

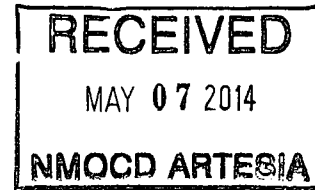


**Lupe Carrasco**  
Environmental Coordinator

May 7, 2014

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

Re: Wild Cap State #4H  
30-015-36750  
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 4/22/14.

### **Background**

The release was caused by an act of vandalism in which the seal on the valve had been cut and the valve opened. Upon discovery the valve was closed and the seal was replaced. The area impacted measure approximately 50' wide x 250' long. The initial release consisted of 125 barrels of crude oil with 40 barrels recovered. The initial scrape consisted of approximately 4" and was hauled for disposal at a NMOCD approved facility.

### **Groundwater**

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero (~400').

### **Soil Assessment and Analytical Results**

The impacted area was split into three sections (S1, S2, S3) for the purpose of delineation sampling. Samples were taken at depths of 1' and 2' within the sample sections. Attached for your consideration is a copy of a Site Diagram which includes a sample summary table and a copy of the Analytical Results.

Sample results show TPH and BTEX levels to be non-detect or with RRAL's at a depth of 1' and 2'.

May 7, 2014

# Wild Cap State #4H

5/07/2014 7:36:30 AM

WILDCAP 4 07:36:30 AM  
W103.815°

S3 S2 S1

Site Ranking: Zero

Depth to GW per Chevron Trend Map: ~400'

S1	DRO	GRO	TPH	BTEX
1'	ND	ND	ND	ND
2'	ND	ND	ND	ND
S2	DRO	GRO	TPH	BTEX
1'	ND	ND	ND	ND
2'	ND	ND	ND	ND
S3	DRO	GRO	TPH	BTEX
1'	187	ND	ND	ND
2'	ND	ND	ND	ND

115 ft

1996

© 2014 Google

Imagery Date: 3/2/2012 Lat: 32.62304094lon: -103.815590° etc





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

April 30, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WILD CAP STATE #4H

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, reading "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 04/23/2014  
 Reported: 04/30/2014  
 Project Name: WILD CAP STATE #4H  
 Project Number: NONE GIVEN  
 Project Location: SEC 36 T19S R31E

 Sampling Date: 04/16/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1-1' (H401219-01)**

BTEX 8260B			mg/kg		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/28/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/28/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/28/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/28/2014	ND					

Surrogate: Dibromofluoromethane 99.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	207	103	200	12.5	

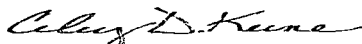
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
LUPE CARRASCO  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 04/23/2014  
Reported: 04/30/2014  
Project Name: WILD CAP STATE #4H  
Project Number: NONE GIVEN  
Project Location: SEC 36 T19S R31E

Sampling Date: 04/16/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1-2' (H401219-02)**

BTEX 8260B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/28/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/28/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/28/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/28/2014	ND					

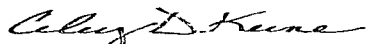
Surrogate: Dibromofluoromethane 101 % 61.3-142  
Surrogate: Toluene-d8 105 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	207	103	200	12.5	
Surrogate: 1-Chlorooctane	98.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	97.8 %	63.6-154							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
LUPE CARRASCO  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 04/23/2014  
Reported: 04/30/2014  
Project Name: WILD CAP STATE #4H  
Project Number: NONE GIVEN  
Project Location: SEC 36 T19S R31E

Sampling Date: 04/16/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2-1' (H401219-03)**

BTEX 8260B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/29/2014	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142  
Surrogate: Toluene-d8 105 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	207	103	200	12.5	
Surrogate: 1-Chlorooctane	102 %	65.2-140							
Surrogate: 1-Chlorooctadecane	104 %	63.6-154							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 04/23/2014  
 Reported: 04/30/2014  
 Project Name: WILD CAP STATE #4H  
 Project Number: NONE GIVEN  
 Project Location: SEC 36 T19S R31E

 Sampling Date: 04/16/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2-2' (H401219-04)**

BTEX 8260B			mg/kg		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/29/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 98.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	207	103	200	12.5	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 04/23/2014  
 Reported: 04/30/2014  
 Project Name: WILD CAP STATE #4H  
 Project Number: NONE GIVEN  
 Project Location: SEC 36 T19S R31E

 Sampling Date: 04/16/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S3-1' (H401219-05)**

BTEX 8260B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/29/2014	ND					

Surrogate: Dibromofluoromethane 99.8 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
<b>DRO &gt;C10-C28</b>	<b>187</b>	10.0	04/24/2014	ND	207	103	200	12.5	

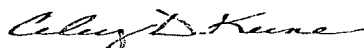
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 04/23/2014  
 Reported: 04/30/2014  
 Project Name: WILD CAP STATE #4H  
 Project Number: NONE GIVEN  
 Project Location: SEC 36 T19S R31E

 Sampling Date: 04/16/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S3-2' (H401219-06)**

BTEX 8260B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/29/2014	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.6 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	207	103	200	12.5	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

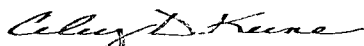
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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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

Page 9 of 9

Company Name: COG Operating LLC				BILL TO		ANALYSIS REQUEST																					
Project Manager: Lupe Carrasco				P.O. #:																							
Address: 2208 West Main				Company: COG Operating LLC																							
City: Artesia		State: NM		Zip: 88210		Attn: Robert McNeill																					
Phone #: (575) 748-6940		Fax #:		Address: 600 W Illinois																							
Project #:		Project Owner:		City: Midland																							
Project Name: Wild Cap State #4H				State: TX		Zip: 79701																					
Project Location:				Phone #: (432) 221-0388																							
Sampler Name: Lupe Carrasco				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH	Chloride										
4401219																											
1.	S1-1'												4/16/14		X	X											
2.	S1-2'												4/16/14		X	X											
3.	S2-1'												4/16/14		X	X											
4.	S2-2'												4/16/14		X	X											
5.	S3-1'												4/16/14		X	X											
6.	S3-2'												4/16/14		X	X											

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4/23/14 Time: 8:30 AM	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 4.23.14 Time: 10:10	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.8 DC	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) F.Y.
REMARKS: gcarrasco@concho.com			

FORM-000 R 2.0

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

#54

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
900 Rio Brazos Road, Aztec, NM 87410  
District IV  
20 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

RECEIVED

APR 22 2014

NMOCD ARTESIA

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

nHmp 14/2225422

Name of Company		Contact	
COG OPERATING LLC 229137		Robert McNeill	
Address 600 West Illinois Avenue, Midland, TX 79701		Telephone No. 432-230-0077	
Facility Name Wild Cap State #004H		Facility Type Tank Battery	
Surface Owner State		Mineral Owner	
		Lease No. (API#) 30-015-36750	

OPERATOR

☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	36	19S	31E					Eddy

Latitude 32.62333

Longitude 103.81549

NATURE OF RELEASE

Type of Release Oil	Volume of Release 125bbbs	Volume Recovered 40bbbs
Source of Release Oil Tank	Date and Hour of Occurrence 04-01-2014	Date and Hour of Discovery 04-01-2014 10:00am
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 04-02-2014 08:34	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

This was an act of vandalism, the seal had been cut off the valve was lying on the ground. Closed valve and replaced seal.

Describe Area Affected and Cleanup Action Taken.\*

Initially 125bbbs of oil were released. We were able to recover 40bbbs of oil with a vacuum truck. All free fluids have been recovered. 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: *Robert Grubbs Jr.*  
Printed Name: Robert Grubbs Jr.  
Title: Senior Environmental Coordinator  
E-mail Address: rgrubbs@concho.com  
Date: 04-21-2014 Phone: 432-661-6601

Approved by District Supervisor: *[Signature]*

Approval Date: 5/2/14

Expiration Date: NA

Conditions of Approval:

Remediation per OCD Rule &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NO LATER THAN:  
6/2/14

Attached ☐

222-2280

\* Attach Additional Sheets If Necessary