

Amanda Trujillo Davis Sr. Environmental Coordinator

July 7, 2016

Oil Conservation Division District 1 – Hobbs 1625 N. French Drive Hobbs, New Mexico 88240



Confirmation sidewall samples required.

Re: Bonanza Federal #001 30-025-37590 Sec. 5, T19S-R32E Lea County, NM

Mr. Keyes,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated April 7, 2016.

Background

The release was caused by a leak on an above ground poly flow line resulting in the release of 18 barrels of produced water. Upon discovery, the line was isolated and crews were dispatched to repair the line. The release occurred in the pasture impacting an approximate area of 2,431 square feet.

Groundwater

Based on the information obtained through the use of the Chevron-Texaco Maps, the release area would be classified at a site ranking of **Zero** with depth to groundwater at greater than 100'.

Soil Assessment and Analytical Results

Sample points for the release area are labeled as S1, S2, and S3 on the attached Site Diagram. According to the analytical results obtained, S1 and S3 have an elevated concentration of chloride to a depth of 6' with delineation showing a decrease in concentration. S2 resulted in elevated chloride concentrations to a depth of 4' with delineation results showing a decrease in concentration. Chloride results were delineated to 12' and 10' due to the inability of the backhoe to dig through a rock layer at that depth. Copies of the analytical results along with a site diagram and sample summary table are attached for your consideration.

NMOCD July 7, 2016 Page 2

Site F	Site Ranking: 0								
	Depth to GW per SEO: >100								
S1	CI-								
1'	1700								
2'	6800								
3'	9200								
4'	10700								
6'	4720								
8'	496								
10'	352								
12'	576								
S2	CI-								
1'	2040								
2'	5840								
3'	11500								
4'	7060								
6'	80								
8'	224								
10'	256								
53	C)-								
1'	5330								
2'	7730								
3'	9730								
4'	1520								
6'	8130								
8'	416								
10'	416								

Work Plan

COG Operating LLC proposes the following excavations for remediation of the release area:

S1 & S3 – Excavate to a depth of approximately 6'.

S2 – Excavate to a depth of approximately 4'.

All areas excavated will be backfilled with like materials. Safety during excavation will be made priority for the personnel involved, thus shoring of the excavated area will require encroachment of the surrounding pasture. All areas affected during excavation will be returned to their normal state and will be reseeded in June of 2017.

NMOCD July 7, 2016 Page 3

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns.

Sincerely,

Having

Amanda Trujillo Davis,

Sr. Environmental Coordinator

Enclosure(s): Site Diagram Sample Summary Table Analytical Results C-141 Initial (Copy)





June 22, 2016

LUPE CARRASCO COG Operating, LLC 500 W. ILLINOIS Midland, TX 79701

RE: BONANZA FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 06/15/16 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab_accred_certif.html.

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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 12



COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN	Sample Received By:	Jodi Henson

Sample ID: S1-1' (H601323-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS			<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/21/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/21/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/21/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/21/2016	ND					
Surrogate 4-Bromofluorobenzene (PIE	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	06/17/2016	ND	432	108	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	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	74.3 9	6 35-147	R)						
Surrogate: 1-Chlorooctadecane	75.3 9	6 28-171							

Sample ID: S1-2' (H601323-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/17/2016	ND	432	108	400	3.77	

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S1-3' (H601323-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S1-4' (H601323-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	06/17/2016	ND	432	108	400	3,77	

Sample ID: S1-6' (H601323-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Anafyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	4720	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S1-8' (H601323-06)

Chloride, SM4500CI-B	ញ	i/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S1-10' (H601323-07)

Chloride, SM4500Ci-B	mg	/kg	Analyze	d By: AP 👘					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/17/2016	NÐ	432	108	400	3.77	

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received: Reported: Project Name:	06/15/2016 06/22/2016 BONANZA FEDERAL COM #1	Sampling Date: Sampling Type:	06/08/2016 Soil Cool & Intact
Project Number:	NONE GIVEN	Sampling Condition:	Jodi Henson
Project Location:	NONE GIVEN	Sample Received By:	

Sample ID: S1-12' (H601323-08)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S2-1' (H601323-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357			
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686			
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552			
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128			
Total BTEX	<0.300	0.300	06/16/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIE 102 %

?% 73.6-140

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/17/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	77.3	% 35-147							
Surrogate: 1-Chlorooctadecane	78.8	% 28-171							

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S2-2' (H601323-10)

Chloride, SM4500CI-8	mg/	ikg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S2-3' (H601323-11)

Chloride, SM4500CI-B	mg/	ng/kg Analyzed By: AP				ng/kg Analyzed By: AP				Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier								
Chloride	11500	16.0	06/17/2016	ND	432	108	400	3.77									

Sample ID: S2-4' (H601323-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	7060	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S2-6' (H601323-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S2-8' (H601323-14)

Chloride, SM4500CI-B	mg	mg/kg Analyzed By: A							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/17/2016	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S2-10' (H601323-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S3-1' (H601323-16)

BTEX 8021B	mg/	'kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357		
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686		
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552		
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128		
Total BTEX	<0.300	0.300	06/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL 10.

101% 73.6-140

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	06/17/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	mg/kg Analyzed By: MS		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	70.9	% 35-147						-	
Surrogate: I-Chlorooctadecane	76.0	% 28-171							

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midiand TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		
Project Location:	NONE GIVEN		

Sample ID: S3-2' (H601323-17)

Chioride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S3-3' (H601323-18)

Chloride, SM4500CI-B	mg;	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery		True Value QC	RPD	Qualifier
Chloride	9730	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S3-4' (H601323-19)

Chloride, SM4500CI-B	mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	06/17/2016	NÐ	432	108	400	3.77	

Sample ID: S3-6' (H601323-20)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S3-8' (H601323-21)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/17/2016	ND	432	108	400	3.77	

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Colorg Z. Kenne -



COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/08/2016
Reported:	06/22/2016	Sampling Type:	Soil
Project Name:	BONANZA FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S3-10' (H601323-22)

Chloride, SM4500CI-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/17/2016	ND	432	108	400	3.77	

Sample ID: S3-11'5" (H601323-23)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	rting Limit Analyzed		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/17/2016	ND	432	108	400	3.77	

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Cellery & Kuns-



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

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.
22.1	Chloride by SM4500CI-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

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Company Name: COG Operating LLC		8/11 70		ANALYSIS REQUEST
Project Manager: Dakota Neel		P.O. #:		
Address: 2208 West Main		Company: COG Operating LLC	ating LLC	
i a	Zip 88210	Attn: Robert McNeil	Neil	
a#: (575)748-6930 F		Address: 600 W Illinois	Ilinois	
		City: Midland		
Project Name: BONANZA FEDERAL COM #1		State: TX Zip: 79701	01	
2		Phone #: (432) 221-0388		
Sampler Name: Dakota Neel		1		
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3. Please fax written changes to 575-393-2476	21#			

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised August 8, 2011

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

Attached

1220 South St. Francis Dr. Santa Fe, NM 87505

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: BONANZA FEDERAL #001	Facility Type: Battery		

Surface Owner: Federal	Mineral Owner:	API No. 30-025-37590

LOCATI	ON OF	`RELE.	ASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	5	<u>195</u>	32E	1980	South	1650	West	Lea

Latitude 32.6876907 Longitude -103.7916718

Type of Release: Volume of Release: Volume Recovered: Produced Water 18 bbls PW 18 bbls PW Source of Release: Date and Hour of Occurrence: Date and Hour of Discovery: 3/24/2016 2:00 pm Flowline 3/24/2016 2:00 pm Was Immediate Notice Given? If YES, To Whom? 🗌 Yes 🔲 No 🖾 Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. 🗋 Yes 🖾 No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* This release was caused a poly flowline. Describe Area Affected and Cleanup Action Taken.* This release occurred in the pasture to the south side of the pad. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** Rent Surf Signature: Approved by Environmental Specialist: Printed Name: Robert Grubbs Jr. Title: Senior Environmental Coordinator Approval Date: Expiration Date:

Conditions of Approval:

Phone: 432-683-7443

* Attach Additional Sheets If Necessary

Date: April 7, 2016

E-mail Address: rgrubbs@concho.com

NATURE OF RELEASE