



[Dakota Neel]
[HSE Coordinator]

November 15, 2017

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

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

Re: Closure Letter
Showstopper 7 Federal Com #001H (2RP-3802)
API #: 30-015-36559
Unit Letter A Section 7, Township 25S, Range 29E
Eddy County, NM

Mr. Bratcher/Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the Showstopper 7 Federal Com #001H. This release occurred on July 16, 2016 and impacted the pasture. All work has been completed in accordance with the work plan submitted and approved by the New Mexico Oil Conservation Division (NMOCD) on November 21, 2016.

Background

On July 16, 2016, a poly flowline ruptured and released approximately twenty (20) barrels of produced water of which zero (0) were recovered.

Remedial Actions

- BH-2 - Excavated to a depth of 6-7 feet.
- BH-3 - Excavated to a depth of 6-7 feet.

All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility. The excavation was backfilled with like material, contoured to match the surrounding terrain and reseeded.

December 7, 2017

Closure Request

Based on the information provided, COG Operating LLC would like to submit the enclosed documents for closure of the above captioned release. A signed C-141 Final is enclosed for your consideration.

Please feel free to contact me with any questions or concerns at (575) 746-2010.

Sincerely,



Dakota Neel
HSE Coordinator
dneel2@concho1.com

Enclosed:

- (1) Site Diagram
- (2) Laboratory Analytical Reports and Chain-of-Custody Forms
- (3) Initial C-141 (Copy)
- (4) 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 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. 432-683-7443
Facility Name: SHOWSTOPPER 7 FEDERAL COM #001H	Facility Type: Well
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-36559	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	7	25S	29E	330'	North	480'	East	Eddy

Latitude/Longitude 32.1511154,-104.0167618

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls PW	Volume Recovered: 0 bbls PW
Source of Release: Poly Flowline Leak	Date and Hour of Occurrence: 7/16/2016, unknown	Date and Hour of Discovery: 7/16/2016 8:00 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 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.*

This release was caused by a ruptured poly flowline. Although a vacuum truck was dispatched, due to the hot weather no fluid was recoverable.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture along the road in section 8. It impacted approximately 3500 sq ft. Concho had the spill site sampled to delineate any possible impact from the release and presented a remediation work plan to the NMOCD and BLM for approval prior to any significant remediation work. All work has been completed according to the workplan approved by the NMOCD on November 21, 2016.

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>Dakota Neel</i>	Approved by Environmental Specialist: <i>Ashley Maxwell</i>	
Printed Name: Dakota Neel	Approval Date: 12/1/2022	Expiration Date:
Title: HSE Coordinator	Conditions of Approval:	
E-mail Address: dneel2@concho.com	Attached <input type="checkbox"/>	
Date: November 15, 2017	Phone: 575-746-2010	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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. 432-683-7443
Facility Name: SHOWSTOPPER 7 FEDERAL COM #001H	Facility Type: Well

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-36559
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LOCATION OF RELEASE

Unit Letter A	Section 7	Township 25S	Range 29E	Feet from the 330'	North/South Line North	Feet from the 480'	East/West Line East	County Eddy
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Latitude/Longitude 32.1511154,-104.0167618

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls PW	Volume Recovered: 0 bbls PW
Source of Release: Poly Flowline Leak	Date and Hour of Occurrence: 7/16/2016, unknown	Date and Hour of Discovery: 7/16/2016 8:00 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 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.*

This release was caused by a ruptured poly flowline. Although a vacuum truck was dispatched, due to the hot weather no fluid was recoverable.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture along the road in section 8. It impacted approximately 3500 sq ft. 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: <i>Amanda T. Davis</i>	OIL CONSERVATION DIVISION	
Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: atrujillo@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 22, 2016 Phone: 575-748-6940		

* Attach Additional Sheets If Necessary



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

August 19, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SHOWSTOPPER 7 FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/16/16 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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



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

Analytical Results For:

COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received: 08/16/2016
 Reported: 08/19/2016
 Project Name: SHOWSTOPPER 7 FED COM #1H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-1 (0-1') (H601832-01)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane 84.4 % 35-147

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received:	08/16/2016	Sampling Date:	08/15/2016
Reported:	08/19/2016	Sampling Type:	Soil
Project Name:	SHOWSTOPPER 7 FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-1 (1-1.5') (H601832-02)

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	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate 1-Chlorooctane 84.8 % 35-147

Surrogate 1-Chlorooctadecane 95.3 % 28-171

Sample ID: AH-1 (2-2.5') (H601832-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/18/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received: 08/16/2016
 Reported: 08/19/2016
 Project Name: SHOWSTOPPER 7 FED COM #1H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-1 (3-3.5') (H601832-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-1 (4-4.5') (H601832-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/18/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	08/16/2016	Sampling Date:	08/15/2016
Reported:	08/19/2016	Sampling Type:	Soil
Project Name:	SHOWSTOPPER 7 FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-2 (0-1') (H601832-06)

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	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTX	<0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane 93.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received: 08/16/2016
 Reported: 08/19/2016
 Project Name: SHOWSTOPPER 7 FED COM #1H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-2 (1-1.5') (H601832-07)

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	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane 94.2 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

Sample ID: AH-2 (2-2.5') (H601832-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/18/2016	ND	400	100	400	0.00	

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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
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received: 08/16/2016
 Reported: 08/19/2016
 Project Name: SHOWSTOPPER 7 FED COM #1H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-2 (3-3.5') (H601832-09)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-3 (0-1') (H601832-10)

BTEX 80218 mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 73.6-140

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane 87.2 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 08/16/2016
Reported: 08/19/2016
Project Name: SHOWSTOPPER 7 FED COM #1H
Project Number: NONE GIVEN
Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-3 (1-1.5') (H601832-11)

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	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/18/2016	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	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Sample ID: AH-3 (2-2.5') (H601832-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	08/18/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

Received: 08/16/2016
 Reported: 08/19/2016
 Project Name: SHOWSTOPPER 7 FED COM #1H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

Sampling Date: 08/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-3 (3-3.5') (H601832-13)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (0-1') (H601832-14)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (1-1.5') (H601832-15)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (2-2.5') (H601832-16)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/18/2016	ND	400	100	400	0.00	

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Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



TETRA TECH

**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946**

H1001832

CLIENT NAME:

CO6

SITE MANAGER:

MANAGER: Adrian Garcia

PROJECT NO: 2005-

PROJECT NAME:

SUBJECT NAME: COG-Shawshog 7 Fed Con #114

LAB I.D.

DATE _____

ONE

MATRIX
COMP.
GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO₃

ICE

NONE

BTX 8024

TEL 8018 MOD TX1005 (Ext. to C35)

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg So

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8240/8260/624

GC,MS Semi. Vo

PCB's 8080/808

Fest. 808/808

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

PAGE 1 OF 3

ANALYSIS REQUEST
(Circle or Specify Method No.)

Page 12 of 12

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4569 • Fax (432) 682-3946

CLIENT NAME: **COLA**

SITE MANAGER: **Adrian Garcia**

PROJECT NO: **00c-111-0605**

PROJECT NAME: **COLA - Shaunder 7 Fed Con #14**

DATE: **8/15/16**

TIME: **11:15**

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD			
									HCL	HNO3	ICE	NONE
11	8/15					AA-3 (1-1.5')	1		X			
12	8/15					(2-2.5')	1		X			
13	8/16					(3-3.5')	1		X			
14	8/15					AA-4 Background (0-1)	1		X			
15	8/15					(1-1.5')	1		X			
16	8/15					(2-2.5')	1		X			

RELINQUISHED BY: **Adrian Garcia**

RELINQUISHED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE: **8/16/16**

TIME: **11:15**

RECEIVED BY: **Adrian Garcia**

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

DATE: **8/16/16**

TIME: **11:15**

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DATE: **8/16/16**

TIME: **11:15**

RECEIVED BY:

Physense fill out all coolies - Laboratory retains Yellow copy - Return Original copy to Tatra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

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 162936

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 162936
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/1/2022