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Remediation and Closure Report

Willow A State #003
API # 30-015-33371 * **2RP-4537**

Prepared For:

COG Operating, LLC
600 West Illinois Avenue
Midland TX, 79701

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

August 15, 2018

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Willow A State #003
API # 30-015-33371 * 2RP-4537

Dear Mr. Bratcher,

COG Operating, LLC (COG) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Willow A State #003 is located approximately Twenty-two (22) miles south of Carlsbad, New Mexico. The legal location for this release is Unit Letter J, Section 3, Township 25 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1589088 North and -104.0718384 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Upper Permian in age and is comprised of weathered gypsum and eolian deposits derived from sedimentary rock. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the nearest groundwater is 35' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene and 100 mg/kg for TPH. The NMOCD recommended guidelines for total chlorides is 600 mg/kg.

Incident Description

On December 20, 2017, a stuffing box began to leak after being serviced by a hot oiler. The release impacted the well pad and small portion of the pasture adjacent to the pad. A total of 5 barrels of produced water and 3 barrels oil was released. A vacuum truck was called in and a total of 2 barrels of produced water and 1 barrel of oil was recovered. A site map is presented in [Appendix I](#). A remediation work plan was generated by EnTech on April 12, 2018.

On July 31, 2018, Talon mobilized personnel to the site to begin remediation activities in accordance with the approved work plan. The impacted area was excavated to depth utilizing a backhoe. Confirmation samples were collected from the bottom of each excavation and sidewalls to ensure that all environmental impacts had been addressed.

See [Appendix III](#) for complete report of laboratory results.

Confirmation Soil Sampling Results

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT	Total TPH
S-1	2.0	--	23.5	--	--	--	--
S-2	3.5	--	34.1	--	--	--	--
S-3	3.5	--	29.5	--	--	--	--
S-4	3.5	--	25.8	--	--	--	--
S-5	North Sidewall 2.0	--	108	--	--	--	--
S-6	South Sidewall 3.5	--	<1.00	--	--	--	--
S-7	East Sidewall 3.5	--	30.9	--	--	--	--
S-8	West Sidewall 3.5	--	33.1	--	--	--	--

--Analyte Not Tested

Remedial Actions Taken:

- The impacted soil in the vicinity of S-1 was excavated to a depth of 2.0-feet deep.
- The impacted soil in the vicinity of S-2 through S-4 was excavated to a depth of 3.5-feet deep.
- All contaminated soil was transported to R360, a NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- A final C-141 is attached in [Appendix IV](#)

Closure

On behalf of COG, we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,
TALON/LPE



Jacob Laird
Environmental Scientist



David J. Adkins
District Manager

Attachments:

Appendix I Site Plan
Appendix II Groundwater Data & Initial C-141
Appendix III Laboratory Results
Appendix IV Final C-141

APPENDIX I

SITE PLAN

COG Operating

Willow A State #003
Eddy County, NM

Legend

- Impacted Area
- Sample Locations



100 ft

Google Earth

© 2018 Google



APPENDIX II
GROUNDWATER DATA
INITIAL C-141



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>C 01411</u>		C	ED	4	4	2	04	25S	28E	586289	3558522*	1235	69	35	34
<u>C 02668</u>		C	ED	2	1	2	09	25S	28E	585890	3557525*	1863	150		

Average Depth to Water: 35 feet

Minimum Depth: 35 feet

Maximum Depth: 35 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 587520.42

Northing (Y): 3558427.97

Radius: 2500

*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.

8/14/18 8:06 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

NM OIL CONSERVATION

ARTESIA DISTRICT

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

DEC 22 2017

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
RECEIVED accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1736141208

OPERATOR		☒ Initial Report	☐ Final Report
Name of Company: COG Operating, LLC (OGRID# 229137)		Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701		Telephone No.: 432-683-7443	
Facility Name: Willow A State #003		Facility Type: Battery	
Surface Owner: State		Mineral Owner: State	
		API No.: 30-015-33371	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	3	25S	28E	2570	South	1650	East	Eddy

Latitude: 32.1589088 Longitude: -104.0718384 NAD83

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls PW; 3 bbls Oil	Volume Recovered: 2 bbls PW; 1 bbls Oil
Source of Release: Wellhead	Date and Hour of Occurrence: 12/20/2017 1:30 pm	Date and Hour of Discovery: 12/20/2017 1:30 pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
This release was caused by a stuffing box leak after being serviced by a hot oiler. The stuffing box will be repacked and an environmental pot will be installed on the wellhead.		
Describe Area Affected and Cleanup Action Taken.*		
The release impacted the well pad and a small portion of the adjacent pasture. A vacuum truck was dispatched to recover all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 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: <i>Dakota Neel</i>		OIL CONSERVATION DIVISION
Printed Name: Dakota Neel		Approved by Environmental Specialist:
Title: HSE Coordinator	Approval Date: 12/26/17	Expiration Date: N/A
E-mail Address dneel2@concho.com	Conditions of Approval:	Attached ☒
Date: 12/22/2017	Phone: 575-746-2010	See attached
		ARP-4537

* Attach Additional Sheets If Necessary

12/22/17 AB

APPENDIX III

LABORATORY DATA

Analytical Report 595260

for
Talon LPE

Project Manager: David Adkins

Willow A State #003

700778.106.01

10-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



10-AUG-18

Project Manager: **David Adkins**

Talon LPE

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **595260**

Willow A State #003

Project Address:

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595260. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 595260 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 595260



Talon LPE, Artesia, NM

Willow A State #003

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 2.0'	S	08-08-18 08:00	2 ft	595260-001
S-2 3.5'	S	08-08-18 08:02	3.5 ft	595260-002
S-3 3.5'	S	08-08-18 08:04	3.3 ft	595260-003
S-4 3.5'	S	08-08-18 08:06	3.5 ft	595260-004
S-5 North Sidewall 2.0'	S	08-08-18 08:08	2 ft	595260-005
S-6 South Sidewall 3.5'	S	08-08-18 08:10	3.5 ft	595260-006
S-7 East Sidewall 3.5'	S	08-08-18 08:12	3.5 ft	595260-007
S-8 West Sidewall 3.5'	S	08-08-18 08:14	3.5 ft	595260-008



CASE NARRATIVE

Client Name: Talon LPE

Project Name: Willow A State #003

Project ID: 700778.106.01
Work Order Number(s): 595260

Report Date: 10-AUG-18
Date Received: 08/09/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 595260

Talon LPE, Artesia, NM

Project Name: Willow A State #003

Project Id: 700778.106.01

Contact: David Adkins

Project Location:

Date Received in Lab: Thu Aug-09-18 01:20 pm

Report Date: 10-AUG-18

Project Manager: Kelsey Brooks



<i>Analysis Requested</i>	<i>Lab Id:</i>	595260-001	595260-002	595260-003	595260-004	595260-005	595260-006
	<i>Field Id:</i>	S-1 2.0'	S-2 3.5'	S-3 3.5'	S-4 3.5'	S-5 North Sidewall 2.0'	S-6 South Sidewall 3.5'
	<i>Depth:</i>	2- ft	3.5- ft	3.3- ft	3.5- ft	2- ft	3.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Aug-08-18 08:00	Aug-08-18 08:02	Aug-08-18 08:04	Aug-08-18 08:06	Aug-08-18 08:08	Aug-08-18 08:10
Chloride by EPA 300	<i>Extracted:</i>	Aug-09-18 16:00	Aug-09-18 16:00	Aug-09-18 16:00	Aug-09-18 16:00	Aug-09-18 16:00	Aug-09-18 16:00
	<i>Analyzed:</i>	Aug-09-18 20:53	Aug-09-18 21:00	Aug-09-18 21:06	Aug-09-18 21:13	Aug-09-18 21:33	Aug-09-18 20:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23.5 10.0	34.1 10.0	29.5 10.0	25.8 10.0	108 10.0	<1.00 1.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Project Id: 700778.106.01
Contact: David Adkins
Project Location:

Certificate of Analysis Summary 595260

Talon LPE, Artesia, NM
Project Name: Willow A State #003



Date Received in Lab: Thu Aug-09-18 01:20 pm
Report Date: 10-AUG-18
Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	595260-007	595260-008			
	Field Id:	S-7 East Sidewall 3.5'	S-8 West Sidewall 3.5'			
	Depth:	3.5- ft	3.5- ft			
	Matrix:	SOIL	SOIL			
	Sampled:	Aug-08-18 08:12	Aug-08-18 08:14			
Chloride by EPA 300	Extracted:	Aug-09-18 16:00	Aug-09-18 16:00			
	Analyzed:	Aug-09-18 21:40	Aug-09-18 21:46			
	Units/RL:	mg/kg RL	mg/kg RL			
Chloride		30.9 10.0	33.1 10.0			

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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



BS / BSD Recoveries



Project Name: Willow A State #003

Work Order #: 595260

Analyst: OJS

Lab Batch ID: 3059574

Units: mg/kg

Date Prepared: 08/09/2018

Batch #: 1

Sample: 7660142-1-BKS

Project ID: 700778.106.01

Date Analyzed: 08/09/2018

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY														
Units:	mg/kg	Chloride by EPA 300	Analytes	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
				[A]	[B]	[C]	[D]	[E]	[F]	[G]				
			Chloride	<1.00	50.0	54.2	108	50.0	52.6	105	3	90-110	20	

Relative Percent Difference $RPD = 200 * [(C-F)/(C+F)]$
Blank Spike Recovery $[D] = 100 * (C)/[B]$
Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Willow A State #003



Work Order #: 595260

Lab Batch ID: 3059574

Date Analyzed: 08/09/2018

Reporting Units: mg/kg

Project ID: 700778.106.01

QC- Sample ID: 594985-024 S Batch #: 1 Matrix: Soil

Date Prepared: 08/09/2018 Analyst: OJS

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	201	50.0	242	82	50.0	244	86	1	90-110	20	X

Lab Batch ID: 3059574

Date Analyzed: 08/09/2018

Reporting Units: mg/kg

QC- Sample ID: 595260-006 S Batch #: 1 Matrix: Soil

Date Prepared: 08/09/2018 Analyst: OJS

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<1.00	50.0	51.0	102	50.0	51.0	102	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Chain of Custody

Work Order No: S952100

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1298
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

www.xenco.com Page of

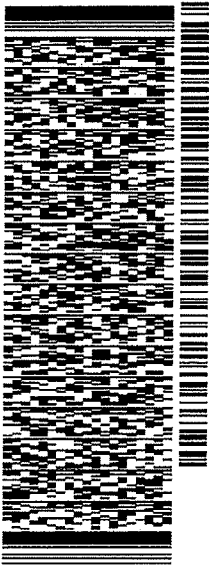
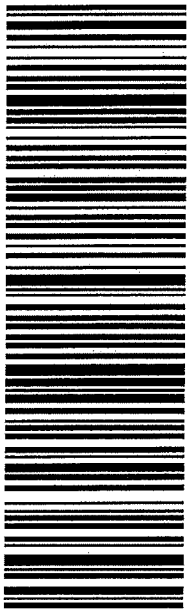
Project Manager:	David Adkins	Bill to: (if different)	Sheldon Hitchcock
Company Name:	Talon LPE	Company Name:	COG
Address:	408 West Texas Ave	Address:	2208 West Main
City, State ZIP:	Artesia, NM, 88210	City, State ZIP:	Artesia, NM 88210
Phone:	575-746-8768	Email:	dadkins@talonlpe.com slhitchcock@concho.com
Project Name:	Willow A State #003	Turn Around	☐ Routine ☐ Rush: Yes
Project Number:	700778, 106.01	Due Date:	
P.O. Number:			
Sampler's Name:	Jacob Laird		
SAMPLE RECEIPT			
Temperature (°C):	0.9 / 0.5	Temp Blank:	Yes ☒ No ☐
Received In tact:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:	0.0
Sample Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:	4

Project Name:		Willow A State #003		Turn Around		ANALYSIS REQUEST												Work Order Notes							
Project Number:		700778, 106.01		Routine ☐																					
P.O. Number:				Rush: Yes																					
Sampler's Name:		Jacob Laird		Due Date:																					
SAMPLE RECEIPT				Temp Blank:		Yes ☒ No		Wet Ice:		Yes ☒ No												TAT starts the day received by the lab, if received by 4:30pm		Sample Comments	
Temperature (°C):		0.9/0.5		Thermometer ID																					
Received Intact:		Yes ☒ No																							
Cooler Custody Seals:		Yes ☒ No N/A		Correction Factor:																					
Sample Custody Seals:		Yes No ☒ N/A		Total Containers:																					
Sample Identification				Matrix		Date Sampled		Time Sampled		Depth		Number of Containers													
				S-1 2.0'		Soil		8/8/2018		8:00				1										X	
				S-2 3.5'		Soil		8/8/2018		8:02				1										X	
				S-3 3.5'		Soil		8/8/2018		8:04				1										X	
				S-4 3.5'		Soil		8/8/2018		8:06				1										X	
				S-5 North Sidewall 2.0'		Soil		8/8/2018		8:08				1										X	
				S-6 South Sidewall 3.5'		Soil		8/8/2018		8:10				1										X	
				S-7 East Sidewall 3.5'		Soil		8/8/2018		8:12				1										X	
				S-8 West Sidewall 3.5		Soil		8/8/2018		8:14				1										X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Jacob Laird</i>	<i>Egr (Seal)</i>	8/8/1435	<i>Esperanza</i>	<i>Mauro Gomez</i>	8.9.18 13:20

ORIGIN ID:MAFA (806) 794-1296 XENCO XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US		SHIP DATE: 08AUG18 ACTWGT: 32.00 LB CAD: 101813706/NET4040 DIMS: 20x11x16 IN BILL RECIPIENT
TO XENCO XENCO 1211 W. FLORIDA AVE		
MIDLAND TX 79701 REF: (806) 794-1296 PO: INV: DEPT:		
		
		
TRK# 7729 3116 7531 0201	THU - 09 AUG 3:00P STANDARD OVERNIGHT	
41 MAFA TX-US LBB 79701		

552J11/3309/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 08/09/2018 01:20:00 PM

Work Order #: 595260

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Gomez

Date: 08/09/2018

Checklist reviewed by:

Kelsey Brooks

Date: 08/10/2018

APPENDIX IV

FINAL 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
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 (OGRID# 229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Willow A State #003	Facility Type: Battery

Surface Owner: State	Mineral Owner: State	API No. 30-015-33371
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LOCATION OF RELEASE

Unit Letter J	Section 3	Township 25S	Range 28E	Feet from the 2570	North/South Line South	Feet from the 1650	East/West Line East	County Eddy
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Latitude 32.1589088 Longitude -104.0718384 NAD83

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls PW; 3bbls oil	Volume Recovered: 2 bbls PW; 1bbls Oil
Source of Release: Wellhead	Date and Hour of Occurrence 12/20/2017 1:30 pm	Date and Hour of Discovery 12/20/2017 1:30 pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* This release was caused by a stuffing box leak after being serviced by a hot oiler. The stuffing box was repacked and an environmental pot was installed on the wellhead.		
Describe Area Affected and Cleanup Action Taken.* Remediation activities were conducted pursuant to a NMOCD approved work plan. The impacted soil was excavated to varying depths as specified in the work plan. All contaminated soil was transported to R360, a NMOCD approved disposal facility. The excavated area was backfilled with clean caliche and contoured to match the surrounding location. No further actions are required.		
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.		

OIL CONSERVATION DIVISION

Signature: <i>Sheldon Hitchcock</i>	Approved by Environmental Specialist:	
Printed Name: Sheldon Hitchcock		
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval:	Attached ☐
Date: 8/21/18	Phone: 575-748-0233	

* Attach Additional Sheets If Necessary