

# Closure Report

## Site Description

Site Name:	Montana 1 Fee 3
Company:	COG Operating LLC
Legal Description:	U/L M, Section 01, T19S, R25E
County:	Eddy County, NM
GPS Coordinates:	N 32.69530° W 104.43092°

## Release Data

Date of Release:	12/29/2015
Type of Release:	Oil
Source of Release:	Tank fire
Volume of Release:	270 bbls
Volume Recovered:	80 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 6 inches. Backfill the site with clean soil.	
Remediation Activities:	11/16/2016 to 11/17/2016	
Plan Sent to OCD:	11/04/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/10/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 12/30/2015
Final C-141	Signed 11/28/2016
Site Diagram	September 2016
Groundwater Plot	100'-125'
TOPO Maps	September 2016
Lab Summary	09/20/2016
Lab Analysis	09/20/2016
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

11/30/2016

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

DEC 30 2015

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

*NAB153648194*

Name of Company Cimarrex Energy <i>1102683</i>		OPERATOR <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Address 600 N Marienfeld Ste 600 Midland TX		Contact Christine Alderman
Facility Name Montana 1 Fee 3		Telephone No. 432-853-7059
		Facility Type production
Surface Owner	Mineral Owner	API No. 30-015-39616

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	01	19S	25E	990	S	330	W	Eddy

Latitude 32.6854 Longitude -104.4459

NATURE OF RELEASE

Type of Release oil/ due to fire	Volume of Release 270 bbls	Volume Recovered 80
Source of Release tank	Date and Hour of Occurrence 12/29/2015	Date and Hour of Discovery 12/29/2015 1:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson	
By Whom? Christine Alderman	Date and Hour 12/30/2015 10:00 am	
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 well is shut in but the center oil tank blew up and out of the containment. When it did it tore the connecting valve off the oil tank next to it. Some fluids got out of the containment and into the pasture area. A vacuum truck was on location after the fire was put out and recovered what fluid it could.

Describe Area Affected and Cleanup Action Taken.\*

Tank battery area and some pasture area. An environmental consulting company will assess the impact and develop a workplan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: ESH Supervisor	Approval Date: 12/30/15	Expiration Date: N/A
E-mail Address: calderman@cimarrex.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
Date: 12/30/2015 Phone: 432-853-7059	SUBMIT REMEDIATION PROPOSAL NO	

\* Attach Additional Sheets If Necessary

LATER THAN: *1/31/16*

*2RP3468*

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: Cimarex Energy	Contact: Christine Alderman
Address: 600 N Marienfeld Ste 600, Midland, TX	Telephone No. 432-853-7059
Facility Name: Montana I Fee 3	Facility Type: Production

Surface Owner:	Mineral Owner:	API No. 30-015-39616
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	1	19S	25E	990	South	330	West	Eddy County, NM

Latitude N 32.68540° Longitude W 104.44590°

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release: 270 bbls	Volume Recovered: 80 bbls
Source of Release: Tank fire	Date and Hour of Occurrence 12/29/2015	Date and Hour of Discovery 12/29/2015 @ 1:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson- NMOCD	
By Whom? Christine Alderman	Date and Hour: 12/30/2015 @ 10:00 am	
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.\*

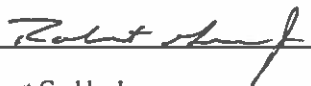
Describe Cause of Problem and Remedial Action Taken.\*

This well is shut in but the center oil tank blew up and out of the containment. When it did, it tore the connecting valve off the oil tank next to it. Some oil leaked out of the containment and into the pasture. A vacuum truck was on location after the fire was put out and recovered the fluids capable of being recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area included inside the battery area as well as in the surrounding pasture. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/10/2016.

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.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Grubbs Jr		Approved by Environmental Specialist:	
Title: Senior HSE Coordinator		Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com		Conditions of Approval:	
Date: November 28, 2016 Phone: (432) 853-7059		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



# COG Operating Montana 1 Fee #003





# Groundwater Plot

## COG Montana 1 Fee #3

County  
Eddy

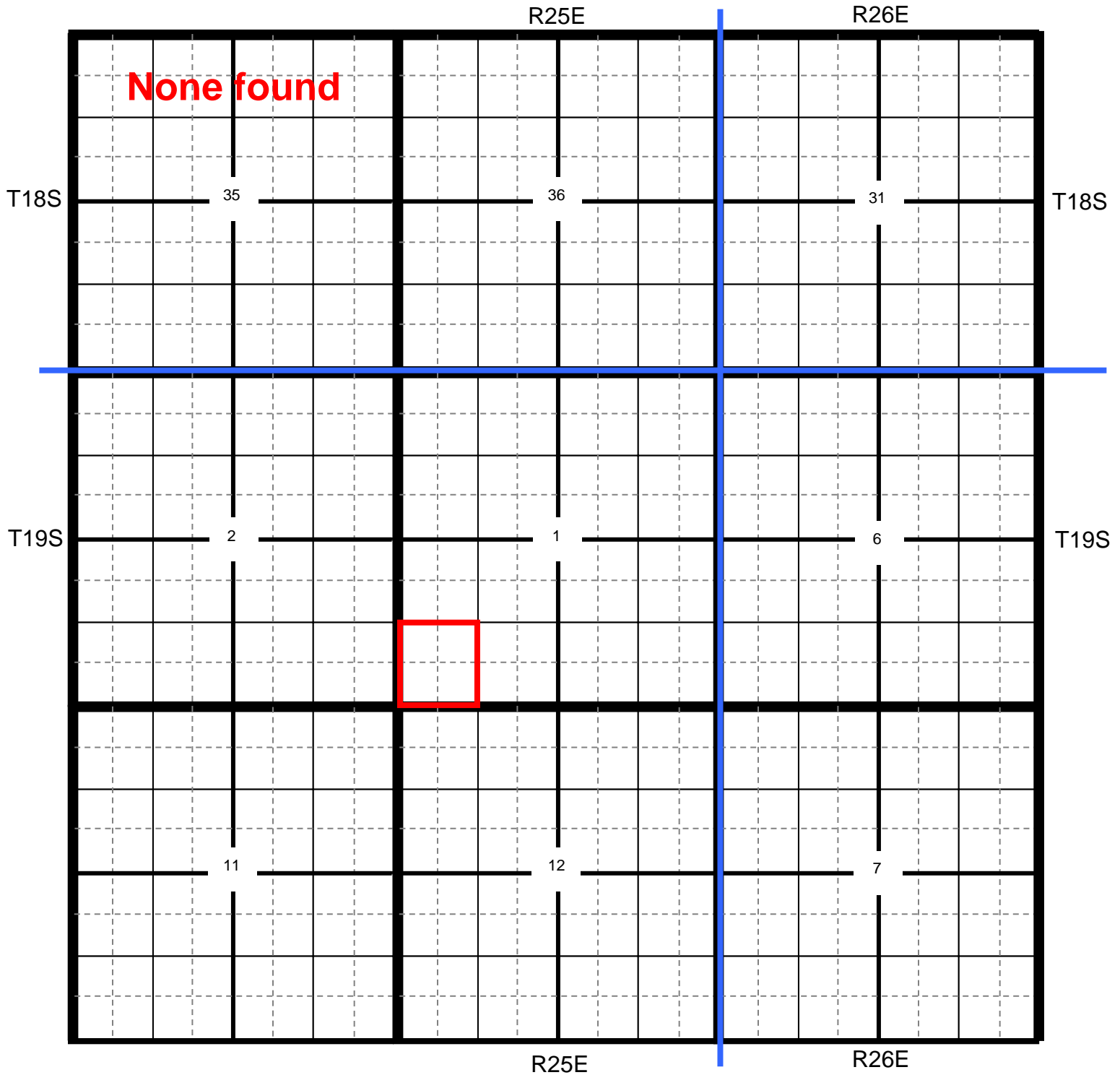
Unit Letter  
M

Section  
1

Township  
19S

Range  
25E

Trend Map 100'-125'



★ Location

● OCD

● USGS

● SEO

● All Databases



# Section Quarters

## COG Montana 1 Fee #3

County Eddy Unit Letter M Section 1 Township 19S Range 25E

Trend Map 100'-125"

1		2	
NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P
3		4	

**Laboratory Analytical Results Summary**  
**Montana 1 Fee #003**

		Sample	S1 @ SURFACE	S1 @ 1'	S1 @ 2'	S1 @ 3'	S1 @ 4'	S1 @ 6'
Analyte	Method	Date	9/20/16	9/20/16	9/20/16	9/20/16	9/20/16	9/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.437</b>	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>0.437</b>	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	<b>128</b>	<b>48</b>	<b>32</b>	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>243</b>	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	S2 @ SURFACE	S2 @ 1'	S2 @ 2'	S2 @ 3'	S2 @ 4'	S2 @ 6'
Analyte	Method	Date	9/20/16	9/20/16	9/20/16	9/20/16	9/20/16	9/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.051</b>	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.697</b>	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>0.748</b>	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>144</b>	<b>80</b>	<b>64</b>	<b>144</b>	<b>544</b>	<b>448</b>
<b>GRO</b>	TPH 8015M		<b>62.5</b>	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>1910</b>	<10.0	<10.0	<10.0	<10.0	<10.0

September 27, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MONTANA FEE

Enclosed are the results of analyses for samples received by the laboratory on 09/21/16 13:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - SURFACE (H602128-01)**

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	09/24/2016	ND	1.82	91.1	2.00	0.992	
Toluene*	<0.050	0.050	09/24/2016	ND	1.84	92.1	2.00	0.714	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	1.77	88.4	2.00	0.904	
Total Xylenes*	0.437	0.150	09/24/2016	ND	5.32	88.7	6.00	1.05	
Total BTX	0.437	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/26/2016	ND	432	108	400	3.64		

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	09/22/2016	ND	178	89.2	200	7.92	
DRO >C10-C28	243	10.0	09/22/2016	ND	176	88.0	200	8.92	

Surrogate: 1-Chlorooctane 82.8 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - 1' (H602128-02)**

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	09/24/2016	ND	1.82	91.1	2.00	0.992	
Toluene*	<0.050	0.050	09/24/2016	ND	1.84	92.1	2.00	0.714	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	1.77	88.4	2.00	0.904	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	5.32	88.7	6.00	1.05	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/23/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	178	89.2	200	7.92	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	176	88.0	200	8.92	

Surrogate: 1-Chlorooctane 76.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - 2' (H602128-03)**

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	09/24/2016	ND	1.82	91.1	2.00	0.992	
Toluene*	<0.050	0.050	09/24/2016	ND	1.84	92.1	2.00	0.714	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	1.77	88.4	2.00	0.904	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	5.32	88.7	6.00	1.05	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.6-140

Chloride, SM4500CI-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	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	178	89.2	200	7.92	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	176	88.0	200	8.92	

Surrogate: 1-Chlorooctane 73.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - 3' (H602128-04)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

Chloride, SM4500CI-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	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	178	89.2	200	7.92	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	176	88.0	200	8.92	

Surrogate: 1-Chlorooctane 72.3 % 35-147

Surrogate: 1-Chlorooctadecane 86.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - 4' (H602128-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.6-140

Chloride, SM4500CI-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	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 80.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S1 - 6' (H602128-06)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500CI-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	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 84.4 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - SURFACE (H602128-07)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2016	ND	2.26	113	2.00	1.18	
<b>Toluene*</b>	<b>0.051</b>	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
<b>Total Xylenes*</b>	<b>0.697</b>	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
<b>Total BTX</b>	<b>0.748</b>	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 220 % 73.6-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	09/26/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>62.5</b>	50.0	09/23/2016	ND	202	101	200	5.55	
<b>DRO &gt;C10-C28</b>	<b>1910</b>	50.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 92.8 % 35-147

Surrogate: 1-Chlorooctadecane 132 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 1' (H602128-08)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 87.9 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 2' (H602128-09)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

Chloride, SM4500CI-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	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 3' (H602128-10)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 84.0 % 35-147

Surrogate: 1-Chlorooctadecane 99.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 4' (H602128-11)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/21/2016  
Reported: 09/27/2016  
Project Name: MONTANA FEE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/20/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: S2 - 6' (H602128-12)**

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	09/24/2016	ND	2.26	113	2.00	1.18	
Toluene*	<0.050	0.050	09/24/2016	ND	2.30	115	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/24/2016	ND	2.20	110	2.00	1.07	
Total Xylenes*	<0.150	0.150	09/24/2016	ND	6.63	110	6.00	1.11	
Total BTX	<0.300	0.300	09/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/26/2016	ND	416	104	400	3.92	

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	09/23/2016	ND	202	101	200	5.55	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	4.06	

Surrogate: 1-Chlorooctane 87.1 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

[illegible]

#75





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: 432-215-2783

Project #:

Project Name: Montana Fee

Project Location:

Sample Name: Dakota Neel

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H4002178

S2- Surface

S2-1'

S2-2'

S2-3'

S2-4'

S2-6'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

DATE

TIME

BTEX

TPH

Chloride

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Relinquished By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY:

(Initials)

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

dneel2@concho.com

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



**From:** Bratcher, Mike, EMNRD  
**To:** [Cliff Brunson](#)  
**Cc:** [Patterson, Heather, EMNRD](#); [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Weaver, Crystal, EMNRD](#)  
**Subject:** RE: COG - Montana 1 Fee #003  
**Date:** Thursday, November 10, 2016 7:18:33 AM

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RE: COG (well was formerly Cimarex) \* Montana 1-3 \* **2RP-3468** \* DOR: 12/29/15

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

**Mike Bratcher**  
**NMOCD District 2**  
**811 S. First Street**  
**Artesia, NM 88210**  
**O: 575-748-1283 X108**  
**C: 575-626-0857**  
**F: 575-748-9720**

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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Friday, November 04, 2016 1:52 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** COG - Montana 1 Fee #003

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Montana 1 Fee #003 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
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