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

Distance to Surface Water:			
(Horizontal distance to perennial lakes,		20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	1
	>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 (CI⁻) (Method SM 4500CI-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 (CI⁻) (Method SM 4500CI-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

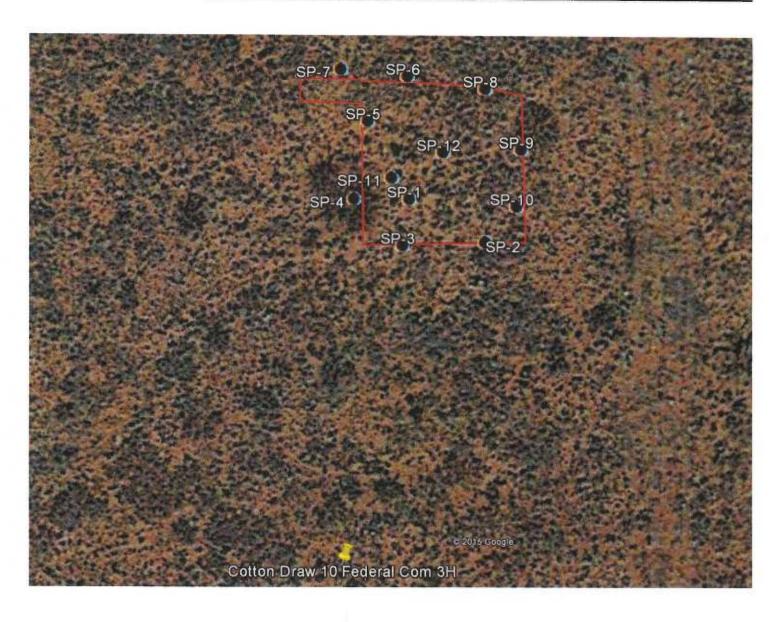
Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – Groundwater Research Appendix B – Analytical Results Appendix C – Site Photographs Appendix D – Final C-141

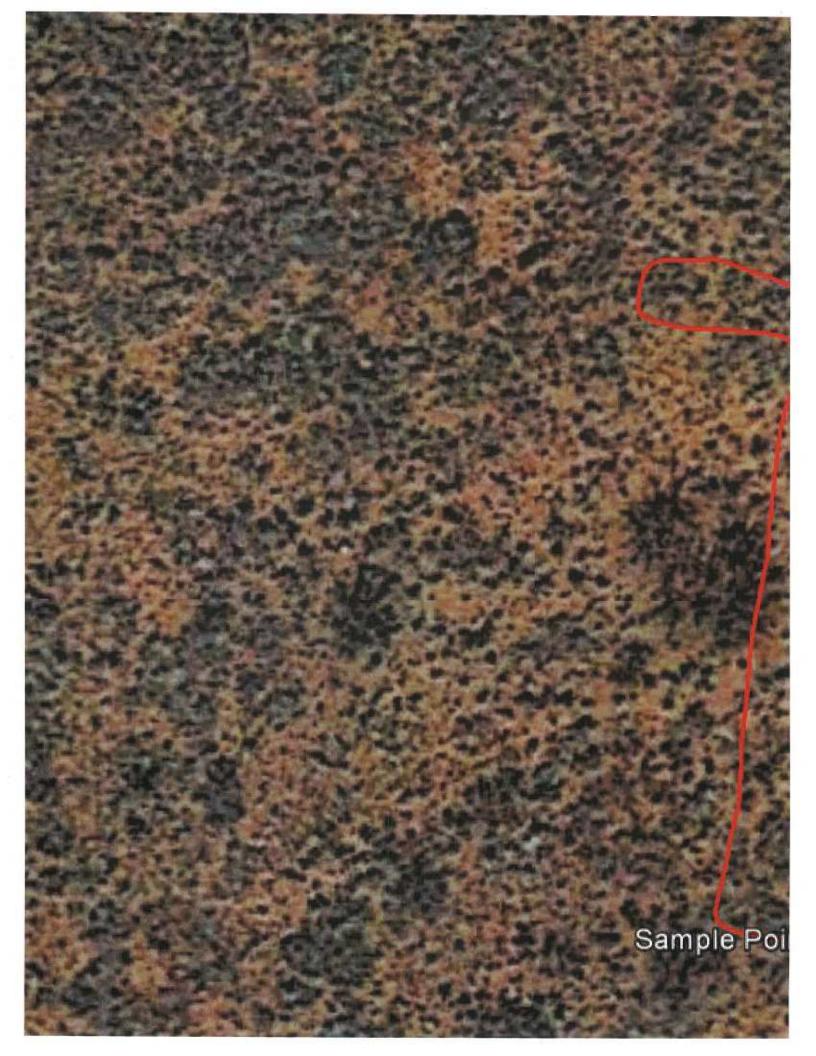
Figure 1 Vicinity Map



Figure 2 Site Plan

Cotton Draw 10 Fed 3H





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	(quar						IE 3=SW	,			<i>(</i>) <i>(</i>)	A.
water right life.)	closed) POD	(quar	ten	s ar	e s	smai	iest to	(largest)	(NAD8	3 UTM in meters)	No. of Concession, Name	(In feet	t)
	Sub-		Q	Q	Q						Denth	Denth	Water
POD Number	Code basin C	ounty					Tws	Rng	x	Y			Column
<u>C 02250</u>		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		
		(2)								Average Depth to	Water:	390 f	eet
										Minimum	Depth:	390 f	eet
										Maximum	Depth:	390 f	eet
Record Count: 9		·	-				-						

Record Count: 9

PLSS Search:

Township: 25S

Range: 31E

*UTM location was derived from PLSS - see Help

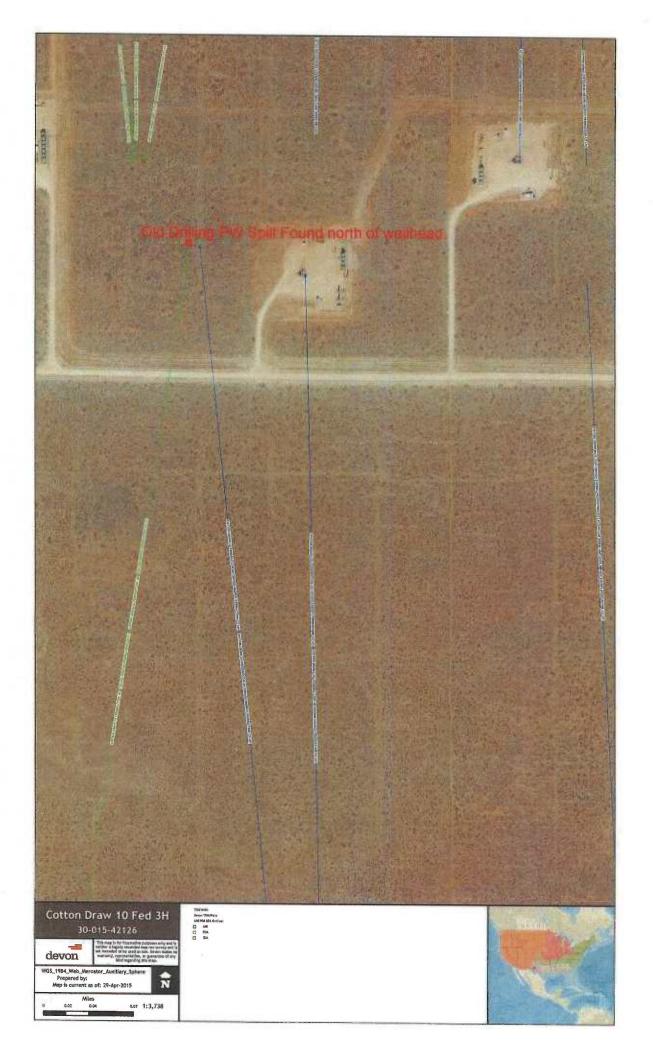
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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						
Name of Co (6137)	mpany:	Devon Ener	gy Prod	uction Co LP		Contact: Martin Jimenez						
Address:		250 Artesia		211		Telephone N		13-5819				
Facility Nar	ne: Cotto	n Draw 10 I	Fed 3H			Facility Typ	e: Well la	ocation				
Surface Ow	ner: Fede	ral		Mineral C)wner:	Federal		API N	o. 30-015- 4	2126		
	1					N OF REI	LEASE					
Unit Letter A	Section 10	Township 25 S	Range 31E	Feet from the 200		/South Line North	Feet from the 1200	East/West Line East	County Eddy			
]	atitude	32deg 9' 6.09'	" N	Longitude	: 103deg 45' 39	9.944'' W	. .			
				NAT	URE	OF REL						
Type of Rele Source of Re		ced Water lling rigs (H&	P 212)				Release: Unkno lour of Occurrence		Recovered: Hour of Dis	-		
				*******		Between 3	/23/14 - 4/28/14	April 20		covery		
Was Immedia	ate Notice (Yes 🛛	No 🗌 Not R	equired	If YES, To N/A						
By Whom?						Date and H	lour: N/A					
Was a Water	course Read	ched?	Yes 🛛	No		If YES, Volume Impacting the Watercourse. N/A						
At some time	during the	em and Reme drilling period n another Cor	l of this w	ell, a produced w	ater spi that occ	ll must have c surred on 9/10	ccurred and was /2014. (Another C	found by the envir C141 was submitte	onmental co d for the aci	mpany d spill)	hired by	
The drilling	PW spill is		'5' x 175' j	ten.* ust north of the w luced water spill (114 acid spill).					
regulations a public health should their o or the enviro	ll operators or the envi operations h nment. In a	are required t ronment. The nave failed to a	o report an acceptance adequately OCD accept	nd/or file certain in the of a C-141 report investigate and in	release r ort by th remedia	notifications a ne NMOCD m te contaminat	nd perform correc arked as "Final R on that pose a thr	inderstand that put tive actions for re- eport" does not re- eat to ground wate responsibility for	leases which lieve the ope er, surface w	may e rator o ater, hu	ndanger f liability ıman health	
Signature: (A.	men	ud	F			OIL CON	SERVATION	DIVISIO	<u>DN</u>		
Printed Nam	e: Denise M	lenoud				Approved by	Environmental S	pecialist:				
Title: Field A	Admin Sup	port				Approval Da	te:	Expiration	Date:			
E-mail Address: Denise.Menoud@dvn.com						Conditions of Approval:			Attached			
Date: 4/29/ Attach Addi				-746-5544			w no par sayana in an an an an					



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

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

Chloride, SM4500Cl-B	mg	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	Analyze	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, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	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	

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Celleg D. Keene



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

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	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, SM4500CI-B	SM4500Cl-B mg/kg			alyzed 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	Analyze	d 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	Analyze	d 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	Analyze						
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	

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

Received:	05/05/2015	Sampling Date:	05/04/2015
Reported:	05/12/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW 10 FED COM 3H	Sampling Condition:	** (See Notes)
Project Number:	ALF-15-006	Sample Received By:	Jodi Henson
Project Location:	EAST OF LOVING, NM		

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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	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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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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Celez D. theme

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-6476.	- Bus - Other: 94.602	Delivered By: (Circle One) I Temp. Sample Condition	Time:	Relinquished By: Date: Received By:	The of th	alfidas er sussesse andng dut of er valadet to the performance of astricts the under producting dut, dustates montphones, tess Start bl ber Real in in this hori'	analyses. All claims including loose for negligence and any other cause who howerers that has been worked and one work and the second	2 5 2 2 Configure and a start	we	7 58-7 CENTER N. Well X	55	5 SV-S N. End W. Well H X	4 SP-4 Send W. Well 1 X	3 SP. 3 Word S. Well 1 X	2 ST-2 E. End J. Wall IX	Remmant pilo			3)RAB (GONTA ROUNE IASTEV DIL IL LUDGE	AINER DWATI VATER	S ER	FOR LAB USE ONLY MATRIX	Sampler Name: AnVIO BOYER	Project Location: Eggil of Low way & Com 34 "	Project Name: (27) By Waw 10 Fed, TRUCKING	Project # ALF-15-006 Project Owner: AlFradets	Phone #: 575-397-0510 Fax #: 575-393-4388	State: NM Zip: 88240	ess: 703 East Clinton	company Name: Safety & Environmental Solutions, Inc.		F
F-3934476.		CHECKED		1	Phone Result: I Yes D No Add Fax Result: I Yes D No Add REMARKS:			5/41213X		5/4/2xx X	- 128×	XC34	× fri	1237 X	X 2561 75		3/4 1225 X	A'C				ESERVI SAMPLING	*	#:	State: Zip:	City:	Address:	Afire	Company: Same	ALLE	CHAIN-OF-CUSTODY A	
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Page 7 of 7



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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	

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*=Accredited Analyte

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Celeg 2 Freene

Celey D. Keene, Lab Director/Quality Manager



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-3 1' (H501460-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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, SM4500CI-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, SM4500CI-B	mg	/kg	Analyze	d 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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Celeg D. Keene-

Celey D. Keene, Lab Director/Quality Manager



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, SM4500CI-B	mg	/kg	Analyze	d 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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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 SM4500CI-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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Celez D. Kene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

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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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/18/2015	ND	432	108	400	7.69	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	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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Celez & Kene-



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 SM4500CI-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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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.

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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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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-1 SOUTH WALL (H502609-01)

Chloride, SM4500CI-B	ing	/kg	Analyze	d 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	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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		Analyze	d 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	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keene



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, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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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Celez D. Freene-



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 SM4500CI-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

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Pageof	NM 88240 93-2476	101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476	INC. 19603.	Abilene, Fax (915)	2111 Beechwood, (915) 873-7001

Appendix C Site Photographs



Site photo looking northwest to wells and excavation



Southwest corner of excavation looking northeast



Southeast corner of excavation looking north



Southwest corner of excavation looking east to wells



Southeast corner of excavation looking northwest



Northeast corner of excavation looking southwest



Northeast corner of excavation looking west



Northeast corner of excavation looking south to wells



Northwest excavation extension looking east





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

2



10-08-15 Excavation looking South



Excavation looking Northeast



10-08-15 Stockpile of Backfill



Liner Installation



Liner Installation looking South



Liner Installation Northwest



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

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

OPH	ERATOR	Initial Report	Final Report
Name of Company Devon Energy Production Conta	act Brett Fulks		· · ·
Address 6488 Seven Rivers Hwy Artesia, NM 88220 Telep	hone No. 575-513-5819		
Facility Name Cotton Draw 10 Fed 3H Facili	ty Type OIL		

Surface	Owner	RLM	

Mineral Owner BLM

API No. 30-015-42126

LOCATION OF RELEASE

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 deg9'6.09" N Longitude: -103 deg 45'39.944"W

NATURE OF RELEASE

Type of Release Spill Produced Water	Volume of Release Unknown	Volume R	ecovered 0			
Source of Release: Drilling Rigs (H&P 212)	Date and Hour of Occurrence 3/23/14-4/28/14	Date and H April 2015	lour of Discovery			
Was Immediate Notice Given?	If YES, To Whom?	1				
Yes X No Not Required						
By Whom? N/A	Date and Hour					
	N/A					
Was a Watercourse Reached?	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: Menise Menoud	OIL CONSERVATION DIVISION					
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			
Date: 12/14//2015 Phone: 575-746-5544						

* Attach Additional Sheets If Necessary