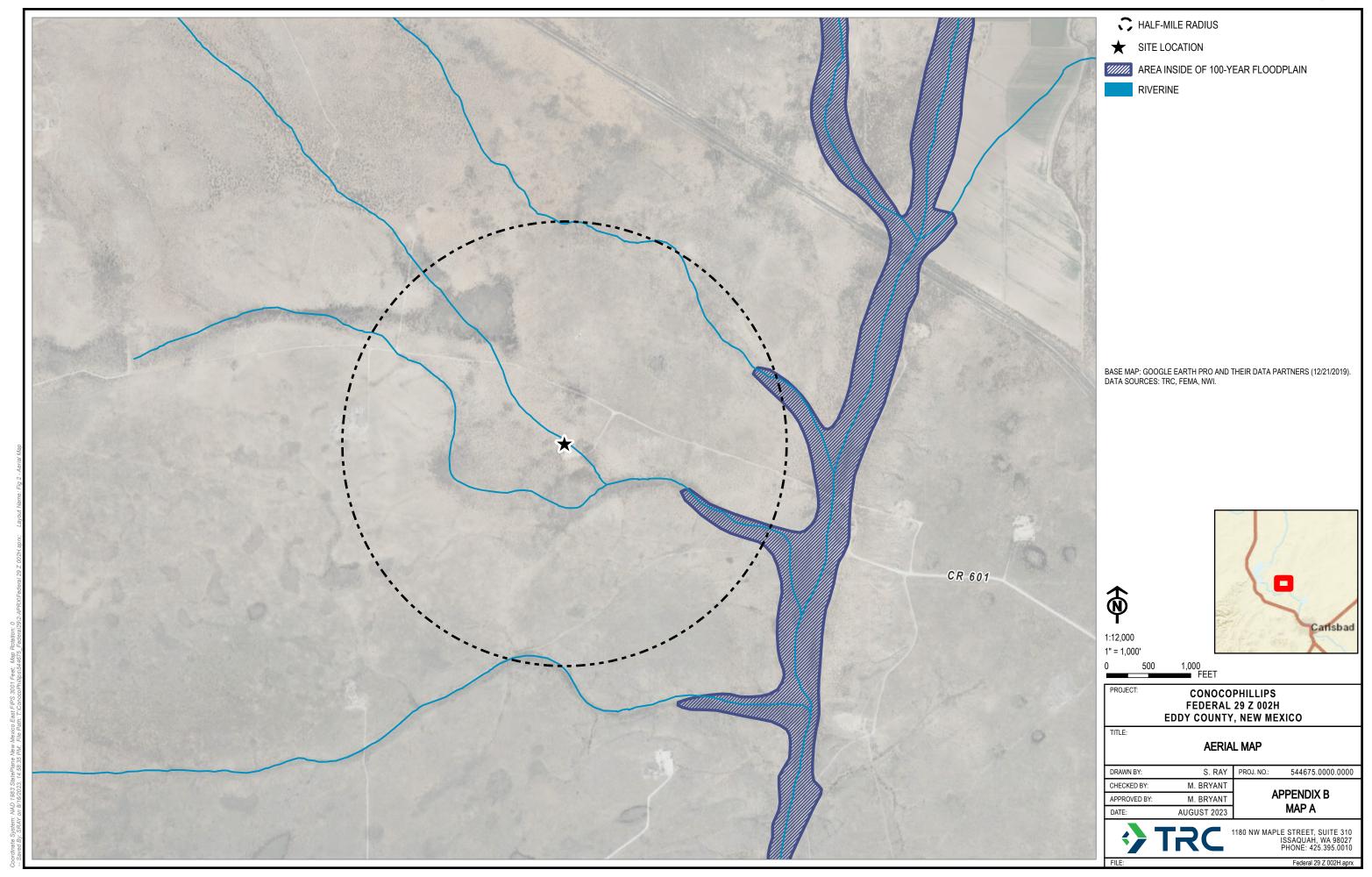
Remediation Plan Checklist: Each of the following items must b	e included in the plan
□ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan tin	ts 12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	using a day and of any properties defended of new disting
Deterral Requests Only: Each of the following tiems must be con-	njirmea as pari of any request for deferrat of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: \(\langle \ks \tavarez \)	Date:
email:	Telephone:
agn a I	
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:



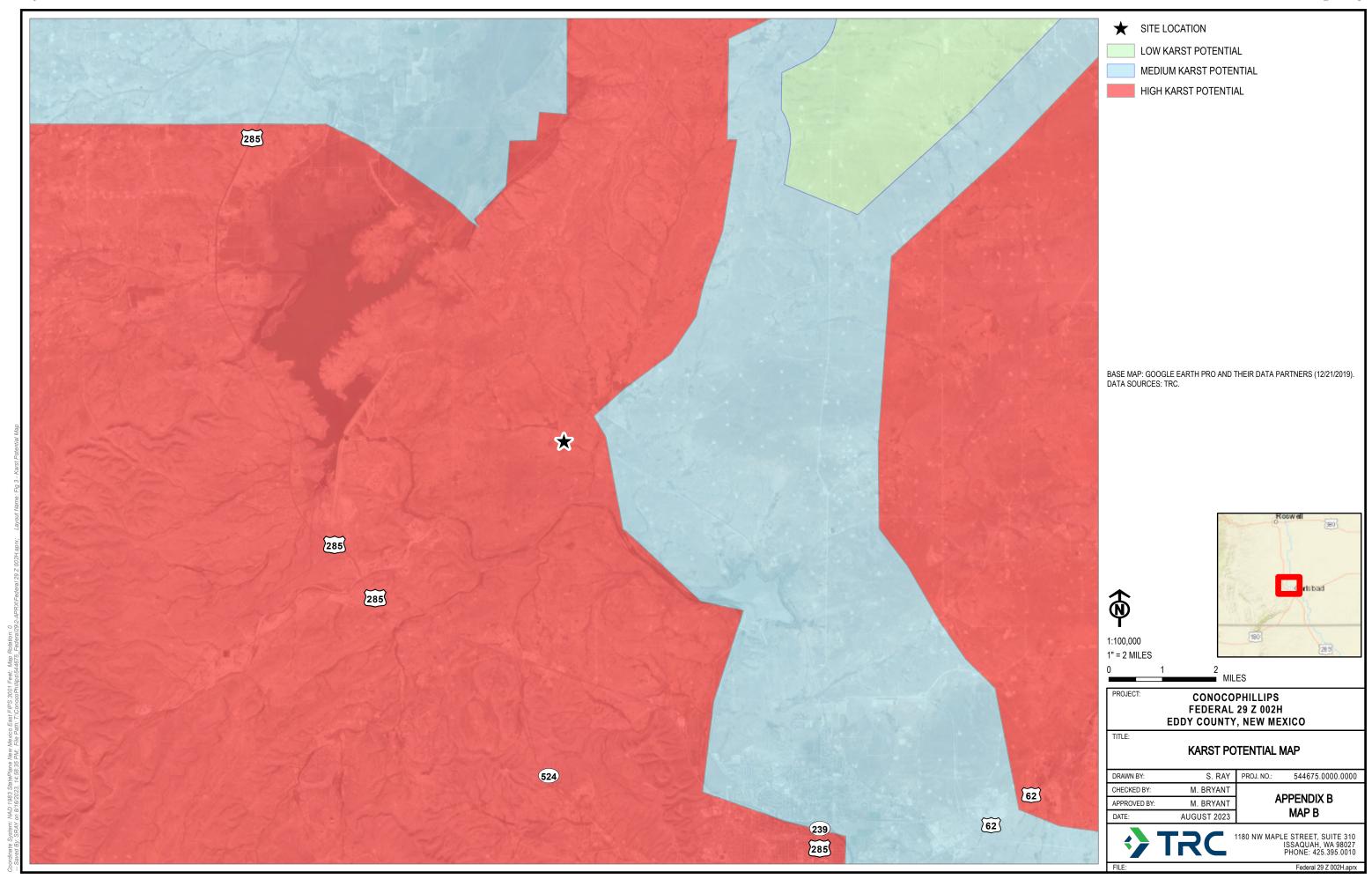
10 Desta Dr., Suite 150E Midland, TX 79705 **T** 432.520.7720 TRCcompanies.com

Appendix B – Site Characterization Summary

Received by OCD: 10/28/2024 2:29:51 PM



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

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Χ	Υ	Distance	-	-	Column
<u>C 00419</u>	С	CUB	ED	3	3	4	19	20S	27E	563904	3601904* 🌕	1391	1813		
RA 03979		RA	ED	1	1	3	21	20S	27E	566306	3602539* 🌍	2309	190		
RA 10049		RA	ED	4	3	1	21	20S	27E	566506	3602744* 🎒	2595	200		
RA 04764		RA	ED		3	1	21	20S	27E	566407	3602845* 🌍	2608	171	150	21
RA 05857		RA	ED	2	2	2	20	20S	27E	566104	3603346* 🌕	2861			
<u>C 01182</u>		С	ED	1	1	4	36	20S	26E	562296	3599260* 🌕	2921	150	135	15
RA 07841		RA	ED		1	1	21	20S	27E	566408	3603251*	2936	200	140	60

Average Depth to Water: 141 feet

> Minimum Depth: 135 feet

Maximum Depth:

150 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 564769.94 Radius: 4000 Northing (Y): 3600814.18

*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.



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USGS Water Resources

Groundwater New Mexico **∨** GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323229104175401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323229104175401 20S.27E.29.441131

Eddy County, New Mexico

Table of data

1953-06-12

Latitude 32°32'29", Longitude 104°17'54" NAD27 Land-surface elevation 3,199 feet above NAVD88

The depth of the well is 125 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Tab-separate	ed data									
Graph of dat	ta_									
Reselect per	<u>riod</u>									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1948-10-06	5	D	62610		3121.75	NGVD29	1	Z		
1948-10-06	5	D	62611		3123.30	NAVD88	1	Z		
1948-10-06	5	D	72019	75.70			1	Z		
1953-03-05	5	D	62610		3118.79	NGVD29	Р	Z		
1953-03-05	5	D	62611		3120.34	NAVD88	Р	Z		
1953-03-05	5	D	72019	78.66			Р	Z		
1953-03-12	2 21:23 UTC	m	62610		3118.42	NGVD29	Р	S	USGS	
1953-03-12	2 21:23 UTC	m	62611		3119.97	NAVD88	Р	S	USGS	
1953-03-12	2 21:23 UTC	m	72019	79.03			Р	S	USGS	
1953-04-03	3	D	62610		3117.75	NGVD29	1	Z		
1953-04-03	3	D	62611		3119.30	NAVD88	1	Z		
1953-04-03	3	D	72019	79.70			1	Z		
1953-06-12	2	D	62610		3115.87	NGVD29	1	Z		

3117.42

NAVD88

1

62611

Date	Time	? Water- level date-	? Parameter code	Water level, feet below land	Water level, feet above specific	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
		time accuracy	Couc	surface	vertical datum			incusurement	ugency	mease
1953-06-12		D	72010	01 F0			1			
1953-06-12 1953-07-02		D	72019 62610	81.58	3115.00	NGVD29	1			
1953-07-02		D	62611		3116.55	NAVD88	1			
1953-07-02 1953-07-02		D	72019	82.45	3110.33	NAVDOO	1			
1953-07-02		D	62610	02.43	3114.58	NGVD29	1			
1953-07-17		D	62611		3116.13	NAVD88	1			
1953-07-17		D	72019	82.87	3110.13	NAVDOO	1			
1953-08-10		D	62610	02.07	3113.91	NGVD29	1			
1953-08-10		D	62611		3115.46	NAVD88	1			
1953-08-10		D	72019	83.54			1			
1953-09-19		D	62610		3114.23	NGVD29	1			
1953-09-19		D	62611		3115.78	NAVD88	1			
1953-09-19		D	72019	83.22			1			
1953-10-31		D	62610		3114.57	NGVD29	1			
1953-10-31		D	62611		3116.12	NAVD88	1	Z		
1953-10-31		D	72019	82.88			1	Z		
1953-11-20		D	62610		3114.65	NGVD29	1			
1953-11-20		D	62611		3116.20	NAVD88	1	Z		
1953-11-20		D	72019	82.80			1	Z		
1953-12-08		D	62610		3114.77	NGVD29	1	Z		
1953-12-08		D	62611		3116.32	NAVD88	1	Z		
1953-12-08		D	72019	82.68			1	Z		
1954-01-18		D	62610		3116.74	NGVD29	1	Z		
1954-01-18		D	62611		3118.29	NAVD88	1	Z		
1954-01-18		D	72019	80.71			1	Z		
1954-03-15		D	62610		3117.63	NGVD29	1	Z		
1954-03-15		D	62611		3119.18	NAVD88	1	Z		
1954-03-15		D	72019	79.82			1	Z		
1954-04-09		D	62610		3116.99	NGVD29	1	Z		
1954-04-09		D	62611		3118.54	NAVD88	1	Z		
1954-04-09		D	72019	80.46			1	Z		
1954-05-28		D	62610		3115.62	NGVD29	1	Z		
1954-05-28		D	62611		3117.17	NAVD88	1	Z		
1954-05-28		D	72019	81.83			1	Z		
1954-06-25		D	62610		3115.07	NGVD29	1	Z		
1954-06-25		D	62611		3116.62	NAVD88	1	Z		
1954-06-25		D	72019	82.38			1	Z		
1954-07-30		D	62610		3113.51	NGVD29	1	Z		
1954-07-30		D	62611		3115.06	NAVD88	1	Z		
1954-07-30		D	72019	83.94			1	Z		
1954-09-28		D	62610		3113.06	NGVD29	1	Z		
1954-09-28		D	62611		3114.61	NAVD88	1	Z		
1954-09-28		D	72019	84.39			1	Z		
1954-10-18		D	62610		3113.87	NGVD29	1	Z		
1954-10-18		D	62611		3115.42	NAVD88	1	Z		
1954-10-18		D	72019	83.58			1	Z		
1954-11-30		D	62610		3116.92	NGVD29	1	Z		
1954-11-30		D	62611		3118.47	NAVD88	1	Z		
1954-11-30		D	72019	80.53			1	Z		
1954-12-31		D	62610		3118.45	NGVD29	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Sour meas
1954-12-31		D	62611		3120.00	NAVD88	1	Z		
.954-12-31		D	72019	79.00			1	Z		
.955-01-28		D	62610		3119.38	NGVD29	1	Z		
955-01-28		D	62611		3120.93	NAVD88	1	Z		
1955-01-28		D	72019	78.07			1	Z		
1955-02-25		D	62610		3119.01	NGVD29	1	Z		
1955-02-25		D	62611		3120.56	NAVD88	1	Z		
1955-02-25		D	72019	78.44			1	Z		
955-03-12		D	62610		3118.42	NGVD29	1	Z		
.955-03-12		D	62611		3119.97	NAVD88	1	Z		
955-03-12		D	72019	79.03			1	Z		
955-03-25		D	62610		3117.95	NGVD29	1	Z		
955-03-25		D	62611		3119.50	NAVD88	1	Z		
955-03-25		D	72019	79.50			1	Z		
955-04-26		D	62610		3117.50	NGVD29	1	Z		
955-04-26		D	62611		3119.05	NAVD88	1	Z		
955-04-26		D	72019	79.95			1	Z		
955-05-24		D	62610		3116.45	NGVD29	1	Z		
955-05-24		D	62611		3118.00	NAVD88	1	Z		
955-05-24		D	72019	81.00			1	Z		
955-06-17		D	62610		3115.42	NGVD29	1	Z		
955-06-17		D	62611		3116.97	NAVD88	1	Z		
955-06-17		D	72019	82.03			1	Z		
955-07-26		D	62610		3113.76	NGVD29	1	Z		
955-07-26		D	62611		3115.31	NAVD88	1	Z		
955-07-26		D	72019	83.69			1	Z		
955-08-30		D	62610		3114.73	NGVD29	1	Z		
955-08-30		D	62611		3116.28	NAVD88	1	Z		
955-08-30		D	72019	82.72			1	Z		
955-09-22		D	62610		3115.31	NGVD29	1	Z		
955-09-22		D	62611		3116.86	NAVD88	1	Z		
955-09-22		D	72019	82.14			1	Z		
955-10-19		D	62610		3117.12	NGVD29	1	Z		
955-10-19		D	62611		3118.67	NAVD88	1	Z		
955-10-19		D	72019	80.33			1	Z		
955-11-23		D	62610		3120.38	NGVD29	1	Z		
955-11-23		D	62611		3121.93	NAVD88	1	Z		
955-11-23		D	72019	77.07			1	Z		
955-12-28		D	62610		3122.85	NGVD29	1	Z		
955-12-28		D	62611		3124.40	NAVD88	1	Z		
955-12-28		D	72019	74.60			1	Z		
956-01-28		D	62610		3123.08	NGVD29	1	Z		
956-01-28		D	62611		3124.63	NAVD88	1	Z		
956-01-28		D	72019	74.37			1	Z		
957-01-24		D	62610		3113.70	NGVD29	Р	Z		
957-01-24		D	62611		3115.25	NAVD88	Р	Z		
957-01-24		D	72019	83.75			Р	Z		

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2022-08-01 11:27:29 EDT

0.33 0.28 nadww02





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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323336104173501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323336104173501 20S.27E.21.31112

Eddy County, New Mexico

Table of data

Latitude 32°33'36", Longitude 104°17'35" NAD27

Land-surface elevation 3,222 feet above NAVD88

The depth of the well is 190 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

iable of auc	<u></u>									
Гаb-separat	ed data									
Graph of da	<u>ita</u>									
Reselect per	<u>riod</u>									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source meas
1961-01-0	3	D	62610		3109.46	NGVD29	1	Z		
1961-01-0	3	D	62611		3111.02	NAVD88	1	Z		
1961-01-0	3	D	72019	110.98			1	Z		
1963-09-0	4	D	62610		3100.29	NGVD29	1	Z		
1963-09-0	4	D	62611		3101.85	NAVD88	1	Z		
1963-09-0	4	D	72019	120.15			1	Z		
1984-02-2	8	D	62610		3108.53	NGVD29	1	Z		
1984-02-2	8	D	62611		3110.09	NAVD88	1	Z		
1984-02-2	8	D	72019	111.91			1	Z		
1989-02-1		D	62610		3110.41	NGVD29	1	Z		
1989-02-1		D	62611		3111.97	NAVD88	1	Z		
1989-02-1		D	72019	110.03			1	Z		
1993-02-1		D	62610		3108.55	NGVD29	1	S		
1993-02-1	0	D	62611		3110.11	NAVD88	1	S		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-02-10		D	72019	111.89			1	S		
1994-02-11		D	62610		3105.41	NGVD29	1	S		
1994-02-11		D	62611		3106.97	NAVD88	1	S		
1994-02-11		D	72019	115.03			1	S		
1999-01-28		D	62610		3105.12	NGVD29	1	S	USGS	
1999-01-28		D	62611		3106.68	NAVD88	1	S	USGS	
1999-01-28		D	72019	115.32			1	S	USGS	
2015-01-12	20:45 UTC	m	62610		3108.31	NGVD29	1	S	NM001	
2015-01-12	20:45 UTC	m	62611		3109.87	NAVD88	1	S	NM001	
2015-01-12	20:45 UTC	m	72019	112.13			1	S	NM001	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	Α	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2022-08-01 11:29:33 EDT

0.28 0.24 nadww02





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

RA 04764

21 20S 27E

566407 3602845*

Driller License: 28 **Driller Company:**

SMITH, A.F.

Driller Name: SMITH, A.F.

02/01/1963

Drill Finish Date:

02/02/1963

Plug Date:

Drill Start Date: Log File Date:

02/21/1963

PCW Rcv Date:

Source:

Shallow

Pump Type:

Estimated Yield:

Casing Size:

Pipe Discharge Size:

Depth Well:

171 feet

Depth Water: 150 feet

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7/29/22 9:52 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

C 01182

1 1 4 36 20S 26E

562296 3599260*

9

Driller License: 30

Driller Company:

BARRON, EMMETT

Driller Name:

BARRON, EMMETT

Drill Finish Date:

04/10/1964 **Plug Date:**

Drill Start Date: Log File Date: 04/06/1964 05/01/1964

7.00

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

150 feet

Depth Water:

135 feet

Water Bearing Stratifications:

Top Bottom Description

140

150 Limestone/Dolomite/Chalk

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7/29/22 9:54 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



10 Desta Dr., Suite 150E Midland, TX 79705 **T** 432.520.7720 TRCcompanies.com

Appendix D – Photographic Documentation

Federal 29 Z 002H

Photographic Documentation

Photograph No. 1

Date: 7/25/2022

Direction: South

Description: Relase area.



Photograph No. 2

Date: 7/25/2022

Direction: West

Description: Release area.



Federal 29 Z 002H

Photographic Documentation

Photograph No. 3

Date: 6/5/2023

Direction: Northwest

Description: Release area.



Photograph No. 4

Date: 6/14/2023

Direction: Northeast

Description: Release area.





Appendix D – NMOCD Correspondence Log

From: Bratcher, Michael, EMNRD

To: Stoffel, Jared; Rodgers, Scott, EMNRD; Hamlet, Robert, EMNRD

Cc: <u>Tavarez, Ike</u>

Subject: RE: [EXTERNAL] Extension Request for Federal 29 Z 002H - nAPP2221331648

Date: Tuesday, October 22, 2024 4:26:44 PM

Attachments: <u>image001.png</u>

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Jared et al.,

Due to the site being in a sensitive area, the release is over two years old with only one extension request during that time period, we are obligated, for consistency, to not approve an extension at this time. OCD appreciates the cooperation COP has shown on this one and would ask for that cooperation to continue. If this one got approved, someone down the line would point it out to us when we deny their request. That is where the consistency comes in to play. Hope you understand.

Thank you,

Mike Bratcher

Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 |
mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Stoffel, Jared <JStoffel@trccompanies.com>

Sent: Tuesday, October 22, 2024 11:07 AM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Tavarez, Ike < Ike. Tavarez@conocophillips.com>

Subject: RE: [EXTERNAL] Extension Request for Federal 29 Z 002H - nAPP2221331648

Scott -

Thank you for taking my phone call this morning. As discussed, we met with you, Mike and Robert regarding this incident on May 21, 2024 to determine a path forward, as this was a non-reportable volume overspray release on top of a historical drilling pit. The conclusion of that meeting was that the OCD will require COP to address the chlorides in the pit area. Following the meeting, a path forward was determined internally and because our borings were going to be advanced beyond 30 feet bgs, we had to submit permits through the NMOSE. As this is on

Federal land, we had to get landowner approval through the sundry notice. After all of the proper approvals and permits were in place, we received our permits on October 4, 2024. We have actively been pushing this project forward since our meeting. Would you please reconsider our extension, as we are assessing the pit as requested in the meeting and have been held up by the front side paperwork between the BLM and NMOSE? I am available at your convenience to discuss – thank you.

Jared Stoffel, P.G. Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Rodgers, Scott, EMNRD < Scott.Rodgers@emnrd.nm.gov>

Sent: Tuesday, October 22, 2024 11:05 AM

To: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>

Cc: Tavarez, Ike < <u>Ike.Tavarez@conocophillips.com</u>>

Subject: RE: [EXTERNAL] Extension Request for Federal 29 Z 002H - nAPP2221331648

This is an External email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Good Morning Jared,

Date of discovery for this release is listed as 7/16/2022. A 90-day extension was approved 6/21/2023 until 9/21/2023. The last submittal was rejected 3/15/2024. COP to date, has not kept up with extension requests and over two years have passed since the date of discovery. The site is situated in a High Karst area. Your current request for an extension is denied. No extensions will be approved for this incident.

Thank you, Scott

Scott Rodgers ● Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113

505.469.1830 | scott.rodgers@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Monday, October 21, 2024 3:05 PM

To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Rodgers, Scott, EMNRD <<u>Scott.Rodgers@emnrd.nm.gov</u>>

Cc: Tavarez, Ike < < <u>Ike. Tavarez@conocophillips.com</u>>

Subject: [EXTERNAL] Extension Request for Federal 29 Z 002H - nAPP2221331648

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mike, Robert, and Scott-

I would like to request a 90-day extension for the assessment at the Federal 29 Z 002H site – we are currently conducting further assessment of the Site as discussed in our meeting and were delayed by BLM and OSE approvals. Please let us know if you would approve an extension for us to finish our additional assessment and submit a revised workplan. Thank you.

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Stoffel, Jared

To: Rodgers, Scott, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Cc: <u>Tavarez, Ike</u>

Subject: RE: [EXTERNAL] FW: Follow Up Request for Alternative Sampling Plan - nAPP2221331648

Date: Thursday, May 16, 2024 4:33:00 PM

Attachments: <u>image001.png</u>

Scott – thank you very much. I have sent you all a Teams invite for 1:30 MST (2:30 CST) next Tuesday. Please let me know if anyone didn't receive it. Have a good afternoon!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Thursday, May 16, 2024 4:08 PM

To: Stoffel, Jared <JStoffel@trccompanies.com>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Tavarez, Ike < Ike. Tavarez@conocophillips.com>

Subject: RE: [EXTERNAL] FW: Follow Up Request for Alternative Sampling Plan - nAPP2221331648

This is an External email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Good Afternoon Jared,

We would like to propose a meeting time for Tuesday 5/21 @ 1:30.

Thank you,

Scott

Scott Rodgers ● Environmental Specialist – Adv.

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Thursday, April 25, 2024 2:11 PM

To: Rodgers, Scott, EMNRD <<u>Scott.Rodgers@emnrd.nm.gov</u>>; Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>

Cc: Tavarez, Ike < !ke.Tavarez@conocophillips.com>

Subject: [EXTERNAL] FW: Follow Up Request for Alternative Sampling Plan - nAPP2221331648

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

I would like to propose a meeting between the NMOCD (Mike Bratcher, Robert Hamlet, and Scott Rodgers), COP (Ike Tavarez) and TRC (Jared Stoffel) to discuss the Federal 29 Z 002H release site, NMOCD Reference number NAPP2221331648. The items of discussion center around the closed drilling pit adjacent to the release point. A brief summary of the Release is below:

- The release is a non-reportable volume (1.5 barrels of crude oil).
- There was no produced water released, only crude oil.
- The release mechanism was a packing blowout which resulted in an overspray of a large area, approximately 10,800 square feet.
- COP submitted a C-141 to the NMOCD. The site was assessed, and work plan submitted to the NMOCD. Upon further review, the release was noted to be of non-reportable volume, COP attempted to retract C-141 from the system. The NMOCD declined and discussed several options to COP (variances) which would provide a path forward for remediation but prevent additional excavation driven only by chlorides present from the closed reserve pit. The meeting occurred on August 2, 2023 between the OCD (Mike Bratcher and Robert Hamlet), COP (Ike Tavarez), and TRC (Jared Stoffel). The OCD recommended the submission of a workplan with the proposed variance through the NMOCD portal.
- TPH and BTEX constituents were below the most stringent regulatory guidelines in each submitted soil sample.
- Chloride concentrations exceeded only in areas S-3 and S-6 (the pit area). S-3 appeared anomalous, so trench TT-1 was installed in the same location, and the chloride exceedances were not duplicated. S-6 appears in the area of the pit which is not well vegetated. Field screen results indicate elevated chloride concentrations throughout the pit footprint. S-6 was delineated vertically to below 600 mg/kg at 4 feet bgs.

Site characteristics:

• Depth to groundwater is unknown, but the nearest well (approximately 0.70 miles

southeast) indicates groundwater at approximately 83 feet bgs.

- 'High Karst' area
- Within 300 feet of a 'riverine' identified in the national wetlands inventory.

Discussion points:

- While we understand that the closure criteria modifiers of high karst and near a riverine dictate the most stringent regulatory guidelines, the chlorides are not related to the Release as evident by material released (crude oil only), release mechanism (overspray of the surface only), and release volume (1.5 barrels over an area of 10,800 square feet). There are no documented exceedances at the surface or any other interval of TPH or Benzene related to crude oil. Elevated chlorides appear isolated to the approximate drilling pit footprint.
- COP met with OCD in August of 2023, at which time the OCD indicated a variance may be utilized to avoid digging up the entirety of the pit. COP proposed to excavate 1,050 cubic yards (the entire spill footprint in the area represented by sample point S-6 to 4 feet bgs) and omit confirmation sampling which likely will drive excavation laterally beyond the spill footprint to the boundaries of the pit area. The proposed 4 feet greatly exceeded the depth of hydrocarbon impact in this area and will allow for better re-vegetation of this section of the former pit area. The NMOCD approved the excavation but denied the sampling variance which would omit all confirmation samples.
- A follow up email to the NMOCD requesting a smaller variance in which the requisite confirmation samples be collected and analyzed for TPH and BTEX only was verbally denied by the NMOCD.
- COP would like to propose to excavate to 4 feet bgs within the spill footprint, which would remove the chloride concentrations documented in the investigation phase of the project and upon backfill with imported clean fill will provide a good root zone for reclamation. Sidewall samples would be collected and analyzed for TPH and BTEX. Once the analytical results from the sidewalls indicate all hydrocarbon affected soil has been removed, COP proposes installation of a polyvinyl or geosynthetic liner at four feet bgs through the extent of the excavation to prevent rainwater from mobilizing any additional chloride concentrations at depth related to the pit from mobilizing. Floor confirmation samples at the base of the excavation would not be collected due to the installation of the liner.

Please let us know when would be agreeable for a meeting and I would be happy to send out a Teams meeting (unless you have a different preferred format for the meeting). Thank you very much.

Jared Stoffel, P.G. Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Stoffel, Jared

Sent: Monday, April 8, 2024 11:56 AM **To:** scott.rodgers@emnrd.nm.gov

Cc: mike.bratcher@state.nm.us; Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov >;

Tavarez, Ike < lke.Tavarez@conocophillips.com>

Subject: FW: Follow Up Request for Alternative Sampling Plan - nAPP2221331648

Scott,

Thank you for discussing the alterative sampling plan with me last week. I wanted to follow up that conversation with a request for a meeting with you, Mike, and Robert to discuss how to move forward with the Site. Our last meeting was with Mike and Robert, and the recommended variance request route did not get approved. We wanted to see what our other options are, as the release footprint overlapped with the adjacent pit. Please let me know what timing would be convenient for you all and I'd like to submit a Teams meeting for us all to discuss, if possible. I appreciate your help on this – thanks!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Stoffel, Jared

Sent: Thursday, March 7, 2024 3:40 PM

To: scott.rodgers@emnrd.nm.gov

Cc: Tavarez, Ike < Ike. Tavarez@conocophillips.com >; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: Follow Up Request for Alternative Sampling Plan - nAPP2221331648

Scott,

Thank you for discussing the Site with me again yesterday. I've attached the conditional approval response for project reference. In discussing the next step forward for the Site, we were curious if you would consider a different alternative sampling plan.

COP would like to follow up with a reduced variance request in which confirmation soil samples be collected on the 200 square foot basis outlined in NMAC 19.15.29. However, COP would like to propose that the soil samples be collected and analyzed for TPH and BTEX only for this hydrocarbon only overspray release. As no produced water was released, COP respectfully requests omission of chlorides as a constituent of concern as the elevated chlorides are associated with the adjacent pit and not with the Release. COP will excavate the upper four feet in the footprint as proposed in the workplan to remove all previously documented elevated chloride concentrations above the most stringent NMOCD standard. The confirmation samples analyzed for TPH and BTEX would document the removal of the hydrocarbons associated with the Release to confirm the protection of freshwater, public health, and the environment from the hydrocarbons released.

Please let us know if this route would be acceptable to the NMOCD. I am available at your convenience to discuss if this would be helpful. Thank you very much for your consideration.

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: OCDOnline@state.nm.us

To: Stoffel, Jared

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 298904

Date: Tuesday, March 5, 2024 11:56:04 AM

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

To whom it may concern (c/o Jared Stoffel for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2221331648, with the following conditions:

• This remediation plan is conditionally approved. The variance request to forgo confirmation sampling is denied. An alternative sampling plan would require a proposed sampling grid map and sampling statistics showing equal or better protection of fresh water, public health and the environment. The demonstration should show that depth to groundwater and karst are not an issue. Also, that it's not within a 100-year floodplain.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Scott Rodgers Environmental Specialist - A 505-469-1830 scott.rodgers@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

From: Stoffel, Jared

To: <u>Hamlet, Robert, EMNRD</u>

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Tavarez, Ike</u>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Date: Wednesday, January 3, 2024 8:34:00 AM

Attachments: <u>image001.png</u>

Thank you for the clarification, Robert – we won't resubmit in the future. Have a good morning!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Wednesday, January 3, 2024 8:20 AM **To:** Stoffel, Jared <JStoffel@trccompanies.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Tavarez, Ike

<lke.Tavarez@conocophillips.com>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Jared,

The report only needs to be uploaded once. Once the remediation plan is submitted, the report goes into a cue and is assigned and reviewed in the order it is received. I can't give you an exact date on when it will be reviewed. The OCD is reviewing reports as quickly as possible. Once the report is reviewed, you will receive a notification.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Tuesday, January 2, 2024 1:35 PM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Tavarez, Ike

<lke.Tavarez@conocophillips.com>

Subject: FW: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Robert -

I wanted to follow up with you on the workplan for the Federal 29 Z 002H (NAPP2221331648) and let you know that we re-submitted today through the portal (attached is the PO and receipt). Please let me know if this was the correct way to address a workplan that has been in the portal for longer than 60 days, and/or if you have any questions or concerns. Thank you very much!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Stoffel, Jared < <u>IStoffel@trccompanies.com</u>>

Sent: Tuesday, November 28, 2023 4:36 PM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>> **Cc:** Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Tavarez, Ike

<lke.Tavarez@conocophillips.com>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Robert -

I wanted to follow up with you on the workplan submitted to the NMOCD portal on 9/20/23 and re-submit to you since it has been more than 60 days since submittal. Please let me know if you have any questions or concerns on this one, and if I need to do anything further on the portal side after 60 days. Thanks!

Jared Stoffel, P.G.Project Manager

505 E Huntland Dr STE 250 Austin, TX 78752



F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Sent: Wednesday, July 26, 2023 8:25 AM

To: Stoffel, Jared <<u>JStoffel@trccompanies.com</u>>

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Tavarez, Ike

<lke.Tavarez@conocophillips.com>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Jared,

You might set up a Teams Call for Wednesday August 2nd at 10:00 a.m. Mountain Time if that works for everyone. Invite Mike Bratcher and myself to the meeting and we can have a quick discussion on the site. Thanks

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Tuesday, July 25, 2023 3:42 PM

To: Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>; Tavarez, Ike <<u>Ike.Tavarez@conocophillips.com</u>>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Robert, Jocelyn, and Mike,

During the set-up to begin the remedial action plan at the site, TRC performed historical review and site reconnaissance. These activities uncovered the elevated chloride concentrations to be addressed in the approved remediation workplan are related to (and seemingly limited to) the former reserve pit at the Site. Additionally, the review indicated that the release was a non-reportable volume of crude oil (1.5 bbls of crude oil – no produced water reported). We would like to discuss the next steps for this remediation, as the plan as proposed will likely result in the excavation of the entirety of a reserve pit rather than as a remedial action to remove soil affected from the release of crude oil. Would you have time to discuss this issue with us? Thank you very much!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Sent: Thursday, July 13, 2023 2:27 PM

To: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Jared,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon ● Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Thursday, July 13, 2023 9:50 AM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Tavarez, Ike

<<u>lke.Tavarez@conocophillips.com</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

Robert – we will begin remediation at the Federal 29 Z 002H (NAPP2221331648) on Monday, July 17th, 2023. Final confirmation soil samples will be collected as the excavation progresses. The expected duration of the project is 1 week. Please let me know if you have any questions or concerns. Thank you very much!

Jared Stoffel, P.G.Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752

F: 512 329 8750 | **C**: 432 238 3003

<u>LinkedIn | Twitter | Blog | TRCcompanies.com</u>

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >
Sent: Wednesday, June 21, 2023 2:26 PM
To: Stoffel, Jared < <u>JStoffel@trccompanies.com</u> >
Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Tavarez, Ike
< <u>lke.Tavarez@conocophillips.com</u> >; Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u> >
Subject: [EXTERNAL] (Extension Approval) - NAPP2221331648 FEDERAL 29 Z 002H

RE: Incident #NAPP2221331648

Jared,

Your request for an extension to **September 21st, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Stoffel, Jared < <u>JStoffel@trccompanies.com</u>>

Sent: Wednesday, June 21, 2023 10:56 AM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Tavarez, Ike

<lke.Tavarez@conocophillips.com>

Subject: [EXTERNAL] Extension Request - Federal 29 Z 002H

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Hamlet,

TRC, on behalf of COP, would like to request a 90-day extension for the Federal 29 Z 002H remediation project (NAPP2221331648). We are scheduled to start the remedial excavation in early to mid-July, and the 90 days would allow us time following remediation to complete the report prior to the deadline. Please let us know if this is acceptable to you – thank you very much!

Jared Stoffel, P.G. Project Manager



505 E Huntland Dr STE 250 Austin, TX 78752 F: 512 329 8750 | C: 432 238 3003

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Appendix E – Field Boring Logs

A TAC

PAGE	OF 1	

	116			L	OG OF	SOIL BOR	ING				
PROJEC	T NAME:	Federal Z	Delineati	on		SOIL BORING ID:	SB-NW	SALAN TO			
PROJEC	T NUMBER:	544675				LOCATION:		SHEET	1	OF	1
LOGGED	BY:	Rebecca P	ons			32.54324, -104.	31055	SURFACE	ELEV.:	THE PERSON NAMED IN	
PROJEC	T LOCATION:	Eddy Cou	nty, NM			N:	E:	DATE STA	RTED: 1()-09-2	4
	BY: Scarbo			DRILLER NA	ME: Lane	The state of the s		DATE COM			-
NO.	TYPE % BL	OWS PID	DEPTH		VISUAL CL	ASSIFICATION AND O	BSERVATIONS		cc	MMENT	
	8/3/15	š	Surface	Suly Loam	Sano	, Poor	7	rauel	вт		
	85/5			Cauchi					5m		
	75/5	a	5.0	Sancty	i Clar	for over g	Jude Lu	eul k	eal/B	in,	CL
	isk		7.5	Vay,	Sund	, Cous	e clay.		NL K	reel	
	Mayo		15	Ucey ,	Bund	Poor of	rade grai		C1-74		
			1 .0=								
			1 .5								
	90/10		20.0	3064	Reel	Sand -	(ino -merli	un t	Zeal-	m	1.1
RILLING	METHOD]		₹	VATER LEVEL OBSERV	ATIONS		-71	
RILL RIG					FIRST OCC		DEPTH TO W	ATER	DEPTH TO	о вотт	ГОМ
BORING D	IAMETER										
Tre fr.	uca (Poro	10	14/94	<u>′</u>	CHECKED	- Harter				7.15
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PROJECT NAME: Federal Z]	Delineation	SOIL BORING	ID: SB-NE		
PROJECT NUMBER: 544675		LOCATION:		SHEET 1	of 1
LOGGED BY: Rebecca P		32.54323, -	104.31024	SURFACE ELEV	:
PROJECT LOCATION: Eddy Cou		N:	E:	DATE STARTED	10-09-24
DRILLED BY: Scarborough	DRILLER NAM	ME: Lane		DATE COMPLET	ED: 10-09-24
	DEPTH	VISUAL CLASSIFICATION A	ND OBSERVATIONS		COMMENT
49/2 5/30		fuñe gr	ain w/se	ilt Red	21B-P
25/25	7.5	grade grave			- BC
100	15 Red Je	enel		M2	
	1 .01				
	1 .5				
PRILLING METHOD	20.0 = 30 pt 0	Poor Strade y	gravel Clay	-Red Sarci	Ch
		FIRST OCCURRENCE:	WATER LEVEL OB	SERVATIONS	
RILL RIG DRING DIAMETER		DATE T	TIME DEPTH	TO WATER DEP	ТН ТО ВОТТОМ
Ruberson Cons	10/14/24	CHECKE		DATE	

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PROJECT NAME: Fede	ral Z Delineation	LOG OF SOIL	V V (
PROJECT NUMBER: 5446		SOIL BOR	99 94	
	cca Pons	LOCATION	1 :	SHEET 1 OF 1
Rebe			08, -104.31029	SURFACE ELEV.:
PROJECT LOCATION: Eddy DRILLED BY: Scarborough		R NAME: Lane	E:	DATE STARTED: 10-09-24
NO. TYPE % BLOWS	PID DEPTH			DATE COMPLETED: 10-09-24
40/60	Surface Aug	visual classification of all suit L	on and observations Liade Collic Oam	hu GWIGP Ya.
\$10% D	3.0 Sar	ly - Poor g	rade Fra	ul awlorga
	5.0 Slex	rdy - Poor	- Luace o	Liand Red
	7.5			
493	10.0 Poor	ly graded	guard - 5	every Jan-fe
20/30	15 Recl	Clay- Sur	nd-Grave	lly C1-Real
	1 .0			
	1 .5			
100	20.0 - 30 ft	- Red Clay		m2
SILLING METHOD		FIRST OCCURRENCE:	WATER LEVEL OF	SERVATIONS
ILL RIG		DATE	TIME DEPTH	TO WATER DEPTH TO BOTTOM
RING DIAMETER				
Section Particulation				
Juhense Con	0 10/14/2	-4		
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	Rebe			LOCATION:			
ROJECT LO	reber			LOCATION.		SHEET	1 OF 1
		cca Pons	1	32.54310, -104	.31053	SURFAC	E ELEV.:
	CATION: Eddy	County, NM	[N:	E:	DATE ST	TARTED: 10-09-24
	Scarborough		DRILLER NAME: Lan	e		DATE CO	OMPLETED: 10-09-24
NO. TYPE	% BLOWS	PID DEPTH		CLASSIFICATION AND C	BSERVATIONS		COMMENT
	30/20/10	Surface	Loanny - Pou	r Strade	Grand W.	Sand	Gen 16P Penk Lha
	40/10	5.0	Sandy w/				Red Sm/s
		7.5	Poorly Gra	der Gran	el w/Jan	el	
	90/0	10.0	Clay-Sar	el-Ga	uelaj		Rued Ch
	9%	15	Leavelly C	Lay - Poe	n Stade		Real
		1.0					
		1 .5					
ILLING MET	100	20.0	Sandy - Jur	u grade	13vjt Clau	1	Red ML
LLING MET	нов		FIRST OC	CCURRENCE:	WATER LEVEL OBSERVA	ATIONS	
ILL RIG			DA		DEPTH TO WA	ATER	DEPTH TO BOTTOM
RING DIAME	TER						
Rupu	u Por	20 /	0-14.24				

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LOG OF SOIL BORING

PROJECT NAME:	Federal Z Delineation	SOIL BORING	SOIL BORING ID: SB-S-Lateral				
PROJECT NUMBER	3: 544675	LOCATION:		SHEET 1 OF 1			
LOGGED BY:	Rebecca Pons	32.54299,	-104.31033	SURFACE ELEV.:			
PROJECT LOCATION	^{DN:} Eddy County, NM	N:	E:	DATE STARTED: 10-09-24			
DRILLED BY: Scar	borough DRILLER NAI	ME: Lane		DATE COMPLETED: 10-09-24			

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
		30			Surface	Branchy Loans pooring Granded Grand W/ Siley	GMIGC
					3 H	Sandy- Povily graded grant	Gmlon Jan-Real
					5.0 •	14	ıı
					7.5		
		106	too	2.	10.0	Gracely Clay	ML
					15		
					1 .0		
					1 .5 •		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

FIRST OCCURREN	NCE:		
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

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PROJE	ECT NAM	ΛE:	Fede	ral Z	Delineati	on	SOIL BORING ID:	SB-E-Lateral			
PROJE	CT NUM	MBEF	R: 5446	675	*		LOCATION:		SHEET	1 OF	1
LOGGE	ED BY:		Reb	ecca P	ons		32.54311, -104.	31007	SURFAC	E ELEV.:	
PROJE	CT LOC	CATIC	N: Edd	y Cou	inty, NM		N:	E:	DATE ST	TARTED: 10-10	-24
			boroug			DRILLER NAME: Lane			DATE CO	OMPLETED: 10-	-10-24
NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL C	CLASSIFICATION AND O	BSERVATIONS		COMME	NT
		4		1	C C	1 . 1	8 - 8 - 24 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -			0:-	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
		95/3			Surface	Silty Sandy	Yan-Kery Vine
					3250		
					5.0	Sandy - Pourly grade gravel	&C
					7.5		
		95g		\$1	10.0	Cluy, Sand, Pourly Shadad Shaul	Rud-CL
		95/3			15	Sand - Sult	Real -ML
					4.0		
					11.51	-	
					₹0.0		-

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

FIRST OCCURREN	ICE:		
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LOG OF SOIL BORING

PROJECT NAME: Federal Z Delineation		SOIL	SOIL BORING ID: SB-N-Lateral					
PROJECT NUMBER: 544675		LOCA	TION:		SHEET	1	OF	1
LOGGED BY: Rebecca Pons		32.	32.54352, -104.31027		SURFACE ELEV.:			
PROJECT LOCATION: Eddy County, NM		N:		E:	DATE STARTED: 10-10-24		-24	
DRILLED BY: Scarborough DRILLER NAME:		RILLER NAME: Lane			DATE COM	IPLETE): 10-	10-24

NO.	TYPE % BLOWS	PID DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	935	Surface	Tilby saver - Reliegh Gracel Gracel	Fan Em
		2.51		
200	95/5	5.0	Tutay Sund - Rough Shavel	Jun &m
		7.5		
		10.0	Sandy Suit - Frine grain	ML Fan Red
	29	15	Gravely Clay	Ren
		1 .0		
		1 .5		
		20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

FIRST OCCURREN	ICE:		
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PROJECT NAME:	Federal Z Deli	neation	SOIL BORING ID:	SB-Background 1	
PROJECT NUMBER:	544675	100	LOCATION:		SHEET 1 OF 1
LOGGED BY:	Rebecca Pons		32.54324, -104.	31069	SURFACE ELEV.:
PROJECT LOCATION	: Eddy County,	NM	N:	E:	DATE STARTED: 10-10-24
DRILLED BY: Scarb	orough	DRILLER NAME: I	ane		DATE COMPLETED: 10-10-24
NO. TYPE % E	BLOWS PID DEP		JAL CLASSIFICATION AND C		COMMENT
95/5 100 100 95/5		25. Pour Sh.	rain same	a guall just grant	Quant GW/6P OW-6-p Qan. Red Red
DRILLING METHOD		6.0		WATER LEVEL OBSER	VATIONS
DRILL RIG		FIRS	ST OCCURRENCE: DATE TIM	E DEPTH TO V	WATER DEPTH TO BOTTOM
DRILL RIG			DATE TIM	DEI III 10 (DECITION
BORING DIAMETER					
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LOG OF SOIL BORING

PROJECT NAME:	Federal Z Delineation	SOIL BOR	ING ID: SBW-Later	al	
PROJECT NUMBER: 544675		LOCATION	l:	SHEET 1 OF 1	
LOGGED BY:	OGGED BY: Rebecca Pons		24, -104.31069	SURFACE ELEV.:	
PROJECT LOCATION: Eddy County, NM		N:	E:	DATE STARTED: 10-10-24	
Supplemental states in the second states of the sec		RILLER NAME: Lane		DATE COMPLETED: 10-10-24	

NO.	TYPE % BLOWS PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	195/5 100	Surface Que	Poorly Gradel Shavel W/sult nay	Yen
	45	5.0. C U	I Poorry Graded Girane w/	Idu /Real
	4s _{lg} ,	10.0	yey grand w/ Sand	Red/Bueun
	957	15 2 an	ay Suite W clay	Red
		1.61		
		20,8		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

IRST OCCURREN	ICE:		
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PROJECT NAME:	PROJECT NAME: Federal Z Delineation			SOIL BORING ID: SB-Background 2			
PROJECT NUMBER: 544675		LOCATION:		SHEET 1 OF 1			
LOGGED BY:	GGED BY: Rebecca Pons		32.54343, -104.30981		SURFACE ELEV.:		
PROJECT LOCATION: Eddy County, NM			N:	E:	DATE STARTED: 10-9-24		
DRILLED BY: Scarborough DRILLER NAME: Lane			e	7:	DATE COMPLETED: 10-9-24		

NO.	TYPE % BLOWS PIE	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	13/02	Surface	SM-66. Prophy & resolved blaves with Sit / Cray 3 Sand	Reddish- Yan
	85/ ₇₀	1-30T	Sixty sand Poorly Gradel Graves	
		5.0	l l	
		7.5		
	85/0/5	10.0	51lt. Sance Doorly Gracell	ι (
	90	15	POORY GROWN GRAVEL W/ Silt-Soul	
	35 Yeo	20	Silt, Clay we Pookly graved gravel	Red-BROWN
	Ao _k	2,5	Dioning Bradies Graves with Sand	
		30.0	Sicilty Sand	(c

			 -	_
DRILLI	NG MI	ETHOD		
DRILL	RIG			
BORIN	G DIA	METER		

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	A Comment		LUG	OF SOIL BOK	IIIG			
PROJECT N	IAME:	UZ De	kusaston 1	SOIL BORING ID:	IB-Cente	0		
PROJECT N	THE STATE OF THE S	54410	3	LOCATION:	- CAMC	SHEET	1 OF	2
LOGGED B	r: R	cheese	Dense	32.5431	9104.21031	SURFACE		
PROJECT L		ENNY C	Odentil 181	n N:	E:	DATE STAF	RTED: 10-9.	-24
DRILLED BY	: Lang	- Assay	DRILLER NAME:	SCAR DORPU	l.h	DATE COM		224
NO. TYP			VIS	SUAL CLASSIFICATION AND O		- T	COMMENT	
	95	-0-	wew a	worry graded	Graves W15.	unel	9an Sil	dee
		1 +		(/				0
		1 1 1						
		2.5	1		100 1010			
	90	1-364	well bo	only Gracue	u brave u	Market		
	1	+						
		5.0						
		+			-1			
		7.5						
		+						
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	h.	12	71	1.01			7 . 016	
	23/10	10.0	succe or (chay wid	gracie		Real Clar	1
		12.5						
		12.0						
				91				
	1 1							
		15.0						
		1 1 1						
		1 1 +						
		17.5						
		1 1 +						
	10/90	20.0	ml Sandy	Sult W/	Grusely Clar	1 de	eclelesh Fi	Deen
DRILLING M			500		WATER LEVEL OBSERV			
DRILL RIG	- SPA0	N)	- FIRS	ST OCCURRENCE: DATE TIME	LA DEPTH TO W	ATER	DEPTH TO BOT	ТОМ
000000								
BORING DIA	METER							
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PROJECT NAME: Treel	2 Delingutto	NO SOIL BORING ID:	
PROJECT NUMBER: 5	444.75	LOCATION:	SHEET 1 OF 2
LOGGED BY: Dak	una Ponsa		SURFACE ELEV.:
PROJECT LOCATION!	cley Counti	N: E:	DATE STARTED: 10-9-24
DRILLED BY: Lane	DRILLER N	AME: W/ Slakbonery	DATE COMPLETED: W-9-20
NO. TYPE % BLOWS	PID DEPTH	VISUAL CLASSIFICATION AND OBSERVA	
90	35 Gange 30 Clay 7.5	tup Clay werth	Fives Real-Brown
DRILLING METHOD DRILL RIG	20.0	FIRST OCCURRENCE: DATE TIME	LEVEL OBSERVATIONS DEPTH TO WATER DEPTH TO BOTTOM
BORING DIAMETER			
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Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

QUESTIONS

Action 396431

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	396431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2221331648	
Incident Name	NAPP2221331648 FEDERAL 29 Z 002H @ 0	
Incident Type	Oil Release	
Incident Status	Remediation Plan Approved	
Incident Facility	[fAPP2203544127] Federal Z RB	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	FEDERAL 29 Z 002H	
Date Release Discovered	07/16/2022	
Surface Owner	Federal	

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

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.			
Produced Water Released (bbls) Details	Not answered.			
Is the concentration of chloride in the produced water >10,000 mg/l	No			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.			

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

QUESTIONS, Page 2

Action 396431

QUESTI	ONS (continued)
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	packing blow out - release on and off pad
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 10/28/2024

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 396431

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	396431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
Requesting a remediation	plan approval with this submission	Yes	
Attach a comprehensive report der	monstrating the lateral and vertical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertica	l extents of contamination been fully delineated	Yes	
Was this release entirely co	ontained within a lined containment area	No	
Soil Contamination Sampling	: (Provide the highest observable value for each, in milli	igrams per kilograms.)	
Chloride	(EPA 300.0 or SM4500 CI B)	10300	
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	118	
GRO+DRO	(EPA SW-846 Method 8015M)	118	
BTEX	(EPA SW-846 Method 8021B or 8260B)	0	
Benzene	(EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.			
On what estimated date will the remediation commence		12/01/2024	
On what date will (or did) th	ne final sampling or liner inspection occur	12/04/2024	
On what date will (or was) the remediation complete(d)		12/20/2024	
What is the estimated surfa	ce area (in square feet) that will be reclaimed	37500	
What is the estimated volume (in cubic yards) that will be reclaimed		5500	
What is the estimated surface area (in square feet) that will be remediated		37500	
What is the estimated volur	ne (in cubic yards) that will be remediated	5500	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 4

Action 396431

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	396431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

Name: Jared Stoffel
Title: Scientist
Email: jstoffel@trccompanies.com
Date: 10/28/2024

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 396431

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	396431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

QUESTIONS, Page 6

[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

Action 396431

 QUESTIONS (continued)

 Operator:
 COG OPERATING LLC
 OGRID:
 229137

 600 W Illinois Ave
 Action Number:
 396431

 Midland, TX 79701
 Action Type:

QUESTIONS

Sampling Event Information

Last sampling notification (C-141N) recorded

{Unavailable.}

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission No

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 396431

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	396431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is approved with the following conditions. 1.OCD will require that the former pit area to be excavated to the maximum extent practicable, installation of a barrier may then be considered. 2. Confirmation sidewall and floor samples will be required. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2.	1/27/2025