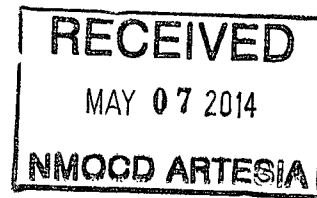




Amanda Trujillo
Senior Environmental Coordinator

May 7, 2014

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210



Re: Wild Cap State Com #5
30-015-37144
Sec. 36, T19S-R31E
Eddy County, NM

Mr. Mike Bratcher,

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 February 13, 2014.

Background

The release was caused by a heater treater becoming over pressurized and discharging fluid. The situation was remediated by replacing the heater treater and impacted material with the berm. The facility had a liner beneath the production equipment; however the liner did not extend to cover the berms. During the clean-up the old liner was removed and a new liner was placed to overlap the berms. An impacted area outside the berm measures approximately 4500 square feet. This area was addressed with an initial scrap and all impacted material hauled to an NMOCD approved facility.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at approximately 400'. No well information could be found for Section 23.

Soil Assessment and Analytical Results

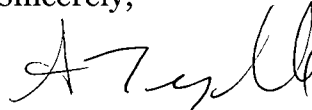
Initial soil samples were taken on 4-7-14. Samples indicated TPH and BTEX were within RRALs for site ranking zero. Chloride concentration in two sampling areas (S2 and S3) were elevated for surface reclamation, therefore further delineation was conducted. Samples were taken at 3' and 5' feet and results indicated concentrations favorable for surface reclamation. (see attached site diagram)

Work Plan

COG proposes the excavation of the 50' x 90' feet area behind the batter (see diagram) at a depth of 1'. The area will be backfilled with like material from the nearby dunal complex. This will aid in the rehabilitation of the area by using the existing seed bank.

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 my with any questions or concerns at (505) 350-1336

Sincerely,

A handwritten signature in black ink, appearing to read 'A Trujillo', with a stylized, cursive script.

Amanda Trujillo

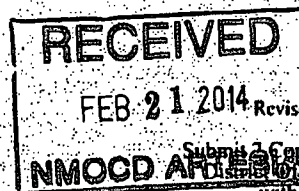
Senior Environmental Scientist

Enclosed

- (1) C-141 Initial
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
J.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 October 10, 2003

Release Notification and Corrective Action

HMP 1406924194 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC 229137	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Wild. Cap State Com #005H	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	
		Lease No. (API#)	30-015-37144

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	36	16S	31E					Eddy

195

Latitude 32.62332

Longitude 103.82390

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	40bbls of oil 30bbls of produced water	Volume Recovered	Obbbs of oil Obbbs of produced water
Source of Release	Heater treater	Date and Hour of Occurrence	02-13-2014	Date and Hour of Discovery	02-13-2014 3:00pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher - NMOCD		
By Whom?	Michelle Mullins	Date and Hour	02-14-2014 07:29 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.*

The heater treater over pressured, exploded, and caught fire. All of the oil was burnt off. The heater treater will be replaced.

Describe Area Affected and Cleanup Action Taken.*

Initially 40bbls of oil and 30bbls of produced water were released. We were unable to recover any of the oil or produced water due to it being burnt off. 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

Signature:

Printed Name:

Robert Grubbs Jr.

Title:

Senior Environmental Coordinator

E-mail Address:

rgrubbs@concho.com

Approved by District Supervisor:

Approval Date:

3/10/2014

Expiration Date:

Conditions of Approval:

Remediation per OCD Rule & Guidelines, &
the Approval by SCM. SUBMIT REMEDIATION

Attached ☐

02-21-2014

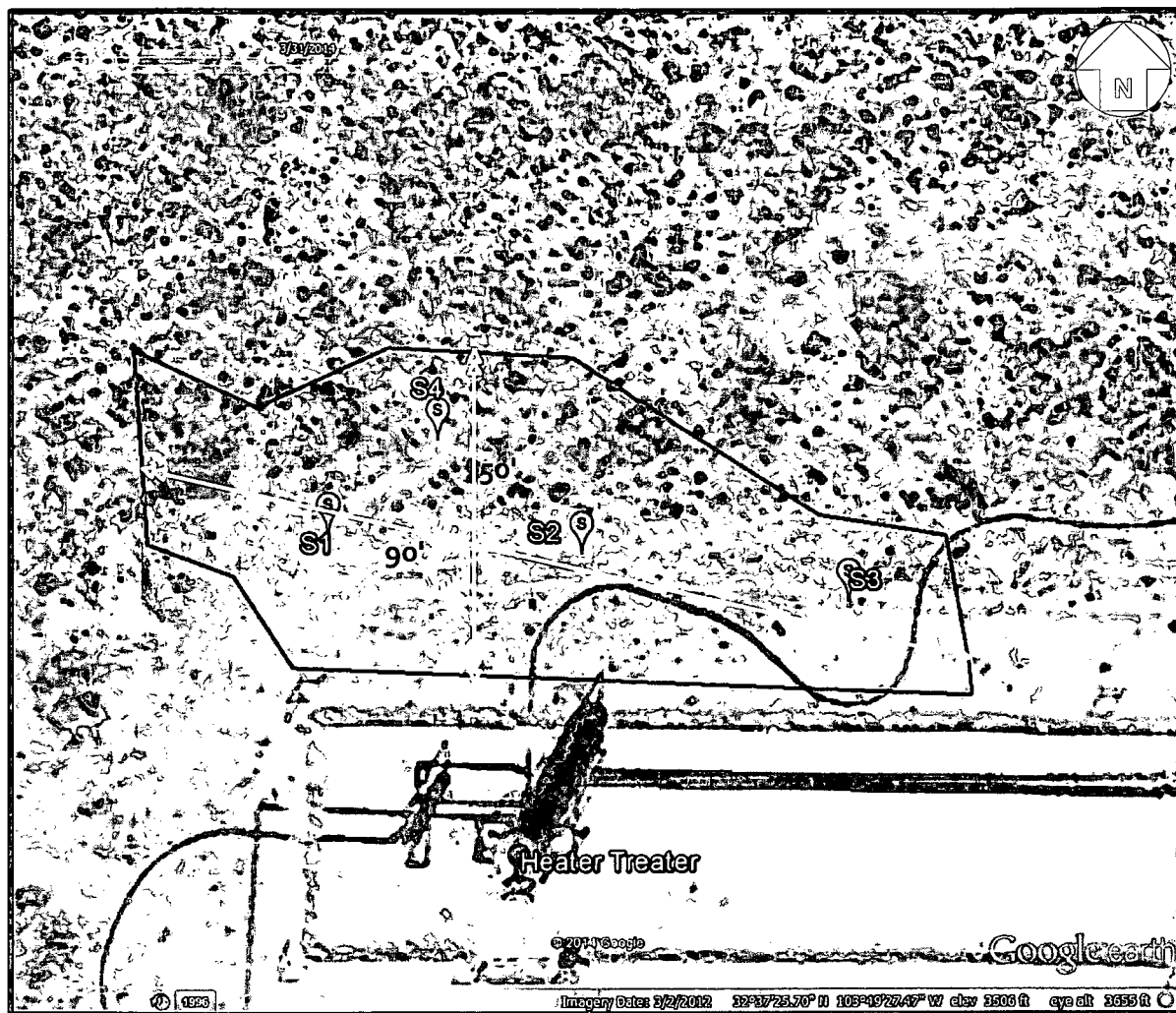
Phone: 432-661-6601

Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

4/10/2014

2R 2190



Site Ranking: Zero

Depth to GW per SEO: 400'

S1	DRO	GRO	TPH	BTEX	CI-
1'	< 10.0	< 10.0	< 10.0	<0.300	160
S2	DRO	GRO	TPH	BTEX	CI-
1'	10.5	< 10.0	< 10.0	<0.300	5600
3'	—	—	—	—	48
5'	—	—	—	—	32
S3	DRO	GRO	TPH	BTEX	CI-
1'	< 10.0	< 10.0	< 10.0	<0.300	2720
	—	—	—	—	32
	—	—	—	—	80
S4	DRO	GRO	TPH	BTEX	CI-
1'	< 10.0	< 10.0	< 10.0	<0.300	272
Bold values exceed RRALs per NMOCD Guidelines (1993)					

March 27, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: MILLER B FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

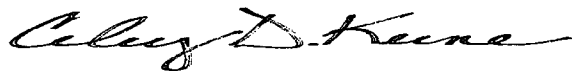
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

Received:	03/26/2014	Sampling Date:	03/25/2014
Reported:	03/27/2014	Sampling Type:	Soil
Project Name:	MILLER B FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC 23-T17S-R32E		

Sample ID: S1 - 2' (H400901-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2014	ND	1.98	98.8	2.00	8.58	
Toluene*	0.195	0.050	03/27/2014	ND	1.90	95.2	2.00	8.25	
Ethylbenzene*	0.251	0.050	03/27/2014	ND	1.88	93.8	2.00	7.88	
Total Xylenes*	0.382	0.150	03/27/2014	ND	5.51	91.8	6.00	9.07	
Total BTEX	0.828	0.300	03/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/27/2014	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.3	10.0	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	15.5	10.0	03/27/2014	ND	200	100	200	1.66	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.3	10.0	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	15.5	10.0	03/27/2014	ND	200	100	200	1.66	

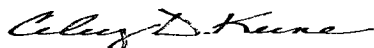
Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/26/2014
 Reported: 03/27/2014
 Project Name: MILLER B FEDERAL #3
 Project Number: NONE GIVEN
 Project Location: SEC 23-T17S-R32E

 Sampling Date: 03/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 2.5' (H400901-02)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.0	5.00	03/27/2014	ND	1.98	98.8	2.00	8.58	
Toluene*	206	5.00	03/27/2014	ND	1.90	95.2	2.00	8.25	
Ethylbenzene*	134	5.00	03/27/2014	ND	1.88	93.8	2.00	7.88	
Total Xylenes*	270	15.0	03/27/2014	ND	5.51	91.8	6.00	9.07	
Total BTX	626	30.0	03/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/27/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	6650	100	03/27/2014	ND	212	106	200	5.95		
DRO >C10-C28	15700	100	03/27/2014	ND	200	100	200	1.66		

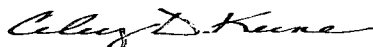
Surrogate: 1-Chlorooctane 254 % 65.2-140

Surrogate: 1-Chlorooctadecane 405 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
AMANDA TRUJILLO
2208 W. MAIN
ARTESIA NM, 88210
Fax To: NONE

Received: 03/26/2014
Reported: 03/27/2014
Project Name: MILLER B FEDERAL #3
Project Number: NONE GIVEN
Project Location: SEC 23-T17S-R32E

Sampling Date: 03/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 2.25' (H400901-03)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/27/2014	ND	1.98	98.8	2.00	8.58	
Toluene*	47.8	2.00	03/27/2014	ND	1.90	95.2	2.00	8.25	
Ethylbenzene*	48.3	2.00	03/27/2014	ND	1.88	93.8	2.00	7.88	
Total Xylenes*	79.1	6.00	03/27/2014	ND	5.51	91.8	6.00	9.07	
Total BTX	175	12.0	03/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	03/27/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2060	50.0	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	4660	50.0	03/27/2014	ND	200	100	200	1.66	

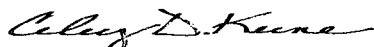
Surrogate: 1-Chlorooctane 146 % 65.2-140

Surrogate: 1-Chlorooctadecane 155 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

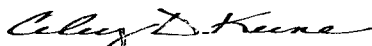
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

[illegible]

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Relinquished By: 		Date: 3/25/14 Time: 4:07 pm	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:		Date: 3/25/14 Time: 1:10	Received By: 		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.2 °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 4.U.	
REMARKS: Rush Samples					

XXXXXXXXXX

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54

April 08, 2014

AMANDA TRUJILLO

CONCHO OIL AND GAS-ARTESIA

2208 W. MAIN

ARTESIA, NM 88210

RE: WILD CAP STATE COM #5

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 11:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

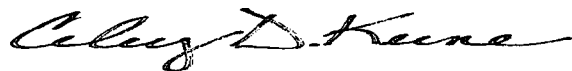
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 04/02/2014
 Reported: 04/08/2014
 Project Name: WILD CAP STATE COM #5
 Project Number: NONE GIVEN
 Project Location: SEC 36 T19S R31E

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jonathan Stegemoeller

Sample ID: S 1 (H400976-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/04/2014	ND	432	108	400	7.69	

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	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	203	101	200	5.74	


Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence 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 liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 04/02/2014
 Reported: 04/08/2014
 Project Name: WILD CAP STATE COM #5
 Project Number: NONE GIVEN
 Project Location: SEC 36 T19S R31E

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jonathan Stegemoeller

Sample ID: S 2 (H400976-02)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	04/04/2014	ND	432	108	400	7.69	

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	04/03/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	10.5	10.0	04/03/2014	ND	203	101	200	5.74	

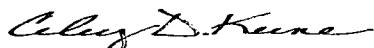
Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CONCHO OIL AND GAS-ARTESIA
 AMANDA TRUJILLO
 2208 W. MAIN
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 04/02/2014
 Reported: 04/08/2014
 Project Name: WILD CAP STATE COM #5
 Project Number: NONE GIVEN
 Project Location: SEC 36 T19S R31E

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jonathan Stegemoeller

Sample ID: S 3 (H400976-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	04/04/2014	ND	432	108	400	7.69	

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	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

CONCHO OIL AND GAS-ARTESIA
AMANDA TRUJILLO
2208 W. MAIN
ARTESIA NM, 88210
Fax To: NONE

Received: 04/02/2014
Reported: 04/08/2014
Project Name: WILD CAP STATE COM #5
Project Number: NONE GIVEN
Project Location: SEC 36 T19S R31E

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jonathan Stegemoeller

Sample ID: S 4 (H400976-04)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/04/2014	ND	432	108	400	7.69	

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	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	16.8	10.0	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

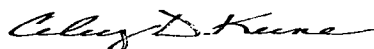
Notes and Definitions

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



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Relinquished By: 	Date: 4/2/14 Time: 11:07	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By:	Date: Time:	Received By:	Add'l Phone #: Add'l Fax #:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.62	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: 
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April 28, 2014

AMANDA TRUJILLO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WILD CAP STATE #5

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

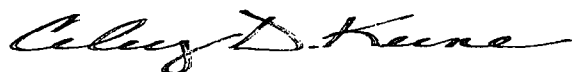
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 04/23/2014
Reported: 04/28/2014
Project Name: WILD CAP STATE #5
Project Number: NONE GIVEN
Project Location: SEC 36 T19S R31ESampling Date: 04/16/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: S2 3' (H401220-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2014	ND	400	100	400	3.92	

Sample ID: S2 5' (H401220-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2014	ND	400	100	400	3.92	

Sample ID: S3 3' (H401220-03)

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	04/25/2014	ND	400	100	400	3.92	

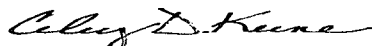
Sample ID: S3 5' (H401220-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/25/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

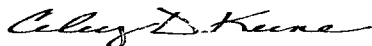
Notes and Definitions

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

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Relinquished By:	Date: 4/23/14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>[Signature]</i>	Time: 8:30am		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 4/23/14	Received By:	REMARKS:	
	Time: 10:10	<i>J. Garbrough</i>		
Delivered By: (Circle One)	2.00c	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>F. V</i>	

#54