

July 9, 2021

Oil Conservation Division, District I 1625 N. French Dr. Hobbs, NM 88240

Bureau of Land Management, CFO 620 E. Green St. Carlsbad, NM 88220

Re: Closure Request Report

King Tut Federal CTB (4.3.21) Tracking # NAPP2110642327 GPS: 32.19545, -103.71811 Unit Letter D Section 30, Township 24 South, Range 32 East

Lea County, New Mexico

To Whom it May Concern,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to the fire that occurred at the King Tut Federal 001H located in Unit Letter D Section 30, Township 24 South, Range 32 East in Lea County, New Mexico. The spill site coordinates are 32.19545, -103.71811.

BACKGROUND

The fire occurred on April 3, 2021, and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The fire occurred due to a malfunction, sending fluids to the flare which occurred in a flare fire on the pad. Less than one (1) barrel of oil was released and burnt. No fluids were recovered. The initial C-141 is shown in Appendix A.

GROUNDWATER AND REGULATORY

According to the New Mexico Office of State Engineer (NMOSE) and the United States Geological Survey (USGS) website no water wells were found within one (1) mile of the release area.

A borehole was drilled within a ½ mile of the release to a depth of fifty-five (55) feet below surface and open for 72 hrs. After 72 hours, the borehole was gauged for presence of groundwater and no water was present. (Drilling log and map of location in Appendix B).

A risk-based evaluation and site determination was performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production facilities in New Mexico (effective August 14, 2018). According to the site character evaluation, the release area is located in low karst. No other receptors (water wells, playas, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site.

The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Low Karst	50-100 ft

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

Delineation and Closure Criteria:

Remedial Action Levels (RALs)				
Chlorides	10,000 mg/kg			
TPH (GRO and DRO and MRO)	2,500mg/kg			
Benzene	10 mg/kg			
Total BTEX	50 mg/kg			

REMEDIAL ACTIONS

- The pad was scraped around the flare were the fire occurred. A five-point composite sample was collected.
- Table 1 shows the analytical results.
- All the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The analytical data shown in Table 1 show that the release area meets NMOCD closure criteria (NMAC 19.15.29.12(E) Table I).

REQUEST FOR CLOSURE

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the King Tut Federal CTB fire that occurred on April 3, 2021. (Tracking # NAPP2110642327).

Should you have any questions or concerns on the closure report, please do not hesitate to contact me.

Sincerely,

Jacqui Harris

Jacqui Thoris

Environmental Coordinator

Jacqui.Harris@conocophillips.com

Maps

Site Map



7/9/2021, 10:05:14 AM



Maxar, Microsoft

Web AppBuilder for ArcGIS Maxar, Microsoft |

Table of Analytical Data

Table 1
COG Operating LLC.
King Tut CTB (4.3.21)-Analytical Data
Lea County, New Mexico

Sample ID	Sample ID Sample Date TPH (mg/kg)				Benzene	Total BTEX	Chloride				
Sample 1D	Sample Date	GRO	DRO	MRO	Total	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)
Average Depth to Gr	Average Depth to Groundwater (ft) - 50-100' Low Karst										
NMOCD RAL Limits (mg/	(kg)	-	-	-	1,000	-	-	2,500	10	50	10,000
SP1	5/4/21	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00398	130

Photo



Appendix A

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

				OGRID			
Contact Name					act Telephone		
Contact email					cident # (assigned by OCD)		
Contact mailing address							
					~		
			Location	of Release	Source		
Latitude				Longitud	e		
			(NAD 83 in dec	cimal degrees to 5 de	ecimal places)		
Site Name				Site Typ	e		
Date Release	Discovered			API# (if	[# (if applicable)		
Unit Letter	Section	Township	Range	Co	ounty		
Ont Letter	Section	Township	Runge		, unity	-	
						_	
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Private (I	Name:)	
			Nature and	d Volume o	f Release		
Crude Oil		l(s) Released (Select al Volume Release		calculations or spec	Volume Reco	e volumes provided below) overed (bbls)	
Produced	Water	Volume Release	` ,		Volume Recovered (bbls)		
			ion of dissolved c	chloride in the	Yes N	,	
		produced water					
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)	
Natural Gas Volume Released (Mcf)				Volume Reco	overed (Mcf)		
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Wei	ght Recovered (provide units)		
Cause of Rele	ease						

Received by OCD: 7/12/2021 9:43:56 AM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible	le party consider this a major release?
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To whom	? When and by what means (phone, email, etc)?
	Initial Resp	oonse
The responsible	party must undertake the following actions immediately unl	ess they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and the	environment.
Released materials ha	ave been contained via the use of berms or dike	s, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and ma	anaged appropriately.
has begun, please attach	a narrative of actions to date. If remedial effo	diation immediately after discovery of a release. If remediation rts have been successfully completed or if the release occurred se attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notificat ment. The acceptance of a C-141 report by the OCD gate and remediate contamination that pose a threat to	of my knowledge and understand that pursuant to OCD rules and ions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In onsibility for compliance with any other federal, state, or local laws
Printed Name		Title:
Signature:	tangsparge	Date:
email:	T	elephone:
OCD Only		
Received by:	Da	ate:

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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 soi contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody				

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

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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 no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature: Jacqui Theris	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 7/12/2021 9:43:56 AM Form C-141 State of New Mexico
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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 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						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in					
Printed Name:	Title:					
Signature:	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by:	Date:					
Printed Name:	Title:					

Appendix B

Site Assessment Data

Karst Potential



Web AppBuilder for ArcGIS
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA |

OReleas 250 Im 5 9 Ang: 8/17/2021 2994:30 PM

National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** www 513 www Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

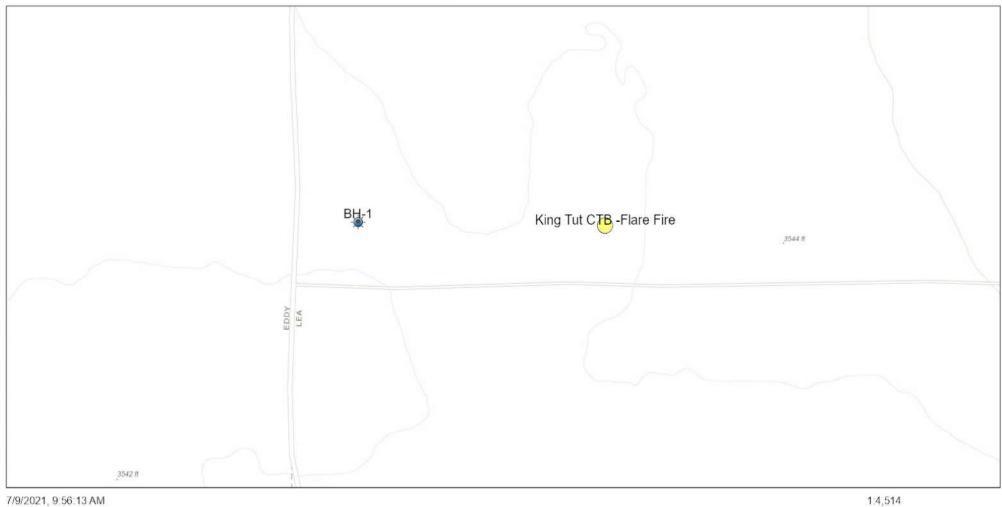
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/29/2021 at 3:57 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000

King Tut CTB- GWD





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P. USGS, EPA, USDA

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LAMESA, TEXAS 79331
2001 South Hwy. 87

WELL LOG

From	То	FORMATION
0	1	Caliche Pad
1	10	Brown Loose SAnd
10	28	Brun Sand W/ Ealiche
28	43	Pense Calicha
43	55	Rad Shale
		5 y
E		3 H-1
		COG -King Tut
		Federal # 14
W		Plugged Hole Plug
		32,195562 -103,721798
-		
Date 8-	1-20	Driller Lae Seale A

Appendix C

Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-660-1

Client Project/Site: King Tut Flare Fire

For:

ConocoPhillips Co. 1401 Commerce Drive Carlsbad, New Mexico 882200

Attn: Jacqui Harris

MRAMER

Authorized for release by: 5/14/2021 11:09:13 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 8/17/2021 2:14:30 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

6

9

10

12

<u> 13</u>

Client: ConocoPhillips Co.

Laboratory Job ID: 890-660-1

Project/Site: King Tut Flare Fire

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2

0

8

3

11

Definitions/Glossary

Client: ConocoPhillips Co.

Job ID: 890-660-1

Project/Site: King Tut Flare Fire

Qualifiers

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

G

6

g

10

Case Narrative

Client: ConocoPhillips Co. Project/Site: King Tut Flare Fire Job ID: 890-660-1

Job ID: 890-660-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-660-1

Receipt

The sample was received on 5/12/2021 2:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SP1 (890-660-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

4

6

q

10

1 2

13

Client Sample Results

Client: ConocoPhillips Co.

Result Qualifier

<0.00199

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

<0.00398 U

108

Project/Site: King Tut Flare Fire

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: SP1 Date Collected: 05/04/21 00:00

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

0.00398

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg mg/Kg

mg/Kg

mg/Kg

D

05/13/21 11:18

Date Received: 05/12/21 14:58

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

o-Terphenyl

m-Xylene & p-Xylene

Lab Sample	ID: 890-660-1
------------	---------------

Matrix: Solid

Job ID: 890-660-1

Prepared	Analyzed	Dil Fac
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1
05/13/21 14:00	05/13/21 16:38	1

05/13/21 19:42

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	70 - 130	05/13/21 14:00	05/13/21 16:38	1
1 4-Diffuorobenzene (Surr)	99	70 - 130	05/13/21 14:00	05/13/21 16:38	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 mg/Kg 05/13/21 11:18 05/13/21 19:42 (GRO)-C6-C10 Diesel Range Organics (Over mg/Kg 05/13/21 19:42 <49.9 U 49.9 05/13/21 11:18 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 05/13/21 11:18 05/13/21 19:42 Total TPH 05/13/21 19:42 <49.9 U mg/Kg 05/13/21 11:18 49.9 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 114 70 - 130 05/13/21 11:18 05/13/21 19:42

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	130		5.03		mg/Kg			05/13/21 16:47	1

70 - 130

Surrogate Summary

Client: ConocoPhillips Co. Job ID: 890-660-1

Project/Site: King Tut Flare Fire

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-660-1	SP1	107	99	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

800 660 1 SD1 114 108
551 114 100
LCS 880-3064/2-A Lab Control Sample 105 96
LCSD 880-3064/3-A Lab Control Sample Dup 106 98
MB 880-3064/1-A Method Blank 55 S1- 55 S1-

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ConocoPhillips Co. Job ID: 890-660-1

Project/Site: King Tut Flare Fire

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3064/1-A

MD MD

Matrix: Solid Analysis Batch: 3057 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 3064

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
Total TPH	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	55	S1-	70 - 130	05/13/21 11:18	05/13/21 11:47	1
o-Terphenyl	55	S1-	70 - 130	05/13/21 11:18	05/13/21 11:47	1

Lab Sample ID: LCS 880-3064/2-A **Client Sample ID: Lab Control Sample**

1000

Matrix: Solid

Analysis Batch: 3057

Gasoline Range Organics

						Prep	lype: lotal/NA	
						Pre	p Batch: 3064	
Spike	LCS	LCS				%Rec.		
Added	Result	Qualifier	Unit	D	%Rec	Limits		
1000	877.8		mg/Kg		88	70 - 130		

mg/Kg

952.0

(GRO)-C6-C10

Diesel Range Organics (Over

C10-C28)

Analyte

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-3064/3-A

Matrix: Solid

Analysis Batch: 3057

				_
Client Sam	ple ID: La	ıb Control	Sample	Dup

70 - 130

Prep Type: Total/NA

Prep Batch: 3064

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	 1000	864.6		mg/Kg		86	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	973.3		mg/Kg		97	70 - 130	2	20
C10-C28)									

	LCSD LCSD)
Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	106	70 _ 130
o-Terphenyl	98	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3070/1-A

Matrix: Solid

Analysis Batch: 3078

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/13/21 16:11

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Job ID: 890-660-1 Client: ConocoPhillips Co.

Project/Site: King Tut Flare Fire

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3070/2-A

Matrix: Solid

Analysis Batch: 3078

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 244.7 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-3070/3-A

Matrix: Solid

Analysis Batch: 3078

, , , , , , , , , , , , , , , , , , , ,	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	243.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: ConocoPhillips Co.

Job ID: 890-660-1

Project/Site: King Tut Flare Fire

GC VOA

Analysis Batch: 3051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-660-1	SP1	Total/NA	Solid	8021B	3053

Prep Batch: 3053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-660-1	SP1	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 3057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-660-1	SP1	Total/NA	Solid	8015B NM	3064
MB 880-3064/1-A	Method Blank	Total/NA	Solid	8015B NM	3064
LCS 880-3064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3064
LCSD 880-3064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3064

Prep Batch: 3064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-660-1	SP1	Total/NA	Solid	8015NM Prep	
MB 880-3064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3070

Lab Sample ID 890-660-1	Client Sample ID SP1	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-3070/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3070/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3070/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-660-1	SP1	Soluble	Solid	300.0	3070
MB 880-3070/1-A	Method Blank	Soluble	Solid	300.0	3070
LCS 880-3070/2-A	Lab Control Sample	Soluble	Solid	300.0	3070
LCSD 880-3070/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3070

Lab Chronicle

Client: ConocoPhillips Co.

Job ID: 890-660-1

Project/Site: King Tut Flare Fire

Client Sample ID: SP1 Lab Sample ID: 890-660-1

Date Collected: 05/04/21 00:00 Matrix: Solid
Date Received: 05/12/21 14:58

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3053	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3051	05/13/21 16:38	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 19:42	AJ	XM
Soluble	Leach	DI Leach			3070	05/13/21 14:00	SC	XM
Soluble	Analysis	300.0		1	3078	05/13/21 16:47	SC	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: ConocoPhillips Co. Job ID: 890-660-1

Project/Site: King Tut Flare Fire

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

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Method Summary

Client: ConocoPhillips Co. Project/Site: King Tut Flare Fire Job ID: 890-660-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

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Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: ConocoPhillips Co. Project/Site: King Tut Flare Fire Job ID: 890-660-1

-660-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-660-1	SP1	Solid	05/04/21 00:00	05/12/21 14:58	

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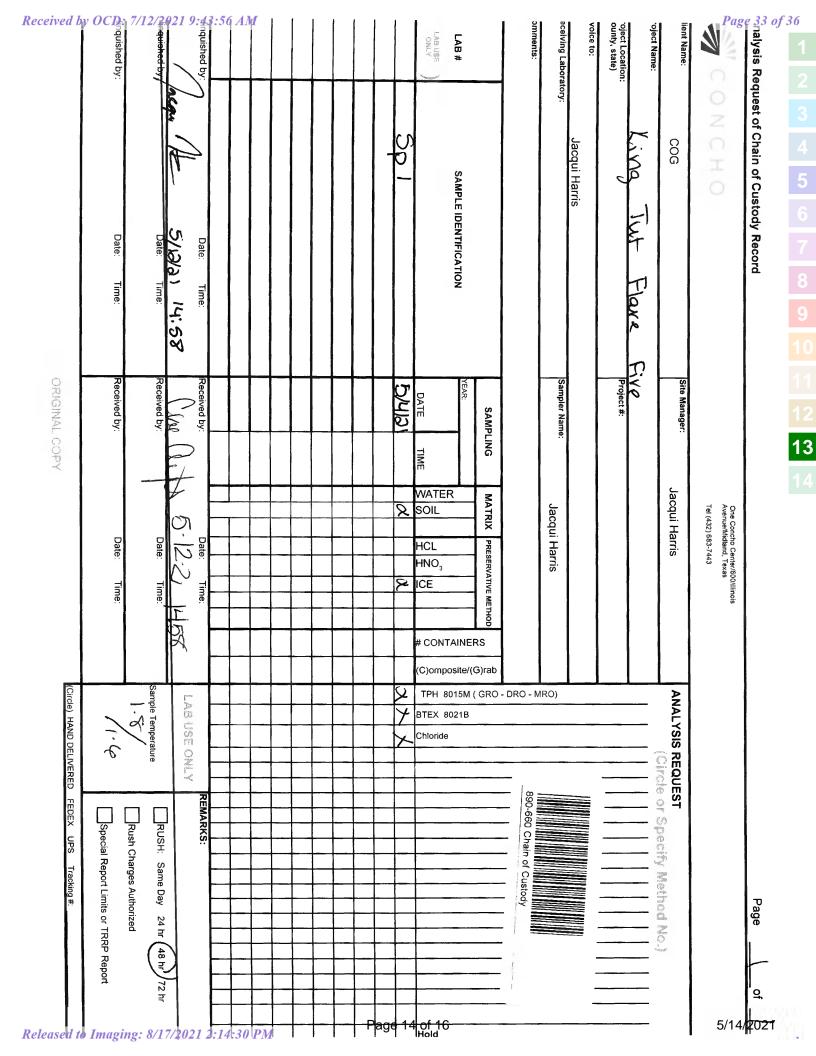
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Login Sample Receipt Checklist

Client: ConocoPhillips Co. Job Number: 890-660-1

Login Number: 660 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

5/14/2021

<6mm (1/4").

Login Sample Receipt Checklist

Client: ConocoPhillips Co. Job Number: 890-660-1

Login Number: 660 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/13/21 02:09 PM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

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 35952

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	35952
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

reated By Condition		Condition Date	
chensley	None	8/17/2021	