



H E West B Federal #85

CLOSURE REPORT

API No. 30-015-28387

Release Date: April 7th, 2015

Unit Letter K, Section 3, Township 17 South, Range 31 East

October 6, 2015

Prepared by:

Lance Crenshaw, Project Manager
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

HE West B #85

1 INTRODUCTION

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located northeast of Loco Hills, NM, in Lea County. The leak site resulted from a failure in a poly joint. The impacted area is in the pasture just before the location. A site map is attached (Appendix III). A C-141 was submitted to the NMOCD on April 8, 2015 (Appendix I).

2 SITE ACTIVITIES

On April 7, 2015, DFSI personnel responded to the location and placed a berm around the leak to contain the fluid. After the fluid was recovered, DFSI personnel scraped up the saturated soil in the pasture to approximately 4' BGS. The contaminated soil was hauled to an approved disposal. One composite sample of the spill area was taken. This sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All field samples that tested below state/BLM requirements were taken to Cardinal Labs of Hobbs to obtain confirmation sample. The results are attached. August 28, 2015, DFSI personnel responded to the location to attain measurements of the cement pit and take preliminary photos.

DFSI personnel returned to the location to re-contour the affected area where the spill/scrape occurred. Twenty percent of 1-acre of LPC seed mix was planted. The site was restored to its previous state.

3 CONCLUSION

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 250 foot below ground surface.

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

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

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.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Linn Operating Inc.	Contact E.L. Gonzales
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 575-738-1739
Facility Name H.E. West B #85	Facility Type Oil

Surface Owner Federal	Mineral Owner	API No. 30-015-28387
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LOCATION OF RELEASE

Unit Letter K	Section 03	Township 17S	Range 31E	Feet from the 2614	North/South Line South	Feet from the 2621	East/West Line West	County Eddy
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Latitude 32.86357 Longitude -103.85696

NATURE OF RELEASE

Type of Release Oil / Produced Water	Volume of Release 1 bbl / 2 bbl	Volume Recovered 0 / 0
Source of Release Polyline – Joint failure	Date and Hour of Occurrence 04/07/2015	Date and Hour of Discovery 04/07/2015 10:47am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.* Upon making the lease at the WB#85 noticed fluid in a puddle at flowline just before location on ground. After shutting well in and containing leak, notified Rick Rickman of spill.

Describe Area Affected and Cleanup Action Taken.* Area affected was 5ft x 4ft. After picking fluid off ground picked up 3 BBLs, Had a backhoe in area. Scraped up contaminated dirt up, put in dump truck hauled off replaced with clean dirt. Hauled off to and approved disposal, replaced with clean dirt.

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: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: E.L. Gonzales	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: elgonzales@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04/08/2015 Phone: 505-504-8002		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS

Linn Energy, HE West B #85



Initial spill photo



Initial spill photo



Photo after initial scrape



Photo after initial scrape



Completed location after contouring, seeding



Completed location after contouring, seeding

Appendix III

SITE MAP

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



April 14, 2015

RICK RICKMAN
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: H. E. WEST #85

Enclosed are the results of analyses for samples received by the laboratory on 04/08/15 11:10.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 RICK RICKMAN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	04/08/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	H. E. WEST #85	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ SURFACE (H500930-01)

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	04/10/2015	ND	2.04	102	2.00	1.34	
Toluene*	<0.050	0.050	04/10/2015	ND	1.85	92.7	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.85	92.4	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.90	98.3	6.00	2.17	
Total BTEX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/09/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	<10.0	10.0	04/09/2015	ND	209	104	200	7.52	

Surrogate: 1-Chlorooctane 88.2 % 47.2-157
Surrogate: 1-Chlorooctadecane 91.2 % 52.1-176

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



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

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

BILL TO

ANALYSIS REQUEST

Company Name: Linn Energy
 Project Manager: Mike Burson

P.O. #: _____
 Company: Linn Energy

Address: _____
 Attn: Rick Korman

Address: _____ State: _____ Zip: _____
 City: _____ Fax #: _____

Phone #: _____ Project Owner: _____
 Project #: _____

Project Name: _____
 Project Location: HE West 85

Project Location: HE West 85
 Sampler Name: SR1 @ surf

FOR LAB USE ONLY

Lab I.D. _____ Sample I.D. _____
H500930 SR1 @ surf

(G)RAB OR (C)OMP	<u>9</u>
# CONTAINERS	<u>1</u>
GROUNDWATER	
WASTEWATER	
SOIL	<u>X</u>
OIL	
SLUDGE	
OTHER	
ACID/BASE	
ICE / COOL	<u>X</u>
OTHER	

DATE	<u>4-7-15</u>
TIME	<u>4:15</u>

<u>CL</u>	<u>X</u>
<u>TPH</u>	<u>X</u>
<u>BTEX</u>	<u>X</u>

Relinquished By: [Signature]
 Date: 4-8-15
 Time: 11:18

Received By: [Signature]
 Date: _____
 Time: _____

Delivered By: (Circle One)
 UPS - Bus - Other: _____

Sample Condition
 Cool Intact
 Yes No Yes No

CHECKED BY: [Signature]
 (Initials)

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

Appendix V

SEED REPORT

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

DIVERSIFIED FIELD SERVICES, INC.

Project: He West BGS
 Seed and lbs used: 20% of 1-acre

Date Started: 5-22-15
 Date Completed: 6-1-15

Curtis and Curtis, Inc.
 4500 North Prince
 Clovis, NM 88130
 Phone: (575) 762-4789
 www.curtisseed.com

Mike Burton
 4 Acre LPC Mix
 4 - 1 Acre Bags @ 40.35 Bulk Pounds Each

Lot#: M-13029

Item	Origin	Purity	Germ	Dormant	Total Germination	Test Date	Total PLS Pounds
Plains Bristlegrass VNS	Oklahoma	12.91%	15.00%	81.00%	96.00%	03/15	20.00
Sideoats Grama Vaughn	Texas	16.10%	46.00%	31.00%	77.00%	11/14	20.00
Little Bluestem Blaze	Nebraska	15.66%	97.00%	0.00%	97.00%(TZ)	02/15	12.00
Big Bluestem Kaw	Missouri	15.18%	93.00%	5.00%	98.00%	10/14	24.00
Coreopsis Plains	Oregon	9.97%	83.00%	0.00%	83.00%(TZ)	11/14	8.00
Sand Dropseed VNS	Colorado	2.61%	21.00%	74.00%	95.00%	01/15	4.00
Four Wing Saltbush VNS	New Mexico	21.01%	37.00%	22.00%	59.00%	03/15	20.00
Other Crop:	0.36%						
Weed Seed:	0.30%						
Inert Matter:	17.90%						
These are 4 Bags For This Mix This Bag Weighs 40.35 Bulk Pounds Use This Bag For 1 Acres							Total Bulk Pounds: 161

Supervisor: *[Signature]*

Appendix VI

FINAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
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Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: E.L. Gonzales	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: elgonzales@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/07/2015 Phone: 505-504-8002		

* Attach Additional Sheets If Necessary