## 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 Santa Fe, NM 87505

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

Form C-141 Revised August 8, 2011

1220 South St. Francis Dr.

			Rele	ase Notific	atio	n and C	orrective .	Action	1		_	
						<b>OPERA</b>	TOR			l Report		Final Report
Name of Co			i Operati			Contact:		Ro	bert McNe	ill		
Address:	600 West	Illinois Ave	nue, Mic	lland TX 79701		Telephone	No.	43	2-683-744	3		
Facility Nam	ne: GC Fed	eral #011Ba	attery			Facility Ty	pe: Tank Ba	ttery				
Surface Own	ner:	Federal		Mineral O	wner:				API No.	30-025	-3899	94
				LOCA	TIO	N OF RE	LEASE			1.		
Unit Letter I	Section 19	Township 17S	Range 32E	Feet from the 1550	North	/South Line South	Feet from the	East/	West Line East		Cour	_
				Latitude 32.81	7115	B Longitu	de 103.79938	51				
	8888			NAT	URE	OF REL	EASE					
Type of Relea		Oil & Produc	ed Water	·		1	f Release: Is Oil & 4bbIs P	W	Volume R	ecovered: 1bbls Oil &	: 2bbls	; PW
Source of Rel	lease:	FWK	o				Hour of Occurre per 13, 2016 11:			Hour of Dis		
Was Immedia	ite Notice Gi		Yes 🗵	No 🛛 Not Re	quired	If YES, T						
		By Who	om?			Date and	Hour:					
Was a Watero	course Reach	ied?	Yes 🛭	No			olume Impactin	the Wat	ercourse.			
If a Watercou	rse was Impa	acted, Descri	be Fully.*									
							RECEIV	ED				
Describe Cau	se of Problet	m and Remed	dial Action	n Taken.*			By Olivia	Yu a	t 1:42 p	om, Fe	b 07	7, 2017
Gasket on FW												
Describe Area	a Affected at	nd Cleanup A	Action Tak	en.*								
fluids. Conch- NMOCD for	o will have t approval pri	he spill area or to any sigi	sampled t nificant re	h an overspray aft o delineate any po mediation activitie	ssible s.	impact from	he release and v	e will pr	esent a reme	diation wo	rk plan	to the
regulations al public health should their o	Il operators a or the enviro operations ha nment. In ad	re required to nament. The we failed to a dition, NMO	o report ar acceptance idequately OCD accep	is true and completed of a C-141 report investigate and retained for a C-141 report ance of a C-141 report	lease i rt by th media	notifications ne NMOCD i te contamina	and perform con narked as "Final tion that pose a t	ective ac Report" hreat to g	tions for relo does not reli round water	eases which eve the ope , surface w	may e rator o ater, hi	endanger of liability uman health
Signature:	Rebecc	ea 4	Josh	ell			OIL CO	VSERV	VATION	DIVISIO	<u>NC</u>	
Printed Name	\$* #*	Rebec	ca Haskell			Approved b	y Environmental	Specialis	st:	4	_	
Title:	Sei	nior HSE Co	ordinator			Approval D	2/7/20	17	Expiration 1	Date:		
					T							1

12/15/16 Phone: 432-683-7443 Attach Additional Sheets If Necessary

rhaskell@concho.com

1RP-4585

Conditions of Approval:

nOY1703847407

see attached directive

pOY1703849700

Attached

Released to Imaging: 11/10/2022 12:19:02 PM

E-mail Address:

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 12/15/2016\_regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_\_1R-\_4585\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_3/7/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us From: Price, Henryetta

To: Sheldon Hitchcock

 Cc:
 Yu, Olivia, EMNRD; Rebecca Haskell; Robert McNeill; Dakota Neel; Aaron Lieb

 Subject:
 Re: (Closure Request) GC Federal #011 12-13-2016 |30-025-38994 | 1RP-4531|

**Date:** Thursday, October 26, 2017 4:49:14 PM

Closure report received and approved.

Thank you.

### **Henryetta Price**

Environmental Protection Specialist Bureau Of Land Management Hprice@blm.gov Phone 575-234-5951 Cell 575-706-2780 Fax 575-234-5927

On Thu, Oct 26, 2017 at 4:12 PM, Sheldon Hitchcock < <u>SLHitchcock@concho.com</u> > wrote:

Ms. Yu/Ms. Price,

Please find the attached Closure Request Letter for your consideration. This is for a release that occurred on December 13, 2016 at the GC Federal #011 Tank Battery. If you have any questions or concerns please contact me.

Thank you,

Sheldon L. Hitchcock

**HSE** Coordinator

COG Operating LLC

2407 Pecos Avenue | Artesia, NM 88210 Cell: 575-703-6475 | Office: 575-746-2010

slhitchcock@concho.com



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October 26, 2017

Olivia Yu Oil Conservation Division, District 1 1625 N. French Dr. Hobbs, NM 88240

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

Re: Closure Letter

GC Federal #011 (1RP-4531)

API#: 30-025-38994

Unit Letter I Section 19, Township 17S, Range 32E

Lea County, NM

Ms. Yu/Ms. Price,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the GC Federal #011. This release occurred on December 13, 2016 and impacted the location. All work has been completed in accordance with the work plan submitted to and approved by the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM).

### BACKGROUND

On December 13, 2016, a gasket on a free water knockout failed resulting in the release of approximately 2bbls of oil and 4bbls of produced water. A vacuum truck was utilized to recover freestanding fluids. Approximately 1bbl of oil and 2bbls of produced water were recovered.

On January 10, 2017, COG personnel conducted soil sampling within the impacted area in preparation for the development of a remediation work plan (laboratory results are summarized in the table below).

On May 25, 2017, BLM issued approval of the remediation work plan. On May 26, 2017, NMOCD also approved the remediation work plan.

Released to Imaging: 11/10/2022 12:19:02 PM

### GROUNDWATER AND SITE RANKING

Based on the 2005 Chevron Texaco groundwater trend map, groundwater in the project vicinity is greater than 200-feet below ground surface (BGS). Therefore the site ranking for this release is zero (0) based on the following:

Depth to ground water >100-feet
Distance to surface water body
Wellhead Protection Area >1000-feet
>1000-feet

### LABORATORY RESULTS

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
T-1	1	< 0.050	< 0.300	8400	<10.0	58.4
T-1	2	< 0.050	< 0.300	96	<10.0	<10.0
T-1	3	< 0.050	< 0.300	16	<10.0	<10.0
T-1	4	< 0.050	< 0.300	48	<10.0	<10.0
T-1	5	< 0.050	< 0.300	32	<10.0	<10.0
T-1	6	< 0.050	< 0.300	<16.0	<10.0	<10.0
T-1	8			<16.0		

### REMEDIAL ACTIONS

- The impacted area outside of the lined facility was excavated to the depth of 1-foot BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled and contoured to match the surrounding terrain.

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# Received by OCD: 11/10/2022 12:15:43 PM

### **CLOSURE REQUEST**

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and Bureau of Land Management grant closure approval for the GC Federal #11 incident that occurred on December 13, 2016.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Sheldon L. Hitchcock

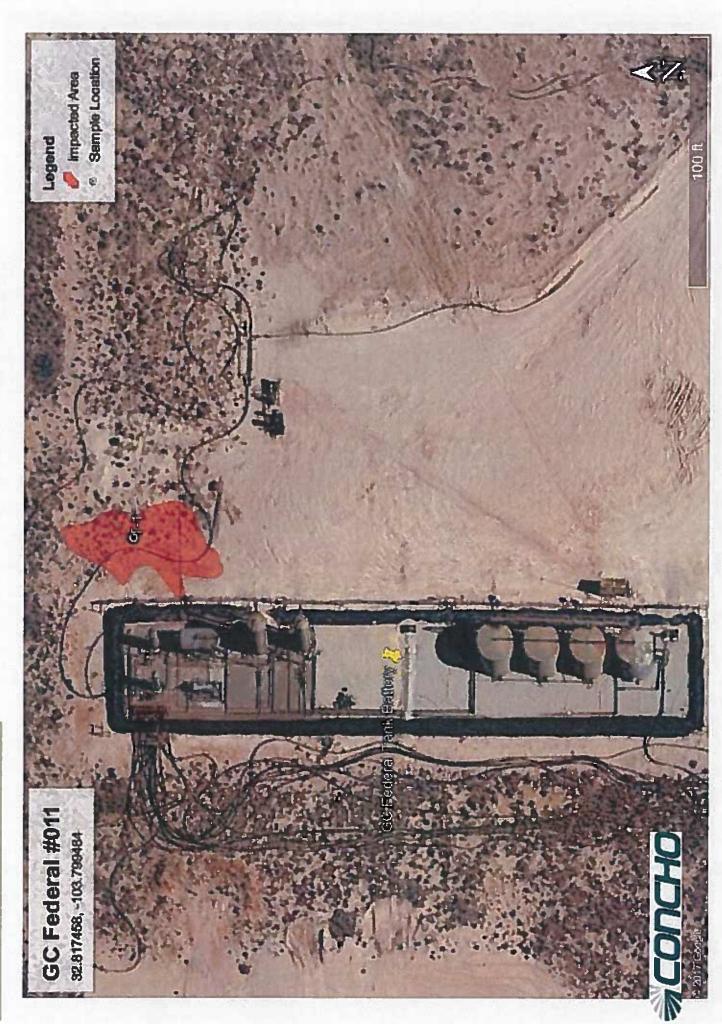
**HSE Coordinator** 

slhitchcock@concho.com

### Enclosed:

- (1) Site Diagram
- (2) Laboratory Analytical Reports and Chain-of-Custody Forms
- (3) Initial C-141
- (4) Final C-141

## GC Federal #011





January 24, 2017

**AARON LIEB** 

**COG OPERATING** 

P. O. BOX 1630

ARTESIA, NM 88210

RE: GC FEDERAL #11 TB

Enclosed are the results of analyses for samples received by the laboratory on 01/19/17 10:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab-accred-certif.html">www.tceq.texas.gov/field/ga/lab-accred-certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Kune

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

Received by OCD: 11/10/2022 12:15:43 PM

Lab Director/Quality Manager



### Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/19/2017

Reported:

01/24/2017

Project Name:

GC FEDERAL #11 TB

Project Number: Project Location:

NONE GIVEN

89.6%

28-171

Sampling Date:

01/10/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Angela Cabrera

Sample ID: T1 - 1' (H700130-01)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	as	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.99	99.4	2.00	1.78	
Toluene*	<0.050	0.050	01/20/2017	ND	1.97	98.3	2.00	1.96	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.98	98.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5.62	93.7	6.00	1.28	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			01/19/2017	ND	190	95.1	200	0.847	
GRO C6-C10	<10.0	10.0	01/13/2017	110					

Cardinal Laboratories

Received by OCD: 11/10/2022 12:15:43 PM

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Currhout's basilety and cleant's exclusive remady for any clean arrang, whether based in contract or tone, shall be lambed to the amount paid by cleant for analysis. All cleans, encluding those for negligence and any other cause whitstoever shall be deemed waived unless made in writing and received by Cardnal within thirty (30) days after completion of the applicable service. In no event shall Cardnal be leaded to incadental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cleant, it is submittanes, affiliation or accessors arrang out of or related to the performance of the services hereunder by Cardnal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results related only to the tamples identified above. This report shall not be reproducted except in full with written approved of Cardnal Laboratories.

Colog D. Kenne



### Analytical Results For:

COG OPERATING **AARON LIEB** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/19/2017

Reported:

01/24/2017

Project Name: Project Number: GC FEDERAL #11 TB

Project Location:

NONE GIVEN **NOT GIVEN** 

Sampling Date:

01/10/2017

Sampling Type:

Sample Received By:

Sampling Condition:

Soil Cool & Intact

Angela Cabrera

Sample ID: T1 - 2' (H700130-02)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.99	99.4	2.00	1.78	
Toluene*	<0.050	0.050	01/20/2017	ND	1.97	98.3	2.00	1.96	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.98	98.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5,62	93.7	6.00	1.28	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2017	ND	190	95.1	200	0.847	
DRO >C10-C28	<10.0	10.0	01/19/2017	ND	197	98.5	200	2.76	
Surrogate: 1-Chlorooctane	84.4	% 35-147							
Surrogate: 1-Chlorooctadecane	94.0	% 28-171							

### Cardinal Laboratories

Received by OCD: 11/10/2022 12:15:43 PM

\*=Accredited Analyte



### Analytical Results For:

**COG OPERATING AARON LIEB** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 01/19/2017

Project Name:

01/24/2017

Project Number:

GC FEDERAL #11 TB NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

01/10/2017

Sampling Type: Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Angela Cabrera

Sample ID: T1 - 3' (H700130-03)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.79	89.3	2.00	0.878	
Toluene*	<0.050	0.050	01/20/2017	ND	1.76	88.1	2.00	0.639	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.82	90.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5.30	88.4	6.00	1.11	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 73.6-14	0						1.1
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS	100	_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2017	ND	190	95.1	200	0.847	
DRO >C10-C28	<10.0	10.0	01/19/2017	ND	197	98.5	200	2.76	
Surrogate 1-Chlorooctane	87.4	% 35-147	,			- T.			
Surrogate: 1-Chlorooctadecane	101	% 28-171							

### **Cardinal Laboratories**

Received by OCD: 11/10/2022 12:15:43 PM

\*=Accredited Analyte

Celeny & Kan



### Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/19/2017

Reported:

01/24/2017

Project Name:

GC FEDERAL #11 TB

Project Number: Project Location: NONE GIVEN

Sampling Date:

01/10/2017

Sampling Type:

Sampling Condition:

Soil

Cool & Intact

Sample Received By:

Angela Cabrera

### Sample ID: T1 - 4' (H700130-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.79	89.3	2.00	0.878	
Toluene*	<0.050	0.050	01/20/2017	ND	1.76	88.1	2.00	0.639	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.82	90.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5,30	88.4	6.00	1.11	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2017	ND	190	95.1	200	0.847	
DRO >C10-C28	<10.0	10.0	01/19/2017	ND	197	98.5	200	2.76	
Surrogate: 1-Chlorooctane	83.9 9	% 35-147							
Surrogate: I-Chlorooctadecane	94.79	% 28-171							

### Cardinal Laboratories

Received by OCD: 11/10/2022 12:15:43 PM

\*=Accredited Analyte

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Celley Dreme



### Analytical Results For:

COG OPERATING AARON LIEB P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/19/2017

Reported:

01/24/2017

Project Name: Project Number: GC FEDERAL #11 TB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/10/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Angela Cabrera

Sample ID: T1 - 5' (H700130-05)

BTEX 8021B	mg/kg		Analyze	d By: CK					II.V.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.79	89.3	2.00	0.878	
Toluene*	<0.050	0.050	01/20/2017	ND	1.76	88.1	2.00	0.639	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.82	90.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5.30	88.4	6.00	1.11	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 73 6-14	0						
Chloride, SM4500CI-B	mg/I	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2017	ND	190	95.1	200	0.847	
DRO >C10-C28	<10.0	10.0	01/19/2017	ND	197	98.5	200	2.76	
Surrogate: I-Chlorooctane	84.5 %	6 35-147							
Surrogate: 1-Chlorooctadecane	95.3 %	6 28-171							

Cardinal Laboratories

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\*=Accredited Analyte

PLEASE, NOTE: Likelity and Datalege. Cerdinal's labelity and cherrit exclusive remady for any claim arrising, whether bessel in contract or text, still be limited to the amount paid by claim it for analyses, and claims, including those for negligence and any other cause whatsoever shall be determed waveled unless made in writing and received by Cardinal within theiry (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without a first-board and an analysis of a related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with vertical approval of Cardinal Laborationes.

Cellago Kama



### Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: Reported: 01/19/2017

Project Name:

01/24/2017 GC FEDERAL #11 TB

Project Number: Project Location: NONE GIVEN

Sampling Date:

01/10/2017

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Angela Cabrera

ple ID: T1 - 6' (H700130-06)

BTEX 8021B	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2017	ND	1.79	89.3	2.00	0.878	
Toluene*	<0.050	0.050	01/20/2017	ND	1.76	88.1	2.00	0.639	
Ethylbenzene*	<0.050	0.050	01/20/2017	ND	1.82	90.8	2.00	1.11	
Total Xylenes*	<0.150	0.150	01/20/2017	ND	5.30	88.4	6.00	1.11	
Total BTEX	<0.300	0.300	01/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC		112	n R			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Anatyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2017	ND	190	95.1	200	0.847	
DRO >C10-C28	<10.0	10.0	01/19/2017	ND	197	98.5	200	2.76	

Surrogate: 1-Chlorooctane 75
Surrogate: 1-Chlorooctadecane 91

75.5 %

35-147

91.8%

28-171

### Sample ID: T1 - 8' (H700130-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2017	ND	416	104	400	3.77	

### Cardinal Laboratories

Received by OCD: 11/10/2022 12:15:43 PM

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardantifs labelity and Clean't exclusive remady for any clean arrang, whether based in contract or tort, shall be finished to the amount paid by cleant for analyses. All cleans, including those for negligence and any other cause whitstoever shall be deemed waveful unless made in writing and received by Cardinal within theiry (30) days after completion of the applicable service. In no event shall Cardani be Balade for incidental or correspondental cannopes, including, without firstations, business informations, business informations

Clay D. Kenne

Celey D. Keene, Lab Director/Quality Manager



### **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

**Cardinal Laboratories** 

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\*=Accredited Analyte

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Cellery & Kenne



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Aaron Lieb  P.O. #:  Project Manager: Aaron Lieb  Company: COG Operating LLC  Company: COG Operating LLC
Pecos Avenue Company:
훘
Phone #: 575-748-1553 Fax #: Address: 600 W llimois
Project Owner: City: Midland
Project Name: GC Federal # 11 TB State: TX Zip: 79701
Project Location: Phone #: (432) 221-0388
Aaron Lieb Fax #:
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(C)OMP. ERS ATER ER
(G)RAB OR (G)RAB
T1-1"
2 T1-2' X 1/10/17 2:30 PM X X X
The second second
7 T1-8'

Sampler - UPS - Bus - Other: #15 100

Reliequished By:

Thing: 'SOA

O Yes

N S

-19-17

Time:

Delivered By: (Circle One)

Page 9 of 9

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aziec, NM 87410
District NM 87410

## State of New Mexico NM OIL CONSERVATION Energy Minerals and Natural Resources ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division

Eguing 2048 to appropriate District Office in accordance with 19.15.29 NMAC.

District IV 220 S. St. Francis Dr.,	Santa Fc, NM 8750:	;			St. Franc NM 875		RECEIVED		
		Rei			:	rrective A			
NAB11135	1112000	2000							
Name of Company	1040 199	3 Operati	ing LLC 229		OPERAT	UK	Robert McN	al Report	☐ Final Repo
	West Illinois Av				Telephone N	Jo.	432-683-74		
Facility Name: GO			statio 1X 1310		Facility Typ			13	
Surface Owner:	Federal		Mineral (	Dwner:			APIN	b. <u>30-02</u>	5-38994
			LOC	ATION	OFRE	EASE			
Unit Letter   Secti		Range	Feet from the		South Line	Feet from the	Enst/West Line		County
1 19	175	32E	1550	1	South	660	East		Lea
					Longitud OF RELI	le 103.7993851 E <b>ASE</b>			
Type of Release:	Oil & Produc	ed Water			Volume of			Recovered: 1 bbis Oil &	Ł 2bbis PW
Source of Release:	904 4 44	_				our of Occurrent		Hour of Di	scovery:
Was Immediate Not	FWK	.U		_	If YES, To	r 13, 2016 11:30 Whom?	am Do	cember 13,	2016 11:30 am
		Yes 🗵	No 🖾 Not R	lequired		***************************************			
	By Wh	om?			Date and H	our.			
Was a Watercourse	Reached?	Yes 🗵	l No		If YES, Vo	lume Impacting	the Watercourse.		
Describe Cause of P									
Describe Area Affe	cted and Cleanup	Action Tal	(en.*						
The release occurre fluids. Concho will NMOCD for approval thereby certify that regulations all open public health or the should their operation the environment, federal, state, or loc	have the spill area val prior to any sig the information g ators are required to environment. The ons have failed to In addition, NMO	sampled the niffcant reliven above to report and acceptant adequately DCD accept	to delineate any paramediation activities is true and committed for the certain of a C-141 repy investigate and	nossible in ties. plete to the release no nort by the remediate	mpact from the best of my otifications as NMOCD me contaminations	knowledge and und perform correct arked as "Final Roon that pose a thi	will present a rem inderstand that pur- ctive actions for re- teport" does not re- reat to ground water	reuant to NA leases which lieve the open, surface w	rk plan to the  OCD rules and h may endanger erator of liability rater, human health
Signature: Rel		tash				OIL CON	SERVATION	DIVISI	ON .
Printed Name:	Rebec	ea Haskel	)		Approved by	Environmental S	pecialist:	1/	
Title:	Senior HSE Co	ordinator			Approval Da	E 12/20/1/	© Expiration	Date: N	IA
E-mail Address:		concho.c			Conditions of	Approval:	tanhad	Attache	4 )
Date: 12/15/1 Attach Additional		432-683 ary	-7443			ua m	MUNICU		100 1521

JRP 4531

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### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ase Notific	eatio	n and Co	rrective A	ctio	n			
			. <u>.</u> .			OPERA?	ГOR		Initia	al Report	$\boxtimes$	Final Repo
				(OGRID# 229	137)		bert McNeill	147				135
		inois Avenu ederal #11 E		nd TX 79701			No.: 432-683-74 be: Tank Batter					
		- COLOR III L	outler y				c. Tank batter	J				
Surface Ow	ner: BLM	-		Mineral C	)wner:	Federal			API No	o.: 30-025-3	38994	
Unit Letter	Section	Township	Danna	LOCA Feet from the		N OF REI		LE	West Line			
I I	19	17S	Range 32E	1550	Noru	South Line	Feet from the 660	East	East Line	County	Lea	
			Latite	ıde: 32.8171158	8 Lon	gitude: -103	.7993851	NAD8	3			
				NAT	URE	OF RELI	EASE					
Type of Rele	ıse: Oil & F	Produced Wat	ег			Volume of	Release:		1 1	Recovered:		
Source of Re	ease: FWK	0				_	& 4bbls PW  Tour of Occurrence	101		& 2bbls PW Hour of Dis	00110811	
Source of Re	case. I WK	O					13, 2016 11:30an			r 13, 2016 1		
Was Immedia	te Notice C	iven?				If YES, To	Whom?					
			Yes 🛚	No 🛛 Not Re	equired		***************************************					
By Whom?		or to				Date and H						
Was a Water	ourse Reac		Yes 🛚	No		If YES, Vo	lume Impacting t	he Wa	tercourse.			
If a Watercou	rse was Im	pacted, Descr				1				-		
				ease of approxima	ately 2	bbls of oil and	4bbls of produce	d wate	r. The gaske	t was repaire	ed.	
Describe Area The release o fluids. COG p NMOCD and I hereby certi regulations al public health should their o	a Affected a ccurred with ersonnel cc BLM. The fy that the in l operators a or the envir perations ha	and Cleanup A hin the lined follected soil sa remediation of information git are required to conment. The	Action Tak facility with amples with of the impa ven above or report an acceptance	en.*  h an overspray affinin the impacted acted area was car is true and compled/or file certain ree of a C-141 repoinvestigate and re	fecting area ar ried ou lete to elease out ort by the	the adjacent load developed a at in accordance the best of my notifications are NMOCD mate contamination.	ocation. A vacuum remediation work e with the approv knowledge and und perform correct arked as "Final Roon that pose a thre	n truck k plan ed wor ndersta tive ac eport"	was dispate which was so k plan.  Ind that purs tions for rele does not reli tround water	thed to remoubsequently uant to NM0 eases which eve the oper	ove all f approv OCD ru may en ator of ter, hur	red by  lles and idanger  liability man health
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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 157720

### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	157720
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

### CONDITIONS

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