

RECEIVED

By Kellie Jones at 11:16 am, Oct 08, 2015

APPROVED Conditional

By Kellie Jones at 11:17 am, Oct 08, 2015

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

1. Please to vertical delineate SP1 to 250 ppm chlorides.
2. Ensure BLM approval/concurrence.

6Oct15

To: Kellie Jones, New Mexico Oil Conservation Division
Shelly Tucker, Bureau of Land Management
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Tomcat 21 Fed 1
API: 30-025-33356
Legals: UL. F, Sec. 21, T23S, R32E
GPS: 32.2927 -103.6815

Site Information

This site is located in Lea County, New Mexico approximately 3.6 miles north of the intersection of New Mexico Highway 128 and Red Road and 3.5 miles east of Red Road. Based upon the New Mexico State Engineer's website, there is one water well in the area with a depth to groundwater of 400'. The Lea County Depth to Groundwater Map indicates the same depth to groundwater.

This battery is an active and working site. The produced water release that occurred on 12Apr15, had no impact outside the berms of the battery. All fluid released, remained inside the earthen berms.

Work Conducted to Date

A delineation was conducted by use of hand tools on 29Sept15. Due to safety concerns, no mechanical equipment was used. Soil samples were obtained at three sample points from the surface to 3' below ground surface (BGS). Lab analysis was conducted for Chlorides. (See attached map with sample points and lab results.)

Proposed Remediation

Based upon the delineation results, depth to ground water, and the safety concerns of working inside a battery, I propose to hand excavate 2' of impacted material from the area of Sample Point #1 and 1' from the area of Sample Point #3. This encompasses the area between and on both side of the tanks. A complete delineation and remediation will be conducted at the time the facility is shut in and taken out of service.

All impacted material will be transported to a division approved facility for disposal. The battery will then be backfilled with fresh material.

Sincerely,



Vernon K. Black, Hungry Horse, LLC

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

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

Form C-141
Revised August 8, 2011

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	Dan Suniga
Address	6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No.	575.390.5850
Facility Name	Tomcat 21 Battery	Facility Type	Gas
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-025-33356

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	21	23S	32E	1980	FNL	1880	FWL	LEA

Latitude: 32.291774

Longitude: 103.681603

NATURE OF RELEASE

Type of Release Spill	Produced Water	Volume of Release	135 BBL	Volume Recovered	130 BBL
Source of Release	Water ran over the tops of the tank after the SCADA pack failed	Date and Hour of Occurrence	4.12.15 at 9:00 AM	Date and Hour of Discovery	4.12.15 at 9:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jeff Robertson BLM Tomas Oberding OCD		
By Whom?	Randy Gladden	Date and Hour	4.13.15 2:00 PM BLM 4.13.15 3:00PM OCD		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

4.12.15 Tomcat 21 Battery Devon Lease Operator arrived on location and found that 135 Bbls of produced water had ran over the tops of the tanks after the SCADA pack failed. Lease Operator pulled levels down and called vacuum truck. Spilled – 135 bbl pf produced water, Recovered 130 bbls

Describe Area Affected and Cleanup Action Taken.*

It was all contained inside unlined containment 40x40 area. Environmental group will be called to evaluate impacted area.

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: <i>Jeanette Barron</i>	OIL CONSERVATION DIVISION		
Printed Name: Jeanette Barron	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Jeanette.barron@dvn.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6/1/15	Phone: 575.748.1813		

* Attach Additional Sheets If Necessary



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

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	DepthWater WaterColumn
C 02216	CUB	LE		2	2	4	21	23S	32E	625035	3573261*	585	400 185

Average Depth to Water: 400 feet

Minimum Depth: 400 feet

Maximum Depth: 400 feet

Record Count: 1

PLSS Search:

Section(s): 21

Township: 23S

Range: 32E

*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.

DEVON ENERGY PRODUCTION- Tomcat 21 Fed 1



Devon Energy Production- Tomcat 21 Fed 1 Battery



Lab Results

Operator: Devon Energy Production

Location: Tomcat 21 Fed 1 Battery

Sample Date: 29Sept15

CHLORIDES

	Surface	1' BGS	2' BGS	3' BGS															
SP #1	4880	13200	7760	6900															
SP #2	128	576	736	736															
SP #3	3040	576	240	5760															

Note: Results are represented as parts per million (ppm)

October 01, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 21 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/15 14:00.

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 accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

Hungry Horse Environmental
VERNON BLACK
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 09/29/2015
Reported: 10/01/2015
Project Name: TOMCAT 21 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY

Sampling Date: 09/29/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: SP #1 SURFACE (H502574-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #1 1' BGS (H502574-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #1 2' BGS (H502574-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #1 3' BGS (H502574-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6900	16.0	09/30/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Hungry Horse Environmental
VERNON BLACK
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 09/29/2015
Reported: 10/01/2015
Project Name: TOMCAT 21 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY

Sampling Date: 09/29/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: SP #2 SURFACE (H502574-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #2 1' BGS (H502574-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #2 2' BGS (H502574-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #2 3' BGS (H502574-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #3 SURFACE (H502574-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	09/30/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

 Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #3 1' BGS (H502574-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #3 2' BGS (H502574-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: SP #3 3' BGS (H502574-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	09/30/2015	ND	416	104	400	0.00	

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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

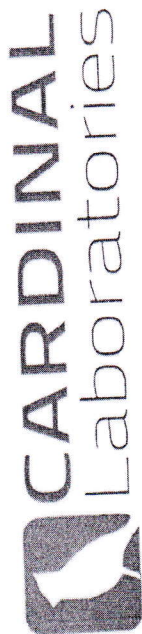
*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

by 182



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				ANALYSIS REQUEST													
P.O. #:																	
Company:																	
Attn:																	
Address:																	
City:																	
State:																	
Phone #:																	
Fax #:																	
Company Name:	Hungry Horse, LLC			State:	NM			Zip:	88241								
Project Manager:	Vernon K. Black			Fax #:	575-391-4585												
Address:	PO Box 1058																
City:	Hobbs																
Project #:	Tomcat 21 Better																
Project Name:	21 Better																
Project Location:	21 Better																
Sampler Name:	Vernon K. Black																

Lab I.D.	Sample I.D.	MATRIX				PRESERV.				SAMPLING	DATE	TIME	
		# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL				OTHER
H502574	SP #1	1			X							Sept 10/0	
	Surface												
	1' BG's												
	2' BG's												
	3' BG's												
	SP #2	6			X							Sept 11/0	
	Surface												
	1' BG's												
	2' BG's												
	3' BG's												

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Relinquished By:	Date: Sept 10	Time: 4:00	Received By:	Date: Sept 10	Time: 4:00
Relinquished By:			Received By:		
Delivered By: (Circle One)			Checked By:		
Sampler - UPS - Bus - Other:			Initials:		

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

