

**Devon Energy Production Co LP
Cotton Draw 10 Fed 3H
Closure Report**

**Unit Letter A, Section 10, T25S, R31E
Eddy County, New Mexico
2RP-2983**

October 16, 2015



Prepared for:

**Devon Energy Production Co., LP
PO Box 250
Artesia, New Mexico 88211**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

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I. Company Contacts

Representative	Company	Telephone	E-mail
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@devn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Alfredo's Trucking to perform site delineation on the Cotton Draw 10 Fed 3H, concerning a produced water spill of an unknown amount. The impacted area was primarily contained on the pad area just north of the well heads and encompassed an area measuring 75'x175'. This site is situated in Eddy County, Section 10, Township 25S, and Range 31E.

According to the C-141: the cause of impact occurred at some point in time during the drilling period of this well and was discovered during the remediation efforts of an acid spill that occurred 09/10/2014 for which was reported on **2RP-2626**. The C-141 for the produced water spill addressed in this remediation plan was filed with the NMOCD on April 04, 2015 and was assigned **2RP-2983**.

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. According to the topography map for Eddy County the depth to ground water for Section 10, Township 25S, Range 31E is approximately 400 bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 390' bgs. Thereby, posing no eminent threat or danger to life forms in the area.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 1000 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X

Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On June 03, 2015, SESI personnel visited the site to conduct a vertical and horizontal delineation of the impacted area. Whereby, it was determined that Four (4) sample point positions would be sufficient given the dynamics and outlay of the area. Representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX), Chloride (Cl⁻) (Method SM 4500Cl-B), as well as Total Petroleum Hydrocarbons (TPH). The results of the analysis are presented in the table below (Appendix B):

Sample Date 6/03/15	Chloride (mg/kg)
Depth	
AH-1 @ 1'	528
AH-1 @ 2'	3200
AH-2 @ 1'	3560
AH-2 @ 2'	9860
AH-3 @ 1'	3800
AH-3 @ 2'	11500
AH-4 @ 1'	944
AH-4 @ 2'	5460
AH-5 @ 1'	208
AH-6 @ 1'	<16.0

On September 09, 2015 SESI submitted a work plan to the NMOCD and BLM respectively. Based upon the above soil analytical; SESI proposed to backfill the existing excavation up to a depth of 18" bgs., and excavating the impacted area to the East and to the South of the current excavation to a depth of 18" bgs. The 18' bgs. excavation was proposed and accepted due to the number of high voltage lines. Sidewall and bottom samples were to be taken for confirmation of soil constituency. A 20 mil. Liner was to be installed followed by a layer of topsoil to prevent impediment of the liner, and capped with fresh caliche. The NMOCD and BLM approved the aforementioned Remediation Plan.

On September 30, 2015, SESI representative Bob Allen met with NMOCD officials of Eddy County Mike Bratcher and Heather Patterson, regarding the hazards of excavating certain areas of impact on this site. The NMOCD was informed that the east side of the impacted area contained high voltage lines, as well as a dead man. Therefore, the decision was jointly agreed upon that the area inclusive of the high voltage lines would present a safety hazard and should not be excavated. It was furthermore decided that a

5' radius around the dead man should remain undisturbed. These two areas were not excavated (Figure 2).

On October 01, 2015, SESI personnel were on site with Custom Welding of Hobbs, NM. Upon completion of excavation activities: SESI personnel retrieved representative soil samples from sidewalls and bottom of excavated area to the East and South of current excavation (Figure 2). Representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B). The results are recapped in the table below (Appendix B):

Sample Date 10/01/2015	Chloride (mg/kg)
Depth	
SP- 1 South Wall	208
SP-2 Bottom 18"	160
SP-3 Bottom 18"	192
SP-4 East Wall	160
SP-5 Bottom 18"	384
SP-6 Bottom 18"	352

VI. Conclusion

On October 05, 2015 and based on the above analytical confirmation: SESI personnel were on site with Custom welding of Hobbs, NM. The excavated area was lined with a 20 mil. Liner. The lined area was backfilled with a layer of fresh imported topsoil and capped with Caliche (Appendix C). All impacted soils were removed to an NMOCD approved facility. Based on the removal of impacted soils and restoration of the site, SESI on behalf of Devon Energy Production, respectfully requests closure of the regulatory file for this incident.

Figures & Appendices

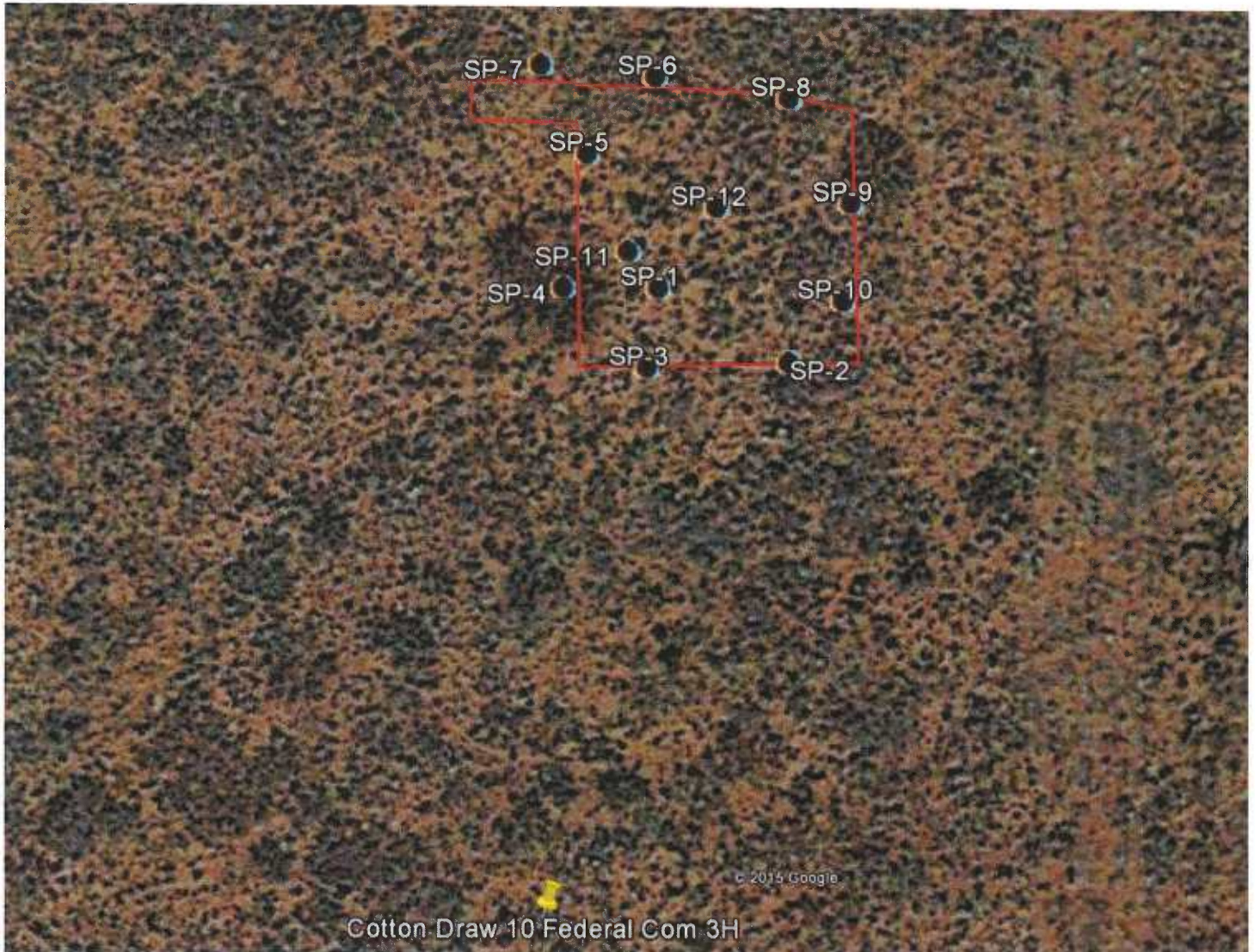
Figure 1 – Vicinity Map
Figure 2 – Site Plan
Appendix A – Groundwater Research
Appendix B – Analytical Results
Appendix C – Site Photographs
Appendix D – Final C-141

Figure 1

Vicinity Map



Figure 2 Site Plan





Appendix A Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02250			ED	3	1	4	21	25S	31E	614912	3553620*	400	390	10
C 02568			ED	4	3	1	01	25S	31E	619103	3558892*	1025		
C 02569			ED	4	4	2	02	25S	31E	618699	3558891*	1016		
C 02570			ED	4	2	4	02	25S	31E	618704	3558489*	895		
C 02571			ED	4	1	2	02	25S	31E	618292	3559294*	860		
C 02572			ED	4	2	2	02	25S	31E	618695	3559294*	852		
C 02573			ED	1	4	2	02	25S	31E	618499	3559091*			
C 02574			ED	1	1	2	02	25S	31E	618092	3559494*			
C 03830 POD1	CUB		ED	4	2	4	02	25S	31E	618632	3558432	450		

Average Depth to Water: **390 feet**

Minimum Depth: **390 feet**

Maximum Depth: **390 feet**

Record Count: 9

PLSS Search:

Township: 25S

Range: 31E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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

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.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Martin Jimenez	
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575- 513-5819	
Facility Name: Cotton Draw 10 Fed 3H	Facility Type : Well location	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42126

LOCATION OF RELEASE


Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	25S	31E	200	North	1200	East	Eddy

Latitude: **32deg 9' 6.09" N** Longitude: **103deg 45' 39.944" W**

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: 0
Source of Release: Drilling rigs (H&P 212)	Date and Hour of Occurrence Between 3/23/14 - 4/28/14	Date and Hour of Discovery April 2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* At some time during the drilling period of this well, a produced water spill must have occurred and was found by the environmental company hired by Devon for remediation on another Completions spill of 15% acid that occurred on 9/10/2014. (Another C141 was submitted for the acid spill).		
Describe Area Affected and Cleanup Action Taken.* The drilling PW spill is estimated at 75' x 175' just north of the wellheads. A plan will be submitted to take care of the produced water spill (as well as the 9/10/2014 acid spill).		

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: Denise Menoud	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Denise.Menoud@dv.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/29/2015	Phone: 575-746-5544		

* Attach Additional Sheets If Necessary



Cotton Draw 10 Fed 3H
30-015-42126



This map is for informational purposes only and is not a legal document. It is not intended to be used as a legal document. It is not intended to be used as a legal document. It is not intended to be used as a legal document.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by:
Map is current as of: 29-Apr-2015



Miles
0 0.02 0.04 0.07 1:3,738

Well
Devon TOWERS
AMPA 50-010-01
AM
POA
SDA



Appendix B

Analytical Results

May 12, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW 10 FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 05/05/15 16:40.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 05/05/2015
Reported: 05/12/2015
Project Name: COTTON DRAW 10 FED COM 3H
Project Number: ALF-15-006
Project Location: EAST OF LOVING, NM

Sampling Date: 05/04/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-1 SOUTH SIDE (H501168-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-2 E. END S. WALL (H501168-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-3 W. END S. WALL (H501168-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-4 S. END W. WALL (H501168-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/08/2015	ND	416	104	400	3.77	

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:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 05/05/2015
 Reported: 05/12/2015
 Project Name: COTTON DRAW 10 FED COM 3H
 Project Number: ALF-15-006
 Project Location: EAST OF LOVING, NM

 Sampling Date: 05/04/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-5 N. END W. WALL (H501168-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-6 W. END N. WALL (H501168-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-7 CENTER N. WALL (H501168-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-8 E. END N. WALL (H501168-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-9 N. END E. WALL (H501168-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18900	16.0	05/08/2015	ND	416	104	400	3.77	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 05/05/2015
Reported: 05/12/2015
Project Name: COTTON DRAW 10 FED COM 3H
Project Number: ALF-15-006
Project Location: EAST OF LOVING, NM

Sampling Date: 05/04/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP-10 S. END E. WALL (H501168-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-11 BOTTOM WESAT (H501168-11)

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	05/08/2015	ND	416	104	400	3.77	

Sample ID: SP-12 BOTTOM CENTER EXC (H501168-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	05/08/2015	ND	416	104	400	3.77	

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

Page 1 of 2[illegible]



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

ANALYSIS REQUEST

BILL TO

Company Name: Safety & Environmental Solutions, Inc.

Project Manager: Bob Allen

Address: 703 East Clinton

City: Hobbs State: NM Zip: 88240

Phone #: 575-397-0510 Fax #: 575-393-4388

Project #: 065-15-006 Project Owner: ARKCO

Project Name: Cotton Blows ID Fed Con 3H

Project Location: East of Lov, NM

Sampler Name: David Boyer

For Lab Use Only

Lab I.D. Sample I.D.

HS06068

SP-9 N. end E hole

10 SP-10 S. end E hole

11 SP-11 Bottom West

Side Remnant Pie

12 SP-12 Bottom

center excavation

PLEASE NOTE: Laboratory and field data are critical to the success of any study. It is the responsibility of the client to ensure that all data is accurate and complete. The client is responsible for the accuracy and completeness of the data provided. The client is also responsible for the accuracy and completeness of the data provided. The client is also responsible for the accuracy and completeness of the data provided.

Sampler Relinquished:

Date: 5/15

Received By: [Signature]

Relinquished By:

Date: 4/40

Received By: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Temp.

Sample Condition

CHECKED BY:

Yes ☒ No ☐

Yes ☒ No ☐

Phone Result: ☐ Yes ☒ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☒ No ☐ Add'l Fax #:

REMARKS:

Chlorides

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

#54

June 12, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEVON COTTON DRAW 10 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 06/05/15 15:35.

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/ga/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:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	06/05/2015	Sampling Date:	06/03/2015
Reported:	06/12/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	** (See Notes)
Project Number:	AFL-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-1 1' (H501460-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/11/2015	ND	416	104	400	0.00		

Sample ID: AH-1 2' (H501460-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	06/11/2015	ND	416	104	400	0.00		

Sample ID: AH-2 1' (H501460-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	06/11/2015	ND	416	104	400	0.00	

Sample ID: AH-2 2' (H501460-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	06/11/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 06/05/2015
Reported: 06/12/2015
Project Name: DEVON COTTON DRAW 10 FED #3H
Project Number: AFL-15-006
Project Location: LEA COUNTY, NM

Sampling Date: 06/03/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: AH-3 1' (H501460-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	06/11/2015	ND	416	104	400	3.92		

Sample ID: AH-3 2' (H501460-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	06/11/2015	ND	416	104	400	3.92	

Sample ID: AH-4 1' (H501460-07)

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	06/11/2015	ND	416	104	400	3.92		

Sample ID: AH-4 2' (H501460-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5460	16.0	06/11/2015	ND	416	104	400	3.92		


Sample ID: AH-5 1' (H501460-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/11/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	06/05/2015	Sampling Date:	06/03/2015
Reported:	06/12/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	** (See Notes)
Project Number:	AFL-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-6 1' (H501460-10)

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	06/11/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

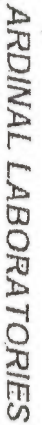
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

August 18, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEVON COTTON DRAW 10 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 08/18/15 9:00.

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/ga/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:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	08/18/2015	Sampling Date:	08/14/2015
Reported:	08/18/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 10 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-1 8' (H502151-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/18/2015	ND	432	108	400	7.69	

Sample ID: BH-1 12' (H502151-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/18/2015	ND	432	108	400	7.69	

Sample ID: BH-1 10' (H502151-03)

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	08/18/2015	ND	432	108	400	7.69	

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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



CARDINAL LABORATORIES

101 East Maryland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Page ____ of ____

Company Name: **Safety & Environmental Solutions, Inc.**
Project Manager: **Rob Allen**
Address: **703 East Clinton**
City: **Hobbs** State: **NM** Zip: **88240**
Phone #: **575-397-0510** Fax #: **575-393-4388**
Project #: **AT17-15-006** Project Owner: **AT17-006**
Project Name: **Devon Cotton Drive 10 Fed 34**
Project Location: **Lee County**
Sampler Name: **Sam Jones**
FSA Use Only

Lab I.D. **H502151**

Sample I.D.

1 BH-1 8 FT
2 BH-1 12 FT
3 BH-1 10 FT

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

DATE TIME
08/14 0920
08/14 1000
08/14 0940

Chlorides

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Relinquished By: **Sam Jones** Date: **08/14/15** Time: **0900**
Received By: **Rob Allen** Date: **08/14/15** Time: **0900**

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Temp. **52C**

Sample Condition
Cool Intact
☒ Yes ☐ No

CHECKED BY: **[Signature]**

Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
Remarks: **ADD'l P.F. #:**
ADD'l Fax #:

Terms: **Standard Conditions: Indicate on bill accounts more than 30 days past due at the rate of 2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.**

October 06, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW 10 FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/02/15 8:00.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 10/02/2015
 Reported: 10/06/2015
 Project Name: COTTON DRAW 10 FED COM 3H
 Project Number: ALF-15-006
 Project Location: EAST OF LOVING, NM

 Sampling Date: 10/01/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-1 SOUTH WALL (H502609-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: SP-2 BOTTOM 18" (H502609-02)

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	10/05/2015	ND	416	104	400	0.00		

Sample ID: SP-3 BOTTOM 18" (H502609-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: SP-4 EAST WALL (H502609-04)

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	10/05/2015	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	10/02/2015	Sampling Date:	10/01/2015
Reported:	10/06/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

Sample ID: SP-5 BOTTOM 18" (H502609-05)

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	10/05/2015	ND	416	104	400	0.00	

Sample ID: SP-6 BOTTOM 18" (H502609-06)

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	10/05/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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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2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

ANALYSIS REQUEST

Company Name: SEST

Project Manager:

Address: 703 E. CLINTON, #103

City: HOBBS State: NM Zip: 88240

Phone #: (505) 397-0510

Fax #: (505) 393-4388

Project #: AT-15-006 Project Owner: Custom / APPLANT

Project Name: Lower Cotton District 10 Fee Case 3A

Project Location: Lee County

FOR LAB USE ONLY

LAB I.D.

Sample I.D.

H500609

	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME
1	SP-1 Seawater	1										10/01	0900
2	SP-2 Bottom 18"	1										10/01	0930
3	SP-3 Bottom 18"	1										10/01	0945
4	SP-4 Seawater	1										10/01	1150
5	SP-5 Bottom 18"	1										10/01	1320
6	SP-6 Bottom 18"	1										10/01	1450

Chlorides

XXXXXX

RECEIPT NOTE: Unlabeled and Damaged. Cardholder's liability and strict liability insurance, for any claim arising whether based in contract or tort, shall be assigned to the amount paid by the client for the analysis. It is the responsibility of the client to ensure that the client's insurance policy covers the client's liability for the analysis. The client shall be responsible for the cost of the analysis, including the cost of the analysis, and the cost of the analysis, including the cost of the analysis, and the cost of the analysis, including the cost of the analysis.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 14% per annum from the original date of invoice, and at costs of collection, including attorney's fees.

Relinquished By:

Don Jones

Date: 10/01

Received By:

John Shuman

REMARKS:

Phone Result: ☐ Yes ☐ No Additional Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

5.62

Sample Condition

☒ Intact ☐ Damaged

CHECKED BY:

John Shuman

Appendix C

Site Photographs

Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126



Site photo looking northwest to wells and excavation



Southwest corner of excavation looking east to wells



Southwest corner of excavation looking northeast



Southeast corner of excavation looking northwest



Southeast corner of excavation looking north



Northeast corner of excavation looking southwest

Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126



Northeast corner of excavation looking west



Northeast corner of excavation looking south to wells



Northwest excavation extension looking east



Interior of excavation looking southeast



SP-12. Sample from approximate center of excavation, scrapings from bottom in hard caliche. Right photo looking southwest from approximate center of excavation.



Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126



10-08-15 Excavation looking South



Excavation looking Northeast



10-08-15 Stockpile of Backfill



Liner Installation



Liner Installation looking South



Liner Installation Northwest

**Devon Energy
Cotton Draw 10 Fed. #3H
API 30-015-42126**



Liner Installation around Electrical Conduit



Site at Completion looking South



Site at completion



Northeast at Completion



Southern part of excavation at completion



Site Completion looking East

Final C-141

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

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	Devon Energy Production	Contact	Brett Fulks
Address	6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No.	575-513-5819
Facility Name	Cotton Draw 10 Fed 3H	Facility Type	OIL

Surface Owner	BLM	Mineral Owner	BLM	API No.	30-015-42126
---------------	-----	---------------	-----	---------	--------------

LOCATION OF RELEASE

2RP-2983

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	25S	31E	200	North	1200	East	EDDY

Latitude: 32 deg 9'6.09" N Longitude: -103 deg 45'39.944"W

NATURE OF RELEASE

Type of Release Spill	Produced Water	Volume of Release	Unknown	Volume Recovered	0
Source of Release:	Drilling Rigs (H&P 212)	Date and Hour of Occurrence	3/23/14-4/28/14	Date and Hour of Discovery	April 2015
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	N/A		
By Whom?	N/A	Date and Hour	N/A		
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.*

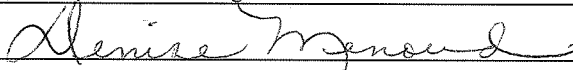
Describe Cause of Problem and Remedial Action Taken.*

At some time during the drilling period of this well, a produced water spill must have occurred and was discovered by the environmental company hired by Devon for remediation on a different completions spill of 15 % Acid that occurred on 9/10/2015 (A separate C-141 was filed and closed for this incident).

Describe Area Affected and Cleanup Action Taken.*

The drilling Produced Water spill was estimated at 75' x 175' north of the wellheads. SESI was retained to assess and remediate the site in accordance with NMOCD guidelines. The impacted soils were removed to an NMOCD approved facility and the site restored to grade. SESI, on behalf of Devon respectfully requests closure of the regulatory file related to this incident.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Denise Menoud	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/14/2015	Phone: 575-746-5544		

* Attach Additional Sheets If Necessary