



Robert Grubbs
Sr. Environmental Coordinator

July 26, 2016

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

Re: Nervous Horz Com #002H
Sec. 26, T18S-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 May 17, 2016.

Background

The release was caused when a 3" steel line failed due to corrosion resulting in the release of 22 barrels of produced water. Upon discovery, the line was isolated and repaired and a vac truck was dispatched to soak up standing fluid. The release remained within the unlined facility.

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, and S2 on the attached Site Diagram. According to the analytical results obtained, S1 has an elevated concentration of chloride to a depth of 8' with delineation showing a decrease in concentration. S2 resulted in elevated chloride concentrations to a depth of 5' and no further delineation was achieved due to the close proximity to the equipment and inability to use a backhoe in the area. Copies of the analytical results along with a site diagram and sample summary table are attached for your consideration.

Site Ranking: 0	
Depth to GW per SEO: >100	
S1	Cl-
1'	784
2'	720
3'	352
4'	672
6'	944
8'	1410
10'	48
12'	64
14'	80
S2	Cl-
Surface	20000
1'	672
2'	576
3'	32
4'	112
5'	416

Work Plan

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

S1 & S2– Excavate to a depth of approximately 6” due to the close proximity of the release to equipment.

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,



Robert Grubbs,

Sr. Environmental Coordinator

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

June 30, 2016

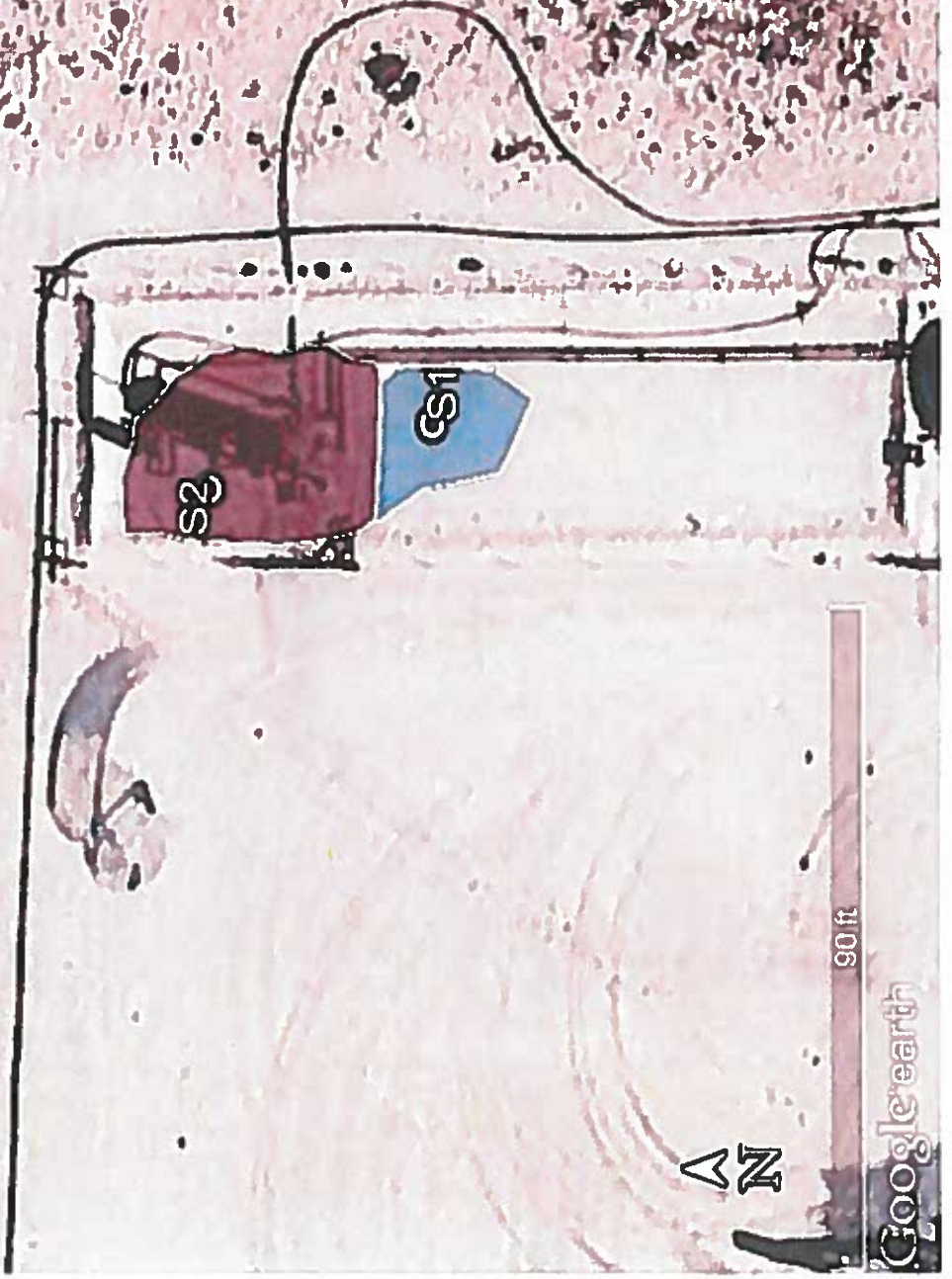
(30-015-37143) Nervous Horz Com #002H

Lat/Long 32 7104416, -103 8181163

Legend

- Sample Points
- S1 (348 sq ft)
- S2

Site Ranking: 0	
Depth to GW per SEO: >100	
S1	Cl-
1'	784
2'	720
3'	352
4'	672
6'	944
8'	1410
10'	48
12'	64
14'	80
S2	Cl-
Surface	20000
1'	672
2'	576
3'	32
4'	112
5'	416



June 06, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: NERVOUS HORZ COM #2H

Enclosed are the results of analyses for samples received by the laboratory on 06/01/16 11:00.

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 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 06/01/2016
Reported: 06/06/2016
Project Name: NERVOUS HORZ COM #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H601194-01)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.90	94.8	2.00	0.348	
Toluene*	<0.050	0.050	06/02/2016	ND	1.96	98.0	2.00	0.426	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.81	90.3	2.00	0.271	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.60	93.3	6.00	0.347	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/03/2016	ND	416	104	400	0.00	

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	06/02/2016	ND	197	98.7	200	5.73	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	209	104	200	6.78	

Surrogate: 1-Chlorooctane 63.9 % 35-147

Surrogate: 1-Chlorooctadecane 87.1 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 06/01/2016
Reported: 06/06/2016
Project Name: NERVOUS HORZ COM #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H601194-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.90	94.8	2.00	0.348	
Toluene*	<0.050	0.050	06/02/2016	ND	1.96	98.0	2.00	0.426	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.81	90.3	2.00	0.271	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.60	93.3	6.00	0.347	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	06/03/2016	ND	416	104	400	0.00	

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	06/02/2016	ND	197	98.7	200	5.73	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	209	104	200	6.78	

Surrogate: 1-Chlorooctane 61.9 % 35-147

Surrogate: 1-Chlorooctadecane 81.7 % 28-171

Sample ID: S1 - 3' (H601194-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/03/2016	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 06/01/2016
Reported: 06/06/2016
Project Name: NERVOUS HORZ COM #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H601194-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/03/2016	ND	432	108	400	0.00	

Sample ID: S1 - 6' (H601194-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/03/2016	ND	432	108	400	0.00	

Sample ID: S1 - 8' (H601194-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	06/03/2016	ND	432	108	400	0.00	

Sample ID: S1 - 10' (H601194-07)

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	06/03/2016	ND	432	108	400	0.00	

Sample ID: S1 - 12' (H601194-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/03/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 06/01/2016
Reported: 06/06/2016
Project Name: NERVOUS HORZ COM #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 14' (H601194-09)

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	06/03/2016	ND	432	108	400	0.00	

Sample ID: S2 - SURFACE (H601194-10)

BTX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.90	94.8	2.00	0.348	
Toluene*	<0.050	0.050	06/02/2016	ND	1.96	98.0	2.00	0.426	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.81	90.3	2.00	0.271	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.60	93.3	6.00	0.347	
Total BTX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/03/2016	ND	432	108	400	0.00	

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	06/02/2016	ND	197	98.7	200	5.73	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	209	104	200	6.78	

Surrogate: 1-Chlorooctane 52.4 % 35-147

Surrogate: 1-Chlorooctadecane 72.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 06/01/2016
Reported: 06/06/2016
Project Name: NERVOUS HORZ COM #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H601194-11)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.90	94.8	2.00	0.348	
Toluene*	<0.050	0.050	06/02/2016	ND	1.96	98.0	2.00	0.426	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.81	90.3	2.00	0.271	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.60	93.3	6.00	0.347	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/03/2016	ND	432	108	400	0.00	

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	06/02/2016	ND	197	98.7	200	5.73	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	209	104	200	6.78	

Surrogate: 1-Chlorooctane 67.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.0 % 28-171

Sample ID: S2 - 2' (H601194-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/03/2016	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 DAKOTA NEEL
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 06/01/2016
 Reported: 06/06/2016
 Project Name: NERVOUS HORZ COM #2H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 3' (H601194-13)

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	06/03/2016	ND	432	108	400	0.00	

Sample ID: S2 - 4' (H601194-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/03/2016	ND	432	108	400	0.00	

Sample ID: S2 - 5' (H601194-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/03/2016	ND	432	108	400	0.00	

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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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

Project #:

Project Name: Nervous Horz Com #2H

Project Location:

Sampler Name: Dakota Neel

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H001A4

1 2 3 4 5 6 7 8 9

S1-1'
S1-2'
S1-3'
S1-4'
S1-6'
S1-8'
S1-10'
S1-12'
S1-14'

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER
ACID/BASE
ICE / COOL
OTHER

MATRIX

PRESERV

SAMPLING

DATE TIME

BTEX

TPH

Chloride

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Relinquished By:

Relinquished By:

Date: 5/11/16
Time: 11:00
Received By: [Signature]
Time: [Signature]

Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
Add'l Phone #:
Add'l Fax #:
REMARKS:
dneel2@concho.com
lcarrasco@concho.com
atruillo@concho.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☐ Intact ☐

Yes ☒ No ☐

CHECKED BY: [Signature]

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

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
100 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 August 8, 2011

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

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.	432-683-7443
Facility Name:	NERVOUS HORZ COM #002H	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	API No. 30-015-37143

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	26	18S	31E	330	North	530	East	East

Latitude 32.7104416

Longitude 103.8161163

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 22bbls of produced water	Volume Recovered: 12bbls of produced water
Source of Release: 3" steel pipeline	Date and Hour of Occurrence: 05-09-2016 11:30am	Date and Hour of Discovery: 05-09-2016 11:30am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A 3" steel pipeline failed due to corrosion. Replaced the bad section of pipe with a new joint of 3" steel line.

Describe Area Affected and Cleanup Action Taken.*

The release covered a 50' X 20' area inside the tank battery. All free fluids were recovered; an initial cleanup was performed and the facility was put back into service. 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs Jr.	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05-17-2016 Phone: 432-683-7443		

Attach Additional Sheets If Necessary