



[Dakota Neel]  
[HSE Coordinator]

March 2, 2019

Bradford Billings  
Oil Conservation Division  
Santa Fe

Ryan Mann  
New Mexico State Land Office  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240

**Re: Closure Request**  
**Wild Cobra 1 State SWD #001**  
**API #: 30-025-40933**  
**RP#: 1RP-4894**  
**Unit Letter I Section 12, Township 19S, Range 34E**  
**Lea County, NM**

Mr. Billings/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the Wild Cobra 1 State SWD #001. This release occurred on December 11, 2017. Following the releases a site assessment of the impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO). A copy of the approved work plan is attached.

## **BACKGROUND**

The Wild Cobra 1 State SWD #001 release is located in Unit Letter I, Section 12, Township 19 South, and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.672014 North and -103.50558 West.

On December 11, 2017, a four (4) inch flowline was damaged resulting in the release of approximately thirty (30) barrels (bbls) of produced water. The fluid was released into the pasture and zero (0) bbls were recovered.

Remediation activities were conducted in accordance with the NMOCD/NMSLO approved workplan. Confirmation sidewall samples were taken and can be found in Appendix 1.

March 2, 2019

## REMEDIAL ACTIONS

- The impacted area was excavated to a depth of 4-feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation sidewall samples were taken in all four cardinal directions to ensure that all of the impacted material was removed.
- The excavation was backfilled with clean “like” material and contoured to match the surrounding terrain.
- The site will be reseeded with the NMSLO Shallow Seed Mixture.

## CLOSURE REQUEST

COG Operating, LLC respectfully requests closure approval for 1RP-4894. Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,



Dakota Neel  
HSE Coordinator

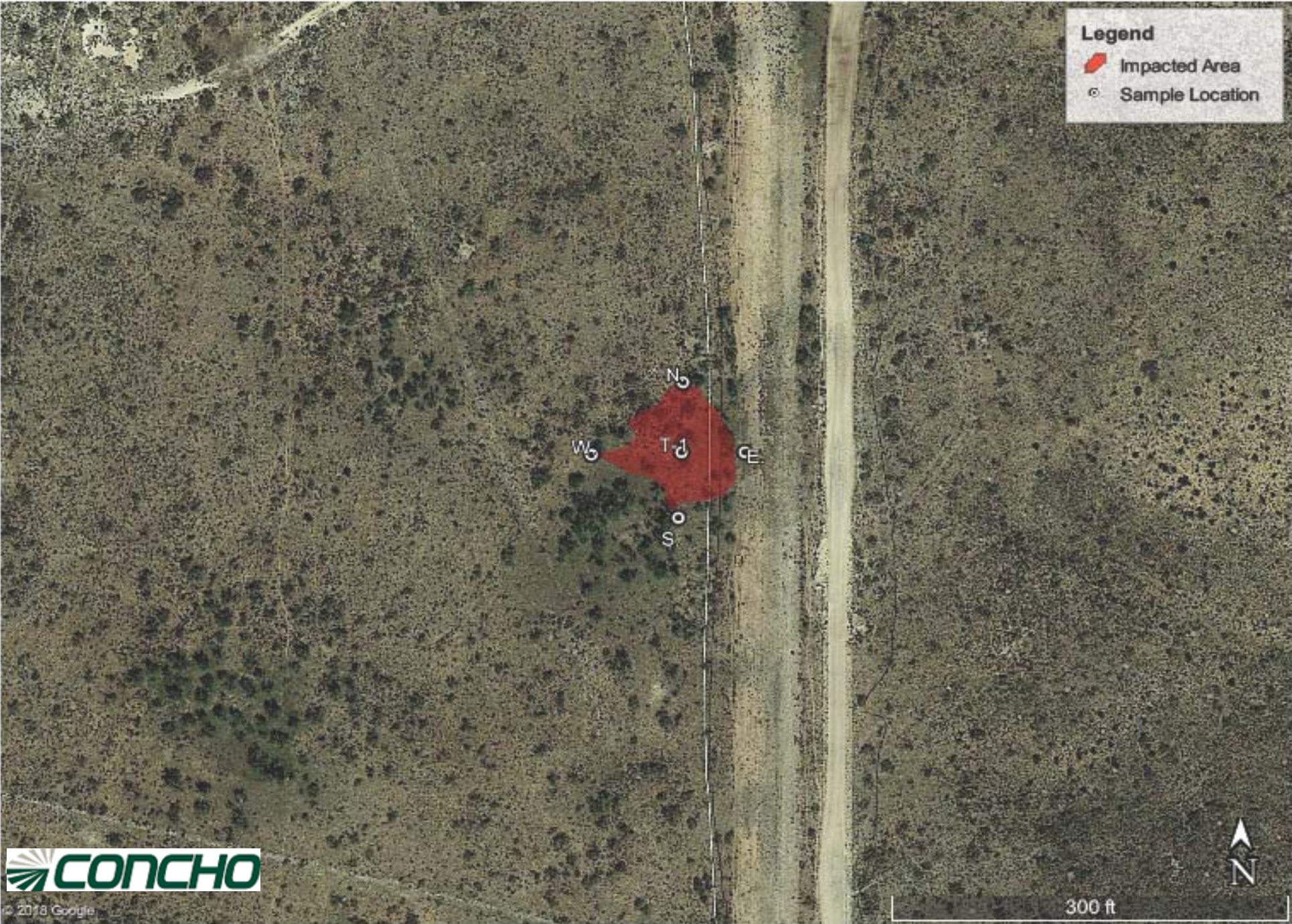
Enclosed:

- Appendix I: Site Diagram/Confirmation Sample Points
- Appendix II: Confirmation Analytical Results
- Appendix III: Work Plan (Copy)
- Appendix IV: Initial C-141 (Copy)
- Appendix V: Final C-141

# APPENDIX I



Wild Cobra 1 State SWD #001





# APPENDIX II



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

August 23, 2018

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WILD COBRA ST. SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 08/22/18 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/22/2018  
Reported: 08/23/2018  
Project Name: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/22/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: NORTH (H802347-01)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2018	ND	2.37	118	2.00	1.91	
Toluene*	<0.050	0.050	08/22/2018	ND	2.29	115	2.00	2.02	
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	2.32	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	08/22/2018	ND	7.01	117	6.00	1.67	
Total BTEX	<0.300	0.300	08/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/23/2018	ND	432	108	400	3.77		

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	08/22/2018	ND	204	102	200	1.66	
DRO >C10-C28*	<10.0	10.0	08/22/2018	ND	205	103	200	0.731	
EXT DRO >C28-C36	<10.0	10.0	08/22/2018	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/22/2018  
Reported: 08/23/2018  
Project Name: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/22/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SOUTH (H802347-02)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2018	ND	2.37	118	2.00	1.91	
Toluene*	<0.050	0.050	08/22/2018	ND	2.29	115	2.00	2.02	
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	2.32	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	08/22/2018	ND	7.01	117	6.00	1.67	
Total BTEx	<0.300	0.300	08/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/23/2018	ND	432	108	400	3.77		

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	08/22/2018	ND	204	102	200	1.66	
DRO >C10-C28*	<10.0	10.0	08/22/2018	ND	205	103	200	0.731	
EXT DRO >C28-C36	<10.0	10.0	08/22/2018	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/22/2018  
Reported: 08/23/2018  
Project Name: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/22/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: EAST (H802347-03)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2018	ND	2.37	118	2.00	1.91		
Toluene*	<0.050	0.050	08/22/2018	ND	2.29	115	2.00	2.02		
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	2.32	116	2.00	1.39		
Total Xylenes*	<0.150	0.150	08/22/2018	ND	7.01	117	6.00	1.67		
Total BTEx	<0.300	0.300	08/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	08/23/2018	ND	432	108	400	3.77		

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	08/22/2018	ND	204	102	200	1.66	
DRO >C10-C28*	<10.0	10.0	08/22/2018	ND	205	103	200	0.731	
EXT DRO >C28-C36	<10.0	10.0	08/22/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/22/2018  
Reported: 08/23/2018  
Project Name: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/22/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: WEST (H802347-04)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2018	ND	2.37	118	2.00	1.91		
Toluene*	<0.050	0.050	08/22/2018	ND	2.29	115	2.00	2.02		
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	2.32	116	2.00	1.39		
Total Xylenes*	<0.150	0.150	08/22/2018	ND	7.01	117	6.00	1.67		
Total BTEx	<0.300	0.300	08/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/23/2018	ND	432	108	400	3.77		

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	08/22/2018	ND	204	102	200	1.66	
DRO >C10-C28*	<10.0	10.0	08/22/2018	ND	205	103	200	0.731	
EXT DRO >C28-C36	<10.0	10.0	08/22/2018	ND					

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
SHELDON HITCHCOCK  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/22/2018  
Reported: 08/23/2018  
Project Name: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/22/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM HOLE (H802347-05)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2018	ND	2.37	118	2.00	1.91		
Toluene*	<0.050	0.050	08/22/2018	ND	2.29	115	2.00	2.02		
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	2.32	116	2.00	1.39		
Total Xylenes*	<0.150	0.150	08/22/2018	ND	7.01	117	6.00	1.67		
Total BTX	<0.300	0.300	08/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	08/23/2018	ND	432	108	400	3.77		

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	08/22/2018	ND	204	102	200	1.66	
DRO >C10-C28*	<10.0	10.0	08/22/2018	ND	205	103	200	0.731	
EXT DRO >C28-C36	<10.0	10.0	08/22/2018	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Concho Resources		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: Sheldon Hitchcock		Company: COG															
Address: 2407 Pecos Avenue		Attn: Robert McNeill															
City: Artesia		State: NM Zip: 88210															
Phone #: 575-703-6475		Fax #:															
Project #:		Project Owner: Concho															
Project Name: WILDA CORRA ST SWD #001		City:															
Project Location:		State:															
Sample Name: DAKOTA 232L		Phone #:															
FOR LAB USE ONLY		Fax #:															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV			SAMPLING							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
H802347	NORTH		1			1	1						8-22-18	8:00AM	X	X	X
	SOUTH		1			1	1								X	X	X
	EAST		1			1	1								X	X	X
	WEST		1			1	1								X	X	X
	BOTTOM HOLE		1			1	1								X	X	X

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Relinquished By: *[Signature]* Date: 8-22-18 Time: 2:50 Received By: *[Signature]* Date: 8-22-18 Time: 4:00

Relinquished By: *[Signature]* Date: 8-22-18 Time: 4:00 Received By: *[Signature]* Date: 8-22-18 Time: 4:00

Delivered By: (Circle One) 4.9c Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☒ No

Sampler - UPS - Bus - Other: 497

CHECKED BY: (Initials) TO

REMARKS: RUSH

Phone Result: ☐ Yes ☐ No Add'l Phone #:   
Fax Result: ☐ Yes ☐ No Add'l Fax #:   
REMARKS: RUSH

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



# APPENDIX III



[Sheldon L. Hitchcock]  
[HSE Coordinator]

June 21, 2018

Olivia Yu  
Oil Conservation Division, District 1  
1625 N. French Dr.  
Hobbs, NM 88240

Ryan Mann  
New Mexico State Land Office  
1001 S. Atkinson  
Roswell, NM 88230

**Re: Work Plan**  
**Wild Cobra 1 State SWD #001**  
**API #: 30-025-40933**  
**RP#: 1RP-4894**  
**Unit Letter I Section 12, Township 19S, Range 34E**  
**Lea County, NM**

**APPROVED**

**By CHernandez at 4:38 pm, Jul 19, 2018**

NMOCD approves of the delineation completed for 1RP-4894 and the proposed remediation plan with these clarifications:  
1) Bottom and sidewall confirmation samples no greater than 50 ft apart.  
2) Mark confirmation sample locations on a scaled map with GPS coordinates.  
3) Include photo documentation of delineation and remediation in subsequent report.

Ms. Yu/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit for your consideration the following remediation work plan for the Wild Cobra 1 State SWD #001. This plan is in response to a produced water release that occurred on December 11, 2017. Subsequent to the release a C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) on December 14, 2017.

## BACKGROUND

The Wild Cobra 1 State SWD #001 release is located in Unit Letter I, Section 12, Township 19 South, and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.672014 North and -103.50558 West.

On December 11, 2017, a four (4) inch flowline was damaged resulting in the release of approximately thirty (30) barrels (bbls) of produced water. The fluid was released into the pasture and zero (0) bbls were recovered.

On April 24, 2018, a site assessment and soil sampling were conducted in order to define the impacted area. A site diagram is included in Appendix I. The analytical results from the soil sampling activities are summarized in the table below.

June 21, 2018

**GROUNDWATER AND SITE RANKING**

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately eighty (80) feet below ground surface (BGS) (Appendix II). No water well or surface water was observed within one-thousand (1,000) feet of the release site. Therefore the site ranking for this release is ten (10) based on the following:

Depth to groundwater                      50-100-feet  
 Distance to surface water body        >1000-feet  
 Wellhead Protection Area                >1000-feet

**ANALYTICAL RESULTS**

Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	TPH mg/Kg
T-1 0'	4/24/2018	73,600	<0.050	<0.300	45.5
T-1 1'	4/24/2018	6,560	<0.050	<0.300	<10.0
T-1 2'	4/24/2018	4,800	-	-	-
T-1 3'	4/24/2018	2,520	-	-	-
T-1 4'	4/24/2018	256	-	-	-
T-1 4'	4/24/2018	211*	-	-	-
North 0'	4/24/2018	<10.0	<0.050	<0.300	<10.0
South 0'	4/24/2018	<10.0	<0.050	<0.300	<10.0
East 0'	4/24/2018	<10.0	<0.050	<0.300	<10.0
West 0'	4/24/2018	<10.0	<0.050	<0.300	<10.0

Chloride samples analyzed using method 4500-C1-B

(\*)Chloride results confirmed using method EPA300.0

(-)Analysis not requested

June 21, 2018

## **PROPOSED REMEDIAL ACTIONS**

- The impacted area will be excavated to a depth of 4-feet BGS.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- Confirmation sidewall samples will be taken in all four cardinal directions to ensure that all of the impacted material was removed.
- Upon receipt of acceptable results from the proposed confirmation soil sampling event the excavation will be backfilled with clean “like” material and contoured to match the surrounding terrain.

## **REVEGETATION PLAN**

Upon completion of the remediation the excavation will be backfill with clean “like” material. The surface will be left in a rough condition to approximate natural surface deviations. The site will be mechanically seeded with the New Mexico State Land Office (NMSLO) Shallow (SH) seed mixture. The site will be periodically monitored for revegetation and the development of noxious weeds. Should the site fail to re-vegetate or noxious weeds develop COG will contact NMSLO for a mitigation strategy.

June 21, 2018

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,



Sheldon L. Hitchcock  
HSE Coordinator  
[slhitchcock@concho.com](mailto:slhitchcock@concho.com)

Enclosed:

- Appendix I: Site Diagram
- Appendix II: Groundwater Data
- Appendix III: Initial C-141 (Copy)
- Appendix IV: Analytical Reports and Chain-of-Custody Forms

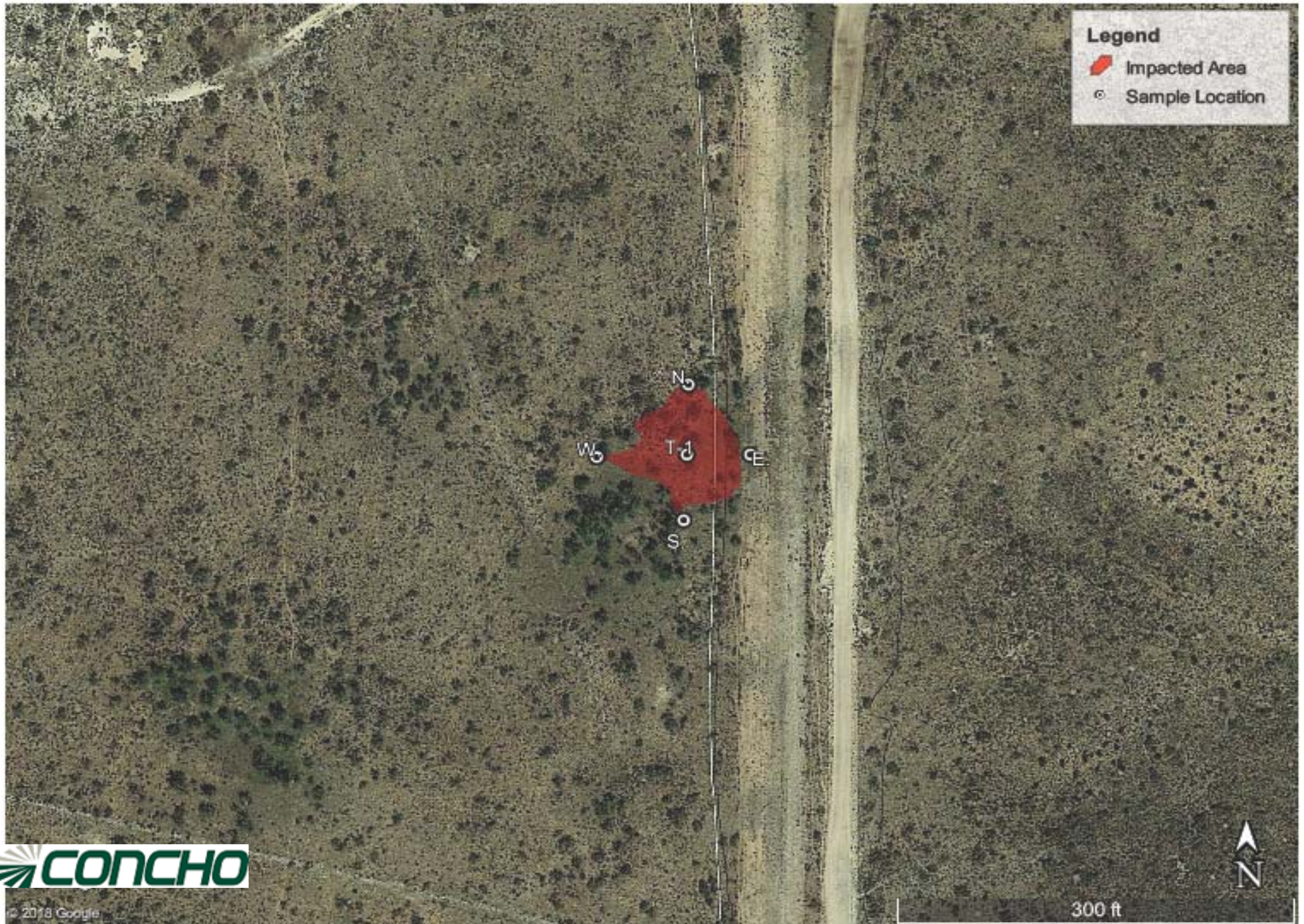


# APPENDIX I



# Wild Cobra 1 State SWD #001

December 11, 2017





# APPENDIX II



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">L 06731</a>	L	LE		3	2	2	12	19S	34E	639844	3616727*	712	120	80	40

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

Record Count: 1

### Basin/County Search:

**County:** Lea

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 639956

**Northing (Y):** 3616023

**Radius:** 800

\*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.

6/21/18 8:07 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# APPENDIX III



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

Form C-141  
Revised April 3, 2017  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC

## 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.	432-683-7443
Facility Name:	Wild Cobra 1 State SWD #001	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	State
		API No.	30-025-40933

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	12	19S	34E					Lea

Latitude 32.672014 Longitude -103.50558

### NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	30 bbls PW	Volume Recovered:	0 bbls PW
Source of Release:	Flowline	Date and Hour of Occurrence:	12-11-2017 12:35 PM	Date and Hour of Discovery:	12-11-2017 12:35 PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Ms. Yu NMOCD/Ms. Groves NMSLO		
By Whom?	Sheldon Hitchcock	Date and Hour:	12-11-17 2:23 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

**RECEIVED**



By Olivia Yu at 9:55 am, Dec 18, 2017

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
The release was caused by a damaged flowline and impacted the pasture adjacent to the lease road at the above referenced location. The damaged portion of the flowline has been replaced.

Describe Area Affected and Cleanup Action Taken.\*  
This release occurred in the pasture. Concho will have the spill area evaluated for any possible impact from the release and will 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 the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Dakota Neel		Approved by Environmental Specialist: 	
Title: HSE Coordinator	Approval Date: 12/18/2017	Expiration Date:	
E-mail Address: dneel2@concho.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>	
Date: December 14, 2017	Phone: 575-746-2010		

\* Attach Additional Sheets If Necessary

1RP-4894

nOY1735236012

pOY1735236392

# APPENDIX IV

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

May 03, 2018

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WILD COBRA ST. SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 04/25/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONEReported:  
03-May-18 14:59

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 0'	H801143-01	Soil	24-Apr-18 09:00	25-Apr-18 12:00
T-1 1'	H801143-02	Soil	24-Apr-18 09:05	25-Apr-18 12:00
T-1 2'	H801143-03	Soil	24-Apr-18 09:10	25-Apr-18 12:00
T-1 3'	H801143-04	Soil	24-Apr-18 09:15	25-Apr-18 12:00
T-1 4'	H801143-05	Soil	24-Apr-18 09:20	25-Apr-18 12:00

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**T-1 0'**  
**H801143-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>73600</b>		16.0	mg/kg	4	8042611	AC	28-Apr-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8042707	MS	27-Apr-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148 8042707 MS 27-Apr-18 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8042606	MS	27-Apr-18	8015B	
DRO >C10-C28*	45.5		10.0	mg/kg	1	8042606	MS	27-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8042606	MS	27-Apr-18	8015B	

Surrogate: 1-Chlorooctane 87.4 % 41-142 8042606 MS 27-Apr-18 8015B

Surrogate: 1-Chlorooctadecane 80.2 % 37.6-147 8042606 MS 27-Apr-18 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**T-1 1'**  
**H801143-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>6560</b>		16.0	mg/kg	4	8043003	AC	01-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Toluene*	<0.050	0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	8042707	MS	27-Apr-18	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	8042707	MS	27-Apr-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		109 %		72-148	8042707	MS	27-Apr-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	8042701	MS	27-Apr-18	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	8042701	MS	27-Apr-18	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	8042701	MS	27-Apr-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>		93.2 %		41-142	8042701	MS	27-Apr-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		74.5 %		37.6-147	8042701	MS	27-Apr-18	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**T-1 2'**  
**H801143-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>4800</b>		16.0	mg/kg	4	8050102	AC	01-May-18	4500-Cl-B	
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**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**T-1 3'**  
**H801143-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2520</b>		16.0	mg/kg	4	8050102	AC	01-May-18	4500-Cl-B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**T-1 4'****H801143-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	256		16.0	mg/kg	4	8050102	AC	01-May-18	4500-Cl-B	

**Green Analytical Laboratories****Soluble (DI Water Extraction)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	211		10.0	mg/kg wet	10	B805025	JDA	02-May-18	EPA300.0	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8042611 - 1:4 DI Water****Blank (8042611-BLK1)**

Prepared &amp; Analyzed: 26-Apr-18

Chloride	ND	16.0	mg/kg
----------	----	------	-------

**LCS (8042611-BS1)**

Prepared &amp; Analyzed: 26-Apr-18

Chloride	448	16.0	mg/kg	400	112	80-120
----------	-----	------	-------	-----	-----	--------

**LCS Dup (8042611-BSD1)**

Prepared &amp; Analyzed: 26-Apr-18

Chloride	432	16.0	mg/kg	400	108	80-120	3.64	20
----------	-----	------	-------	-----	-----	--------	------	----

**Batch 8043003 - 1:4 DI Water****Blank (8043003-BLK1)**

Prepared &amp; Analyzed: 30-Apr-18

Chloride	ND	16.0	mg/kg
----------	----	------	-------

**LCS (8043003-BS1)**

Prepared &amp; Analyzed: 30-Apr-18

Chloride	432	16.0	mg/kg	400	108	80-120
----------	-----	------	-------	-----	-----	--------

**LCS Dup (8043003-BSD1)**

Prepared &amp; Analyzed: 30-Apr-18

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
----------	-----	------	-------	-----	-----	--------	------	----

**Batch 8050102 - 1:4 DI Water****Blank (8050102-BLK1)**

Prepared &amp; Analyzed: 01-May-18

Chloride	ND	16.0	mg/kg
----------	----	------	-------

**LCS (8050102-BS1)**

Prepared &amp; Analyzed: 01-May-18

Chloride	416	16.0	mg/kg	400	104	80-120
----------	-----	------	-------	-----	-----	--------

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8050102 - 1:4 DI Water****LCS Dup (8050102-BSD1)**

Prepared &amp; Analyzed: 01-May-18

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
----------	-----	------	-------	-----	--	-----	--------	------	----	--

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8042707 - Volatiles****Blank (8042707-BLK1)**

Prepared &amp; Analyzed: 27-Apr-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.114		mg/kg	0.100		114	72-148			

**LCS (8042707-BS1)**

Prepared &amp; Analyzed: 27-Apr-18

Benzene	1.86	0.050	mg/kg	2.00		93.2	79.5-124			
Toluene	1.93	0.050	mg/kg	2.00		96.7	75.5-127			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.5	77.7-125			
Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	72-148			

**LCS Dup (8042707-BSD1)**

Prepared &amp; Analyzed: 27-Apr-18

Benzene	1.80	0.050	mg/kg	2.00		90.0	79.5-124	3.46	6.5	
Toluene	1.86	0.050	mg/kg	2.00		93.0	75.5-127	3.82	7.02	
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.3	77.7-125	5.41	7.83	
Total Xylenes	5.49	0.150	mg/kg	6.00		91.6	70.9-124	4.90	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	72-148			

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8042606 - General Prep - Organics****Blank (8042606-BLK1)**

Prepared &amp; Analyzed: 26-Apr-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	41-142			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.3	37.6-147			

**LCS (8042606-BS1)**

Prepared &amp; Analyzed: 26-Apr-18

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	199	10.0	mg/kg	200		99.7	72.9-138			
Total TPH C6-C28	402	10.0	mg/kg	400		100	78-132			
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	41-142			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.6	37.6-147			

**LCS Dup (8042606-BSD1)**

Prepared &amp; Analyzed: 26-Apr-18

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	0.819	20.6	
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138	0.456	20.6	
Total TPH C6-C28	403	10.0	mg/kg	400		101	78-132	0.188	18	
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	41-142			
Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.6	37.6-147			

**Batch 8042701 - General Prep - Organics****Blank (8042701-BLK1)**

Prepared &amp; Analyzed: 27-Apr-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	41-142			
Surrogate: 1-Chlorooctadecane	40.8		mg/kg	50.0		81.5	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8042701 - General Prep - Organics****LCS (8042701-BS1)**

Prepared &amp; Analyzed: 27-Apr-18

GRO C6-C10	208	10.0	mg/kg	200		104	76.5-133			
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138			
Total TPH C6-C28	412	10.0	mg/kg	400		103	78-132			
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.1	41-142			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0		91.3	37.6-147			

**LCS Dup (8042701-BS1)**

Prepared &amp; Analyzed: 27-Apr-18

GRO C6-C10	209	10.0	mg/kg	200		104	76.5-133	0.405	20.6	
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138	0.173	20.6	
Total TPH C6-C28	413	10.0	mg/kg	400		103	78-132	0.290	18	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	41-142			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0		91.1	37.6-147			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

COG OPERATING  
P. O. BOX 1630  
ARTESIA NM, 88210

Project: WILD COBRA ST. SWD #001  
Project Number: NONE GIVEN  
Project Manager: SHELDON HITCHCOCK  
Fax To: NONE

Reported:  
03-May-18 14:59

**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B805025 - General Prep - Wet Chem****Blank (B805025-BLK1)**

Prepared &amp; Analyzed: 02-May-18

Chloride	ND	10.0	mg/kg wet							
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**LCS (B805025-BS1)**

Prepared &amp; Analyzed: 02-May-18

Chloride	233	10.0	mg/kg wet	250		93.0	85-115			
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**LCS Dup (B805025-BSD1)**

Prepared &amp; Analyzed: 02-May-18

Chloride	233	10.0	mg/kg wet	250		93.3	85-115	0.335	20	
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### 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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Concho Resources				<b>P.O. #:</b>				<b>BILL TO</b>				
<b>Project Manager:</b> Sheldon Hitchcock				<b>Company:</b> COG				<b>ANALYSIS REQUEST</b>				
<b>Address:</b> 2407 Pecos Avenue				<b>Attn:</b> Robert McNeill								
<b>City:</b> Artesia				<b>State:</b> NM				<b>Zip:</b> 88210				
<b>Phone #:</b> 575-703-6475				<b>Fax #:</b>								
<b>Project #:</b>				<b>Project Owner:</b> Concho								
<b>Project Name:</b> Wild Cabana St. SWD #001				<b>City:</b>				<b>State:</b>				
<b>Project Location:</b> Lea Co. NM				<b>Phone #:</b>				<b>Zip:</b>				
<b>Sampler Name:</b> S. Hitchcock				<b>Fax #:</b>								
FOR LAB USE ONLY												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
HSC01143												
1	T-1 0'	G-1	1	/	/	/	/	/	/	/	/	DATE TIME
2	T-1 1'	G-1	1	/	/	/	/	/	/	/	/	4/24/18 9:00
3	T-1 2'	G-1	1	/	/	/	/	/	/	/	/	9:05
4	T-1 3'	G-1	1	/	/	/	/	/	/	/	/	9:10
5	T-1 4'	G-1	1	/	/	/	/	/	/	/	/	9:15
												9:20
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												
<b>Relinquished By:</b>	<b>Date:</b> 4/25/18	<b>Received By:</b>	<b>Date:</b>									
<b>Relinquished By:</b> Sheldon Perin	<b>Time:</b>	<b>Received By:</b> Brittany Fell	<b>Time:</b>									
<b>Delivered By:</b> (Circle One)	<b>Sample Condition:</b>	<b>CHECKED BY:</b>										
Sampler - UPS - Bus - Other: 4.79¢/4.65¢	Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										
<b>REMARKS:</b>				TPH Extended 8015M								
				BTEx 8021b								
				Chlorides (see Remarks)								
				Chlorides CEPA 300 added								
				5/1/18								
<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Phone #:</b>								
<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Fax #:</b>								
STOP CI if ≤ 600 mg/lbs run EPA 300 on final sample												

# APPENDIX IV



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

Form C-141  
Revised April 3, 2017  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC

## 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.	432-683-7443
Facility Name:	Wild Cobra 1 State SWD #001	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	State
		API No.	30-025-40933

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	12	19S	34E					Lea

Latitude 32.672014 Longitude -103.50558

### NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	30 bbls PW	Volume Recovered:	0 bbls PW
Source of Release:	Flowline	Date and Hour of Occurrence:	12-11-2017 12:35 PM	Date and Hour of Discovery:	12-11-2017 12:35 PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Ms. Yu NMOCD/Ms. Groves NMSLO		
By Whom?	Sheldon Hitchcock	Date and Hour:	12-11-17 2:23 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

The release was caused by a damaged flowline and impacted the pasture adjacent to the lease road at the above referenced location. The damaged portion of the flowline has been replaced.

Describe Area Affected and Cleanup Action Taken.\*

This release occurred in the pasture. Concho will have the spill area evaluated for any possible impact from the release and will 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 the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dakota Neel		Approved by Environmental Specialist:	
Title: HSE Coordinator	Approval Date:	Expiration Date:	
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: December 14, 2017	Phone: 575-746-2010		

\* Attach Additional Sheets If Necessary

# **APPENDIX V**

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

Form C-141  
Revised April 3, 2017  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC

## 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.	432-683-7443
Facility Name:	Wild Cobra 1 State SWD #001	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	State
		API No.	30-025-40933

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	12	19S	34E					Lea

Latitude 32.672014 Longitude -103.50558

### NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	30 bbls PW	Volume Recovered:	0 bbls PW
Source of Release:	Flowline	Date and Hour of Occurrence:	12-11-2017 12:35 PM	Date and Hour of Discovery:	12-11-2017 12:35 PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Ms. Yu NMOCD/Ms. Groves NMSLO		
By Whom?	Sheldon Hitchcock	Date and Hour:	12-11-17 2:23 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

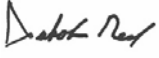

Describe Cause of Problem and Remedial Action Taken.\*

The release was caused by a damaged flowline and impacted the pasture adjacent to the lease road at the above referenced location. The damaged portion of the flowline has been replaced.

Describe Area Affected and Cleanup Action Taken.\*

This release occurred in the pasture. All remedial activities have been completed in accordance with the NMSLO and NMOCD approved workplan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dakota Neel		Approved by Environmental Specialist: 	
Title: HSE Coordinator	Approval Date: 11/23/2022	Expiration Date: n/a	
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: March 2, 2019 Phone: 575-746-2010	none		

\* Attach Additional Sheets If Necessary

**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  
  
Action 161189

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 161189
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	11/23/2022