H E West B Federal #33

CLOSURE REPORT

API No. 30-015-25944

Release Date: February 12th, 2015

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

March 26, 2015

Prepared by:

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

Table of Contents

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

HE West B Federal #033

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 Eddy County. The leak site resulted from a truck hitting the well and breaking off a tubing valve. The impacted area is the caliche pad and south into the pasture. A site map is attached. A C-141 (Appendix I) was submitted to the NMOCD on February 17, 2015.

2 SITE ACTIVITIES

On February 17, 2015 DFSI personnel responded to the location and placed a berm around the well to contain the fluid. DFSI personnel scraped up the saturated soil in the pasture and on the caliche pad. Four soil samples of the spill area were taken. Each sample was tested for chloride levels as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All field samples that field tested below state/BLM requirements were taken to Cardinal Lab of Hobbs to obtain confirmation samples. The results are attached (Appendix IV).

On March 19, 2015, DFSI personnel returned to the site to start excavation. The impacted caliche pad was removed at 6" below ground surface.

On March 20, 2015, the impacted soil in the pasture was excavated to 3'bgs. DFSI personnel returned to the site on March 23, 2015 to backfill the excavated area on the pad with fresh caliche. DFSI used the surrounding terrain for backfill in the pasture area, and the site was completed on March 25, 2015. Photographs are attached (Appendix II). All contaminated soil was hauled to a BLM/NMOCD approved facility.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than 250'bgs indicating no potential threat to groundwater or life forms.

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

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 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 # 33	Facility Type Injection

Surface Owner Federal	Mineral Owner	API No. 30-015-25944

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	03	17S	31E	1980	South	660	West	Eddy

Latitude 32.86183 **Longitude** -103.86335

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 70 bbls	Volume Recovered 60 bbls
Source of Release Well head	Date and Hour of Occurrence 02/12/2015	Date and Hour of Discovery 02/12/2015 0600
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* drilling rig near the West B 33 called LINN to report a leak-Bobby Sooter was contacted and he responded along with Eddie Jaramillo and Rick Rickman. It appeared that the well had been hit by a truck as dual wheel marks were at the well head. The damage results were the tubing valve and tubing below being broken off at the top of the well head and fluid was back flowing on to location

Describe Area Affected and Cleanup Action Taken.* estimated 40 bbls. Of fluid picked up in adjacent pasture and estimate of 30 bbls from location, equipment near location was used to dike well pad and contain fluid along with a vacuum truck tied to the well head. Delineation to be done contact made with Apache drilling company man Chris Johnson 806-787-9911 requesting his help to identify the company that may have hit the well

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:	OIL CONSERVATION DIVISION	
Printed Name: E.L. Gonzales	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: elgonzales@linnenergy.com	Conditions of Approval:	Attached ☐
Date: 02/17/2015 Phone: 505-504-8002		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS

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

Linn Energy, HE West B Federal #033

Unit Letter L, Section 03, T17S R31E

Sign marking location

Spill area around wellhead, pasture area

Excavating pad area

Excavating area around injection well on pad

Excavated pad area

Excavating pasture area

Backfilling pad with fresh caliche

Contoured and blended pasture area

Backfilled pad area, closure pic

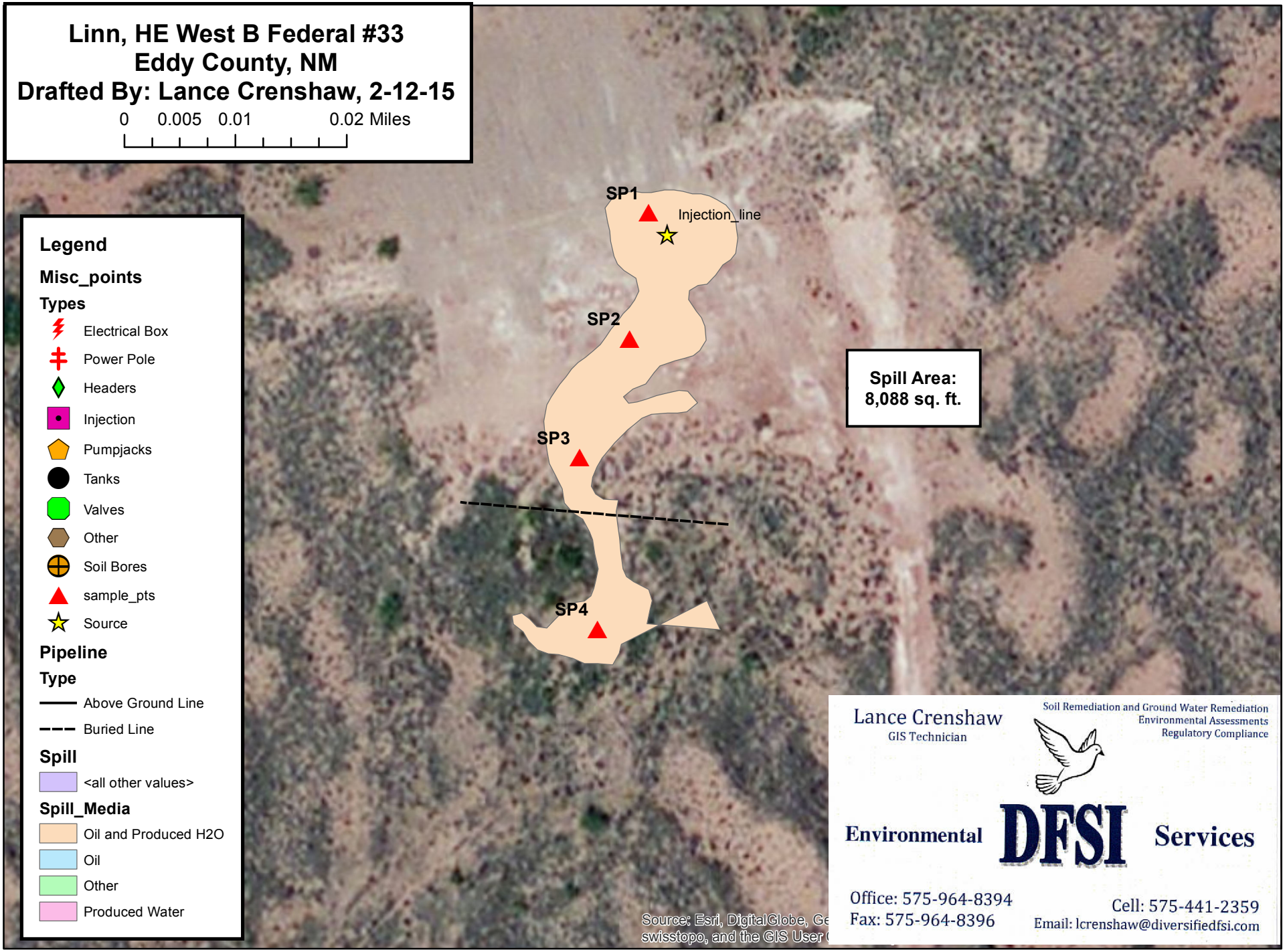
Backfilled and contoured pasture area, closure pic

Appendix III

SITE MAP

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

Site Diagram



Appendix IV

LABORATORY ANALYSES

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 20, 2015

RICK RICKMAN

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: H. E. WEST B #33

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 14:20.

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 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.

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	02/13/2015	Sampling Date:	02/13/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H500437-01)

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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTEX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *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	**448**	16.0	02/17/2015	ND	416	104	400	3.92	

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane *94.2 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *91.0 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	02/13/2015	Sampling Date:	02/13/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 9' (H500437-02)

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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTEX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**528**	16.0	02/17/2015	ND	416	104	400	3.92	

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane *96.5 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *89.8 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	02/13/2015	Sampling Date:	02/13/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE AFTER SCRAPE (H500437-03)

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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTEX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**256**	16.0	02/17/2015	ND	416	104	400	3.92	

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane *96.8 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *97.4 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	02/13/2015	Sampling Date:	02/13/2015
Reported:	02/20/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H500437-04)

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	02/20/2015	ND	1.76	87.9	2.00	14.0	
Toluene*	<0.050	0.050	02/20/2015	ND	1.77	88.3	2.00	14.6	
Ethylbenzene*	<0.050	0.050	02/20/2015	ND	1.77	88.6	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/20/2015	ND	5.20	86.7	6.00	14.8	
Total BTEX	<0.300	0.300	02/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *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	**128**	16.0	02/17/2015	ND	416	104	400	3.92	

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	02/18/2015	ND	208	104	200	0.438	
DRO >C10-C28	<10.0	10.0	02/18/2015	ND	196	98.0	200	0.534	

Surrogate: 1-Chlorooctane *96.7 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *92.5 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Linn Energy
Project Manager: Mike Burton
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name:
Project Location: HE West B #33
Sampler Name: Talon Lowe

BILL TO
P.O. #:
Company: Linn Energy
Attn: Rick Rickman
Address:
City:
State: Zip:
Phone #:
Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: CL	TPH	BTEX
H500437-1	SP. 1 @ 3'	G	1			X					X		2-13-15	9:00	X	X	X
2	SP. 2 @ 9'	G	1			X					X		2-13-15	9:43	X	X	X
3	SP. 3 @ SURF AFTER SCRAPE	G	1			X					X		2-13-15	9:58	X	X	X
4	SP. 4 @ 3'	G	1			X					X		2-13-15	10:15	X	X	X

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Talon Lowe — Date: 2/13/14 — Time: 2:20
Received By: Jodi Henson
Relinquished By: — Date: — Time:
Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.4°C
Sample Condition: Cool: Yes / No — Intact: Yes / No
CHECKED BY: (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 (575) 393-2326

#500437

Appendix V

FINAL 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
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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 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 # 33	Facility Type Injection

Surface Owner Federal	Mineral Owner	API No. 30-015-25944

LOCATION OF RELEASE

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Latitude 32.86183 **Longitude** -103.86335

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 70 bbls	Volume Recovered 60 bbls
Source of Release Well head	Date and Hour of Occurrence 02/12/2015	Date and Hour of Discovery 02/12/2015 0600
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* drilling rig near the West B 33 called LINN to report a leak-Bobby Sooter was contacted and he responded along with Eddie Jaramillo and Rick Rickman. It appeared that the well had been hit by a truck as dual wheel marks were at the well head. The damage results were the tubing valve and tubing below being broken off at the top of the well head and fluid was back flowing on to location

Describe Area Affected and Cleanup Action Taken.* estimated 40 bbls. Of fluid picked up in adjacent pasture and estimate of 30 bbls from location, equipment near location was used to dike well pad and contain fluid along with a vacuum truck tied to the well head.

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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:	OIL CONSERVATION DIVISION	
Printed Name: E.L. Gonzales	Approved by Environmental Specialist:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: elgonzales@linnenergy.com	Conditions of Approval:	Attached ☐
Date: 03/26/2015 Phone: 505-504-8002		

* Attach Additional Sheets If Necessary