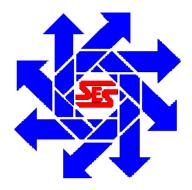
Devon Energy Cotton Draw 163 (11 Federal #2H) Closure Report

Unit Letter C, Section 11, T25S, 31E Eddy County, New Mexico

2RP-3021 November 06, 2015



Prepared for:

Devon Energy Production PO Box 250 Artesia, NM 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	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Devon Production to perform site assessments for two environmental incidents on the Cotton Draw 163 location.

According to the initial C-141: On April 29, 2015 a small hole on the underside of the Poseidon tank may have been caused by a power washer that created the initial leak, then an additional hole was discovered in the secondary containment caused by an anchor. Vacuum trucks were utilized to recover approximately 5 bbl. of fluid. The form C-141 associated with this incident was filed with the NMOCD on June 1, 2015 and assigned (**2RP-3021**). This site is situated in Eddy County, Section 11, Township 25S, and Range 31E (Appendix D).

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 11, 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 (Appendix A). According to the target clean up levels using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). The site ranking score for this location is a Zero (0).

IV. Work Performed

On May 12, 2015, SESI personnel were onsite with Alfredo's Trucking, as well as a Devon representative to photograph, and map the spill area.

On June 04, 2015, SESI personnel returned to the site in order to confirm vertical extent of the impacted area. Six representative sample points were established inside the impacted area. The representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs, NM and analyzed for Chloride constituents. The returned analyses for Cl⁻ is recapped in the following table:

Sample Date 06/04/15	Chloride (mg/kg)	
Depth		
AH-1 Surface	10400	
AH-1 1'	4560	
AH-1 2'	4160	
AH-2 Surface	20400	
AH-2 1'	4240	
AH-2 2'	6080	

AH-2 3'	4800	
AH-3 Surface	10200	
AH-3 1'	4160	
AH-3 2'	4960	
AH-3 3'	6080	
AH-4 Surface	4960	
AH-4 1'	1600	
AH-4 2'	3320	
AH-4 3'	8720	
AH-4 4'	8640	
AH-5 Surface	1310	
AH-5 1'	160	
AH-5 2'	96	
AH-5 3'	80	
AH-6 Surface	1640	
AH-6 1'	256	
AH-6 2'	2240	
AH-6 3'	1170	
AH-6 4'	1660	

On August 14, 2015, SESI personnel returned to the location with Hobbs Anchor in order to retrieve a representative soil bore, confirming the vertical extent of chloride impact. The soil bore was extracted between the previously sampled areas of AH=2 and AH-3 respectively, as this area indicated the deepest impact from the previous analytical results. The soil bore was transported to Cardinal Laboratories, Hobbs, NM for Chloride constituents. The following is a recap of the results (Appendix B).

Sample Date 08/14/15	Chloride (mg/kg)
Depth	
BH-1 8'	256
BH-1 10'	464

On August 26, 2015, a written plan for environmental remediation for the spill incident related to this site was submitted to the NMOCD, and BLM respectively for approval of the same. Based on site ranking score and soil analytical, the proposed activities were inclusive of excavating to a depth of 4' bgs., installing a 30 mil. Liner and backfilling with a layer of imported clean topsoil followed by like surface material and restoring the area to grade. On September 01, 2015 the same regulatory parties of concern approved said plan to remediate. However, on October 15, 2015 the plan was revised and approval granted by the NMOCD to use a 20 mil. Liner as opposed to the 30 mil. Liner, which was originally proposed.

Conclusion

On October 20, 2015 the exaction activities were completed and confirmed by retrieving five (5) bottom and sidewall soil samples of the excavated area. The representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs, NM and analyzed for Chloride constituents. The returned analyses for Cl⁻ is recapped in the following table:

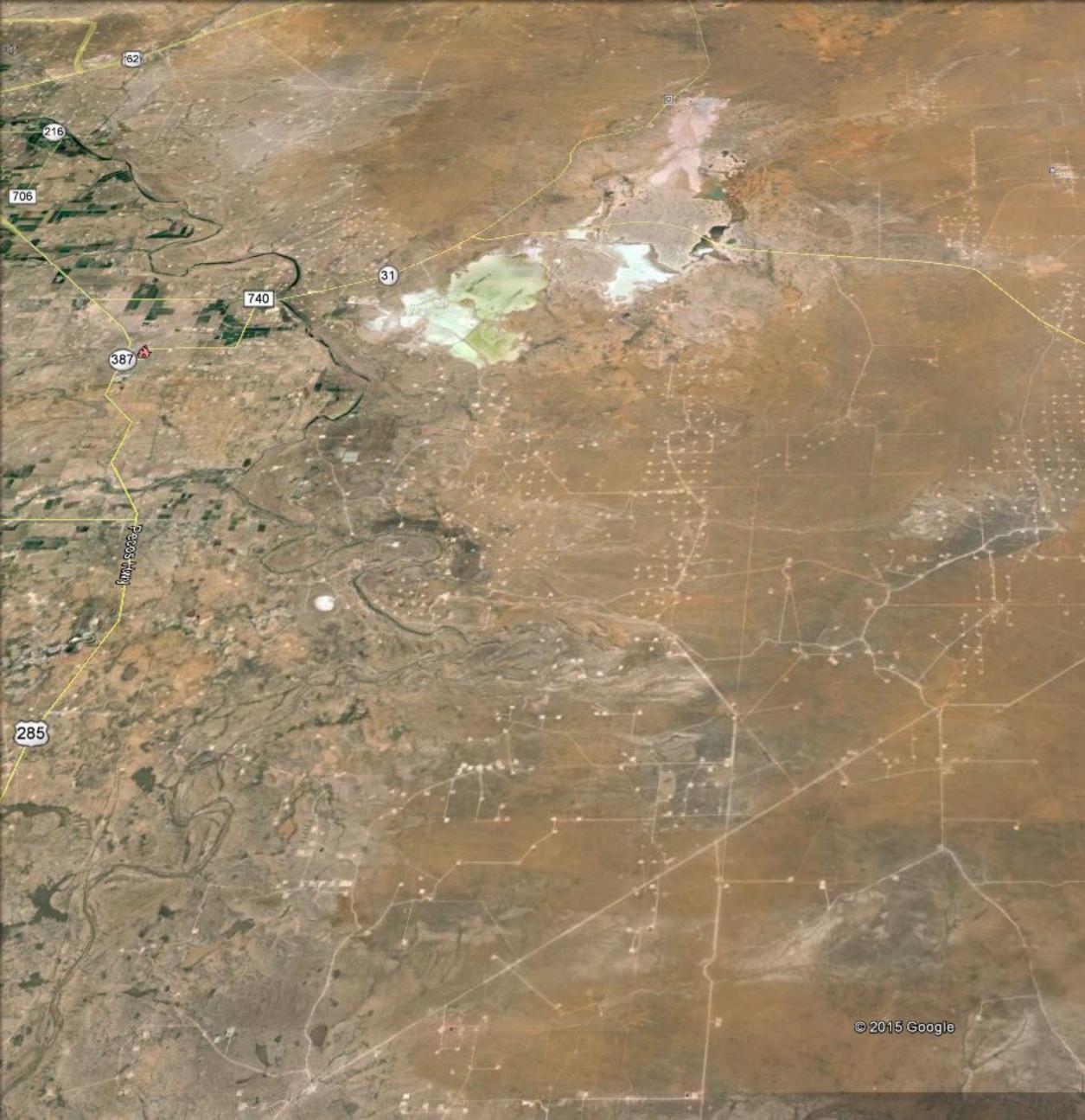
Sample Date 10/20/2015	Chloride (mg/kg)
Depth	
WS SP-1 Bottom 4'	96.0
WS SP-3 Bottom 4'	112
WS SP-5 Bottom 4'	432
WS SP-8 West Wall	192
WS SP-9 East Wall	224
SS SP-2 Bottom 4'	4640
SS SP-4 Bottom 4'	<16.0
SS SP-7 North Wall	<16.0
SS SP-8 South Wall	160
ES SP-2 Bottom 4'	480
ES SP-4 Bottom 4'	576
ES SP-6 East Wall	224
ES SP-8 West Wall	240
BA SP-1 Bottom 4'	192
BA SP-2 Bottom 4'	3400
BA SP-4 West Wall	32.0
BA SP-5 East Wall	176
BA SP-6 South Wall	32.0

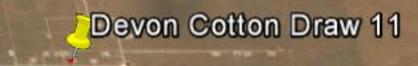
Based on the above confirmation of field analysis; the 4' bgs. excavation was lined with a 20 mil. Liner, backfilled with fresh topsoil and the area returned to grade with a fresh caliche cap. According to disposal manifest; a total of 3,319.53 tons of impacted soils were disposed of at an NMOCD approved facility.

SESI respectfully submits this closure report for your consideration and approval.

VI. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – Groundwater Appendix B – Analytical Appendix C – Photo Documentation Appendix D – Final C-141 Figure 1 Vicinity Map





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Google earth

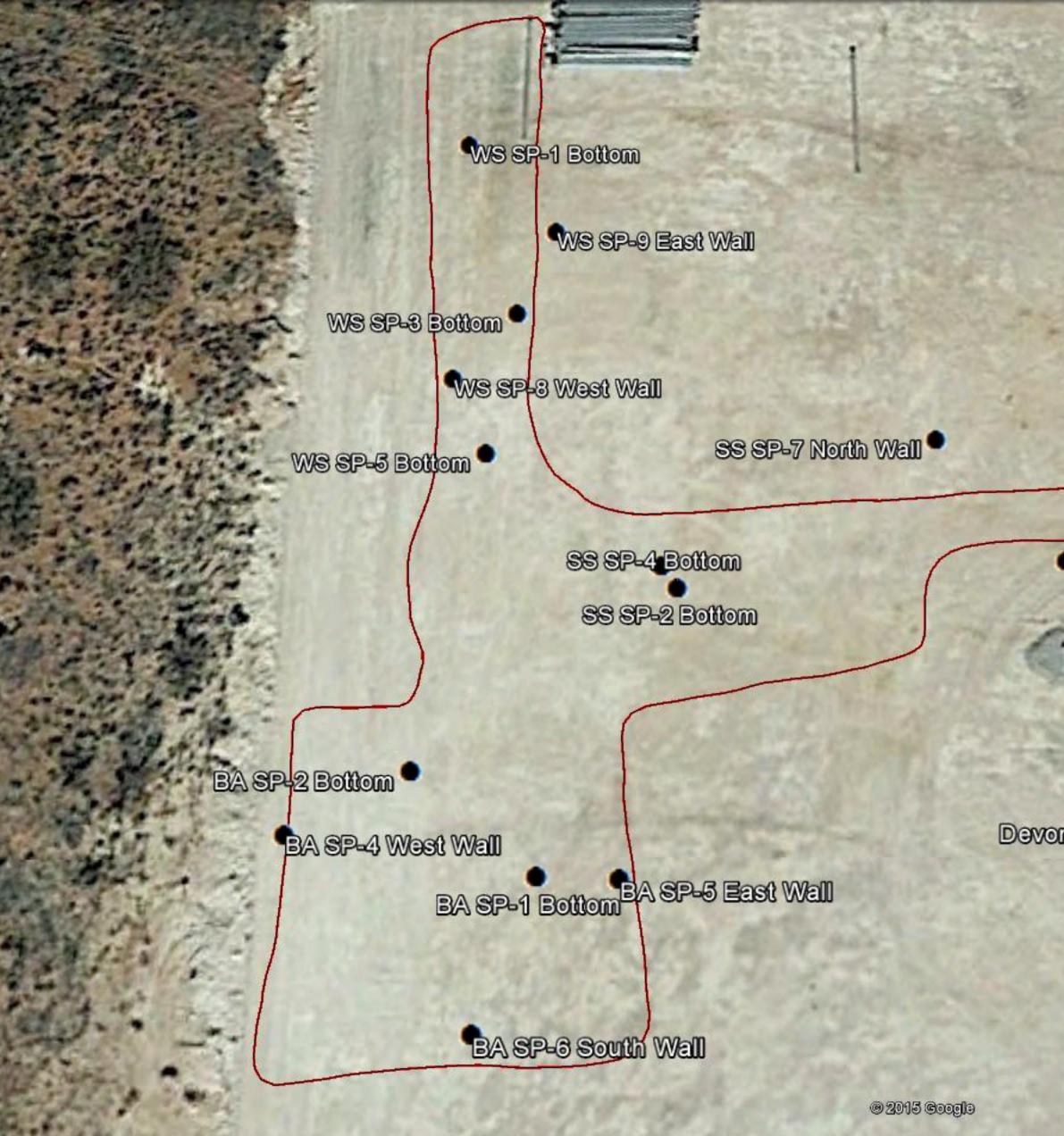
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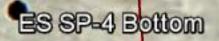
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Figure 2 Site Plan





ES SP-2 Bottom ES SP-6 East Wall



ES SP-3 West Wall

SS SP-7 North Wall

SS SP-8 South Wall

Oil or Gas Well 21 Oil or Gas Well 21

Devon Cotton Draw 11



N ())

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Appendix A Groundwater Research



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)	(quar						IE 3=SW largest)	,	3 UTM in meters)		(In feet)
	POD		•	_	_								
POD Number	Sub- Code basin C	Countv	-	Q 16	-	Sec	Tws	Rna	х	Y	-	Depth Water	Water Column
<u>C 02250</u>		ED					25S		614912	3553620* 🌍	400	390	10
C 02568		ED	4	3	1	01	25S	31E	619103	3558892* 🌍	1025		
<u>C 02569</u>		ED	4	4	2	02	25S	31E	618699	3558891* 🌍	1016		
<u>C 02570</u>		ED	4	2	4	02	25S	31E	618704	3558489* 🌍	895		
<u>C 02571</u>		ED	4	1	2	02	25S	31E	618292	3559294* 🌍	860		
<u>C 02572</u>		ED	4	2	2	02	25S	31E	618695	3559294* 🌍	852		
<u>C 02573</u>		ED	1	4	2	02	25S	31E	618499	3559091* 🌍			
<u>C 02574</u>		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 f	eet
										Minimun	n Depth:	390 f	eet
										Maximum	Depth:	390 f	eet
Record Count: 9				1									

Record Count: 9

Basin/County Search:

County: Eddy

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.

Appendix B Analytical



June 25, 2015

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: COTTON DRAW #163

Enclosed are the results of analyses for samples received by the laboratory on 06/25/15 8:11.

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,

Celey 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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-1 SURFACE (H501647-01)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-1 1' (H501647-02)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-1 2' (H501647-03)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-2 SURFACE (H501647-04)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	06/25/2015	ND	448	112	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-2 1' (H501647-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-2 2' (H501647-06)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-2 3' (H501647-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-3 SURFACE (H501647-08)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-3 1' (H501647-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/25/2015	ND	448	112	400	7.41	

Cardinal Laboratories

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Celecz 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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-3 2' (H501647-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH -3 3' (H501647-11)

Chloride, SM4500Cl-B	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-4 SURFACE (H501647-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-4 1' (H501647-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	06/25/2015	ND	448	112	400	7.41	

Sample ID: AH-4 2' (H501647-14)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	06/25/2015	ND	416	104	400	3.92	

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Celecz 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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-4 3' (H501647-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8720	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-4 4' (H501647-16)

Chloride, SM4500Cl-B	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-5 SURFACE (H501647-17)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-5 1' (H501647-18)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-5 2' (H501647-19)

Chloride, SM4500Cl-B	ide, SM4500Cl-B mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/25/2015	ND	416	104	400	3.92	

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Celecz 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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-5 3' (H501647-20)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-6 SURFACE (H501647-21)

Chloride, SM4500Cl-B	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-6 1' (H501647-22)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-6 2' (H501647-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/25/2015	ND	416	104	400	3.92	

Sample ID: AH-6 3' (H501647-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/25/2015	ND	416	104	400	3.92	

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Celecz 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:	06/25/2015	Sampling Date:	06/04/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: AH-6 4' (H501647-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	06/25/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

1 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-b476.	Delivered By: (Circle One) o Temp. Sample Condition Unconcorrection Sampler - UPS - Bus - Other: A C Intert Temp. Condition Unconcorrection Sampler - UPS - Bus - Other: A C Intert Temp. Condition Unconcorrection	16 Received	Timevoo	nnyses. Al daims inideling linge for sellgence sid any ousi-cases of the source of the	I U U U U U U U U U U U U U U U U U U U	1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 AT 3 JULEU GII A BURG	6	6 AH-2 255 911 1 1 1000		9 At-2 Super 411 4 1 1 100	57	2 24-1 15- 4 11 6	1 Att-1 Surface 411 12 11 Color		E)RAE GON ROUI ASTE OIL IL LUDO XTHE KCID/I	R : BASE: COOL	OMP S ER	MATRIX	Sola Fa	Las Church	ALF-15-OOT Project Owner: ALARCADE City:	ŧ.	Hoh	703 East Clinton	Boh Allen	utions, Inc.	(505) 393-2326 Fax (505) 393-2476	ARDINAL LABORATORIES	
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Page 9 of 11

	accept verbal changes. Please fax written changes to 575-393-2476. #54
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	Hobbs State; NM Zip: 88240
	Clinton
	Company Name: Safety & Environmental Solutions, Inc.
ANALYSIS REQUEST	
Page 2 of 3	ARDINAL LABORATORIES
(AND ANALYSIS REQUEST	CHAIN-OF-CUSTODY

Page 10 of 11

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$+$ Cardinal cannot accept verbal charges. 1 Sector ± 54	Sefficiel Relinquilished: Date: 15/15 Received By: Relinquished By: Umbo Umbo Received By: Relinquished By: Date: 25/16 Received By: GMAQUA Delivered By: (Circle One) Temp. Sample Cendition CHECK Sampler - UPS - Bus - Other: Date: 73.42 Temp. Sample Cendition CHECK	ance of	Company Name: Safety & Environmental Journals, Inv. Project Manager: Roh Allen Address: 703 East Clinton City: Hobbs State: NM Zip: 88240 Project Mame: 575-397-0510 Fax #: 575-393-4388 Project Name: 575-397-0510 Fax #: 575-393-4388 Project Name: 576-000 Project Owner Aldred Project Location: Eq. Country E. Sampler Name: 576-000 Project Owner Aldred GROUNDWATER 501 GROUNDWATER Soll 501 501 S	(505) 393-2326 Fax (505) 393-24/6	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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Page 11 of 11



August 18, 2015

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: DEVON COTTON DRAW 163

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,

Celey 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 163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: BH-1 8' (H502150-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/18/2015	ND	416	104	400	0.00	

Sample ID: BH-1 10' (H502150-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP	; AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	464	16.0	08/18/2015	ND	416	104	400	0.00			

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	D Yes D No Add'I Fax #				ANALYSIS REQUEST	ANALYSIS

Page 4 of 4



October 29, 2015

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: DEVON COTTON DRAW 163

Enclosed are the results of analyses for samples received by the laboratory on 10/26/15 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 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,

Celey 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:	10/26/2015	Sampling Date:	10/20/2015
Reported:	10/29/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: WS SP-1 BOTTOM 4' (H502775-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: WS SP-3 BOTTOM 4' (H502775-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: WS SP-5 BOTTOM 4' (H502775-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: WS SP-8 WEST WALL (H502775-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/26/2015	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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:	10/26/2015	Sampling Date:	10/20/2015
Reported:	10/29/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: WS SP-9 EAST WALL (H502775-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: SS SP-2 BOTTOM 4' (H502775-06)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: SS SP-4 BOTTOM 4' (H502775-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: SS SP-7 NORTH WALL (H502775-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/26/2015	ND	432	108	400	3.77	

Sample ID: SS SP-8 SOUTH WALL (H502775-09)

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	10/29/2015	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celey 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:	10/26/2015	Sampling Date:	10/21/2015
Reported:	10/29/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: ES SP-2 BOTTOM 4' (H502775-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	16.0 10/29/2015		416	104	400	3.92	

Sample ID: ES SP-4 BOTTOM 4' (H502775-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/29/2015	ND	416	104	400	3.92	

Sample ID: ES SP-6 EAST WALL (H502775-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/29/2015	ND	416	104	400	3.92	

Sample ID: ES SP-8 WEST WALL (H502775-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result Reporting Lin		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/29/2015	ND	416	104	400	3.92	

Sample ID: BA SP-1 BOTTOM 4' (H502775-14)

Chloride, SM4500Cl-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	10/29/2015	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celey 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:	10/26/2015	Sampling Date:	10/22/2015
Reported:	10/29/2015	Sampling Type:	Soil
Project Name:	DEVON COTTON DRAW 163	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-007	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: BA SP-2 BOTTOM 4' (H502775-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0 10/29/2015		ND	416	104	400	3.92	

Sample ID: BA SP-4 WEST WALL (H502775-16)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result Report		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2015	ND	416	104	400	3.92	

Sample ID: BA SP-5 EAST WALL (H502775-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result Reporting Limi		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	16.0 10/29/2015		416	104	400	3.92	

Sample ID: BA SP-6 SOUTH WALL (H502775-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	e Result Re		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2015	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Conner Periode Service Children Service Provide Provid			ABORATORIES rland, Hobbs, NM 88240 2326 Fax (505) 393-2476
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Page 7 of 8

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2076. #54	Delivered By: (Circle One) Temp. Sample Condition CHECKED BY: Sampler - UPS - Bus - Other: 480 Cool Infact Cool Infact Intact Mail Mail 480 1.10 No Mail Mail	Time:	Nou	Sampler Relinduished: Date: A Received By: A Received By: Phone Result:	nits exclusive removy for any cause whatsoerer shall be de quental damagos, including more shall be the second of the shall be the second of t	16 15A ST-6 SWAMMAN N 11 18 1 16 1012	BA SPS EASIMANT & L P	SP-4 Warmall 4 1 10 14	an AFAT Q X 10	14 to BA SPI Roton Are GII XI VI 10/22	134 C> 37-8 WESTWALI CI 1 X 1012	TO ES ST-6 GARTUMAN SIN X 1 X 10	te es si-4 horrow the gill X	ILES SP.2 King APP BILL X I K 10/21	(G)R #CO GRO WAS SOIL OIL SLUE OTHI ACID	ER : /BASE: 'COOL	(C)Or ERS ATER	MATRIX PRESERV	e: Soor Jerry Fax #	Project Location: And Youry Phone #:	Project #ATTS CON Project Ownerst HOROS City:	Phone #: 575-397-0510 Fax #: 575-393-4388 Address:	City: Hohhs State: NM Zip: 88240 Affin:	Address: 703 East Clinton Gompany: Same	Project Manager: Boh Allen	Company Name: Safety & Environmental Solutions, Inc.	(505) 393-2326 Fax (505) 393-2476	101 East Marland Hobbs. NM B8240	
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Page 8 of 8

Appendix C Photo Documentation



Sign marking location 05-12-15



SE corner looking north



NW corner looking SE



Spill Run looking SW



Surface impact 05-12-15



Excavated area NW corner looking East



Soil Bore 08-14-15



Bore Hole Backfilled 08-14-15



Soil Bore Hole 08-14-15



Excavated area 10-22-15



Excavated area 10-22-15



Excavated area 10-22-15



Liner Installation 10-23-15



Liner Installation 10-23-15



Liner Installation 10-23-15



Liner Completion 10-26-15



Liner Completion 10-26-15



Excavated area 10-22-15



NW Corner looking SE completion 10-27-15



Facing West at completion 10-27-15



Facing south at completion 10-27-15



SE Corner lookin north completion 10-27-15



Looking southeast at completion 10-27-15



Facing South at completion 10-27-15

Appendix D C-141

NM OIL CONSERVATION ARTESIA DISTRICT

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Release Notification and Corrective Action

MAY 0 5 2015

Form C-141 Revised August 8, 2011

2RP-3021

Oil Conservation Division ^{Su} 1220 South St. Francis Dr. Santa Fe, NM 87505

SubmRECEUVEPropriate District Office in accordance with 19.15.29 NMAC.

NAB1515228638					OPERAT	TOR	🔀 Initia	ıl Report		Final Report
Name of Company: Devon Energy Production Co LP					Contact:	Brian I	Brian Kuh, Devon Foreman			
(6137) [1]37 Address: PO Box 250 Artesia, NM 88211					Telephone N	lo. 575-5	575- 513-9136			
Facility Name: Cotton Draw 11 Fed 2H					Facility Typ	e : Well le	Well location – Poseidon Tank			
Surface Owner: Federal Mineral Owner					wner: Federal		API No	. 30-015-3	39375	
LOCATION OF RELEASE										
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County		
С	11	258	31Ē	330	North	1980	West	Eddy		
Latitude: 32deg 9' 4.648'' N Longitude:103deg 45' 3.002'' W										
NATURE OF RELEASE										

NATURE	OF RELEASE						
Type of Release: Produced Water	Volume of Release: 7.5 bbls	Volume Recovered: 5 bbl +					
Source of Release: Poseidon Tank on location	Date and Hour of Occurrence 4/29/15, 7:00 PM	Date and Hour of Discovery 4/29/15, 7:00 PM					
Was Immediate Notice Given?	If YES, To Whom? (OCD-Mike Bratcher	BLM-Jeff Robertson)					
By Whom? Brian Kuh, Devon Foreman	Date and Hour: (5/4/15, 10:45 AM)						
Was a Watercourse Reached?	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.* A small hole on the underside of the Poseidon tank may have been caused by a power washer which caused the initial leak, then another hole was discovered in the secondary containment caused by an anchor. Vacuum trucks were used to recover the produced water.							
Describe Area Affected and Cleanup Action Taken.* The rest of the water in the tank was transferred to another tank at the Trionyx location so the hole may be mended. Vacuum trucks were used to recover the produced water. Alfredo's will take soil samples once the tank has been moved and remediation will take place accordingly.							
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: A. Menoud	OIL CONSERVATION DIVISION						
Printed Name: Denise Menoud	Approved by EnSister And Security						
Title: Field Admin Support	Approval Date: 41115	Expiration Date: NHA-					
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval:	Attached					
Date: 5/4/2015 Phone: 575-746-5544	mediation per O.C.D. Rules						

LATER THAN:

SUBMIT REMEDIATION PROPOSAL NO

IIr

0

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	Contact Brett Fulks						
Address 6488 Seven Rivers Hwy Artesia, NM 8	Telephone No. 575-513-5819						
Facility Name Cotton Draw 11 Federal #2H	Facility Type OIL						
	r						
Surface Owner BLM Mineral Owner		r BLM	API No. 30-015-3	89375			

LOCATION OF RELEASE

LOCATION OF RELEASE						2	2RP-3021	
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
С	11	25S	31E	330	North	1980	West	EDDY

Latitude: 32.151232 Longitude: -103.750816

NATURE OF RELEASE

Type of Release Spill Produced Water	Volume of Release: 7.5 bbls	Volume Recovered: 5 bbls				
Source of Release: Poseidon Tank	Date and Hour of Occurrence 04/29/2015 7:00 PM	Date and Hour of Discovery 04/29/15 7:00 PM				
Was Immediate Notice Given?	d OCD-Mike Bratcher BLM- Jeff Robertson					
By Whom? Brian Kuh, Devon Foreman	Date and Hour 5/4/2015 10:45 AM					
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.* A small hole on the underside of the Poseidon tank may have been caused by a power washer which in turn caused the initial leak, then another hole was discovered in the secondary containment caused by an anchor. Vacuum trucks were utilized to recover the produced water.						
Describe Area Affected and Cleanup Action Taken.* A vacuum truck was utilized to recover fluid. SESI has remediated the site in accordance with NMOCD Guidelines.						
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: Jeanette Barron	OIL CONSERV	ATION DIVISION				
Printed Name: Jeanette Barron	Approved by Environmental Specialist:					
Title: Field Admin Support	pproval Date: Expiration Date:					
E-mail Address: Jeanette.barron@dvn.com Date: 11/06/2015 Phone: 575.748.1813	Conditions of Approval: Attached					

* Attach Additional Sheets If Necessary