



Lupe Carrasco
Environmental Coordinator

November 11, 2014

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: Willow State #4
30-015-32844
Sec. 16, T17S-R31E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to request closure for the above captioned well. The closure report is in response to the C-141 Initial report dated October 2, 2014.

The release was due to a broken quarter inch nipple caused by a cow rubbing up against the wellhead. The release consisted of 7 barrels of oil and 3 barrels of produced water of which 7 barrels of oil and 3 barrels of produced water were recovered. The incident occurred during a rain storm event in which the location and a portion of the pasture on the east side of the location were misted by the released. Due to rainwater runoff, a small amount of oil was carried off location and onto a small pooling area in the pasture leaving behind traces of oil on the surface. The initial cleanup involved the application of Microblaze® to the affected pasture and back dragging the location.

The release area was sampled at depths of 1', 2', and 3' for S1 and S3. S2 was sampled to a depth of 1'. Sample results show TPH and BTEX levels to be non-detect for all sample points with low chloride results for the pad area. A copy of the Analytical Results along with a Site Diagram and Sample Summary Table are attached for your consideration.

A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lupe Carrasco".

Lupe Carrasco
Environmental Coordinator

NMOCD

November 11, 2014

Page 2

Enclosure(s): Site Diagram
Analytical Results
C-141 Initial (Copy)
C-141 Final

Willow State #4

October 27, 2014

Sec. 16, T17S-R31E

Legend

32.830598,-103.86722

S2
S1
Mist Area

S3
Rainwater
Runoff

S1	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	560
2'	ND	ND	ND	ND	240
3'					192
S2	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	ND
S3	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	ND
2'	ND	ND	ND	ND	ND
3'					ND



Google earth

© 2014 Google



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

November 06, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WILLOW STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 10/31/14 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/31/2014
Reported: 11/06/2014
Project Name: WILLOW STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H403371-01)
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	11/05/2014	ND	1.95	97.6	2.00	4.89	
Toluene*	<0.050	0.050	11/05/2014	ND	1.87	93.4	2.00	4.63	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.83	91.7	2.00	4.50	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.47	91.2	6.00	4.92	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	185	92.4	200	1.65	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	179	89.5	200	9.13	

Surrogate: 1-Chlorooctane 99.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/31/2014
Reported: 11/06/2014
Project Name: WILLOW STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-2' (H403371-02)
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	11/05/2014	ND	1.95	97.6	2.00	4.89	
Toluene*	<0.050	0.050	11/05/2014	ND	1.87	93.4	2.00	4.63	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.83	91.7	2.00	4.50	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.47	91.2	6.00	4.92	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	185	92.4	200	1.65	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	179	89.5	200	9.13	

Surrogate: 1-Chlorooctane 99.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

Sample ID: S1-3' (H403371-03)
Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/04/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/31/2014
Reported: 11/06/2014
Project Name: WILLOW STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H403371-04)
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	11/05/2014	ND	1.95	97.6	2.00	4.89	
Toluene*	<0.050	0.050	11/05/2014	ND	1.87	93.4	2.00	4.63	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.83	91.7	2.00	4.50	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.47	91.2	6.00	4.92	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	185	92.4	200	1.65	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	179	89.5	200	9.13	

Surrogate: 1-Chlorooctane 96.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/31/2014
Reported: 11/06/2014
Project Name: WILLOW STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-1' (H403371-05)

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	11/05/2014	ND	1.95	97.6	2.00	4.89	
Toluene*	<0.050	0.050	11/05/2014	ND	1.87	93.4	2.00	4.63	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.83	91.7	2.00	4.50	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.47	91.2	6.00	4.92	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	185	92.4	200	1.65	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	179	89.5	200	9.13	

Surrogate: 1-Chlorooctane 95.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/31/2014
Reported: 11/06/2014
Project Name: WILLOW STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-2' (H403371-06)
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	11/05/2014	ND	1.95	97.6	2.00	4.89	
Toluene*	<0.050	0.050	11/05/2014	ND	1.87	93.4	2.00	4.63	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.83	91.7	2.00	4.50	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.47	91.2	6.00	4.92	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2014	ND	185	92.4	200	1.65	
DRO >C10-C28	<10.0	10.0	11/04/2014	ND	179	89.5	200	9.13	

Surrogate: 1-Chlorooctane 93.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.4 % 52.1-176

Sample ID: S3-3' (H403371-07)
Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



BILL TO

ANALYSIS REQUEST

[illegible]

100

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 August 8, 2011

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. 432-230-0077	
Facility Name: Willow State #4	Facility Type: Well	
Surface Owner: State	Mineral Owner: State	API No. 30-015-21844

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	17S	31E	1190'	South	330'	East	Eddy

Latitude 32.8305986298119 Longitude -103.867227754648

NATURE OF RELEASE

Type of Release: Oil and PW	Volume of Release: 7 bbls Oil ; 7 bbls PW	Volume Recovered: 3 bbls Oil ; 3 bbls PW
Source of Release: Wellhead	Date and Hour of Occurrence: 9/23/2014 7:00 am	Date and Hour of Discovery: 9/23/2014 7:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A quarter inch nipple was broken off the wellhead by a cow rubbing up against the wellhead. A vacuum truck was dispatched to recover any standing fluid and the location was scraped.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 100'x400', the area was scraped and treated with Microblaze. Concho will have the spill site sampled to delineate any possible contamination from the release and we 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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Amanda Trujillo

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: atrujillo@concho.com

Conditions of Approval:

Attached ☐

Date: October 2, 2014 Phone: 575-748-6940

* Attach Additional Sheets If Necessary

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 August 8, 2011

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. 432-230-0077
Facility Name: Willow State #4	Facility Type: Well

Surface Owner: State	Mineral Owner: State	API No. 30-015-21844
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LOCATION OF RELEASE

Unit Letter P	Section 16	Township 17S	Range 31E	Feet from the 1190'	North/South Line South	Feet from the 330'	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	------------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.8305986298119 Longitude -103.867227754648

NATURE OF RELEASE

Type of Release: Oil and PW	Volume of Release: 7 bbls Oil ; 7 bbls PW	Volume Recovered: 3 bbls Oil ; 3 bbls PW
Source of Release: Wellhead	Date and Hour of Occurrence: 9/23/2014 7:00 am	Date and Hour of Discovery: 9/23/2014 7:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A quarter inch nipple was broken off the wellhead by a cow rubbing up against the wellhead. A vacuum truck was dispatched to recover any standing fluid and the location was scraped.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 100'x400', the area was scraped and treated with Microblaze. Concho will have the spill site sampled to delineate any possible contamination from the release and we 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: 	OIL CONSERVATION DIVISION		
Printed Name: Lupe Carrasco	Approved by Environmental Specialist:		
Title: Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: gcarrasco@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: November 11, 2014	Phone: 575-748-6940		

* Attach Additional Sheets If Necessary