

February 4, 2016

AMARILLO

921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622

Mr. Mike Bratcher NMOCD District 2

811 S. 1st Street Artesia, NM 88210

ARTESIA

408 West Texas Avenue Artesia, New Mexico 88210 Phone 575.746.8768

Subject: Remediation and Closure Report

Devon Energy

Cotton Draw Unit #153 30-015-38535 2RP-3241

FORT COLLINS

1811 East Mulberry Street Fort Collins, Colorado Phone 970.818.5330

Dear Mr. Bratcher,

MIDLAND 2301 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

OKLAHOMA CITY

7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030

Incident Date

July 19, 2015

SAN ANTONIO

13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025

Background Information

WOODWARD 1211 34th Street Suite 13 Woodward, Oklahoma 73801 Phone 580.377.1194 The Cotton Draw Unit #153 is located approximately forty-five (45) miles southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter B, Section 3, Township 25 South, and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.166176° North and -103.763611° West. See the site plan in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Berino complex with 0 to 3 percent slopes, eroded. Drainage courses in this area are normally dry. Ground water in the project vicinity is greater than 100' according to the Chevron Texaco Water Trend map. No groundwater data is provided by the New Mexico Office of the State Engineers office. See Appendix II.

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

The ranking for this site is 0 based on the following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Toll Free 866.742.0742 www.talonlpe.com

Incident Description

On July 19, 2015 the suction lines on the circulation pumps were not closed which caused a release of 40 barrels of oil on the Cotton Draw #153 location. A vac truck was immediately called to the location and recovered 35 barrels of oil. All oil stayed on location. See site plan in Appendix I.

This Remediation Plan and Closure Report was specifically generated for the release of oil on July 19, 2015. The existing chloride contamination is from a previous event, which will be handled on a separate C-141 and remediated at a future date.

Remedial Actions Taken

• The hydrocarbon impacted area in the vicinity of sample point S-1 was hand excavated to a depth of 2-feet deep. Per NMOCD stipulations, a confirmation soil sample was taken at sample location S-1. The analytical result from that sampling event is presented below.

Laboratory Results, See Appendix III for complete report of laboratory results.

January 25, 2016, confirmation sample

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	
S-1	2'	< 0.300		<10	<10	

⁻⁻ Analyte Not Tested

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg.

• The impacted areas remaining on location were excavated to a depth of 1-feet deep. All contaminated soil was transported to Lea Land, LLC. The excavated areas were backfilled with new caliche, machine compacted and re-contoured to match the surrounding location.

Closure

On behalf of Devon Energy we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached. See Appendix IV.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson Kimberly M. Wilson

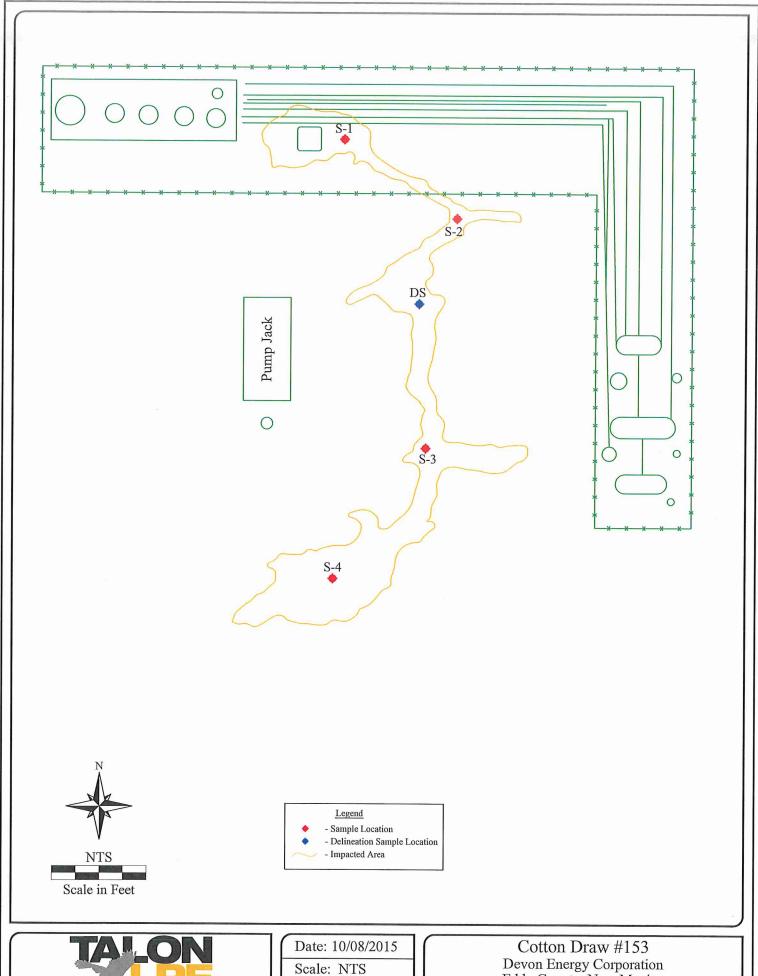
Project Manager

3

David J. Adkins
District Manager

Page 2 of 2

APPENDIX I SITE MAP





Drawn By: TJS

Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

APPENDIX II GROUNDWATER DATA



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

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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right file.)	ciosea)	((quarters are smallest to largest)				gestj	(NADOS STIVI III III cicio)			(III loot)			
	POD													
	Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin C	County	64 1	6	4 Se	c Tws	Rng		Х	Υ	Distance	Well	Water	Column
C 02258	С	ED		3	2 20	5 23S	31E	6180	55	3571853* 🌑	425	662		
C 02348	С	ED	1	4	3 20	6 23S	31E	6176	48	3571068 🌑	1298	700	430	270

Average Depth to Water:

430 feet

Minimum Depth:

430 feet

Maximum Depth:

430 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 618351

Northing (Y): 3572159

Radius: 3000

APPENDIX III LABORATORY RESULTS



January 25, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #153

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

,

01/20/2016

Reported: 01/25/2016

Project Name: COTTON DRAW #153

Project Number: 70079416201

Project Location: EDDY CTY

Sampling Date:

01/19/2016

Sampling Type: So

Soil

Sampling Condition:

Cool & Intact

Sample Received By: J

Jodi Henson

Sample ID: S-1 2' (H600131-01)

Received:

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2016	ND	1.71	85.6	2.00	6.03	
Toluene*	<0.050	0.050	01/22/2016	ND	1.83	91.6	2.00	5.89	
Ethylbenzene*	<0.050 0.050		01/22/2016	ND	1.70	85.2	2.00	5.40	
Total Xylenes*	<0.150	0.150	01/22/2016	ND	5.26	87.7	6.00	5.81	
Total BTEX	<0.300	0.300	01/22/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 % 73.6-14		0						
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2016	ND	186	92.9	200	7.25	
DRO >C10-C28	<10.0	10.0	01/21/2016	ND	189	94.3	200	4.86	
Surrogate: 1-Chlorooctane	79.5 % 35-1		,						
Surrogate: 1-Chlorooctadecane	83.1	% 28-171	i.						

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 valved unless made in writing and received by Cardinal within thirty (30) days after competion 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 samples indicated above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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 valved 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 is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

FINAL C-141