Devon Energy Production Co LP

ORE IDA 14 Federal 1

Closure

Unit Letter D, Section 14, T24S, R29E Eddy County, New Mexico

30-015-28956

March 23, 2016



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 Devon Energy to perform site delineation on the ORE IDA 14 Federal 1, concerning a Five (5) bbl. release comprising of produced water. This site is situated in Eddy County, Section 14, Township 24S, and Range 29E.

According to the C-141: A surface Poly flowline was struck resulting in an approximate 5 Bbl. release of produced water onto the lease road located to the east side of the ORE IDA 14 Federal 1. The line was shut in to prevent further impact. The breached line was exposed and fused back together. A vacuum truck was utilized to recover approximately 2 bbl. of the fluid. The spill area was mapped, using a Trimble Juno 3B. Whereby, the total area of impact was estimated to be 4,296 sq. ft. The NMOCD and BLM respectively, were notified on January 22, 2016, and the C-141 filed and stamped by the NMOCD on January 26, 2016 assigning this event number **2RP-3515** (Appendix A).

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 14, Township 24S, Range 29E is approximately 100' bgs. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 21' bgs. The approximate distance to surface water of the Pecos River is approximately 6,526'. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

IV. Work Performed

On January 29, 2016 SESI was onsite to photograph, assess and map the spill area. Auger holes were advanced in order to determine vertical extent. The first auger hole was advanced on the north end of the leak area that is located on the lease road. Auger hole two was advanced to 5' bgs., where auger refusal was encountered. Auger hole three was installed at the area where the fluid appeared to have settled, thereby causing the greatest impact, and again auger refusal was encountered at 5' bgs (Figure 2).

SESI personnel returned to the site, together with personnel from Custom Welding of Hobbs, in order to complete the vertical delineation of the impacted area. Whereby, it was determined that two (2) Test Trenches should be excavated in order to properly ascertain the vertical extent of the impact. Please note that AH-1 represents soil samples taken of the lease road area. 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 of the analysis are presented in the table below (Appendix C):

Sample Date 01/29/16	Depth	Chloride (mg/kg)
Sample ID		
AH-1	Surface	5840
AH-1	1'	144
AH-1	2'	176
TT-1	Surface	11900
TT-1	1'	720
TT-1	2'	1620
TT-1	3'	1880
TT-1	4'	976
TT-1	5'	480
TT-1	6'	704
TT-1	7'	352
TT-1	8'	32
TT-2	Surface	12700
TT-2	2'	4800
TT-2	4'	3080
TT-2	5'	1760
TT-2	6'	1010
TT-2	7'	736
TT-2	8'	400
TT-2	9'	336
TT-2	10'	32

On February 29, 2016, and based on the above soil analyses, SESI submitted a written Delineation Report and Work plan. The NMOCD, as well as the BLM concurred with the respective work plan.

VII. Request for Closure

Remedial actions at this site have all been conducted with the approval of BLM, and in accordance with NMOCD guidelines. On March 11, 2016, SESI personnel, together with the excavation equipment and personnel from B&R Trucking were on site in order to commence remediation activities. During excavation activities; a flowline was encountered. SESI personnel notified NMOCD of the issue, and obtained permission to omit 2' to either side of the flowline so as to prevent further impact. The remainder of the impacted area west of the lease road was excavated to 4' bgs., lined with a 20 mil. Liner, and backfilled with topsoil. SESI personnel obtained representative soil samples from sidewalls and bottom of excavation for confirmation. 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 of the analysis are presented in the table below (Appendix C):

Sample Date 03/15/16	Depth	Chloride (mg/kg)
Sample ID		
North Wall		<16.0
South Wall		<16.0
West Wall		<16.0
North		
West Wall		80.0
South		
East Wall		48.0
Bottom North	4'	240
Bottom South	4'	1090

Based on the confirmation of desired soil constituency levels: all impacted soils were transported to Lea Land, an NMOCD approved facility. On March 17, 2016 the area was returned to natural grade and seeded with the BLM approved seed mixture of LPC #3 that is native to the area, see photo documentation (Appendix D).

SESI, on behalf of Devon Energy Production Company, respectfully submits this closure report for your consideration and approval.

VIII. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A – C-141

Appendix B – Groundwater

Appendix C - Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map

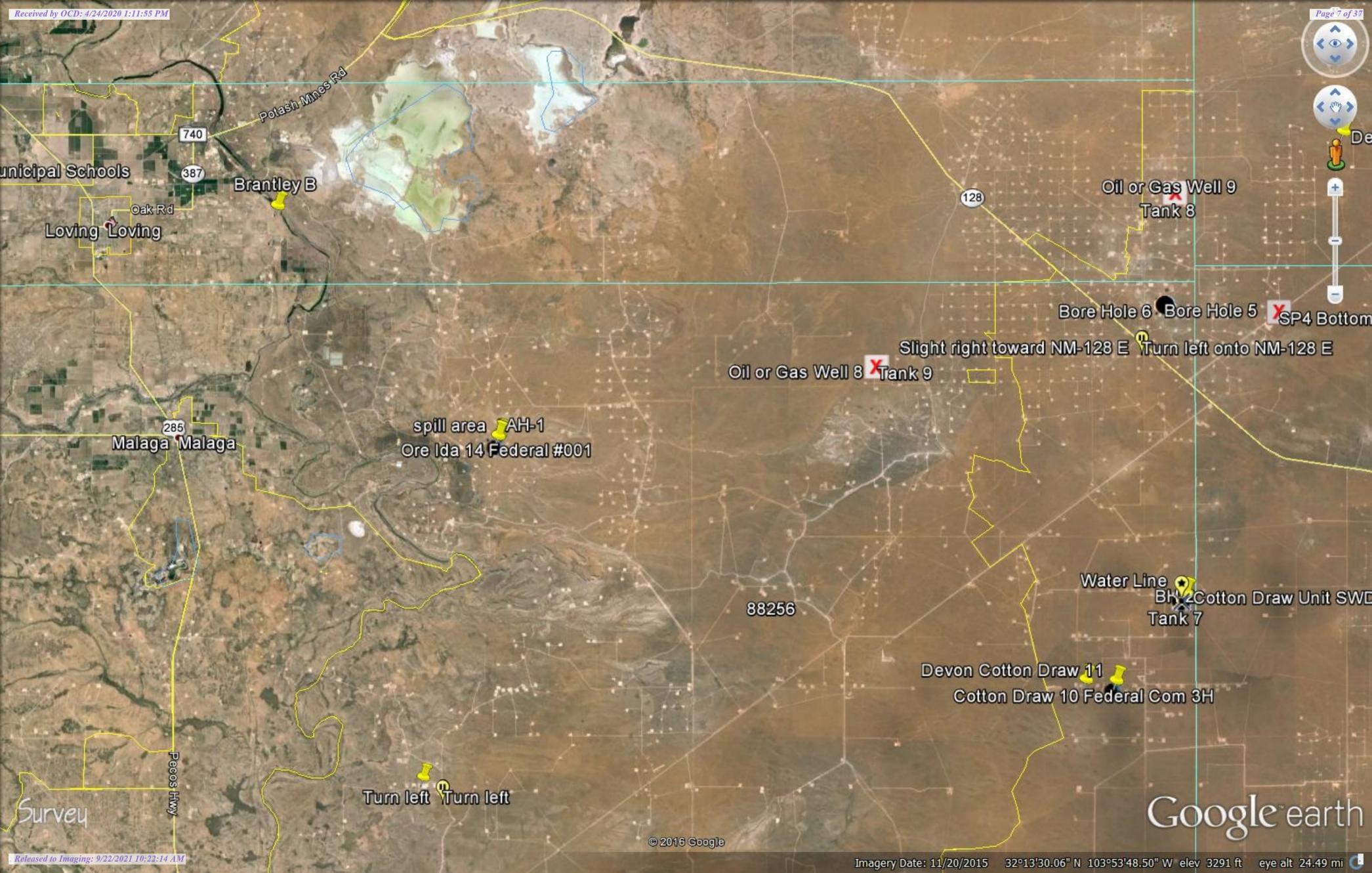


Figure 2 Site Plan



Appendix A Final C-141

NM OIL CONSERVATION

Page 11 of 37

ARTESIA DISTRICT

Form C-141

State of New Mexico

JAN 2 5 2016

Revised August 8, 2011

Energy Minerals and Natural Resources

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

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

District II

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe NM 87505

				56	iiia i	c, INIVI 675	· ·							
			Rele	ease Notific	atio	n and Co	rrective A	ction						
NAB160	02633	193				OPERA?	ΓOR		✓ Initia	al Report		Final Report		
Name of Co	ompany D	evon Energy	/ Product	ion Company	137		endell Barrett -	- Assist			oreman			
Address 64	88 Seven I	Rivers Hwy	Artesia, l				No. 505-529-18	43						
Facility Na	me ORE I	DA 14 Fede	ral 1	···		Facility Type Oil Well								
Surface Ov	vner Feder	al		Mineral (Owner	Federal			API No	3001528	3956			
				LOCA	TIO	N OF REI	FASE			,				
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County				
D	14	24S	29E	660		N	480		W	Eddy				
			<u> </u>											
			Lat	itude: 32.22289	1	Lon	gitude: 103.96	1726						
				NAT	'URE	OF RELI	EASE							
Type of Rele							Release 5 BBLs			Recovered				
Source of Re	elease Polyl	ine - Flowline	•			1	Hour of Occurre	nce		Hour of 1 5 9:30 A.M		ry		
Was Immed	iste Natice	Given?				1/21/2016			1/21/2010	9:30 A.N	1,			
vvas minicu	iaic Nonce		Yes [No Not Re	equired									
						OCD: Mik	e Bratcher							
Ry Whom?	Wendell Ba	rrett _ Accista	nt Constr	ection Foreman		Date and I	Hour							
Dy Whom:	Welldell Du	11011 71331310	in Constit	iction i oreman			ary 22, 2016 2:2	25 PM						
						OCD: Janu	ary 22, 2016 2:3	80 PM						
Was a Wate	rcourse Re	ached?	<u>.</u>			If VFS V	lume Impacting	the W	atercourse					
THIS A TRACE	icomse ne		Yes 🗵	No		N/A	nume impacting	, 1110 111	icicouisc					
If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.*		· ·								
Describe Ca												_		
Surface polyi	line/flowlin	e was struck r	esulting ir	release. Line wa	s shut c	off to prevent f	urther release. Th	e line w	as uncover	ed and fus	ed back	together.		
Describe Ar														
				eleased from surf . 2 BBLs produce										
remediation.	Size of the	affecteu area	is to xto	. 2 BBLs produce	u wate	was recovere	d by vacuum 110	ick, Eliv	попніста	agency w	iii oc co	macted for		
-	-	_		is true and comp										
nublic health	or the envi	are required t	o report ai	nd/or file certain r se of a C-141 repo	rt hv tl	ne NMOCD m	arked as "Final R	enort" d	loes not rel	ieve the or	perator c	of liability		
should their o	operations h	ave failed to	adequately	investigate and r	emedia	te contaminati	on that pose a thre	eat to gr	ound wate	r, surface	water, hi	uman health		
				otance of a C-141	report	does not reliev	e the operator of	responsi	ibility for c	ompliance	with an	ny other		
federal, state,	or local lav	ws and/or regi	ılations.				OIL CON	CEDU	ATION	DIVIC	IONI			
Signature: N	icole W	edman					OIL CON	<u>SER V</u>	ATION	DIVIS	<u>ION</u>			
Digitature: 14	10010 //						Signed B	By D	1/4 6	KAREULS	Æ _			
Printed Name	e: Nicole V	Vedman		Approved by	Environmental S									
Title: Field A	Admin Sup	port			į	Approval Da	e: 1126116		Expiration	Date:	J/A			
	-							*.			,,			
E-mail Addre	ess: nicole.v	wedman@dv	n.com			Conditions of Remediatio	f Approval: n per O.C.D. F	Rules	& Guidei	ineatach	ed 🔲			
Date: 1/25/2	016	Phon	e: 575.74 8	3.1820		SUBMIT RE	MEDIATION	PROP	OSAL NO	ן כ				
Attach Addi						ATER THA		<u>/ </u>	<u> </u>		$\sqrt{2}$	17515		

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Wedman, Nicole < Nicole.Wedman@dvn.com>

Sent: Monday, January 25, 2016 3:19 PM

To: jamos@blm.gov; stucker@blm.gov; Patterson, Heather, EMNRD; Bratcher, Mike,

EMNRD; agroves@slo.state.nm.us

Cc:Scrogum, Sandy; DeLaRosa, DanaSubject:ORE IDA 14 Fed 1 5 BBLS PW 1.21.16

Attachments: ORE IDA 14 Fed 1 5 BBLs PW 1.21.16 Initial C-141.doc; ORE IDA 14 Fed 1_5 BBLS PW_

1.21.16 GIS Image.pdf; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 1 of 6.jpg; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 2 of 6.jpg; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 3 of 6.jpg; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 4 of 6.jpg; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 5 of 6.jpg; ORE IDA 14 Fed 1_5 BBLS PW_1.21.16 Pic 6 of 6.jpg

Good Afternoon,

Attached is the initial C-141 pictures and GIS image for the 5 BBLs produced water release that occurred on the lease road near the ORE IDA 14 Federal 1 on January 21, 2016. The red dot on the GIS image represents the approximate origin of the release.

Thank you,

Nicole Wedman
Field Admin Support - Construction



Devon Energy Production 6488 Seven Rivers Hwy Artesia, NM 88210 575-748-1820 nicole.wedman@dvn.com

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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.

	,	,		Sa	nta Fe	e, NM 8/5	05					
			Rele	ease Notific	atio	n and Co	rrective A	ction	1			
						OPERA	ΓOR		☐ Initia	al Report	\bowtie	Final Report
				ion Company		Contact: Bre				1		
		Rivers Hwy.		NM 88210			No. (575) 748-1	844				
Facility Nar	ne: Ore Id	a 14 Federal	1			Facility Typ	e					
Surface Ow	ner Feder	al		Mineral C	wner I	Federal			API No	. 30-015-2	8956	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/V	West Line	County		
D	14	24S	29E	660	North		480	West		Eddy		
			1	Latitude 32.2	2289	Longitu	de -103.961726			, ,		
						OF RELI						
Type of Relea				•			Release 5 BBLS			Recovered 2		
Source of Re	lease: Polyl	ine-Flowline				Date and H 3/22/14	Iour of Occurrenc	e	Date and 3/22/14	Hour of Dis	covery	
Was Immedia	te Notice (If YES, To			3/22/14			
			Yes _	No Not Re	equired	BLM: Jim	Amos Mike Bratcher					
By Whom? Wendell Barrett-Assistant Construction Foreman Was a Watercourse Reached?							Iour January 22, 2 Dlume Impacting t			NMOCD 2:	30PM	
was a water	ourse Read		Yes 🗵] No		II IES, VC	nume impacting t	ne wau	ercourse.			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.									
			•									
D	£ Db.1	em and Reme	J:-1 A -4:-	Т-1								
Describe Cau	se of Probl	em and Reme	uiai Actioi	п такеп.								
				n release. The line								ack together.
SESI assessed	and deline	sated the area	tollow by	the submittal of a	delinea	ition-remediai	ion pian with con	currenc	e by all par	ties of conc	ern.	
		and Cleanup A				1C CD	4C 11 1 14	.1	1.6.141.	1	1.1 NT	MOCD
guidelines for			the approv	ed work plan. SES	I, on bel	half of Devon i	respectfully submit	s this fi	nal C-141 in	accordance	with N	MOCD
I hereby certi	fy that the	information gi	iven above	e is true and comp	lete to t	he best of my	knowledge and u	ndersta	nd that purs	uant to NM	OCD rı	ules and
regulations al	loperators	are required to	o report ar	nd/or file certain r	elease n	otifications ar	nd perform correc	tive act	ions for rele	eases which	may er	ndanger
				ce of a C-141 report investigate and re								
or the environ	ment. In a	ddition, NMC	OCD accep	otance of a C-141								
federal, state,	or local la	ws and/or regu	ılations.				OIL COM	CEDY	ATION	DIVICIO)NI	
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Signature: 2	rett,	rulks							Bu	dlan	18	Olivan
Printed Name	: Brett Full	ks				Approved by	Environmental S ₁	pecialis	t: Du	idfora		eeinge
Title: EHS R	epresentativ	ve				Approval Dat	e: 09/22/202	1	Expiration 1	Date:		
E-mail Addre	ss: Brett.fu	ılks@dvn.com	1			Conditions of	Approval:			Attached		
					1					1 macricu		

Date: March 23, 2016

Phone: (575) 748-1844

^{*} Attach Additional Sheets If Necessary

Appendix B 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,

closed)

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)

		POD Sub-			Q							-	-	Water
POD Number			County	64						X	Υ		Water	Column
<u>C 00349</u>	С	CUB	ED		1	3	18	24S	29E	591401	3564773*	2734		
C 00381	С	С	ED	3	2	3	07	24S	29E	591682	3566297*	2797		
<u>C 00463</u>		С	ED	4	4	4	17	24S	29E	594332	3564282* 🌍	260	4	256
<u>C 00856</u>			ED	1	2	4	30	24S	29E	592538	3561644* 🎒	380		
<u>C 00857</u>			ED	3	1	4	30	24S	29E	592135	3561440* 🌑	306		
C 00862			ED	1	2	4	30	24S	29E	592538	3561644*	155		
C 00863			ED	3	3	1	16	24S	29E	594524	3565091*	220		
C 00863 CLW199506	0		ED	3	3	1	16	24S	29E	594524	3565091*	220		
<u>C 02713</u>		С	ED	4	4	1	16	24S	29E	591633	3565944	230	18	212
C 03615 POD1		CUB	ED	1	3	2	06	24S	29E	591964	3568500 🌕	60	36	24
C 03615 POD2		CUB	ED	4	2	4	06	24S	29E	592661	3568013 🌕	60	26	34

Average Depth to Water: 21 feet

> Minimum Depth: 4 feet

> Maximum Depth: 36 feet

Record Count: 11

Basin/County Search:

County: Eddy

PLSS Search:

Township: 24S Range: 29E

*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 C Analytical Results



February 08, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEVON OREIDA 14-1

Enclosed are the results of analyses for samples received by the laboratory on 02/05/16 8:00.

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/ga/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:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/05/2016 Sampling Date: 01/29/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: DEVON OREIDA 14-1 Sampling Condition: ** (See Notes)
Project Number: DEV-16-002 Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: AH-1 SURFACE (H600261-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	02/08/2016	ND	400	100	400	7.69	
Sample ID: AH-1 1FT (H	600261-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/08/2016	ND	400	100	400	7.69	
Sample ID: AH-1 2FT (H	600261-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/08/2016	ND	400	100	400	7.69	
Sample ID: TT-1 SURFAC	CE (H600261-0	4)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	02/08/2016	ND	400	100	400	7.69	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/05/2016 Sampling Date: 02/04/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: DEVON OREIDA 14-1 Sampling Condition: ** (See Notes)
Project Number: DEV-16-002 Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

-								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
720	16.0	02/08/2016	ND	400	100	400	7.69	
0261-06)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1620	16.0	02/08/2016	ND	400	100	400	7.69	
0261-07)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1880	16.0	02/08/2016	ND	400	100	400	7.69	
	Result 720 0261-06) mg Result 1620 0261-07) mg	mg/kg Result Reporting Limit 720 16.0 00261-06) mg/kg Result Reporting Limit 1620 16.0 00261-07) mg/kg	mg/kg Analyze Result Reporting Limit Analyzed 720 16.0 02/08/2016 0261-06) mg/kg Analyze Result Reporting Limit Analyzed 1620 16.0 02/08/2016 0261-07) mg/kg Analyze	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank 720 16.0 02/08/2016 ND 0261-06) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank 1620 16.0 02/08/2016 ND 0261-07) mg/kg Analyzed By: AP	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS 720 16.0 02/08/2016 ND 400 10261-06) Manalyzed By: AP Result Reporting Limit Analyzed Method Blank BS 1620 16.0 02/08/2016 ND 400 10261-07) Mg/kg Analyzed By: AP	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery 720 16.0 02/08/2016 ND 400 100 Mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery 1620 16.0 02/08/2016 ND 400 100 10261-07) mg/kg Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 720 16.0 02/08/2016 ND 400 100 400 7.69 10261-06) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1620 16.0 02/08/2016 ND 400 100 400 7.69 10261-07) mg/kg Analyzed By: AP

Sample ID: TT-1 4FT (H600261-08)

Chloride, SM4500Cl-B	mg,	g/kg Analyze		zed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/08/2016	ND	400	100	400	7.69	

Sample ID: TT-1 5FT (H600261-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/08/2016	ND	400	100	400	7.69	

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Celey D. Keene

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: 02/05/2016 Sampling Date: 02/04/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: DEVON OREIDA 14-1 Sampling Condition: ** (See Notes)
Project Number: DEV-16-002 Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: TT-1 6FT (H600261-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	02/08/2016	ND	400	100	400	7.69	
Sample ID: TT-1 7FT (H6	00261-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-1 8FT (H6	00261-12)								
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	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 SURFAC	E (H600261-1	3)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12700	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 2FT (H6	00261-14)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/08/2016	ND	416	104	400	3.77	

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Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/05/2016 Sampling Date: 02/04/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: DEVON OREIDA 14-1 Sampling Condition: ** (See Notes)
Project Number: DEV-16-002 Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: TT-2 4FT (H600261-15)

Sample ID: TT-2 4FT (H60 Chloride, SM4500Cl-B	mg,	/ka	Analyze	d By: AP					
Childride, Shitsouch	ılıy,	<i>, "</i> a	Alialyze	u Dy. AF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	3080	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 5FT (H60	00261-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 6FT (H60	00261-17)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 7FT (H60	00261-18)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	02/08/2016	ND	416	104	400	3.77	
Sample ID: TT-2 8FT (H60	00261-19)								
Chloride, SM4500Cl-B	mg	/ka	Analyze	d Dur AD					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/08/2016	ND	416	104	400	3.77	

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Celey D. Kune



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/05/2016 Sampling Date: 02/04/2016

Reported: 02/08/2016 Sampling Type: Soil

Project Name: **DEVON OREIDA 14-1** Sampling Condition: ** (See Notes) Project Number: DEV-16-002 Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: TT-2 9FT (H600261-20)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 336 16.0 02/08/2016 ND 416 104 400 3.77

Sample ID: TT-2 10FT (H600261-21)

Chloride, SM4500Cl-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	02/08/2016	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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Celeg D. Freene

† Cardinal cannot accept verbal changes, Please fax written changes to (915) 573-7020.

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March 22, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-002

Enclosed are the results of analyses for samples received by the laboratory on 03/17/16 15:20.

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/ga/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:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/17/2016 Sampling Date: 03/15/2016

Reported: 03/22/2016 Sampling Type: Soil

Project Name: DEV-16-002 Sampling Condition: Cool & Intact
Project Number: DEV-16-002 Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: NORTH WALL (H600591-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/21/2016	ND	432	108	400	0.00	

Sample ID: SOUTH WALL (H600591-02)

Chioride, SM4500CI-B	mg	/ K g	Anaiyze	а ву: АР					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/21/2016	ND	432	108	400	0.00	

Sample ID: WEST WALL NORTH (H600591-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/21/2016	ND	432	108	400	0.00	

Sample ID: WEST WALL SOUTH (H600591-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2016	ND	432	108	400	11.8	

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/17/2016 Sampling Date: 03/15/2016

Reported: 03/22/2016 Sampling Type: Soil

Project Name: DEV-16-002 Sampling Condition: Cool & Intact
Project Number: DEV-16-002 Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: EAST WALL (H600591-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2016	ND	432	108	400	11.8	

Sample ID: BOTTOM 4' NORTH (H600591-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/21/2016	ND	432	108	400	11.8	

Sample ID: BOTTOM 4' SOUTH (H600591-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	03/21/2016	ND	432	108	400	11.8	

Cardinal Laboratories *=Accredited Analyte

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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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		-	Sampler - UPS - Bus - Other:
	tials)	Sample Condition CHEC	Delivered By: (Circle One)
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	NEWSTAN.	Received By:	Tumeroo
☐ Yes ☐ No	Phone Result: Fax Result:	Received By:	affiliates or successary arising out of or related to the performance of services instruments of the Refurduished By:
	ove stated reasons or otherwise.	out limitation, business interruptions, loss of use, or loss of pronts at regardless of whether such claim is based upon any of the ab	analyses. All claims including triose for regulerice and any power and any service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits including any of the above stated reasons or otherwise.
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		4388 Address:	#: E
		88240 Attn:	City: Hobbs State: NM Zip:
	ne	Company: Same	Address: 703 East Clinton, PO Box 1613
		P.O. #:	
		BILL	Company Name: Safety and Environmental Solutions
ANALYSIS REQUEST	5	200	(575) 393-2326 FAX (575) 393-2476

Appendix D Site Photos

Devon Energy Ore IDA 14 Federal I 30-015-28956



Lease Rd





Pasture Sample Point



Surface Chlorides



Test Trench



Test Trench restored to grade

Devon Energy Ore IDA 14 Federal I 30-015-28956



3-16-16 Liner Installation



3-17-16 Backfill of south end



3-17-16 Seeding



3-16-16 Lined Area



3-17-16 Backfill-unobstructed flowline



3-17-16 Completion

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAB1602633193
District RP	2RP-3515
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
□ Description of remediation activities					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Tom Bynum Title: EHS Consultant					
Signature: Date: 4/24/2020					
email: tom.bynum@dvn.com Telephone: 575-748-0176					

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OCD Only					
Received by: Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by:	Date:				
Printed Name:	Title:				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 5141

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	5141
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/22/2021