HUNGRY HORSE, LLC

3709 S. Eunice HWY P.O. Box 1058 Hobbs, NM 88241 Office: 575-393-3386 Fax: 575-391-4585 info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION SOIL TESTING * EXCAVATION * ELECTRICAL

22Feb16

To: Heather Patterson, New Mexico Oil Conservation Division, District 2

Jim Amos, Bureau of Land Management

Reference: Remediation Work Plan

Operator: Devon Energy Production Company

Location: Ross Ranch 10 Fed #1 SWD

API: 30-015-29605

Legals: UL. H, Sec. 10, T26S, R31E, Eddy County

GPS: 32.0592, -103.7590 NM OCD: 2RP 2342

Site information

This location is on the south side of Pipe Line Road five miles west of the intersection of Pipe Line Road and CR 1/Orla Highway. The area around the site is relatively flat with a heavy concentration of mesquite and creosote bushes. Based upon the Eddy County Depth to Groundwater Map, depth to groundwater is 275'. The New Mexico Office of the State Engineer's website list no groundwater data for this area.

The impacted area is on the south side of the battery at the edge of the pad and is approximately $15' \times 20'$. The release is the result of a failed fitting.

Work Conducted to Date

A delineation using a hand auger was attempted which resulted in auger refusal at 7' BGS. Soil samples were field tested for chlorides with the surface and one foot samples being selected for lab analysis. Further delineation was conducted the following week with a backhoe. Soil samples at 9' and 11' BGS were field tested for chlorides and field test indicated levels below closure limits. These samples were selected for lab analysis and the lab results supported the field test. (See attached analytical summary and lab analysis.)

Proposal

I propose to excavate the impacted area, approximately 15' x20', to a depth of 3' BGS and install a synthetic liner in order to prevent the downward migration of the Chlorides. Due to the low chloride level between the surface and 3' BGS, I propose to use the excavated material for backfill.

Vernon K. Black, Hungry Horse, LLC

<u>District I</u> 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

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141 Revised August 8, 2011

District IV 1220 S. St. Franc	cis Dr., Santa	Fe, NM 87505				e, NM 875				en		
			Rele	ase Notific	cation	and Co	rrective A	ction	L			
nHMPIC	11/042	290910				OPERAT				al Report	Final F	Report
Name of Co	mpany D	evon Energy	Producti	on 613/		Contact T	racy Kidd –Pro	ductio	on Forema	an		
Address Po	O Box 250	Artesia, NI	M 88210			Facility Tyr	No. 575.513.062 De Salt Water I)išposa	ıl			
Facility Na			ulswu							. 30-015-2	29605	
Surface Ow	vner Feder	ral		Mineral					711 1110	. 50 015		
						N OF REI	Feet from the	Fast/\	West Line	County		
Unit Letter H	Section 10	Township 26S	Range 31E	Feet from the 1980		North	660	Proc. 10 (1)	East	Eddy		8
			Latitud	e: 32.05923548			ngitude: -103.7	59057	87			
				NAT	TURE	OF RELI	EASE Release 1300BB	I S in	Volume I	Recovered		
Type of Rele	ase Spill P	roduced Wat	er			lined conta	ainment- 4BBLS	on	1303BBL	LS		
Source of Re	elease hole	in lined con	tainment			6/9/2014 1		nce	Date and 6/9/2014	Hour of D 10:29AM	iscovery	
Was Immed	iate Notice	Given? ⊠	Yes [No Not R	equired		BLM & Thomas					
By Whom?	Lynn Smitl	n; Assistant P	roduction	Foreman		Date and I	Hour 6/10/2014 Dlume Impacting	10:00A	M atercourse			
Was a Wate	rcourse Re	ached?	Yes 🗵	No		N/A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		mpacted, Des		N/A								
A pin hole ir	the lined		formed ca	iusing the spill t			nent. After the p g the spill into th d affecting appro				d it was discovenment will be	ered
•									NM OIL		RVATION RICT	
Describe Ar	ea Affected	and Cleanu	p Action 7	Taken.*					Jl	UN 122	014	
Equipment	will be stea	ım cleaned ar	nd affecte	d soil will be ren	noved a	nd replaced v	with fresh soil.					
							l ladas and u	ndoreta	nd that purs	RECEIVE	OCD rules and	i
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required to a comment. The take failed to a condition, NMC	o report and acceptant adequately OCD accep	ce of a C-141 rep	ort by th	ne NMOCD m	knowledge and und perform correct arked as "Final R on that pose a three the operator of	eport" or eat to g respons	does not rel round water libility for c	ieve the ope r, surface w compliance	erator of liability ater, human hea with any other	y
		ws and/or regu	arations.				OIL CON	SERV	ATION	DIVISION	ON C	
Signature: S	andra	Farley							4			(91)
Printed Name	e: Sandra I	arley				Approved by	Environmental S	pecialis	st: //u	116	-	
Title: Field A						Approval Da	te: 6/13/10	1	Expiration	Date:	VA	
E-mail Addr	ess: Sandy.	Farley@dvn.	com			Conditions of	f Approval:	Cuida	linas W.	Attached	1 🗆	
Date: June 1				ne: 575.746.55 87	7	kemediation	per OLD Kule & by BLM. <u>SUBMIT</u>	REME	DIATION		0.0	
' Attach Addi	tional She	ets If Necess				PROP	OSAL NO LATER	THAN:		d	RP-Z3	342



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

No records found.

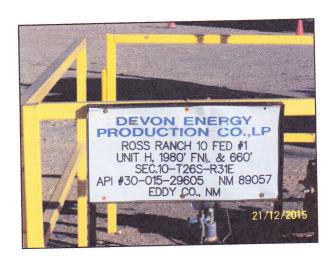
PLSS Search:

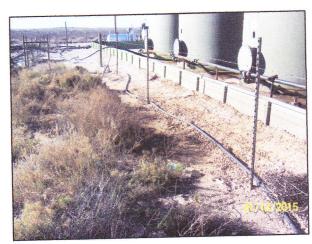
Section(s): 10

Township: 26S

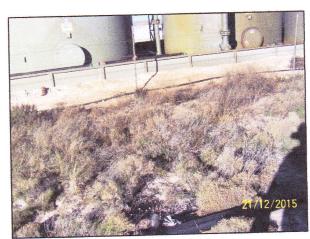
Range: 31E

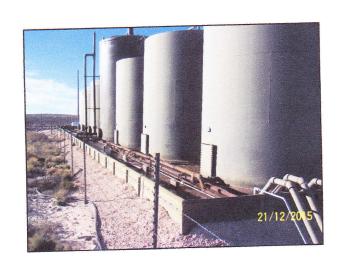
Devon Energy Production Company-Ross Ranch 10 Fed #1



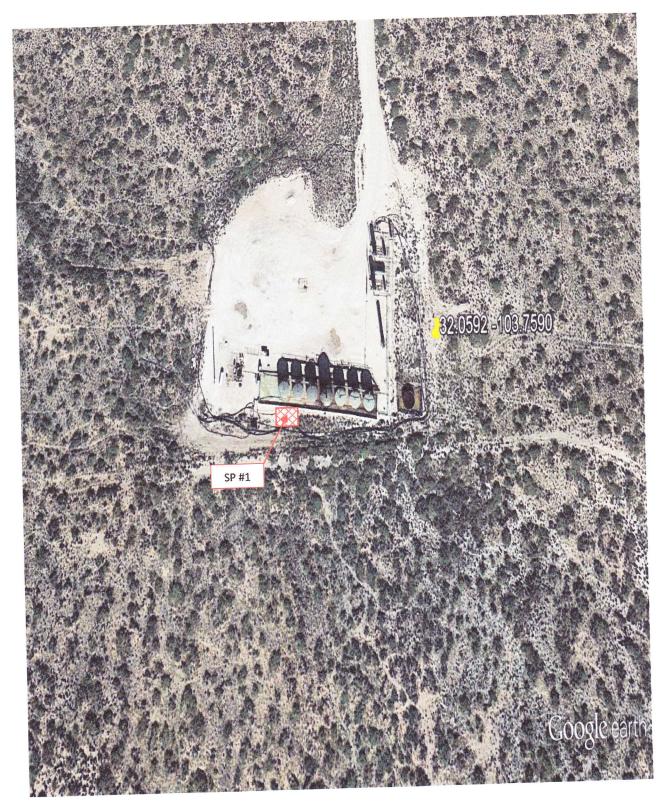








Devon Energy Production Company-Ross Ranch 10 Fed #1



Impacted area is approximately 15' x 20' .

Analytical Summary

Operator: Devon Energy Production Company Location: Ross Ranch 10 Fedf #1

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM)

BTEX

LAB	ND	ND	ND	ND
Depth	Surface	1' BGS	9' BGS	11' BGS
Sample Point	SP #1			

Chlorides

						Encounter hard rock/hand auger refusal at 7' BGS			
						Enco			
Field Toct	rieid lest	ND	QN	642	1458	1587	78	ND	
OVI		ND	80				96	48	
	Deptn	Surface	1' BGS	3' BGS	5' BGS	7' BGS	9' BGS	11' BGS	
	Sample Point Depth	SP #1							

TPH

Sample Point	Deptn	LAB
SP #1	Surface	553
	1' BGS	14
	9' BGS	ND
	11' BGS	ND



January 21, 2016

VERNON BLACK
Hungry Horse Environmental
P.O. Box 1058

Hobbs, NM 88240

RE: ROSS RANCH 10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 15:55.

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.

Celes Heene

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



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

01/18/2016

Reported:

01/21/2016

Project Name:

ROSS RANCH 10 FED #1

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

89.5

179

ND

01/18/2016

Sampling Type: Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: SP #1 SURFACE (H600099-01)

Sample ID: SP #1 SURFACE (II	mg/		Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	< 0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	< 0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	< 0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.6-14	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	<16.0	16.0	01/20/2016	ND	432	108	400	0.00	
		/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	01/19/2016	ND	194	96.9	200	3.69	

01/19/2016

35-147 91.6% Surrogate: 1-Chlorooctane 28-171 93.6 % Surrogate: 1-Chlorooctadecane

553

10.0

Cardinal Laboratories

GRO C6-C10

DRO >C10-C28

*=Accredited Analyte

4.37

200

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aleg theno



Hungry Horse Environmental **VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

01/18/2016

01/21/2016

Reported: Project Name:

ROSS RANCH 10 FED #1

Project Number: Project Location: NONE GIVEN EDDY COUNTY, NM Sampling Date:

01/18/2016

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: SP #1 1' BGS (H600099-02)

BTEX 8021B	mg/	kg	Analyzed	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	< 0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	< 0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	< 0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	% 73.6-14	0						
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	01/20/2016	ND	432	108	400	0.00	
	mg/	'kg	Analyze	d By: MS					
TPH 8015M	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	<10.0	10.0	01/19/2016	ND	194	96.9	200	3.69	
GRO C6-C10		10.0	01/19/2016	ND	179	89.5	200	4.37	
DRO >C10-C28	13.8	10.0	01/15/2010						
			_						
Surrogate: 1-Chlorooctane	87.0	% 35-14	7						

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*=Accredited Analyte

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Certification .



ND

Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference RPD 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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*=Accredited Analyte

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alex treene



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2478	3-24/0	BILL TO	ANALYSIS REQUEST
I,		P.O. #:	
A LOCK		Company:	
	State: N/7 Zip: 8834	Attn:	
#575-631-2253	Fax #: 575-391-4585	Address: City:	
Project #:	James Co	State: Zip:	
Project Name: 1035 control Eddy Control	Eddy Corty	Phone #:	
A Company of the Comp			
Sampler Name: Control of the Sample I.D. Sample I.D.	AMO(©) RO 8 SABUIATE SABUATE SABUATE	PRESERV SAMPLING COOL SER: PER SAMPLING COOL	
HLOCOGRA SPET SUGGE	0015 SOIL SAW 1089 NO.2 # CON		
PLEASE NOTE: Lability and Gennages. Cardinal's biobly and clean's exchance remedy for any claim alsing a PLEASE NOTE: Lability and Gennages. Cardinal's biologic prose for the claims of the deemed water and seasons including those for the contraction of demographs including without limitedo.	for erry claim a the deemed w dang without b	ghad be funded to the amount paid by the client for the case of th	
	Date: Received By: Time; 555 Received By: Received By: To bate: Reference By:	HUMBN REMARKS:	No Additione #: No Addition #: Straight Straight
Delivered By: (Circle One)	Sam Sam	ole Condition CHECKED BY: The Intact Tess The State of Children of	1000
	ges. Please fax written change	5. LP 50.5-363-56 6	



January 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ROSS RANCH 10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/26/16 11:06.

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.

Celes D. Keene

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



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

01/26/2016

Reported:

01/29/2016

Project Name:

ROSS RANCH 10 FED #1

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/25/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Jodi Henson Sample Received By:

Sample ID: SP 2 9' (H600178-01)

Sample ID: SP 2 9 (H600178-0 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	01/27/2016	ND	1.89	94.6	2.00	7.17	
Toluene*	< 0.050	0.050	01/27/2016	ND	1.86	93.0	2.00	7.21	
Ethylbenzene*	< 0.050	0.050	01/27/2016	ND	1.69	84.4	2.00	7.83	
Total Xylenes*	< 0.150	0.150	01/27/2016	ND	5.21	86.8	6.00	7.67	
Total BTEX	<0.300	0.300	01/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 73.6-14	0						
Chloride, SM4500CI-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	01/27/2016	ND	400	100	400	0.00	
TPH 8015M	mg	′kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•	<10.0	10.0	01/27/2016	ND	199	99.3	200	3.47	
GRO C6-C10	<10.0	10.0	01/27/2016	ND	190	95.0	200	4.27	
DRO >C10-C28	<10.0	10.0	01/2//2010						
Surrogate: 1-Chlorooctane	70.2	% 35-14	7						
Surrogate: 1-Chlorooctadecane	70.0	% 28-17	I						

Cardinal Laboratories

*=Accredited Analyte

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Cedent treme-



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received: Reported: 01/26/2016

01/29/2016

Project Name:

ROSS RANCH 10 FED #1

Project Number:

NONE GIVEN

Project Location:

61.0%

28-171

EDDY COUNTY, NM

Sampling Date:

01/25/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

10213

Sample ID: SP 2 11' (H600178-02)

Sample 1D. SF Z 11 (11000170)	mg/	kg	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2016	ND	1.89	94.6	2.00	7.17	
Toluene*	< 0.050	0.050	01/27/2016	ND	1.86	93.0	2.00	7.21	
Ethylbenzene*	< 0.050	0.050	01/27/2016	ND	1.69	84.4	2.00	7.83	
Total Xylenes*	< 0.150	0.150	01/27/2016	ND	5.21	86.8	6.00	7.67	
Total BTEX	<0.300	0.300	01/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	48.0	16.0	01/27/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
V.00.400.000 P.00000	<10.0	10.0	01/27/2016	ND	199	99.3	200	3.47	
GRO C6-C10 DRO >C10-C28	<10.0	10.0	01/27/2016	ND	190	95.0	200	4.27	
Surrogate: 1-Chlorooctane	62.8	% 35-14	7						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celego Freno



Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Company Name: Hungry Horse, LL	P.O. #:	
nager: Vernz	Company:	
Address: FO DOA 1838 State: MM Zip: 8834); 8834 Attn:	
31-2253		
Project #:	State: Zip:	
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+ Cardinal cannot accept verbal changes. Please fax written changes to 505-3937378.	e fax written changes to 505-3931247& (