

February 10, 2023

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

Re: Liner Inspection and Closure Request ConocoPhillips (Heritage Concho) Lusk Deep Unit A #024H Release Unit Letter D, Section 19, Township 19 South, Range 32 East Lea County, New Mexico Incident ID# nJXK1613027690

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to evaluate a historic release that occurred from a corroded line at the Lusk Deep Unit A #024H (30-025-40863) Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 19, Township 19 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred in the vicinity of coordinates 32.652690° -103.812531°, as shown on Figures 1 through 3.

BACKGROUND

According to information provided, the release was caused by a corroded 4" steel waterline, and the release reportedly occurred within the lined facility on April 29, 2016. The release was approximately 15 barrels (bbls) of produced water, of which 12 bbls of produced water were recovered. The New Mexico Oil Conservation Division (NMOCD) received the Initial C-141 on May 9, 2016, and subsequently assigned the release the Incident ID nJXK1613027690 (1RP-4270).

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively. Only a Final C-141 dated May 20, 2016 was previously submitted to NMOCD to satisfy the requirements of the ACO-R.

The Final C-141 was rejected by NMOCD on November 9, 2022, with the following comments:

- No documentation provided showing conditions of approval met. Per conditions of approval on initial C-141 dated 5/9/2016, "Discrete samples only. Delineate and remediate per NMOCD guidelines..."
- Submit work plan or closure report to OCD by February 10, 2023.

Copies of the Initial C-141 and the rejected Final C-141 are included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential. An NMOSE stream body is located approximately 400 feet from the lateral extents of the release, outside of the discretionary limits.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. There is one (1) water well within 1,600 meters of the site with a depth to groundwater of 60 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Liner Inspection and Closure Report February 10, 2023

REGULATORY FRAMEWORK

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

Based on the relative absence of water wells within ½ mile of the Site, the strictest Table I closure criteria will be applied to this release incident in lieu of drilling a boring for groundwater depth verification.

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

SITE INSPECTION SUMMARY

At the request of ConocoPhillips, on February 1, 2023, Tetra Tech personnel conducted a visual Site inspection at the former release area to evaluate current conditions at the Site and collect photographs of the reported release area and surrounding vicinity. Information provided by ConocoPhillips personnel prior to the Site inspection and historical aerial imagery was reviewed for indications of the release area footprint.

The formerly impacted area was identified from the description in the initial C-141 and correspondence with ConocoPhillips. No evidence of staining was noted on the surrounding caliche pad outside the berm walls. Vegetation was present in the pasture area to the north and in some on-pad areas. The secondary containment is made up of earthen berms approximately 2 feet tall with an intact polyethylene liner. De minimis staining typical of production equipment was visible during the inspection, however, given the age of the release, it is difficult to discern whether these residual impacts are related to the historical release. The liner was partially exposed and intact at the time of the site visit. Based on the C-141 rejection, it is apparent that discrete samples were suggested by OCD, however, sampling the interior of the lined containment would destroy the liner integrity. Thus, no discrete samples are planned for collection.

As mentioned, the release was reported as having been contained within the lined secondary containment and, as documented in the C-141, initial response efforts were successful in recovering 80% released fluids. Photographic documentation from the inspection (with stamped GPS coordinates) is included within Appendix C.

LINER INTEGRITY

In accordance with 19.15.29.11(A)(5)(a) NMAC, notification of a liner inspection at the Lusk Deep Unit A #024H Release was sent via email to the NMOCD on January 27, 2023. The liner inspection notification email correspondence is included in Appendix D.

On February 1, 2023, Tetra Tech personnel performed an inspection of the liner within the secondary containment of the Lusk Deep Unit A #024H Release. The liner was observed as appearing to underlie the entirety of the tank battery secondary containment area. As mentioned above, the material atop the liner was not removed during the inspection. The visible liner was intact with no visible rips or tears. The liner sat atop the earthen berm, extended up over the outside edge and appeared anchored in. At the time of the inspection, the liner was intact and had the ability to contain the volume of the historical leak in question. Photographic documentation of the liner inspection is included in Appendix C.

Liner Inspection and Closure Report February 10, 2023

ConocoPhillips

CONCLUSION

Based on the results of the liner inspection, ConocoPhillips respectfully requests closure of the subject incident. The release occurred within a lined containment area. The liner integrity demonstration is complete. The affected area of the liner has been visually inspected in the approximate area where the release occurred, and the liner remains intact and had the ability to contain the leak in question. Two business days' notice was provided to the appropriate division district office before conducting the liner inspection.

The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the liner inspection for the Site, please call me at Christian at (512) 288-6281.

Sincerely,

Tetra Tech, Inc.

Samantha K. Abbott, P.G. Project Manager

CC:

Mr. Charles Beauvais, BU - ConocoPhillips

Christian M. Llull, P.G. Program Manager

Liner Inspection and Closure Report February 10, 2023

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map Figure 2 – Topographic Map Figure 3 – Site Feature Map and Release Extent

Appendices:

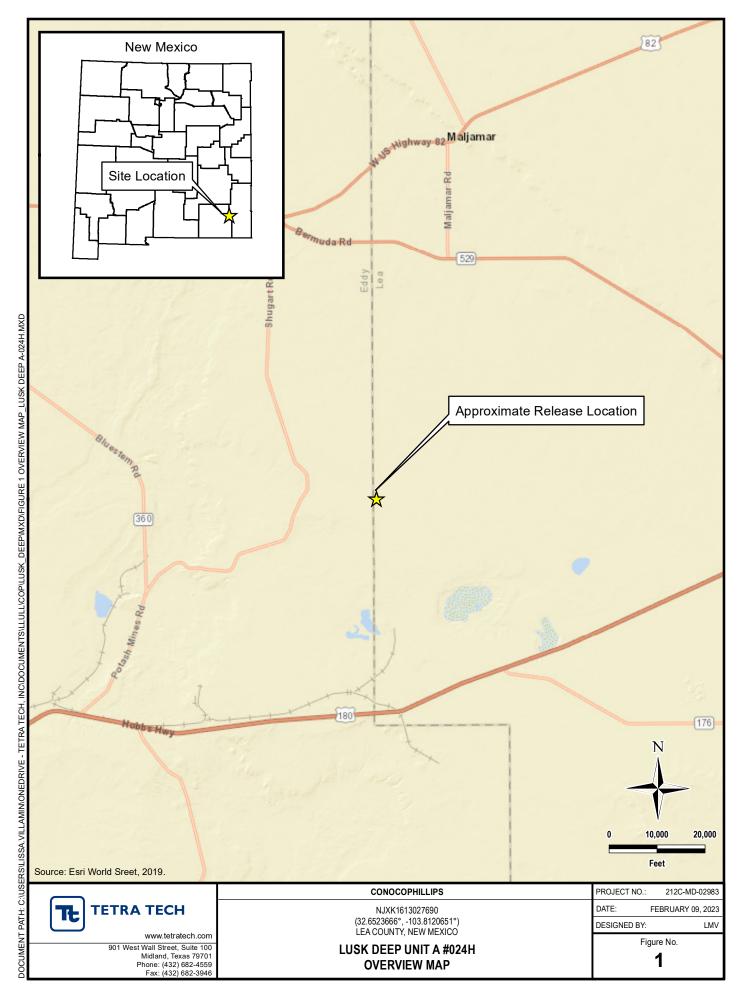
Appendix A – C-141 Forms

Appendix B – Site Characterization Data

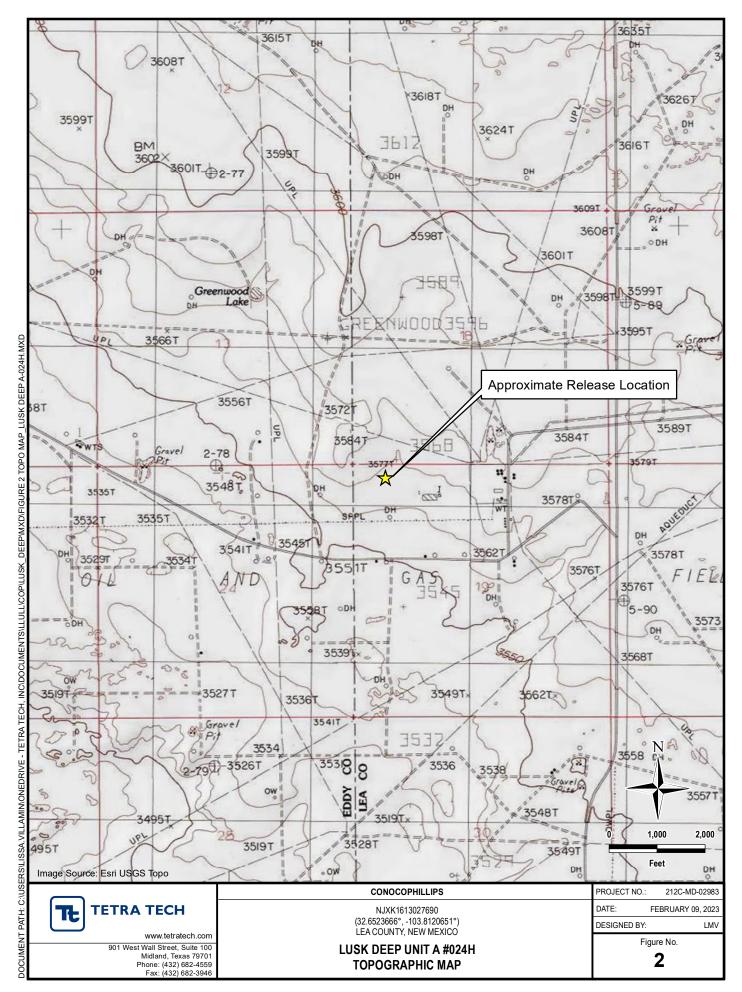
Appendix C – Photographic Documentation

Appendix D – Regulatory Correspondence

FIGURES

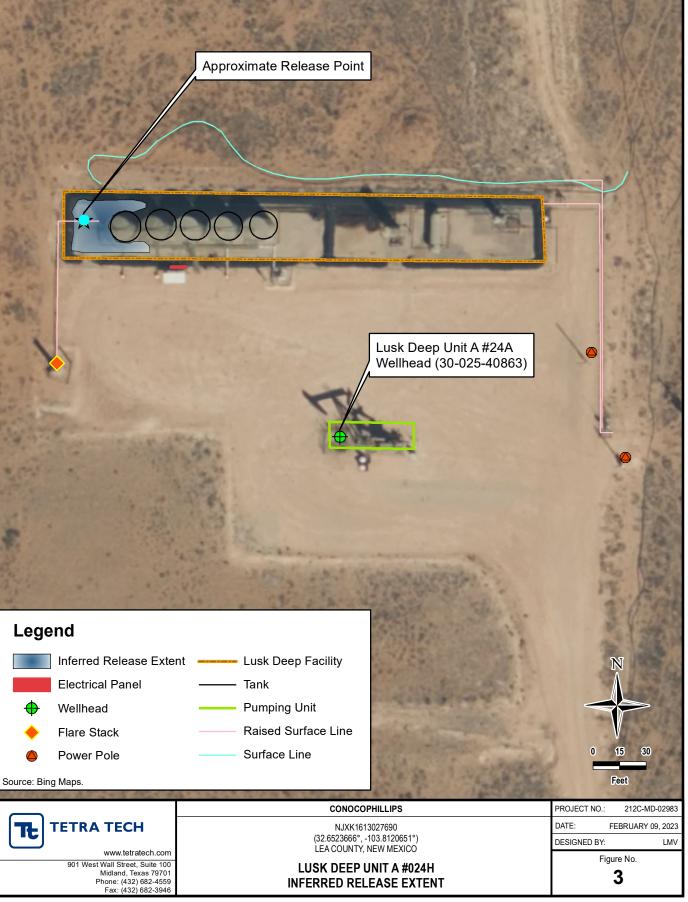


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APPENDIX A C-141 Forms

Received by OCD: 2/13/2023 8:34: <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210	05 AM State of Energy Minerals	New Mexic and Natural I	RECEIVE By JKeyes	D at 7:46	am, M		age 10 of 2 0 9, 2016
District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Dr.	Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC			
R	elease Notification	n and Cor	rective Actio	n			
		OPERATO	OR	Initial	Report		Final Repor
Name of Company: COG Operating LL	C	Contact: Rober	rt McNeill		-		
Address: 600 West Illinois Avenue, Midland TX 79701 Facility Name: LUSK DEEP UNIT A #024H		Telephone No. 432-230-0077					
		Facility Type:	Battery				
Surface Owner:	Mineral Owner:	Federal		A DI Ma	30-025-40	1863	

LOCATION OF RELEASE

Unit Letter D	Section 10			Feet from the 330'	North/South Line North	Feet from the 660'	East/West Line West	County
-			222	220	110104	000	11 5.21	2704

Latitude 32.6523888 Longitude -103.8120851

NATURE	OF RELEASE	
Type of Release:	Volume of Release:	Volume Recovered:
Produced Water	15 bbls PW	12 bbls PW
Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:
Steel Flowline	unknown	4/29/2016 7:00 am
Was Immediate Notice Given?	If YES, To Whom?	3.
By Whom?	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.
Describe Cause of Problem and Remedial Action Taken.* This release was caused by a corroded 4" steel waterline. A vacuum truck	k was dispatched to recover all stand	ing fluid.
This release occurred within a lined facility. Concho will have the spill si present a remediation work plan to the NMOCD for approval prior to any	significant remediation work.	
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release a public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediat or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective a ne NMOCD marked as "Final Report te contamination that pose a threat to	actions for releases which may endanger "does not relieve the operator of liability ground water, surface water, human health
Signature: Amande T. Dawis	OIL CONSER	<u>IVATION DIVISION</u> list: Jamikluger
Printed Name: Amanda Trujillo Davis		1
Title: Senior Environmental Coordinator	Approval Date: 05/09/2016	Expiration Date: 07/09/2016
	Conditions of Approval: Discrete samples only. Delineate and NMOCD guidelines. Ensure BLM co	
	approval.	nJXK1613027690

pJXK1613027793

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

API No. 30-025-40863

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company: COG Operating LLC	Contact: Robert McNeill		
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077		
Facility Name: LUSK DEEP UNIT A #024H	Facility Type: Battery		

Surface Owner:

LOCATION OF RELEASE

Mineral Owner: Federal

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	19	19S	32E	330'	North	660'	West	Lea

Latitude 32.6523666 Longitude -103.8120651

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume R		
Produced Water Source of Release:	15 bbls PW	12 bbls PV		
Source of Release: Steel Flowline	Date and Hour of Occurrence: unknown	4/29/2016	Hour of Discovery:	
Was Immediate Notice Given?	If YES, To Whom?	4/29/2010	7.00 am	
☐ Yes ☐ No ⊠ Not Required				
By Whom?	Date and Hour:			
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.		
🗌 Yes 🖾 No				
If a Watercourse was Impacted, Describe Fully.*				
Describe Cause of Problem and Remedial Action Taken.* This release was caused by a corroded 4" steel waterline. A vacuum truct	k was dispatched to recover all standi	ng fluid.		
Describe Area Affected and Cleanup Action Taken.*				
This release occurred within a lined facility. Repairs were made to equipr	ment before the facility cleaned and pu	ut back into se	ervice.	
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release multiplic health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ac ne NMOCD marked as "Final Report" te contamination that pose a threat to g	tions for rele does not relie ground water,	ases which may endanger eve the operator of liability , surface water, human health	
	OIL CONSER	VATION	DIVISION	
Signature: Amanda T. Dauis Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist: Application Rejected			
Title: Senior Environmental Coordinator	Approval Date:	Expiration I	Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval: Attached		Attached	
Date: May 20, 2016 Phone: 575-749-6940			<u> </u>	
* Attach Additional Sheets If Necessary OCD Conditions of approval were not met. Per conditions of approval on initial C-141 dated 5/9/2016. "Discrete samples only. Delineate and remediate per NMOCD guidelines. <i>Released to Imaging: 2/17/2023 10:03:09</i> Ensure BLM Concurrence/approval." No documentation provided showing conditions of approval met				

Received by OCD: 2/13/2023 8:34:05 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 12 of 28
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

Laboratory data including chain of custody

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

Received by OCD: 2/13/2 Form C-141	2023 8:34:05 AM State of New Mexico		Incident ID	Page 13 of 2
Page 4	Oil Conservation Division	1	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations.	formation given above is true and complete to the re required to report and/or file certain release non- ment. The acceptance of a C-141 report by the sigate and remediate contamination that pose a the of a C-141 report does not relieve the operator	otifications and perform c e OCD does not relieve the rreat to groundwater, surfa of responsibility for comp	orrective actions for rele e operator of liability sho ace water, human health	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Signature: <u>Charles</u>	R. Beauvais II	_ Date:		
email:		Telephone:		
OCD Only Received by: Jo				

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Signature: <u>Charles R. Beauvais</u> 99	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 02/13/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: <u>Ashley Maxwell</u>	Date:
Printed Name:	

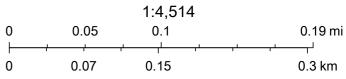
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APPENDIX B Site Characterization Data

OCD Waterbodies Map



1/27/2023, 2:17:53 PM OSW Water Bodies



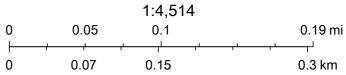
Esri, HERE, Garmin, iPC, Maxar, NM OSE

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OCD Potential Karst Map



1/27/2023, 2:20:20 PM Karst Occurrence Potential



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer Wells with Well Log Information

(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 (q				SW 4=S	,	AD83 UTM ir	n meters)					(in fe	eet)		
POD Number	POD Sub- Code basin C	County	Source	q q q 6416 4		Tws	Rng	x	Y	Dis	tance	Start Date	Finish Date	Log File Date	-	Depth Water		License Number
CP 00642 POD1	CP	ED	Shallow	22	25	19S	31E	611025	3611657*	9	1757	02/10/1982	02/01/1982	02/23/1982	250		FELKINS, LARRY	882
Record Count: 1																		
Basin/County Se	earch:																	
County: Eddy	у																	
UTMNAD83 Rad	lius Search (ir	n mete	ers):															
Easting (X):	611408.43		I	Northir	n <mark>g (</mark> Y)): 36	13372.5	53		Radius	2000)						

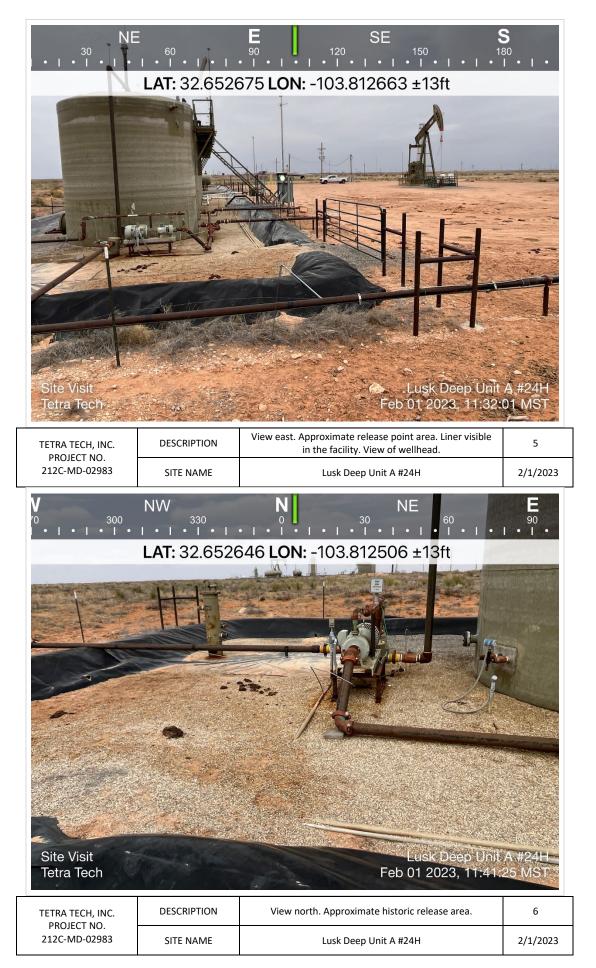
*UTM location was derived from PLSS - see Help

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.

APPENDIX C Photographic Documentation











APPENDIX D Regulatory Correspondence

From: To: Cc: Subject: Date: Attachments:	Enviro, OCD, EMNRD Abbott, Sam Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD RE: [EXTERNAL] Incident ID: nJXK1613027690 - Liner Inspection Monday, January 30, 2023 9:45:53 AM image006.jpg image007.png image008.png image008.png

You don't often get email from ocd.enviro@emnrd.nm.gov. Learn why this is important

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Samantha,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

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

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From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Friday, January 27, 2023 12:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Chavira, Lisbeth
<LISBETH.CHAVIRA@tetratech.com>; Poole, Nicholas <NICHOLAS.POOLE@tetratech.com>
Subject: [EXTERNAL] Incident ID: nJXK1613027690 - Liner Inspection

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

Incident ID (n#) nJXK1613027690 (Lusk Deep Unit A #24H)

To whom it may concern,

In accordance with Subsection A of 19.15.29.11 NMAC, the responsible party must verbally notify

the appropriate division district office prior to conducting the liner inspection.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that a liner inspection will be conducted at this site on February 1, 2023.

NOTE: If you have any questions regarding this schedule, please contact me.

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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

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

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

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

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

CONDITIONS

Operator: C	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	185360
٩	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

Created By		Condition Date
amaxwell	None	2/17/2023

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