

September 1, 2023

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

Re: Liner Inspection and Closure Request ConocoPhillips (Heritage COG Operating, LLC) Pygmy 27 State #001H Tank Battery Release Lea County, New Mexico DOR: 7/30/2018 Incident ID nOY1821448734 Approximate Release Point: 32.45616°, -103.56834°

### Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a Heritage COG Operating, LLC release that occurred due to equipment failure at the Pygmy 27 State #001H Tank Battery facility. The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 27, Township 21 South, Range 33 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.45616°, -103.56834°, as shown on Figures 1 and 2. The Site is located on privately owned lands.

## BACKGROUND

According to the State of New Mexico Form C-141 Initial Report (Appendix A), the release was caused by a failed gasket. The release occurred within the lined facility, with the exception of a 100 square foot area of overspray in the pasture north of the secondary containment. The approximate release extent is presented in Figure 3.

The release consisted of approximately 20 barrels (bbls) of oil and 20 bbls of produced water, of which 13 bbls oil and 12 bbls of produced water were recovered. The C-141 form for the release was submitted to the New Mexico Oil Conservation Division (NMOCD) by COG Operating, LLC (COG) on July 30, 2018. The NMOCD approved the initial C-141 on August 2, 2018, and subsequently assigned the release the Remediation Permit (RP) number 1RP-5143 and the Incident ID nOY1821448734.

## LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the site is located is Private land. Prior to assessment and remedial activities, the appropriate parties were contacted and informed of the work and work was coordinated with the landowner.

## SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, stream bodies, 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.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are two water wells within ½ mile (800m) of the Site with an average depth to groundwater of 575 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Liner Inspection and Closure Request September 1, 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, and 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 site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRAL
Chloride	20,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, the reclamation requirements for surface soils (0-4 feet bgs) in the pasture are as follows:

Constituent	Site RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

## INITIAL SITE ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

On August 6, 2018 TRC Environmental Corporation (TRC) conducted initial assessment activities at the Site on behalf of COG. During the initial assessment, TRC collected three (3) soil samples from the overspray area in an effort to determine the vertical extent of the release. Three (3) soil samples were collected from the inferred edges of the overspray area to determine the horizontal extent. A total of six (6) soil samples were sent to Xenco Laboratories in Lubbock, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.

TRC returned to the site on October 25, 2018 to collect one (1) additional soil sample from the surface of the overspray area. TRC also conducted a liner inspection and collected photo documentation to provide proof of liner integrity beneath the areas impacted where gravel had been removed. One (1) sample was sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via Standard Method 4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. The approximate release extent and 2018 sampling locations are presented in Figure 3.

Analytical results from the 2018 sampling activities are summarized in Table 1. Analytical results exceeded the reclamation limit for chloride (600 mg/kg) in the 0.5-foot interval at HA-1 and the 0-0.25-foot interval at HA-1B. Analytical results exceeded the reclamation limit for TPH (100 mg/kg) in the 0-0.25-foot interval at HA-1B. There were no analytical results which exceeded the Site RRALs.

## **CLOSURE REQUEST AND NMOCD REJECTION**

TRC prepared a Site Assessment Summary and Closure Report dated November 11, 2018 based on the results of the assessment activities. A copy of this report is available through the NMOCD online permitting files. The closure request was rejected by NMOCD via an email dated April 11, 2023, with the following comments:

• "The area of the "overspray" must meet the requirements all of 19.15.29 NMAC. HA-1B has not been fully delineated.

- Per the conditions of approval for the initial C-141, a liner inspection needs to be performed. Pictures and an affirmation that the liner has and will continue to contain liquids will need to be included in the report.
- 1RP-5143 closed. Refer to incident #NOY1821448734 in all future communication.
- Submit a complete report though the OCD Permitting website by 7/11/2023."

A 90-day extension request to July 11, 2023, was rejected in an email dated July 21, 2023. NMOCD correspondence is included in Appendix C.

## ADDITIONAL ASSESSMENT

Following the NMOCD rejection of the initial closure request, Tetra Tech conducted additional soil sampling at the Site on behalf of ConocoPhillips to assess the current soil concentration levels within the reported release and complete delineation of the release. On August 8, 2023, Tetra Tech installed five (5) hand auger borings (AH-23-1 through AH-23-5) in the reported release extent. Boring AH-23-1 was installed to a depth of 3 feet bgs to obtain vertical delineation per NMOCD directives. Borings AH-23-2 through AH-23-5 were installed to a total depth of 1 foot bgs each to confirm the horizontal extent of the release. The August 2023 additional sampling locations are presented in Figure 4.

A total of six (6) soil samples sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via Standard Method 4500CI-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results from the 2023 additional sampling activities are summarized in Table 2. All analytical results were below the reclamation limits and the Site RRALs for all constituents.

## LINER INTEGRITY

In accordance with 19.15.29.11(A)(5)(a) NMAC, notification of a liner inspection at the Pygmy 27 State #001H Tank Battery was sent via email to the NMOCD on August 3, 2023. The liner inspection notification email correspondence is included in Appendix C.

On August 8, 2023, Tetra Tech personnel performed an inspection of the liner within the secondary containment of the Pygmy 27 State #001H Tank Battery. This work was completed to verify the previous documentation of liner integrity provided by TRC and Heritage Concho. The clean base course/gravel material was carefully extracted from the area surrounding the tanks and the surrounding vicinity. The liner was observed to underlie the entirety of the tank battery secondary containment area. The liner was intact with no visible rips or tears and encompassed by a 2-foot-tall earthern berm. The liner extended up and over the berm and was anchored on the exterior. At the time of the inspection, the liner was intact and had the ability to contain the leak in question. Photographic documentation of the liner inspection is included in Appendix E.

### CONCLUSION

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

The analytical results associated with the soil assessment conducted in the overspray area (outside of the lined containment) in the pasture north of the tank battery facility were below the reclamation requirements for all constituents at all sampled locations. Therefore, no additional remediation activities are required to address this release.

Liner Inspection and Closure Request September 1, 2023

ConocoPhillips

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 (432) 210-6952 or Christian at (512) 288-6281.

Sincerely, **Tetra Tech, Inc.** 

Samantha Abbott

**Project Manager** 

Christian M, Llull, P.G Program Manager

cc: Mr. Moises Cantu, PBU - ConocoPhillips

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Liner Inspection and Closure Request September 1, 2023

ConocoPhillips

## LIST OF ATTACHMENTS

## Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Initial Assessment (TRC)
- Figure 4 Approximate Release Extent and Additional Site Assessment (TT)
- Figure 5 Approximate Release Extent and Liner Inspection

## Tables:

Table 1 – Summary of Analytical Results – 2018 Soil AssessmentTable 2 – Summary of Analytical Results – 2023 Soil Assessment

## Appendices:

Appendix A – C-141 Forms

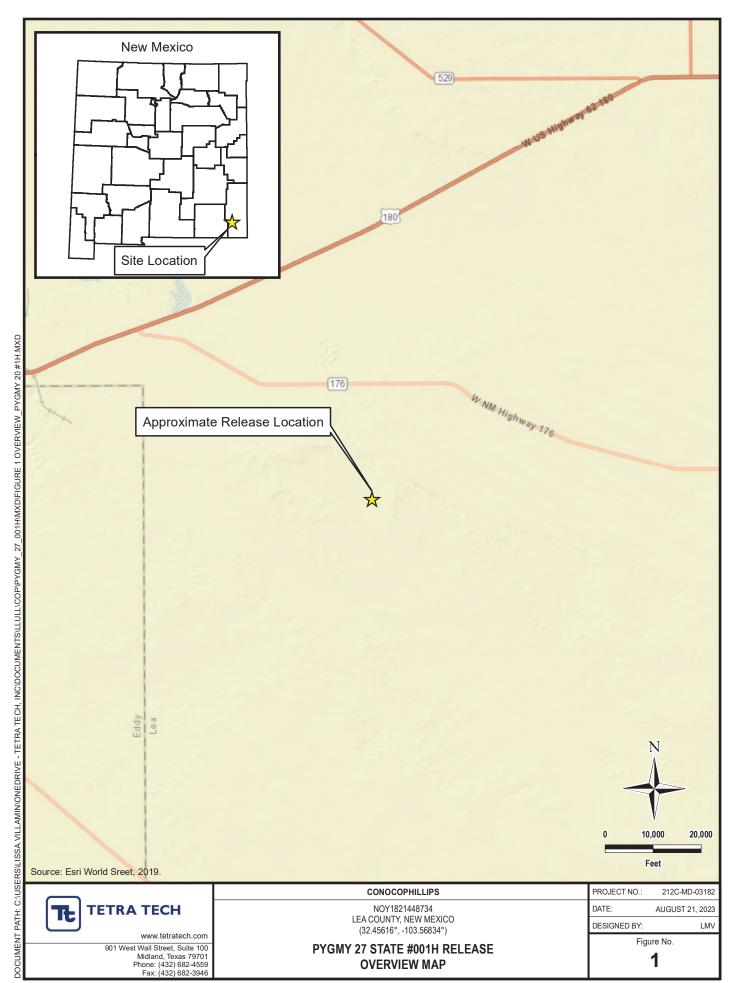
Appendix B – Site Characterization Data

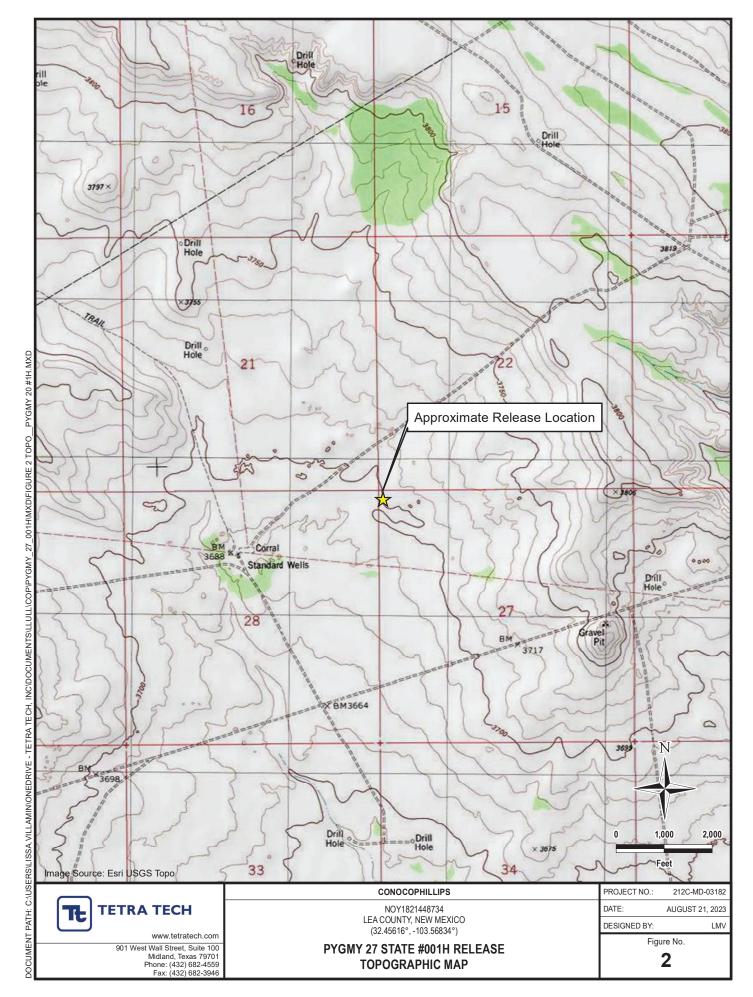
Appendix C – Regulatory Correspondence

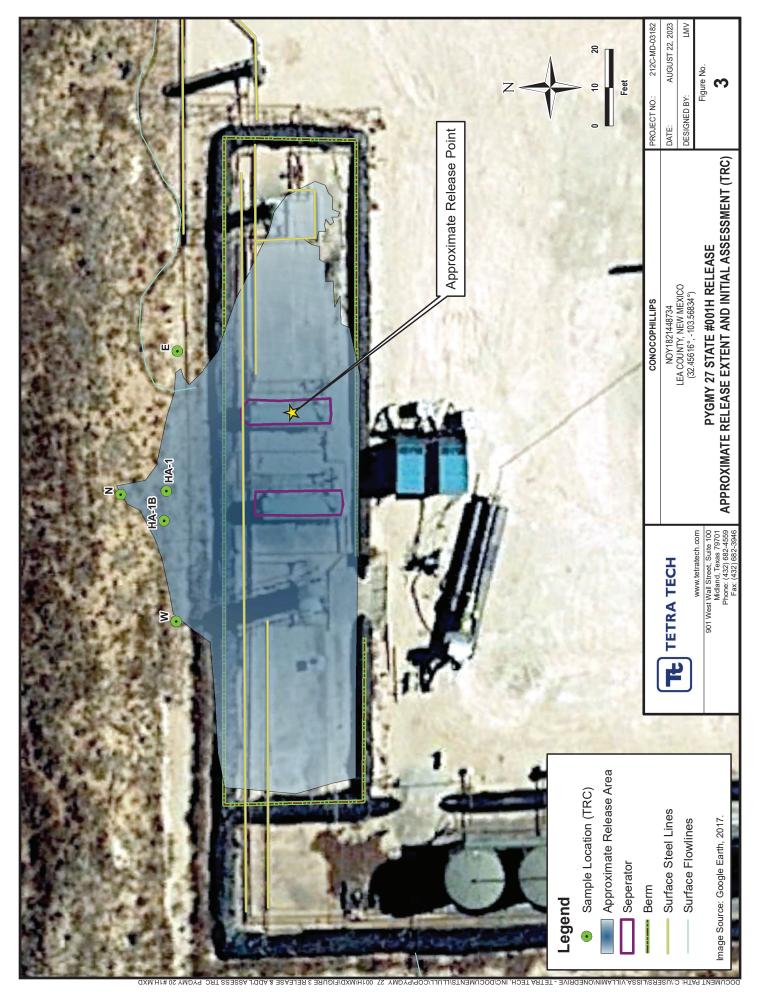
Appendix D – Laboratory Analytical Data

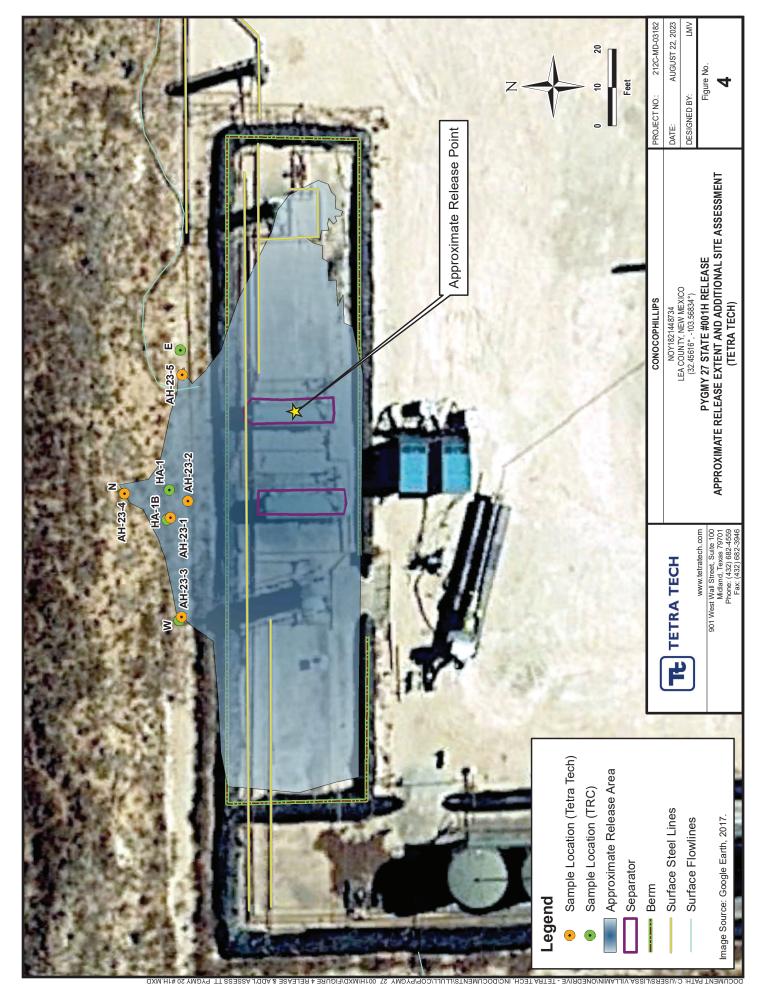
Appendix E – Photographic Documentation

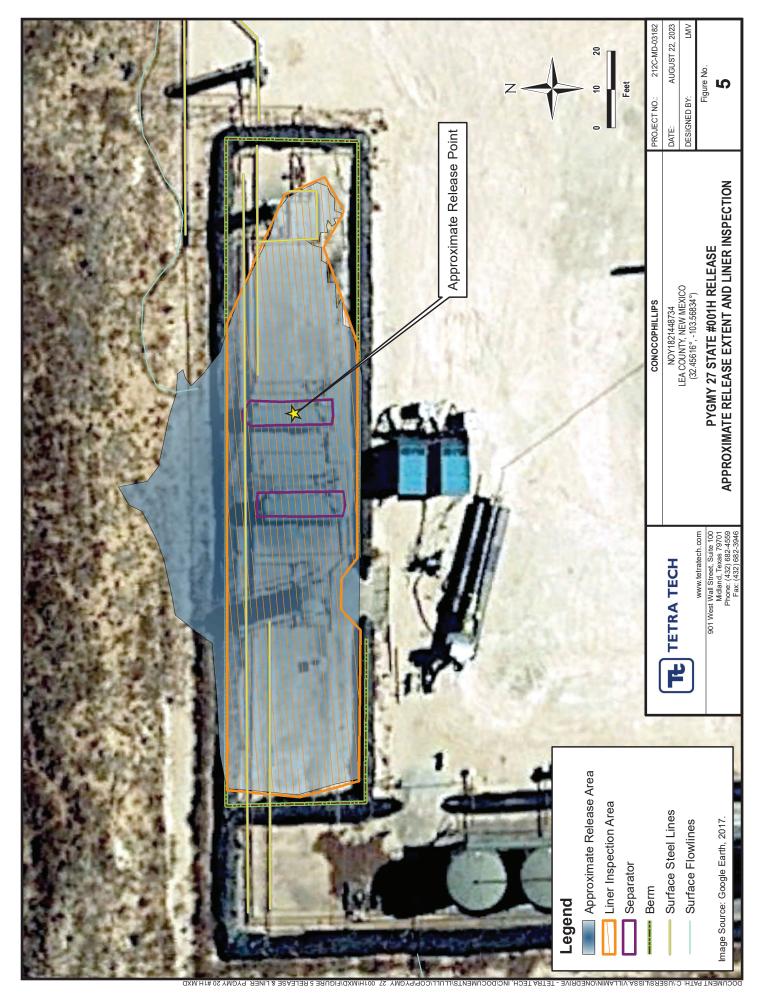
# FIGURES











# TABLES

		Counte Douth									BTEX <sup>2</sup>										TPH <sup>3</sup>	H <sup>3</sup>				
Sample ID	Sample Date	outline nebui	Culoride		Benzene	Ť	Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene	-	Total Xylenes	-	Total BTEX		GRO	DRO			MRO	To	Total TPH	
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									BTEX <sup>2</sup>									TPH <sup>3</sup>								
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odimpie ID	sample pate				auazuag	_	Ioluene		curyide nzene		i otai Aylenes		I OTAI DIEA		C <sub>6</sub> - C <sub>10</sub>	^	> C <sub>10</sub> - C <sub>28</sub>	^	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO	DRO)					
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2018 SOIL ASSESSMENT (TRC) - nOY1821448734 SUMMARY OF ANALYTICAL RESULTS

TABLE 1

PYGMY 27 STATE #001H RELEASE LEA COUNTY, NM CONOCOPHILLIPS

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Boki and italicited values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.	511.de
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Total Petroleum Hydrocarbons mg/kg Milligrans per kilogram TPH Total Petroleum Hydrocarb GRO Gasoline range organics DRO Diesel range organics MRO Motor Oli range organics Below ground st bgs

Feet NOTES:

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- QUALIFIERS: U QM-07
- Analyte was not detected. The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS.
- Motor Oil range organics Sample not analyzed for parameter
  - EPA Method 300.0 NS
    - \_
- Standard Method 4500CI-B Method SW8015 Mod

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									8	BTEX <sup>2</sup>								TPH3	
		oted classes	Sample Depth	Chloride <sup>1</sup>			-	T also a	11.1447					}	GRO		DRO		EXT DR
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Ч	T-62-L	6202/0/0	2-3	16.0		<0.050	Ì	<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0
AF	AH-23-2	8/8/2023	0-1	16.0		<0.050	·	<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0
AF	AH-23-3	8/8/2023	0-1	16.0		<0.050	·	<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0
AF	AH-23-4	8/8/2023	0-1	32.0		<0.050	Ĥ	<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0
AF	AH-23-5	8/8/2023	0-1	16.0		<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0
NOTES:																			
ft. Fe	Feet			Bold and italiciz	red values	indicate exceed	lance of p	Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.	ation RRALs (	and/or Recla	mation Requi	rements.							
bgs Be	Below ground surface	ırface																	

2023 SOIL ASSESSMENT (TT) - nOY1821448734 SUMMARY OF ANALYTICAL RESULTS

TABLE 2

PYGMY 27 STATE #001H RELEASE CONOCOPHILLIPS

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mg/kg Milligrams per kilogram

Total Petroleum Hydrocarbons TPH GRO

Gasoline range organics

Standard Method 4500Cl-B Diesel range organics DRO -

Method 8021B 3 5

Method 8015M

(GRO+DRO+EXT DRO) Total TPH mg/kg

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# APPENDIX A C-141 Forms

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

## **Release Notification and Corrective Action**

		<b>OPERATO</b>	R	$\square$	Initial Report		Final Report
Name of Company: COG Operating LLC (OGR)	ID #)	Contact:	Robert McNeill				
Address: 600 West Illinois Avenue, Midland	TX 79701	Telephone No.	432-683-7443				
Facility Name: Pygmy 27 State #001H		Facility Type:	Tank Battery				
Surface Owner: Private	Mineral Owner	: State		A	PI No. 30-025-4	0352	

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	27	21S	33E	330	North	190	West	Lea

Latitude 32.4561577 Longitude -103.5683441 NAD83

## NATURE OF RELEASE

Type of Release:		Volume of Release:	Volume Recovered:
	Oil & Produced Water	20 bbl. Oil	13 bbl. Oil
		20 bbl. Produced Water	12 bbl. Produced Water
Source of Release:		Date and Hour of Occurrence:	Date and Hour of Discovery:
	Gasket Failure	July 30, 2018 11:00am	July 30, 2018 11:00am
Was Immediate Notic		If YES, To Whom?	5419 50, 2010 11.004m
was minediate Notic	Yes No Not Required	Olivia Yu- NMOCD	
		Christina Hernandez – NMOCD	
		Ryan Mann- SLO	
By Whom? DeAnn		Date and Hour: July 30, 2018 4:4	
Was a Watercourse Re		If YES, Volume Impacting the Wa	atercourse.
	🗌 Yes 🖾 No		
If a Watercourse was	Impacted, Describe Fully.*	DECENTED	
		RECEIVED	
		By Olivia Yu at	1:27 pm, Aug 02, 2018
Describe Cause of Pro	blem and Remedial Action Taken.*		
The release was cause	d by a failed gasket. The gasket is being replaced.		
Describe Area Affecte	d and Cleanup Action Taken.*		
	*		
The release occurred y	vithin the lined facility. A vacuum truck was dispat	ched to remove all freestanding fluids	s. Concho will have the spill area evaluated
	t from the release and we will present a remediatio		
activities.	i i chi die reienee and we whit present a reinearance	in work prairie and rairie of for appre	s var prior to any organization remeatation
	e information given above is true and complete to	the best of my knowledge and underst	and that nursuant to NMOCD rules and
	rs are required to report and/or file certain release r		
	vironment. The acceptance of a C-141 report by th		
	s have failed to adequately investigate and remedia		
	n addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for compliance with any other
federal, state, or local	laws and/or regulations.		
		OIL CONSER	VATION DIVISION
			01
Signature:	Delinn (reant		$\mathcal{M}$
	0.	Approved by Environmental Speciali	ist.
Printed Name:	DeAnn Grant	reprised of memorial special	
		8/2/2018	$\mathbf{V}$
Title:	HSE Administrative Assistant	Approval Date:	Expiration Date:
E-mail Address:	agrant@concho.com	Conditions of Approval:	
		**	Attached
Date: July 30, 2018	Phone: 432-253-4513	Please inspect liner in question	n. Provide
		NMOCD with a concise report	of the
* Attach Additional Sl	ICCLS II INCUESSALV	inspection with affirmation the	
		•	
nOY1821448734	pOY1821449586	and will continue to contain lic	quids.

**Released to Imaging: 9/5/2023 1:12:51 PM** 

**Received by OCD: 9/1/2023 12:11:28 PM** Form C-141 State of New Mexico

Oil Conservation Division

	Page 17 of 5.
Incident ID	nOY1821448734
District RP	1RP-5143
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?	<u>572</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

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

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

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

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

Page 3

Received by OCD: 9/1/2023	12:11:28 PM State of New Mex	•		Page 18 of 52
Form C-141			Incident ID	nOY1821448734
Page 4	Oil Conservation Di	vision	District RP	1RP-5143
			Facility ID	
			Application ID	
regulations all operators are republic health or the environmed failed to adequately investigat addition, OCD acceptance of a and/or regulations. Printed Name: <u>Moises H Cana</u> Signature: <u>Moises H Cana</u>		elease notifications and perform c rt by the OCD does not relieve th pose a threat to groundwater, surf	orrective actions for re e operator of liability s ace water, human healt oliance with any other f ental Engineer	leases which may endanger hould their operations have h or the environment. In
OCD Only Received by:		Date:		

Oil Conservation Division

Incident ID	nOY1821448734
District RP	1RP-5143
Facility ID	
Application ID	

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## Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Moises H Cantu Garcia	Title: Sr. Environmental Engineer
Signature: Moises H Cantu Garcia	Date: 8/31/2023
email: Moises.H.CantuGarcia@conocophillips.com	Telephone: <u>432-688-6090</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and

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

Hall Closure Approved by

Date: 9/5/2023

Printed Name: Brittany Hall

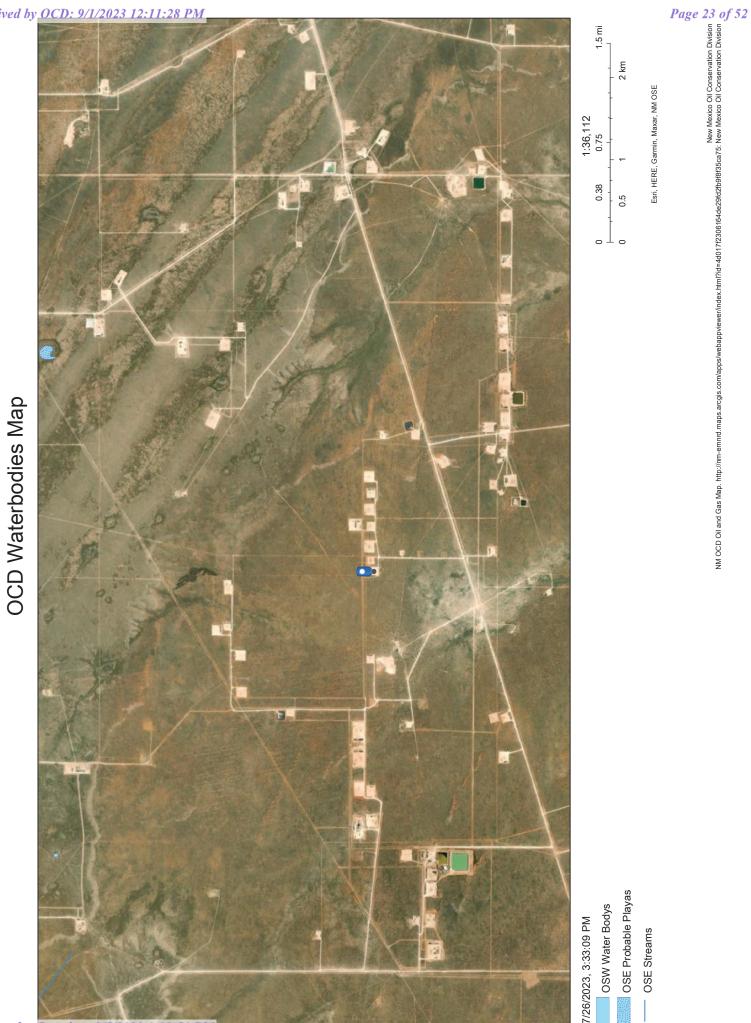
Title: Environmental Specialist

.

# APPENDIX B Site Characterization Data











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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(q						2=NE 3 st to lar	3=SW 4=5 gest) (	,	83 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin Co	ounty		Q 16		Sec	Tws	Rng	)	x	Y	Distance			Water Column
CP 01349 POD1	CP	LE	2	3	1	27	21S	33E	63478	2	3591569 🌍	440	1188	572	616
CP 01357 POD1	CP	LE	4	3	1	27	21S	33E	63478	2	3591347 🌍	638	1286	578	708
											Avera	ge Depth to	Water:	575	feet
												Minimum	Depth:	572	feet
												Maximum	Depth:	578	feet
Record Count: 2															
LITMNAD92 Badiua	Coorde (in motore	-).													

UTMNAD83 Radius Search (in meters):

Easting (X): 634543.1

Northing (Y): 3591939.34

Radius: 800

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

Released to Imaging: 9/5/2023 1:12:51 PM



Released to Imaging: 9/5/2023 1:12:51 PM

# APPENDIX C Regulatory Correspondence

SIGN-IN HELP

Searches Operator Data Hearing Fee Application

## **OCD** Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

## [IM-SD] Incident File Support Doc (ENV) (IM-BNF) Application

Submission Information	n .		
Submission ID:	205966	Districts:	Hobbs
Operator:	[229137] COG OPERATING LLC	Counties:	Lea
Description:	COG OPERATING LLC [229137] PYGMY 27 STATE COM #001H nOY1821448734 {Discovery: 07/30/2018, Closure Not Approved, Oil Release, Private}		
Status:	REJECTED		
Status Date:	04/11/2023		
References (2):	30-025-40352, nOY1821448734		
Forms			
Attachments:	Support Doc		
Questions			
This submission type does n	not have questions, at this time.		
Acknowledgments			
	not have acknowledgments, at this time.		
Comments			
No comments found for this	submission.		
Conditions			
No conditions found for this	submission.		
Reasons			
Summary:	bhall (4/11/2023), The area of the "overspray" must meet the requirements all of 19.15.29 NMAC. He		
	bhall (4/11/2023), Per the conditions of approval for the initial C-141, a liner inspection needs to be p	erformed. Pictures and an aff	firmation that the liner has and will (

contain liquids will need to be included in the report.

SIGN-IN HELP

Searches Operator Data Hearing Fee Application
--

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Friday, July 21, 2023 2:09 PM
To: Abbott, Sam <Sam.Abbott@tetratech.com>
Cc: Cantu Garcia, Moises H <Moises.H.CantuGarcia@conocophillips.com>; Llull, Christian
<Christian.Llull@tetratech.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher,
Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD
<Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Extension Request - Application ID 205966 (Incident ID nOY1821448734)

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

attachments. \land

Sam,

The extension request for **nOY1821448734** is denied as COPC did not provide a showing of good cause to the division.

This application was rejected on 4/11/2023 and the first notification OCD had received that Charles Beauvais has taken another role within ConocoPhillips and was no longer the individual associated COP/COG Sites between (2015-2018) was on 4/12/2023. The OCD provided notice for the Conoco/COG sites via Charles as directed by Gustavo Frejervay on November 9, 2022. Additionally, any application submitted through OCD Permitting can be viewed by clicking on "Action Status" under the "Operator Data" drop down menu. The Action ID are hyperlinks, and any conditions of approvals or reasons for rejections will be displayed. Alternatively, Operators can also see approved documents in the incident files, while looking at the Incident details information.

This incident was included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018. However, Pursuant to Section 4 of the Order "This Order shall expire when the Responsible Party has submitted characterization plans/remediation plans with proposed timeframes for all ongoing corrective actions/remediations identified in Exhibit "A" to the OCD personnel identified 'in Exhibit "B" by the dates specified in Exhibit "B". "

The ACO was drafted to allow COPC additional time to submit site characterization and Remediation

plans at a different pace then what was required by the rule. The longest work plan phase submission being 6-18 months(~June 2020) Those plans have been reviewed and either denied or accepted. Therefore, those sites are no longer under an ACO as the agreements have been met and they need to meet the requirements of any conditions of approvals or reasons for rejections. This was communicated to Mrs. Jacqui Harris of COPC on June 16, 2023.

This incident is considered out of compliance and a completed C-141 will need to be submitted through the OCD Permitting website as soon as possible. Pursuant to 19.15.29.15 any responsible party who does not comply with 19.15.29 NMAC are subject to compliance and enforcement pursuant to 19.15.5 NMAC.

Please Include this e-mail correspondence in the remediation and/or closure report when submitting to the OCD Permitting website.

Thank you,

**Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

From: Wells, Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>
Sent: Wednesday, July 19, 2023 3:19 PM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>
Subject: FW: [EXTERNAL] Extension Request - Application ID 205966 (Incident ID nOY1821448734)

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Sent: Wednesday, July 19, 2023 2:55 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Cantu Garcia, Moises H <<u>Moises.H.CantuGarcia@conocophillips.com</u>>; Llull, Christian
<<u>Christian.Llull@tetratech.com</u>>
Subject: [EXTERNAL] Extension Request - Application ID 205966 (Incident ID nOY1821448734)

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

To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until October 9, 2023) to

complete additional assessment activities and associated reporting for the Pygmy 27 State #001H Release site (**nOY1821448734**).

NMOCD rejected the submitted Work Plan for incident ID (n#) **nOY1821448734** for the following reasons:

"The area of the "overspray" must meet the requirements all of 19.15.29 NMAC. HA-1B has not been fully delineated. Per the conditions of approval for the initial C-141, a liner inspection needs to be performed. Pictures and an affirmation that the liner has and will continue to contain liquids will need to be included in the report. 1RP-5143 closed. Refer to incident #NOY1821448734 in all future communication. Submit a complete report though the OCD Permitting website by 7/11/2023."

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. Tetra Tech received correspondence regarding the subject line incident on July 5, 2023. After an extensive review of the NMOCD online imaging files, it appears that the NMOCD determination for this release incident may have been inadvertently routed to ConocoPhillips individuals no longer associated with the ACO list management.

Tetra Tech and ConocoPhillips have initiated scheduling additional assessment and liner inspection activities to meet the requirements of 19.15.29 NMAC and the conditions of the Work Plan rejection, summarized above. The additional 90 days will allow adequate time for assessment and evaluation of the incident site. A complete report will be submitted through the OCD Permitting website by the requested extension date of October 9, 2023.

Please let me know if you have any questions or concerns.

Thank you in advance.

Sam

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

**Tetra Tech, Inc.** | *Leading with Science*<sup>®</sup> | OGA 8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | <u>tetratech.com</u>

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From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Thursday, August 3, 2023 12:57:12 PM
To: 'Enviro, OCD, EMNRD' <ocd.enviro@state.nm.us>
Cc: Brittany.Hall@emnrd.nm.gov <Brittany.Hall@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetratech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>; Poole, Nicholas <NICHOLAS.POOLE@tetratech.com>; Cantu Garcia, Moises H <Moises.H.CantuGarcia@conocophillips.com>
Subject: Incident ID: nOY1821448734 - Liner Inspection

Incident ID (n#) nOY1821448734 (Pygmy 27 State #001H)

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 August 8, 2023.

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

## Tetra Tech, Inc. | Leading with Science® | OGA

8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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# APPENDIX D Laboratory Analytical Data



August 14, 2023

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: PYGMY 27 STATE #001H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 10:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

## Sample ID: AH - 23 - 1 (0-1') (H234235-01)

BTEX 8021B	mg	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

# Sample ID: AH - 23 - 1 (2'-3') (H234235-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	123 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	143 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

# Sample ID: AH - 23 - 2 (0-1') (H234235-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	112	48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

# Sample ID: AH - 23 - 3 (0-1') (H234235-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

# Sample ID: AH - 23 - 4 (0-1') (H234235-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	107 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #001H RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03182	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

# Sample ID: AH - 23 - 5 (0-1') (H234235-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

PrEASE NOTE: Liability and Damage. Cardinal's liability and damits exclusive sympley for any dafin singly whether based in contract or text, data is simulated in the annual paid by the cleak by its symplex. All cleaks is housing these to negligence and any other canae whethere each and its minute by the cleak b	San Abboth San Abboth	
ges. Please email changes to celey kee	OTHER: OTHER: Address: 64 - Chone #: Fax #: PRESERV ACID/BASE: PRESERV ACID/BASE: PRESERV ACID/BASE: TIME TIME	CHAI
In the cleate for the complexitient of the subsidiaries.         Sens or otherwise.         Verball Results are emailed. Please provide Email address:         Verball Results are emailed. Please provide Email address:         REMARKS:         All Pesuits are emailed. Please provide Email address:         REMARKS:         All Pesuits are emailed. Please provide Email address:         Conscience         REMARKS:         All Pesuits are emailed. Please provide Email address:         REMARKS:         All Pesuits are emailed. Please provide Email address:         Conscience         Results are emailed.         Plandard         End         Cool Intact         Cool Intact         Observed Temp. °C         Correction Factor tree.         Standard         Some true         Standard         Cool Intact         Observed Temp. °C         Operation Factor tree         Text         Standard         Standard         Core Closely. keene@cardinallabson	ANALYSIS REQUEST	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

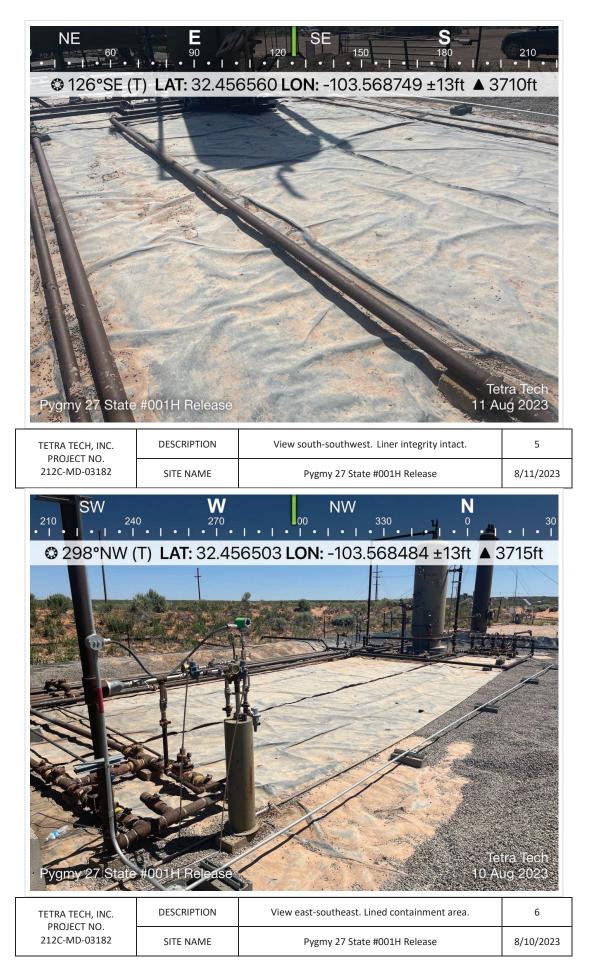
Released to Imaging: 9/5/2023 1:12:51 PM

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# APPENDIX E Photographic Documentation



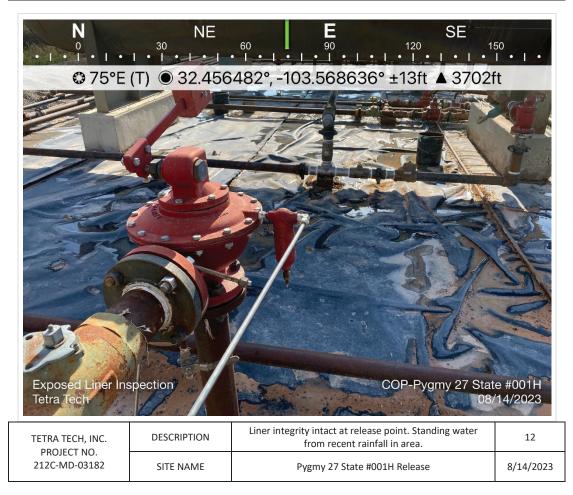


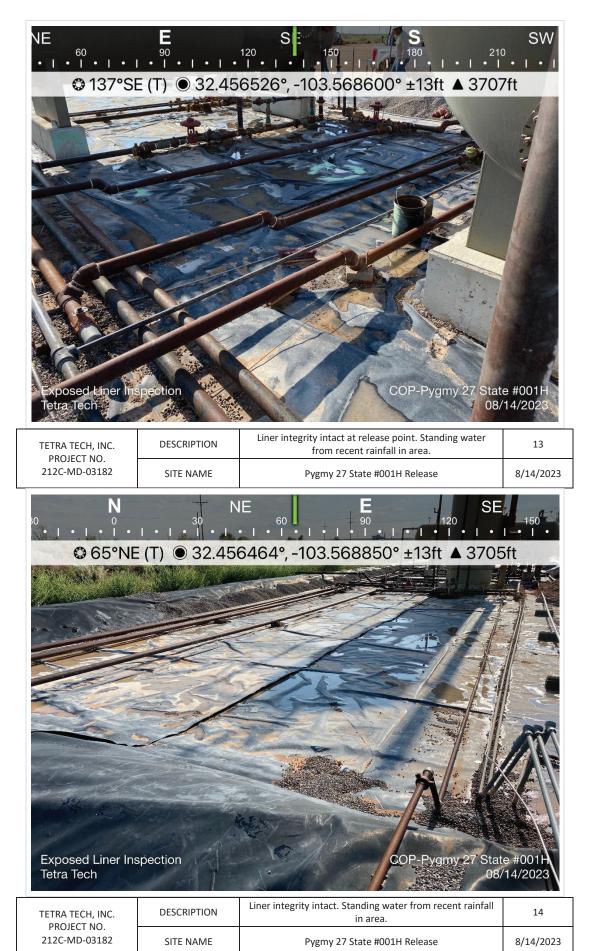












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District IV

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	261419
	Action Type:
	IC-1411 Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet all the requirements of 19.15.29.13 NMAC at time of plugging and abandonment or major facility reconstruction, whichever comes first.	9/5/2023

CONDITIONS

Action 261419