

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.

Site Ranking: 0							
	W per SEO: >100						
S1	CI-						
1'	1700						
21	6800						
3'	9200						
41	10700						
6'	4720						
8'	496						
10'	352						
12'	576						
52	CI-						
1'	2040						
2'	5840						
31	11500						
41	7060						
6'	80						
8'	224						
10'	256						
53	CI-						
1'	5330						
21	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,

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/qa/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.

Celeg D. Keens

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



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Jodi Henson

Sample Received By:

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

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	06/21/2016	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	310					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	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/	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	% 35-147				- 122			
Surrogate: 1-Chlorooctadecane	75.3 9	6 28-171							

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

Analyte Result Reporting Limit Analyzed Method Blank BS				
region blank by	% Recovery	True Value QC	RPD	Qualifier
Chloride 6800 16.0 06/17/2016 ND 432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bebilty and cherits estrictive reinvoly for any claim arising, whether based in contract or tort, shall be limited to the amount paid by cherit for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waved unless made is writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for including those for negligence and only other cause whitsoever shall be deemed waved unless made is writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for including those for negligence and only other causes the service shall be deemed waved unless including those for negligence and only other causes the service shall be deemed waved unless including those for negligence and only other causes. In no event shall Cardinal Laborstones.

alex Z. Kenn

Celey D. Keene, Lab Director/Quality Manager



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-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	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	06/17/2016	ND	432	108	400	3.77	

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

Chloride, SM4500CI-B	mg/	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, SM4500C!-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	₿S	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/17/2016	МĐ	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Liability and Damages. Cardinal's Bability and chert's exclusive remetly for any claim arising, whether based in contract or tank, shall be limited to the amount paid by chart for analyses. All claims, including those for negligence and any other cause whistoners shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or auccessors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Colleg & Keins

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 12



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

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

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 576

16.0

Reporting Limit

06/17/2016

Analyzed

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier 3.77

Sample ID: 52-1' (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 (PIC	102 %	6 73,6-140)						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier

Chloride, SM4500CI-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	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

77.3 % 78.8 %

Surrogate: 1-Chlorooctadecane

28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and client's exclusive rem with comparison of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, set, efficient or successors among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such if not be reproduced except in full with written approval of Cardinal Laboratomes.

Colleg 7 Keens

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 12



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number: Project Location:

Analyte

NONE GIVEN

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Cool & Intact

Soil

Sampling Condition: Sample Received By:

Jodi Henson

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

mg/kg

Result

5840

Analyzed By: AP

Reporting Limit 16.0

Reporting Limit

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed 06/17/2016 Method Blank ND

BS 432 % Recovery 108

True Value QC

RPD Qualifier

400 3.77

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

Chloride,	SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP Analyzed

3.77

Chloride

Chloride

Chloride

Chloride

Chloride

11500

Result

Result

7060

Result

80.0

Result

224

16.0 06/17/2016 Method Blank ND

BS 437 % Recovery 108

True Value QC 400

RPD Qualifler

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

% Recovery

True Value QC

RPD Qualifier

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

432

108

400

3.77

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

Reporting Limit

Analyzed 06/17/2016

Analyzed

06/17/2016

Analyzed

06/17/2016

Method Blank ND

Method Blank

ND

BS

432

B\$

432

% Recovery

True Value OC

RPD

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

108

% Recovery

108

400

True Value QC

400

3.77

RPD

3.77

Cardinal Laboratories

*=Accredited Analyte

Qualifier

PLEASE NOTE: Liebthy and Damages. Cardinal's Rabbiny and cherc's exclu es, affiliates or successors ensure out of or related to the performa

Colony & Kenns

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name: Project Number: **BONANZA FEDERAL COM #1**

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

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

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 256

Reporting Limit 16.0

Analyzed 06/17/2016 Method Blank ND

432

% Recovery 108

True Value QC 400

RPD

Qualifier 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					
A									

Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.6-14	0						
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.	/kg	Analyze	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleant's exclusive remedy for any clean arising, whether based in contract or tort, shall be limited to the amount paid by cleant for analyses. All cleans, including those for neglegence and any other cause whatboever shall be deemed warved unless made in watering and received by Cardinal within thirty ((iii) days after completion of the applicable service. In no event, shall Curdinal be liable for incidental or consequential clamages, excluding, without limitation, business interruptions, loss of use, or lumin of profits incurred by cleant, its submishanes, artiflaters or successors ensuing out of or related to the performance of the services hereunder by Cerdinal, regardless of whether such claims to based Jeron any of the above stated reasons or otherwise. Results relate only to the samples described above. The reproduced except in full with written approval of Cardinal Liaboratories.

Celley 7. Kann

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 12



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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/08/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

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

Chioride, SM4500Cl-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: 53-4' (H601323-19)

Chionae, SM4500CI-B	mg,	/ Kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	06/17/2016	МĐ	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	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Danlages. Cardinal's liability and clern's exclusive remedy for any clern ansing, whether besed in contract or tort, shall be limited to the amount paid by clert for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without familiation, business interruptions, loss of use, or loss of use, or loss of profits incurred by clerk, its subsidiance, atfliators or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Change Keens

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:

06/15/2016

Reported:

06/22/2016

Project Name:

BONANZA FEDERAL COM #1

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

06/08/2016

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		<u>. </u>			
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" (H6	01323-23)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/17/2016	ND	432	108	400	3 77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Listolary and Damages. Cardinal's liability and client's exclusive remedy for any client arrang, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All clients, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liboratones.

Celley & Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 12



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 SM4500Ct-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

*=Accredited Analyte

PLEASE NOTE: Liabeley and Damages. Cardinal's Rabeley and chemits exclusive remedy for any claim arising, whether based on contract or tort, shall be limited to the amount paid by cleart for analyses. All claims, including those for neglegence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without furnity minute for the performance of the services hereunder by Cardinal, regardless of whether such claims to 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 written approval of Cardinal Laboratomes.

Celley & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 12



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

	(575) 393-2326 FAX (5/5) 383-24/0	100	A Comment of the last of the l				8	AN	ANALYSIS	REQUEST	IS	
Company Name:	COG Operating LLC		Bitt 10	100		1	$\frac{1}{1}$	1	1	- 1		_
Project Manager:	Dakota Neel		P.O. #:		1		-				_	
Arldress: 2208 W	2208 West Main		Company: CO	COG Operating LLC			_	_				
듩	State: NM	Zip 88210	Attn: Ro	Robert McNeill	1		_	_				
*	(575) 748-6930 Fax #:		Address:	600 W Illinois			_	V 52				
		- 1	City:	Midland	_							_
	BONANZA ESDERAL COM#1		State: TX ZI	Zip: 79701			_	_	_			_
Project Name: oc	NAMES COLOR OF COMM		Phone #: (432) 221-0388	21-0388	_		_			_		
Project Location:			THOUSE IT A TOTAL				3	-				
Sampler Name:	Dakota Neel		Fax #:	SAMPLING	1			_				
A WO SSII NY I BOS		MATRIX	PRESERV.	SAULTING				_				
FOR DAI USE ONLY	į	VATER				3 22						
Lab I.D.	Sample I.D.	G)RAB OR CONTAIN GROUNDV WASTEWA SOIL OIL SLUDGE	OTHER: ACID/BAS ICE / COO OTHER:	DATE TIME	BTEX	ТРН	Chloride	-				_
THOUSE	84-4		×	6/8/16 9:30 AM	AM ×	×	×		1	-		
3	\$1-2		×	6/8/16 9:30 AM	¥		×		1			
N	S1-3		×	6/8/16 9:30 AM	AM		×	-	-			
L	\$1-4		×	6/8/16 9:30 AM	A	20.4	: ×	_	+			
7,7	S1-6'		Ļ		¥		< >	-				
	S1-8:		×		AM	1	٠,		1			
ي	\$1-10'		×		9:30 AM	1	< >			1		
50	S1-12'		×	6/8/16	9:30 AM		,		-6			
PLEASE WOTE: Labely and	B 12	D- D-	ed it contract or but, what he broked to the amount cost by the claret for the a an writing and received by Cardenal within 30 days after completion of the a	what he broked to the amount paid by the claim for the aid by Cardenal within 30 days after completion of the appl	2 1							
service. In the event shall Car	revice. In no overal shull Control to bashe for incidental or companyumtal damagon, including motor, in no overal shull Control to bashe for incidental to the parliamental of operators have under the Con-		are is becoming on any of the	ery of the shape stated restors to	Phone Result:	4	т П	No A	Add'i Phone #:	10 10		
A B	Date:		and!		REMARKS: Yes	ocho co	С	No	ADDITES *-			
Relinquished By:		Received By			Icarrasco@conch atrujillo@concho	concho ncho ci	com com					
Delivered By: (Circle One)	(Circle One)	Sample Condition	CHE	CKED BY:								
Sampler - UPS - Bus - Other	- Bus - Other:	いり、日本に	No.									
3. Please fax writ	3. Please fax written changes to 575-393-2476	5										



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

					als)	(Initials)	CT Tallion	Sample Condition Cool Intact	ပ ရွ	0	8.6	Delivered By: (Circle One)	Delivered B
											Time:		
		a ca	ncho.co	REMARKS: dneel2@concho.com lcarrasco@concho.com atruiiilo@concho.com	, L	ingcla ("abrera	C	de	S Park	6		37:	Relinquished By:
Add' Frome #: Add' Fax #:	N O	Yes O	00	Phone Result: Fax Result:	פות	-			eceived By:	Bacely	Date: 6/15/2016	y:	Relinquished By:
ari Orose &:	1		1	la subsediares. a or otherwise.	By the stated by chemators	, business viseruptors, toss of use, or toss of profits browned b so of whether such obsers is based upon evry of the above stated	In the of the	THE PERSON OF				analyses. All claims trainaing those for negligence and any other cause werecovers are selected, between themapones, bearing the selected from the constant of the contract of	arelyses. All claras trake ográce. In no evert shall (
				THE CHAPTER OF THE PERSON	the amount paid by lan 30 days salar oo	had be broked to d by Cardrad wit	raci or tork, a) based in con	and the		and a exclusive namedy for a	PLEASE NOTE: Labely and Comages. Cardena's highly and chart's eachable ramedy for any class armay whether based in contact or too, what he lamed in the amount paid by the class to the property of the second second to the secon	PLEASE NOTE: Limbery a
			-										
		7		8.30 AM	מושוס	×					טי	S2- 10°	-15
		< >		9:30 AM	-	×					1000	S2-8 [*]	<u>ا</u> حا
		۷ :		200		>				1		S2- 6'	-13
		×		MA OE-O		(+		Ť	-		52-4	<u></u>
		×		9:30 AM	6/8/16 9	×						3	
many and a second		×		9:30 AM	6/8/16 9	×	22					S2- 3	- 0
	 	>	+	9:30 AM	6/8/16 9	×				- 1		S2- 2'	7
		()	1	Ī	-	×				-		S2- 1'	9-
	_	×	×	Y MA OF	-	۲	-	C		-1-			100 V
		Chloride	ТРН	BTEX	DATE	ICE / COOL OTHER :	SLUDGE OTHER: ACID/BASE:	SOIL DIL	GROUNDWATER WASTEWATER	G)RAB OR (C)OMP.	.D	Sample l.D.	Lab I.D.
	_				SAMPLING	PRESERV.	P	MATRIX		\dashv			TOP IN INC. OF A
							Fax #		ĺ			Dakota Neel	Campier Name:
					221-0388	Phone #: (432) 221-0388	Phon						Project Location:
					Zip: 79701		State: TX				OM #1	BONANZA FEDERAL COM #1	ene:
					Midland		City				Project Owner:		Project #:
					600 W Illinois	50	Address.				Fax #:	(575) 748-6930	Phone #:
	_				Robert McNeill	20	Attn:	88210	000	Zip	State: NM		City: Artesia
				LLC	COG Operating LLC		Company:					2208 West Main	Address: 2208
	- 10						P.O. #:					Dakota Neel	Project Manager:
٠.	-	1	1									COG Operating LLC	Company Name:
ANALYSIS REQUEST	ANA	1	1							٦	((575) 393-247	(575) 393-2326 FAX (575) 393-2476	

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

Sampler - UPS - Bus - Other.



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

10.01		Ì	۱				į		Service Servic				SEST SELECTION
Company Name: COG	COG Operating LLC						1				1		
Project Manager: Dakot	Dakota Neel				P.O. #:	**				******			
Address: 2208 West Main					Com	Company:		COG Operating LLC	ing LLC				
<u> </u>	State: NM		Zip	88210	Attn:	. 1		Robert McNeill	e ii				
市	(575) 748-6930 Fax #:				Add	Address:		600 W Illinois	nois				
	Project Owner:	ñ			City:			Midland					
- THE	BONANZA FEDERAL COM #1				Stat	State: TX	ĺ	Zip: 79701					
₹					짱	事	(432	Phone #: (432) 221-0388					
	Dakota Neel				Fax #:	*	8						
٦				MATRIX	170	PRESERV	ERV	SAMPLING	ā				310
	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE; ICE / COOL	OTHER:	DATE	TIME	втех	трн	Chloride	
10011	S3-1'					×		6/8/16	8:30 AM	×	×	×	
Je	S3-2'				· 1	×		6/8/16	8:30 AM			×	
	S3- 3:	-000			rra.	×		6/8/16	8:30 AM	1		×	
96	S3- 4'	78	5.3			×		6/8/16	8:30 AM			×	
ည် - သ	S3- 6'					×		6/8/16	8:30 AM		1	×	
101	S3-8'					×	100	6/8/16	8:30 AM			×	
100	S3- 10'				9.55		×	6/8/16	8:30 AM	Π		×	
8 8 W	S3-11 ¹ 5"	1					×	6/8/16	8:30 AM	Ī		×	
		i jer	7		_	_						-	

PLEATE HOTE: Leadiny and Danneges. Cookins's habitay and clearf's exchance remody for any clean strang enterior based in as analyses. All cleans including Brose for negligance and any other causes whetepower shall be deemed wassed unless and/or in set service. In no event shall Condens be habit for exchange or consequental damages, including vibrout finishers, business resmap Relinquished By: Relinquished By: Delivered By: (Circle One) S. S. Date: 6/15/2016 Time: el utiless mode in selling and received by Cardinal within 30 days after completion of the applicable store, business resmiptions, beand use, or loss of profits received by districts subsidiaries, Sample Condition Cool Intact Cool Intact Ves Yes Flavore Result: Pes
Flavore Result: Pes
Flavore Result: Pes
Flavore Result: Pes
REMARKS:
dneel2@concho.com
icamasco@concho.com
atruillo@concho.com CHECKED BY: (Initials) □ Yes □ No

Add'l Phone #: Add'l Fax #:

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

サンの

Sampler - UPS - Bus - Other:

Page 12 of 12

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

Form C-141
Revised August 8, 2011
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.

			Kele	ase Notific	catto	n and Co	rrective A	ction	l				
						OPERA	ГOR		Initia	al Report		Final	Report
Name of Co	mpany: C	OG Operati	ng LLC			Contact: Ro	bert McNeill						
Address: 60	0 West Illi	inois Avenue	, Midlan	d TX 79701		Telephone N	No. 432-230-00	77					
Facility Nan	ne: BONA	NZA FEDE	RAL #00	1		Facility Typ	e: Battery						
Surface Ow	ner: Feder	al		Mineral (Owner:				API No	. 30-025-3	7590		
				 					1121110	. 50 025 5	1000		
11-21-4	C	Tr	D 1			N OF REI		E . a	** . * *				
Unit Letter K	Section 5	Township 19S	Range 32E	Feet from the 1980	Norti	h/South Line South	Feet from the 1650	ı	West Line West		Coun Lea	•	
					687690		-103.7916718		7 031		200		
				NAT	ΓURE	OF RELI	EASE			_			
Type of Relea Produced Wa						Volume of 18 bbls PW			Volume R 18 bbls P	Recovered: W			
Source of Rel Flowline	lease:					Date and H 3/24/2016	our of Occurrenc	e:	Date and 3/24/2016	Hour of Dis	covery	:	·
Was Immedia	ite Notice C		Yes \square	No 🛛 Not R	equired	If YES, To			3/24/2010	2.00 pm			
By Whom?					7	Date and H	our						
Was a Watero	ourse Reac	hed?					lume Impacting t	he Wate	ercourse.				
			Yes 🛚	No									
Describe Area This release o release and w	a Affected a accurred in the will present for that the interest of the course of the c	a poly flowling and Cleanup Athe pasture to the a remediation of the contraction of the c	the south son work p	en.* side of the pad. Clan to the NMOC	CD for a	approval prior the best of my	pill site sampled t to any significant knowledge and u	remedi:	ation work,	uant to NM	OCD n	les and	
public health should their o	or the envir perations had ment. In a	onment. The ave failed to a dition, NMO	acceptance dequately CD accept	e of a C-141 repo investigate and r	ort by the remedian	ne NMOCD ma te contamination	d perform correct arked as "Final Roon that pose a three the operator of r	eport" d eat to gr esponsi	oes not reli ound water bility for co	eve the oper , surface wa ompliance w	rator of iter, hui vith any	liabilit man he	ty
Signature:	Rent	d-f					OIL CONS			<u>DIVISIC</u>	<u>N</u>		
Printed Name	: Robert G	rubbs Jr.				Approved by	Environmental Sp	pecialist					
Title: Senior I	Environmen	ital Coordinat	or	_		Approval Date	e:	1	Expiration I	Date:			
E-mail Addre	ss: rgrubbs(@concho.com				Conditions of	Approval:			Attached			
Date: April Attach Addit		ts If Necessa		one: 432-683-74	43	13							