



H E West B #40

REMEDIATION WORK PLAN

API No. 30-015-26024

Release Date: July 19th, 2014

Unit Letter D, Section 10, Township 17 South, Range 31 East

May 21st, 2015

Prepared by:

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

Mike Bratcher
Environmental Specialist
NM Oil Conservation District-Division 2
811 S. First St.
Artesia, NM 88210

RE: Linn Energy H E West B #40 – Remediation Work Plan
UL/D, Section 10, T17S, R31E
API No. 30-015-26024

Mr. Bratcher,

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 leak at the tin horn from the truck line. The impacted area is the caliche lease road and north into the pasture. Approximately 22 bbl of produced water was released. Approximately 15 bbls were recovered. On August 18th, 2014 another release occurred from the fiberglass under the tin horns. Approximately 9 bbls of produced water was released and 4 bbls recovered. A site map is attached. A C-141 was submitted to the NMOCD on July 21st, 2014 for the first release. A C-141 was submitted to the NMOCD on August 19th, 2014 for the second release. Both C-141's are attached.

Site Assessment and Delineation

On May 18th, 2015 DFSI personnel sampled the spill area around the tin horns in three sample points. The samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The field samples that field tested below state/BLM requirements were taken to Cardinal Lab of Hobbs to obtain confirmation sample. The results are attached.

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 350 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI, on behalf of Linn Energy, would like to propose the following:

Because the surface sample came back clean we propose to re seed the affected area with a BLM, OCD approved seed mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

cc Jeff Robertson

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Lab Analytical Data



H E West B #40

PHOTO PAGE

5/18/2015



Site Diagram

Linn, H.E. West B #40
UL/D, Sec. 10 T17S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 5-19-15

0 0.00375 0.0075 0.015 Miles

Legend



Misc_points

Types


-  Electrical Box
-  Power Pole
-  Headers
-  Injection
-  Pumpjacks
-  Tanks
-  Valves
-  Other
-  Soil Bores
-  sample_pts
-  Source

Pipeline





Type

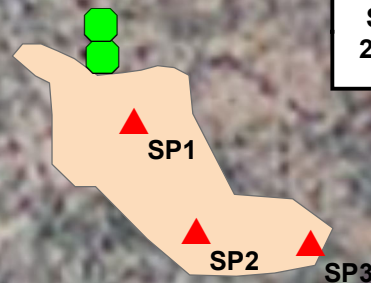
-  Above Ground Line
-  Buried Line

Spill

-  <all other values>

Spill_Media

-  Oil and Produced H2O
-  Oil
-  Other
-  Produced Water



Spill Area:
2,030 sq. ft.

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394

Fax: 575-964-8396

Cell: 575-441-2359

Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, IGN, swisstopo, and the GIS User Community

Diversified Environmental Services

Company Name:	<u>LINN ENERGY</u>
Location Name:	<u>H.E. WEST B #40</u>

SP Date: 5/18/2015
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



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

No records found.

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 10

Township: 17S

Range: 31E

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.



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

May 21, 2015

MIKE BURTON

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: H. E. WEST B # 40

Enclosed are the results of analyses for samples received by the laboratory on 05/18/15 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:

LINN ENERGY
 MIKE BURTON
 RR1, BOX 24 B
 KINGFISHER OK, 73750
 Fax To: (405) 375-6693

Received: 05/18/2015
 Reported: 05/21/2015
 Project Name: H. E. WEST B # 40
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/18/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 1 @ SURF (H501261-01)

BTX 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	05/20/2015	ND	1.77	88.3	2.00	0.512	
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771	
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34	
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885	
Total BTX	<0.300	0.300	05/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/20/2015	ND	400	100	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 93.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN ENERGY
 MIKE BURTON
 RR1, BOX 24 B
 KINGFISHER OK, 73750
 Fax To: (405) 375-6693

Received: 05/18/2015
 Reported: 05/21/2015
 Project Name: H. E. WEST B # 40
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/18/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ SURF (H501261-02)

BTX 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	05/20/2015	ND	1.77	88.3	2.00	0.512	
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771	
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34	
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885	
Total BTX	<0.300	0.300	05/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500CI-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	05/20/2015	ND	400	100	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	05/19/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	450	10.0	05/19/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 90.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN ENERGY
 MIKE BURTON
 RR1, BOX 24 B
 KINGFISHER OK, 73750
 Fax To: (405) 375-6693

Received: 05/18/2015
 Reported: 05/21/2015
 Project Name: H. E. WEST B # 40
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/18/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 @ SURF (H501261-03)

BTX 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	05/20/2015	ND	1.77	88.3	2.00	0.512	
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771	
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34	
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885	
Total BTX	<0.300	0.300	05/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/20/2015	ND	400	100	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	05/19/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	1450	10.0	05/19/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 92.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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*=Accredited Analyte

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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

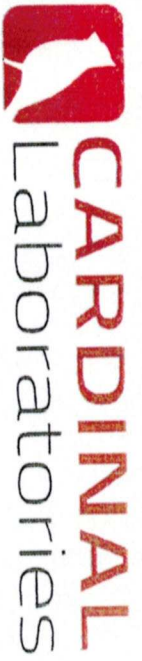
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Limn Energy		P.O. #:		BILL TO										ANALYSIS REQUEST																									
Project Manager: Mike Burton		Company: Limn Energy																																					
Address:		Attn: Rick Rickman																																					
City:		Address:																																					
State:		City:																																					
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Phone #:		Phone #:																																					
Fax #:		Fax #:																																					
Project #:		Project Owner:																																					
Project Name:		Project Location: H.E. West 13 #40																																					
Sample Name: Green Long		Fax #:																																					
FOR LAB USE ONLY		Matrix		PRESERV		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME											
HS012001		SP.1 @ SURF		3		1		X		X		X		X		X		X		X		X		X		5-18-15 11:01		CL											
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3		SP.3 @ SURF		3		1		X		X		X		X		X		X		X		X		X		5-18-15 11:17		B-Tex											
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		Sample Condition		Cool		Intact		Checked By: (Initials)																													
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

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	Contact: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739	
Facility Name: H.E. West B #40	Facility Type: Injection	
Surface Owner: Federal	Mineral Owner:	API No.: 30-015-26024

LOCATION OF RELEASE

Unit Letter D	Section 10	Township 17S	Range 31E	Feet from the 560	North/South Line North	Feet from the 660	East/West Line West	County Eddy
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Latitude: 32.8547837573781 Longitude: -103.864060735174

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 22 bbls	Volume Recovered: 15 bbls
Source of Release: fiberglass pipeline	Date and Hour of Occurrence: 07/19/2014	Date and Hour of Discovery: 07/19/2014 2:45pm
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 / Mike Bratcher-NMOCD	
By Whom? Brian Wall	Date and Hour 07/21/2014 0900	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

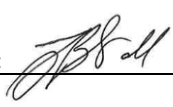
If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: At 2:45P.M. Was notified by Mario Hernandez, That line 1 was down on low pressure. Went looking for leak on trunk line, upon driving on west B #40 looking east of location at 3:P.M. found water coming out of north tinhorn. At 3:15 P.M. called for a truck to pickup water. Notified Rick Rickman at 3:30 P.M. of leak.

Describe Area Affected and Cleanup Action Taken.* : Area of water on ground was 22feet long X 21 feet wide by 2in deep. (pictures make the spill looking bigger than area actually was to due rain in area.) At 4:30 P.M. truck on location, went to emptying tinhorn to see if leak was on lateral line or on trunk line. After emptying tinhorn, determined that leak was on lateral line. was able to isolate lateral, to get field back going. Picked up about 7 barrells of water off of ground. Will have to do one call before line can be repaired.

Directions to site: From Loco Hills N.M. go east on Hwy 82 3.5 miles, turn left on CR221 go 1.4 miles to dirt road on right, turn right go .5 mile, turn right go .6 mile turn left, go .5 mile turn right, go 2.0 miles to West B#40 spill is 25 yds east of location in pasture, at the tinhorns.

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: Brian Wall	Approved by District Supervisor:		
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: bwall@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>

Date: 07/21/2014	Phone: 806-367-0645	
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* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating	Contact: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739	
Facility Name: H.E. West B # 40	Facility Type: Injection	
Surface Owner: Federal	Mineral Owner:	API No.: 30-015-26024

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	17S	31E	560	North	660	West	Eddy

Latitude: 32.8547837573781 Longitude: -103.864060735174

NATURE OF RELEASE


Type of Release: Produced Water	Volume of Release: 9	Volume Recovered: 4
Source of Release: 2" Fiber glass pipeline	Date and Hour of Occurrence: 08/18/2014	Date and Hour of Discovery: 08/18/2014 10:30am
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 / Mike Bratcher- NM OCD	
By Whom? Brian Wall	Date and Hour 08/19/2014 0930 (written)	
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.*: Matt Vella reported to me of a leak on header line 1 & 2 at Keel West injection station at 7:00 am. Started looking for leak on line. Found leak just east of West B. #40. at the tin horns on east side of road. Called Benco for to empty tin horn & find leak. Found the 2 in fiberglass line in the south tin horn had blown into.. Had to leave lines 1 & 2 shut in due to leak on trunk line. Shut all laterals in on trunk line. Waiting on one call to clear for repairs.

Describe Area Affected and Cleanup Action Taken.* : Area covered was 33 feet long, 16 feet long. Covering the area of a previous leak, that is on agenda to be cleaned up.

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: Brian Wall	Approved by District Supervisor:		
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: bwall@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 08/18/2014	Phone: 806-367-0645		

* Attach Additional Sheets If Necessary