



[Dakota Neel]
[HSE Coordinator]

November 2, 2017

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

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

Re: Closure Letter
ADMIRAL FEDERAL COM #002H (2RP-3986)
API #: 30-015-42820
Unit Letter O, Section 28, Township 25S, Range 29E
Eddy County, NM

Mr. Bratcher / Ms. Price,

COG Operating, LLC (COG), is pleased to submit for your consideration the following closure request for the ADMIRAL FEDERAL COM #002H. This request is in response to an oil release that occurred on November 6, 2016. A C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) on November 11, 2016.

BACKGROUND

On November 16, 2016, the dump valve on the inlet separator failed causing oil to go to the flare. This event resulted in the release of twenty (20) barrels of oil. Vacuum trucks were dispatched and recovered fifteen (15) barrels of oil for a total net loss of five (5) bbls of oil. The release remained on the well pad location and a light overspray impacted the reclaimed portion of the location. After the free standing fluids were recovered, a crew performed a surface scrape of the impacted areas on the location. The impacted material was then hauled to a New Mexico Oil Conservation Division (NMOCD) approved disposal facility.

SOIL ASSESSMENT

On December 13, 2016, COG personnel were on site to evaluate and sample the release area. Seven (7) sample trenches were installed in the release area at various depths below ground surface (BGS). Referring to the attached table, all of the samples collected showed benzene and total BTEX concentrations below the laboratory reporting limit. Additionally, none of the samples showed significant chloride impact.

November 2, 2017

GROUNDWATER AND SITE RANKING

A groundwater database maintained by the New Mexico State Engineer (NMOSE) did not identify and registered water wells in Section 28, Township 25S, Range 29E. The Chevron Texaco Groundwater Trend Map utilized by the NMOCD Artesia District Office, indicates depth to groundwater is approximately 125 feet bgs. No water wells or surface water was observed within 1,000 feet of the release site. Based on the NMOCD ranking criteria, the release area would be classified at a site ranking of zero (0).

WORKPLAN

Based on the information provided, COG Operating, LLC has found no impact from the release and would like to submit the enclosed documents for closure of this site. 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@conchol.com

Enclosed:

- (1) Site Diagram
- (2) Analytical Results
- (3) C-141 Initial (Copy)
- (4) C-141 Final

November 2, 2017

Admiral Federal COM Battery 11/6/16					
DTW per CTM >125'					
O-28-25S-29E					
Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	TPH mg/Kg
			10	50	5,000
T1 - Surface	12/13/2016	48.0	<0.050	<0.300	<10.0
T1 - 1'	12/13/2016	32.0	-	-	-
T1 - 2'	12/13/2016	32.0	-	-	-
T1 - 3'	12/13/2016	48.0	-	-	-
T1 - 4'	12/13/2016	192	-	-	-
T1 - 5'	12/13/2016	256	-	-	-
T1 - 7'	12/13/2016	208	-	-	-
T1 - 8'	12/13/2016	160	-	-	-
T2 - Surface	12/13/2016	128	<0.050	<0.300	<10.0
T2 - 1'	12/13/2016	64.0	-	-	-
T2 - 2'	12/13/2016	224	-	-	-
T2 - 3'	12/13/2016	176	-	-	-
T2 - 4'	12/13/2016	96.0	-	-	-
T2 - 5'	12/13/2016	256	-	-	-
T2 - 6'	12/13/2016	144	-	-	-
T2 - 8'	12/13/2016	240	-	-	-
T2 - 9'	12/13/2016	256	-	-	-
T2 - 10'	12/13/2016	304	-	-	-
T3 - Surface	12/13/2016	288	<0.050	<0.300	126
T3 - 1'	12/13/2016	32.0	-	-	-
T3 - 2'	12/13/2016	128	-	-	-
T4 - Surface	12/13/2016	48.0	<0.050	<0.300	61.1
T4 - 1'	12/13/2016	16.0	-	-	-
T4 - 2'	12/13/2016	320	-	-	-
T4 - 4'	12/13/2016	304	-	-	-
T4 - 6'	12/13/2016	320	-	-	-
T5 - Surface	12/13/2016	256	<0.050	<0.300	1,010
T5 - 1'	12/13/2016	48.0	-	-	-
T5 - 3'	12/13/2016	128	-	-	-
T5 - 4'	12/13/2016	208	-	-	-
T6 - Surface	12/13/2016	32.0	<0.050	<0.300	<10.0
T6 - 1'	12/13/2016	16.0	-	-	-
T6 - 2'	12/13/2016	<16.0	-	-	-
T6 - 4'	12/13/2016	<16.0	-	-	-
T7 - Surface	12/13/2016	16.0	<0.050	<0.300	<10.0
T7 - 1'	12/13/2016	32.0	-	-	-

Admiral Federal Com #2H

Site Diagram

Admiral Federal Com #2H

(2RP-3988)
API #: 30-015-42820
Unit Letter O, Section 28, Township 25S,
Range 28E
Eddy County, NM

Legend

- AOI
- Features
- Reclaimed
- Sample Points
- Tank Battery
- Well Pad



200 ft



Page 5 of 27
Received by OGD: 11/10/2022 12:33:14 PM
Released to Imaging: 11/10/2022 12:36:28 PM

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: ADMIRAL FEDERAL COM #002H	Facility Type: Battery	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42480

LOCATION OF RELEASE

Unit Letter O	Section 28	Township 25S	Range 29E	Feet from the 190	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
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32.0940460962434,-103.9871068537

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls of Oil	Volume Recovered: 15 bbls of Oil
Source of Release: Valve Failure	Date and Hour of Occurrence: 11/6/2016 unknown	Date and Hour of Discovery: 11/6/2016 8:00 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" 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.*

The release was caused when the dump valve on the inlet separator failed causing oil to go to the flare. The dump valve was replaced. Vacuum trucks were immediately dispatched to recover all standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release occurred on the well pad location and overspray went into the reclaimed portion of the pad. Free standing fluids were removed via vacuum truck and microblaze was applied to impacted vegetation. Concho had the spill site sampled to delineate any possible impact from the release. Analytical results showed no impact from the release.

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: Dakota Neel	Approved by Environmental Specialist: 		
Title: HSE Coordinator	Approval Date: 11/10/2022	Expiration Date:	
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: November 2, 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
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: ADMIRAL FEDERAL COM #002H	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42820
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LOCATION OF RELEASE

Unit Letter O	Section 28	Township 25S	Range 29E	Feet from the 190	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
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32.0940460962434,-103.9871068537

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls of Oil	Volume Recovered: 15 bbls of Oil
Source of Release: Valve Failure	Date and Hour of Occurrence: 11/6/2016 Unknown	Date and Hour of Discovery: 11/6/2016 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.*


The release was caused when the dump valve on the inlet separator failed causing oil to go to the flare. The dump valve was replaced. Vacuum trucks were immediately dispatched to recover all standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release occurred on the well pad location and overspray went into the pasture. Free standing fluids were removed via vacuum truck and microblaze was applied to impacted vegetation and soil in the pasture. Concho will have the spill site sampled to determine the impact 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: 	Approved by Environmental Specialist:	
Printed Name: Dakota Neel	Approval Date:	Expiration Date:
Title: Environmental Coordinator	Conditions of Approval:	
E-mail Address: dneel2@concho.com	Attached <input type="checkbox"/>	
Date: November 11, 2016 Phone: 575-748-6933		

* Attach Additional Sheets If Necessary



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

December 20, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: ADMIRAL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 12/14/16 15:40.

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: 12/14/2016
Reported: 12/20/2016
Project Name: ADMIRAL FED #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/13/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: T1 - SURFACE (H602805-01)

BTX 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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTX	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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	48.0	16.0	12/17/2016	ND	416	104	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	12/16/2016	ND	199	99.5	200	3.62	
DRO >C10-C28	<10.0	10.0	12/16/2016	ND	207	104	200	8.84	

Surrogate: 1-Chlorooctane 84.8 % 35-147

Surrogate: 1-Chlorooctadecane 93.8 % 28-171

Sample ID: T1 - 1' (H602805-02)

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	12/17/2016	ND	416	104	400	3.77	

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: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T1 - 2' (H602805-03)

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	12/17/2016	ND	416	104	400	3.77		

Sample ID: T1 - 3' (H602805-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/17/2016	ND	416	104	400	3.77	

Sample ID: T1 - 4' (H602805-05)

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	12/17/2016	ND	416	104	400	3.77	

Sample ID: T1 - 5' (H602805-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/17/2016	ND	416	104	400	3.77	

Sample ID: T1 - 7' (H602805-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/17/2016	ND	416	104	400	3.77	

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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: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T1 - 8' (H602805-08)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/19/2016	ND	416	104	400	3.77	

Sample ID: T2 - SURFACE (H602805-09)**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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEX	<0.300	0.300	12/16/2016	ND					

*Surrogate 4-Bromofluorobenzene (PIC) 121 % 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	128	16.0	12/19/2016	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	12/15/2016	ND	183	91.6	200	2.70	
DRO >C10-C28	<10.0	10.0	12/15/2016	ND	197	98.6	200	0.173	

*Surrogate 1-Chlorooctane 86.5 % 35-147**Surrogate 1-Chlorooctadecane 88.1 % 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: 12/14/2016
Reported: 12/20/2016
Project Name: ADMIRAL FED #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/13/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: T2 - 1' (H602805-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 2' (H602805-11)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 3' (H602805-12)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 4' (H602805-13)

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	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 5' (H602805-14)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/19/2016	ND	432	108	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T2 - 6' (H602805-15)

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	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 8' (H602805-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/19/2016	ND	432	108	400	3.77		

Sample ID: T2 - 9' (H602805-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T2 - 10' (H602805-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/19/2016	ND	432	108	400	3.77	

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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: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T3 - SURFACE (H602805-19)

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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEX	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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	288	16.0	12/19/2016	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	12/15/2016	ND	183	91.6	200	2.70	
DRO >C10-C28	126	10.0	12/15/2016	ND	197	98.6	200	0.173	

Surrogate: 1-Chlorooctane 84.4 % 35-147

Surrogate: 1-Chlorooctadecane 97.9 % 28-171

Sample ID: T3 - 1' (H602805-20)

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	12/19/2016	ND	432	108	400	3.77	

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Analytical Results For:

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T3 - 2' (H602805-21)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T4 - SURFACE (H602805-22)

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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEx	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	48.0	16.0	12/19/2016	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
GRD C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70	
DRO >C10-C28	61.1	10.0	12/15/2016	ND	197	98.6	200	0.173	

Surrogate: 1-Chlorooctane 70.4 % 35-147

Surrogate: 1-Chlorooctadecane 75.0 % 28-171

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Analytical Results For:

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T4 - 1' (H602805-23)

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	12/19/2016	ND	432	108	400	3.77	

Sample ID: T4 - 2' (H602805-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T4 - 4' (H602805-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/19/2016	ND	432	108	400	3.77	

Sample ID: T4 - 6' (H602805-26)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/19/2016	ND	432	108	400	3.77		

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Analytical Results For:

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T5 - SURFACE (H602805-27)

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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEX	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 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	256	16.0	12/19/2016	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	12/15/2016	ND	183	91.6	200	2.70		
DRO >C10-C28	1010	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Sample ID: T5 - 1' (H602805-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/19/2016	ND	432	108	400	3.77	

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Analytical Results For:

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T5 - 3' (H602805-29)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/19/2016	ND	416	104	400	0.00	

Sample ID: T5 - 4' (H602805-30)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/19/2016	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T6 - SURFACE (H602805-31)

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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEX	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 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	32.0	16.0	12/19/2016	ND	416	104	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	12/16/2016	ND	192	95.8	200	2.26	
DRO >C10-C28	<10.0	10.0	12/16/2016	ND	197	98.5	200	1.29	QR-03

Surrogate: 1-Chlorooctane 82.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 28-171

Sample ID: T6 - 1' (H602805-32)

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	12/19/2016	ND	416	104	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: 12/14/2016
 Reported: 12/20/2016
 Project Name: ADMIRAL FED #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T6 - 2' (H602805-33)

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	12/19/2016	ND	416	104	400	0.00		

Sample ID: T6 - 3' (H602805-34)

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	12/19/2016	ND	416	104	400	0.00	

Sample ID: T6 - 4' (H602805-35)

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	12/19/2016	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 12/14/2016
Reported: 12/20/2016
Project Name: ADMIRAL FED #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/13/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: T7 - SURFACE (H602805-36)

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	12/16/2016	ND	2.08	104	2.00	0.242	
Toluene*	<0.050	0.050	12/16/2016	ND	2.14	107	2.00	0.405	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.09	104	2.00	0.356	
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.34	106	6.00	0.381	
Total BTEX	<0.300	0.300	12/16/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 120 % 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	16.0	16.0	12/19/2016	ND	416	104	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	12/16/2016	ND	192	95.8	200	2.26	
DRO >C10-C28	<10.0	10.0	12/16/2016	ND	197	98.5	200	1.29	

Surrogate 1-Chlorooctane 76.3 % 35-147

Surrogate 1-Chlorooctadecane 85.2 % 28-171

Sample ID: T7 - 1' (H602805-37)

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	12/19/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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".

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

105

Company Name: COG Operating LLC Project Manager: Dakota Neel Address: 2208 West Main City: Artesia Phone #: 432-215-2783 Project #: Project Name: ADONAL FLO #2 Project Location: Sampler Name: DAKOTA NEEL		P.O. #: Company: COG Operating LLC Attn: Robert McNeill Address: 600 W Dinosa City: Midland State: TX Zip: 79701 Phone #: (432) 221-0388 Fax #:	
Lab I.D. Sample I.D. H602805-01 02 03 04 05 06 07 08		Matrix (G)RAB OR (C)COMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER	
FOR LAB USE ONLY Date: 12-14-16 Time: 3:40p Received By: [Signature]		DATE 12/14/16 TIME 10:30 BTEX TPH Chloride	
Relinquished By: [Signature] Retrieved By: [Signature]		REMARKS: RUN DEEPER SAMPLES IF BEU2ENC EXCELLOS 10-9/KK, BTEX EXCELLOS 50-9/KK OR TPH EXCELLOS 5,000 -9/KK	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: 432-215-2783

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeil

Address: 800 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Lab I.D. Sample I.D.

H602855

09

10

11

12

13

14

15

16

17

18

T2 - 502F

T2 - 1'

T2 - 2'

T2 - 3'

T2 - 4'

T2 - 5'

T2 - 6'

T2 - 8'

T2 - 9'

T2 - 10'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

Chloride

PLEASE NOTE: Laboratory Duplicates, Certified Quality and client's exclusive liability for any claim arising without signed by contract or fact shall be limited to the amount paid by the client for the analysis. 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. It is not valid until Certified by the provider or commercial damages, including without limitation, business interruption, 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 hereunder by Cardinal. In the event of a dispute, any of the above stated disputes or arbitrations.

Relinquished By:

Date: 12/14/14

Time: 3:30p

Received By:

[Signature]

Time:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Remarks:

dmel2@concho.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

3.9°C

Sample Condition
Cool ☒ Intact ☐
Yes ☒ No ☐

CHECKED BY: (Initials)

[Signature]

1. Please fax written changes to 575-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia **State:** NM **Zip:** 88210

Phone #: 432-215-2783 **Fax #:**

Project #:

Project Name: AOMINAL F30 HZ

Project Location:

Sampler Name: DAKOTA NEEL

FOR USE ONLY

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 800 W Illinois

City: Midland

State: TX **Zip:** 79701

Phone #: (432) 221-0388

Fax #:

Lab I.D. **Sample I.D.**

	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST						
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE			ICE / COOL	OTHER	BTEX	TPH	Chloride		
H02305-19										12/13/16								
20	T3-SURF																	
21	T3-1'																	
22	T3-2'																	
23	T4-SURF																	
24	T4-1'																	
25	T4-2'																	
26	T4-4'																	
	T4-6'																	

Delivered By: (Circle One) **Relinquished By:**

Sampler - UPS - Bus - Other: **Phone Result:**

☐ Yes ☐ No ☐ Add'l Phone #:

☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS: dneel2@concho.com

CARDINAL

Company Name: COG Operating LLC

Address: 2208 West Main

State: NM

Zip 88210

Fax #: _____

Project Owner:

Project Location:**Sampler Name**

DAKOTA WELLS

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

Fax: _____

—

FOR LAB USE ONLY

Lab 1.D.

Sample I.D.

110285

TS - SURF

75-1'

$$\frac{13}{15} = \frac{13}{15}$$

T6-50AF

T6-1'

T6-2'

T6-3

76-41

advertiser's liability and client's work

significance and any other causes which may be attributed to the results for individual or consequential effects.

Date: 1/1/2019

Then

Date _____

Time

One)

Other:

1000

nges to 575-383-24

Received by OCD: 11/10/2022 12:33:14 PM

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Page 19 of 20

Page 19 of 20

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 157739

CONDITIONS

| | |
|---|--|
| Operator:
COG OPERATING LLC
600 W Illinois Ave
Midland, TX 79701 | OGRID:
229137 |
| | Action Number:
157739 |
| | Action Type:
[IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| amaxwell | None | 11/10/2022 |