



H E West B #92

REMEDIATION WORK PLAN

API No. 30-015-28535

Release Date: May 11th, 2015

Unit Letter J, Section 9, Township 17 South, Range 31 East

May 19, 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 #92 – Remediation Work Plan
UL/J, Section 09, T17S, R31E
API No. 30-015-28538

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 truck hitting the flow line. The impacted area is the caliche lease road and south into the pasture. Approx. 1 bbl of produced water and 1 bbl of oil were released. One bbl of produced water and oil was recovered. A site map is attached. A C-141 was submitted to the NMOCD on May 12th, 2015.

Site Assessment and Delineation

On May 11th, 2015 DFSI personnel responded to the release point on the lease road. DFSI personnel scraped up the contamination in the lease road. We took two samples of the spill area. Each 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 field tested below state/BLM requirements were taken to Cardinal Lab of Hobbs to obtain confirmation samples. 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:

The impacted road has been scraped and fixed. Remove the pasture impacted soil down to 4' bgs. All contaminated soil will be hauled to a NM state approved disposal facility. DFSI proposes to use the surrounding terrain for backfill and contour; then seed 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 #92

PHOTO PAGE

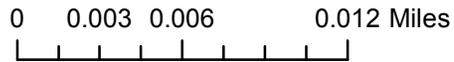
5/11/2015





Site Diagram

Linn, H.E. West B #92
UL/J, Sec. 09 T17S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 5-12-15



Legend

Misc_points

Types

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

Pipeline

Type

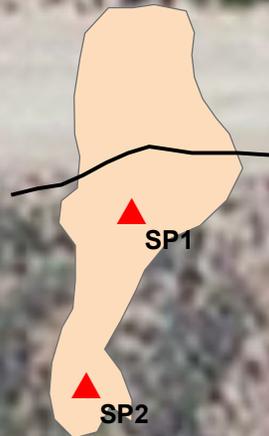
-  Above Ground Line
-  Buried Line

Spill

-  <all other values>

Spill_Media

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



Spill Area:
1,603 sq. ft.

Lance Crenshaw
 GIS Technician

Soil Remediation and Ground Water Remediation
 Environmental Assessments
 Regulatory Compliance



Environmental **DFSI** Services

Office: 575-964-8394
 Fax: 575-964-8396

Cell: 575-441-2359
 Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-cube, swisstopo, and the GIS User Community



May 18, 2015

DENNIS POTTER
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: H. E. WEST B #92

Enclosed are the results of analyses for samples received by the laboratory on 05/13/15 8:20.

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 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". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/18/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #92	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H501225-01)

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	05/13/2015	ND	1.86	93.0	2.00	2.85	
Toluene*	<0.050	0.050	05/13/2015	ND	1.99	99.3	2.00	1.31	
Ethylbenzene*	<0.050	0.050	05/13/2015	ND	1.89	94.3	2.00	3.15	
Total Xylenes*	<0.150	0.150	05/13/2015	ND	5.57	92.8	6.00	3.15	
Total BTEX	<0.300	0.300	05/13/2015	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	05/13/2015	ND	416	104	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	05/13/2015	ND	174	87.2	200	0.453	
DRO >C10-C28	<10.0	10.0	05/13/2015	ND	200	99.9	200	0.790	

Surrogate: 1-Chlorooctane 100 % 47.2-157
Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/18/2015	Sampling Type:	Soil
Project Name:	H. E. WEST B #92	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H501225-02)

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	05/13/2015	ND	1.86	93.0	2.00	2.85	
Toluene*	<0.050	0.050	05/13/2015	ND	1.99	99.3	2.00	1.31	
Ethylbenzene*	<0.050	0.050	05/13/2015	ND	1.89	94.3	2.00	3.15	
Total Xylenes*	<0.150	0.150	05/13/2015	ND	5.57	92.8	6.00	3.15	
Total BTEX	<0.300	0.300	05/13/2015	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	05/13/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
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GRO C6-C10	<10.0	10.0	05/13/2015	ND	174	87.2	200	0.453	
DRO >C10-C28	<10.0	10.0	05/13/2015	ND	200	99.9	200	0.790	

Surrogate: 1-Chlorooctane 95.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 110 % 52.1-176

Cardinal Laboratories

* = 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



Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



BILL TO

ANALYSIS REQUEST

P.O. # ~~18229~~ 18229

Company: DFST

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Company Name: Linn Energy
 Project Manager:

Address:
 City: State: Zip:

Phone #: Fax #:
 Project #: Project Owner:

Project Name:
 Project Location: HE West B 92
 Sampler Name: Yaron Lova

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	CL	TPH	B-tex
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H501235	SR1041	9	11			X				X		5-12-15	9:30	X		
	SR2061	9	11			X				X		5-12-15	11:15	X		

PLEASE NOTE: Liability and Damages: Cardinal's liability and third'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 business or otherwise.

Relinquished By: Yaron Lova
 Date: 8:55
 Title: Lab Tech
 Received By: Debi Jensen
 Date: 5-12-15

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

REMARKS:
mburten@diversifiedtsi.com

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.80

CHECKED BY: DFST
 (Initials)

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 # 92	Facility Type Oil Producer

Surface Owner Federal	Mineral Owner	API No. 30-015-28538
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LOCATION OF RELEASE

Unit Letter J	Section 09	Township 17S	Range 31E	Feet from the 1350	North/South Line South	Feet from the 1440	East/West Line East	County Eddy
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Latitude 32.8456 Longitude, -103.87019

NATURE OF RELEASE

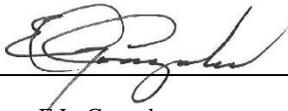
Type of Release Oil / Produce Water	Volume of Release 1 bbl / 1 bbl	Volume Recovered 1 bbl / 1 bbl
Source of Release Poly Pipeline	Date and Hour of Occurrence 05/11/2015	Date and Hour of Discovery 05/11/2015 2:30pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <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.* Mario Garcia (432)202-4333 with M&G rental tools was avoiding driving through mud puddle in road and drove off road and over flow lines. Flow line on WB#92 was damaged releasing fluid on the road into a puddle of fresh water, adjacent shrubbery, and a small amount into the pasture. Total fluid released was approximately 2 bbl total fluid. Mario Garcia called in Double R trucking to pick up liquids and will accept full liability and cost for the spill. Manuel with BTS (575) 942-8307 repaired the line.

Describe Area Affected and Cleanup Action Taken.* Puddle was approx 30ft x 20ft, area affected in pasture was to the south approx. 2ft x 30ft. Michael Burton with DFSI (575)942-4115 will handle further assessment.

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@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05/12/2015	Phone: 505-504-8002	

* Attach Additional Sheets If Necessary