

Remediation Summary Report Form

General Information

This section provides general information about the operator and the site where the spill occurred.

Date: October 17, 2012

Client: LINN Energy

Site Name: H E West B Federal 43

County: Eddy

State: NM

Site Coordinates Latitude: 32° 50' 37.6"
Longitude: 103° 52' 51.5"

Property Owner: BLM

State Report No.: 2RP-945

Release Description and Assessment

The information below is related to the spill (Date, Type, Cause and Quantity) and the area impacted.

Date of Spill: 10/27/11

Type of Spill: Oil Produced Water Condensate Other (Specify):

Cause of Spill: Equipment Failure Valve Failure Line Rupture Leaking Tank Tank Overfill
 Other (List):

Other Contributing Factors or Comments:

Quantity Spilled: 5 bbls. Quantity Recovered: 1 bbls. Total Released: 4 bbls.

Method of Recovery: Vacuum Truck Other (Specify):

OCD Notified: Yes No C-141 Completed and Submitted: Yes No

Spill Area Impacted: Inside Firewall On Production Pad In Pasture In Cultivated Land
 Other (List):

Total Square Footage Impacted: 2000 Estimated Depth: 1-5' Volume (Cu. Yds): 75

Other Comments:

Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area.

Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the production pad and the pasture areas were backfilled with like materials and smoothed to grade, then the pasture area was seeded with a BLM mix #2 & #4. Water bars were installed to prevent wind and water erosion.

Analytical Summary

Results of analyses following remediation activities are as follows:

Summary of Remediation Sampling Analytical Results Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides [Chl (mg/kg)]						
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	Total TPH	Chl
SP1 North Wall	3	12/30/11				288
SP1 Bottom	3	12/30/11				608
SP2 Bottom	3	12/30/11				<16.0
SP3 East Bottom	3	12/30/11				<16.0
SP3 EW Wall	3	12/30/11				<16.0
SP4 East Wall	3	12/30/11				656
SP4 Bottom	3	12/30/11				240
SP5 West Wall	3	12/30/11				32
SP5 Bottom	3	12/30/11				384
SP6 East Wall	2	12/30/11				<16.0
SP6 Bottom	2	12/30/11				<16.0
SP7 Bottom	2	12/30/11				<16.0
SP7 West Wall	2	12/30/11				<16.0
SP8 East Wall	1	12/30/11				<16.0
SP8 Bottom	1	12/30/11				<16.0
SP9 Bottom	1	12/30/11				<16.0

* ND = Non-Detect; concentration below mg/kg.

A review of the analytical data indicated the sample is within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that remediation of the site is complete. Copies of analytical reports, seed tickets, photographs, BLM closure and final C-141 are attached.

Prepared by:



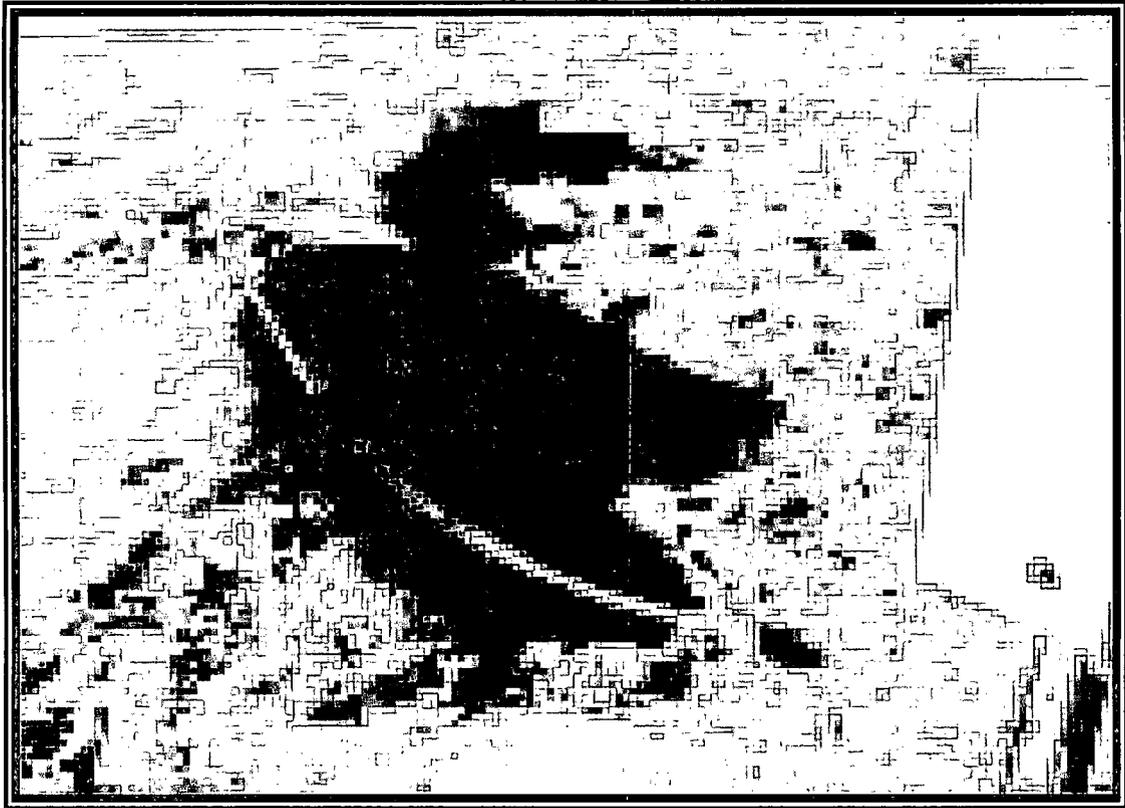
Kit Prichard
Etech Environmental & Safety Solutions, Inc.



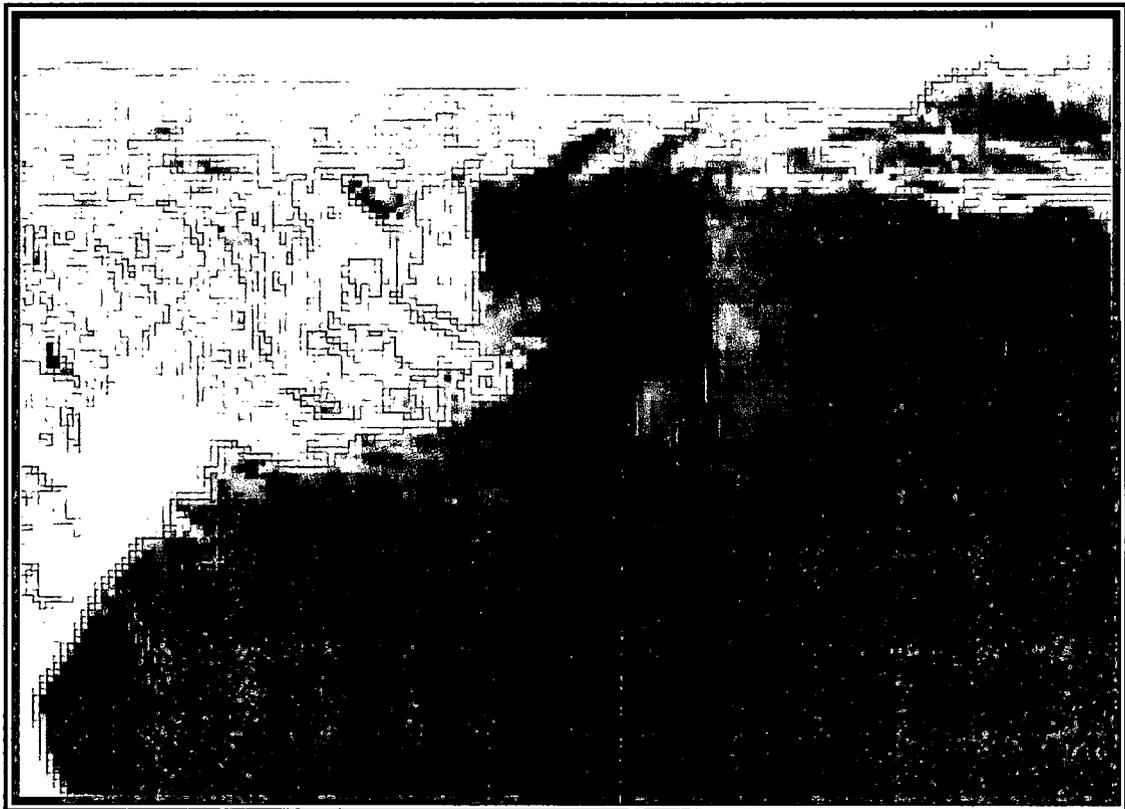
View of spill area on the production pad before excavation.



View of spill area in the pasture before excavation.



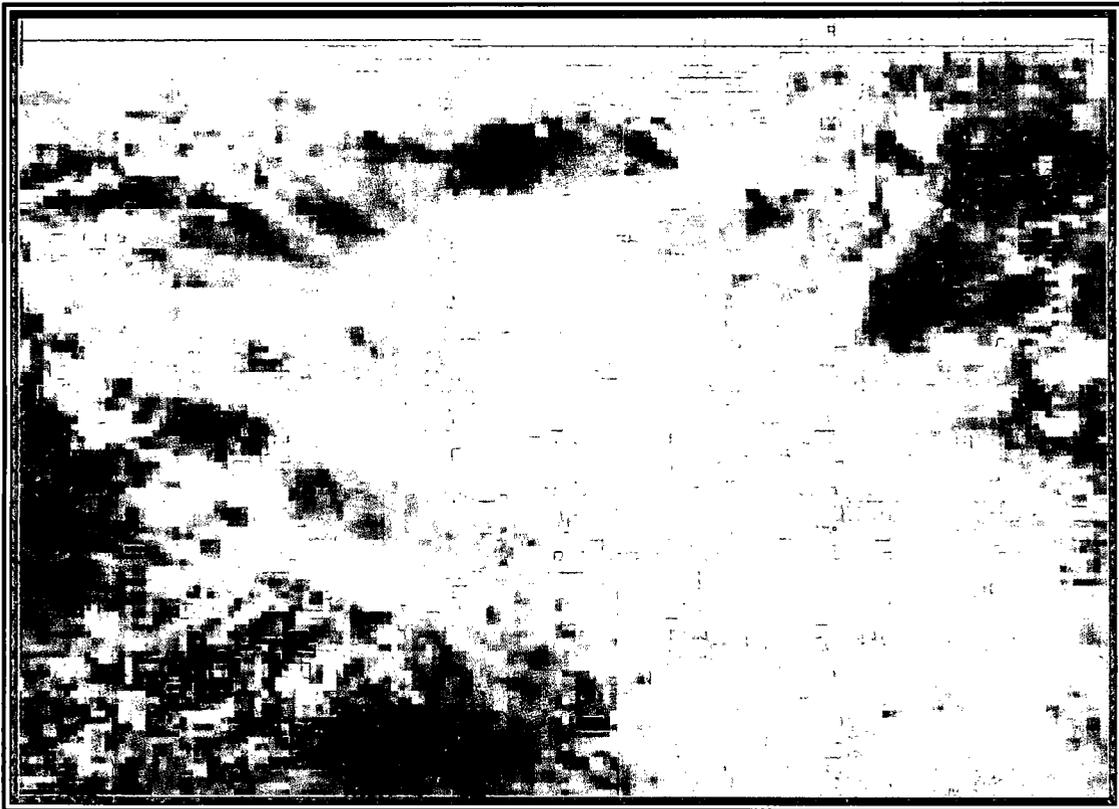
View of the spill area on the production pad during excavation.



View of the spill area in the pasture during the excavation.



View of the spill area on the production pad after backfill.



View of the spill area in the pasture after the backfill during the seeding process.

January 03, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: H. E. WEST B FED #43

Enclosed are the results of analyses for samples received by the laboratory on 12/30/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

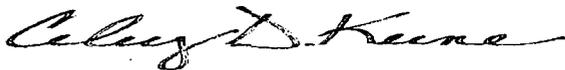
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

 ETECH Environmental & Safety Solutions, Inc.
 FRED HOLMES
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	12/30/2011	Sampling Date:	12/30/2011
Reported:	01/03/2012	Sampling Type:	Soil
Project Name:	H. E. WEST B FED #43	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 N WALL 3' (H102801-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/03/2012	ND	416	104	400	0.00		

Sample ID: SP 1 BOTTOM 3' (H102801-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/03/2012	ND	416	104	400	0.00		

Sample ID: SP 2 BOTTOM 3' (H102801-03)

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	01/03/2012	ND	416	104	400	0.00		

Sample ID: SP 3 E BOTTOM 3' (H102801-04)

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	01/03/2012	ND	416	104	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

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 FRED HOLMES
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	12/30/2011	Sampling Date:	12/30/2011
Reported:	01/03/2012	Sampling Type:	Soil
Project Name:	H. E. WEST B FED #43	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 E W WALL 3' (H102801-05)

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	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 4 E WALL 3' (H102801-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 4 BOTTOM 3' (H102801-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 5 W WALL 3' (H102801-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/03/2012	ND	432	108	400	0.00		

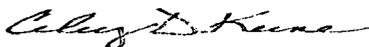
Sample ID: SP 5 BOTTOM 3' (H102801-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/03/2012	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

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 FRED HOLMES
 P. O. BOX 8469
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 Fax To: (432) 563-2213

Received:	12/30/2011	Sampling Date:	12/30/2011
Reported:	01/03/2012	Sampling Type:	Soil
Project Name:	H. E. WEST B FED #43	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 6 E WALL 2' (H102801-10)

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	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 6 BOTTOM 2' (H102801-11)

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	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 7 BOTTOM 2' (H102801-12)

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	01/03/2012	ND	432	108	400	0.00		

Sample ID: SP 7 W WALL 2' (H102801-13)

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	01/03/2012	ND	432	108	400	0.00		

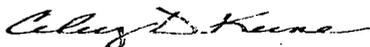
Sample ID: SP 8 E WALL 1' (H102801-14)

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	01/03/2012	ND	432	108	400	0.00		

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* = Accredited Analyte

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 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	12/30/2011	Sampling Date:	12/30/2011
Reported:	01/03/2012	Sampling Type:	Soil
Project Name:	H. E. WEST B FED #43	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 8 BOTTOM 1' (H102801-15)

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	01/03/2012	ND	432	108	400	0.00	

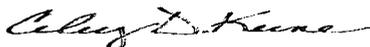
Sample ID: SP 9 BOTTOM 1' (H102801-16)

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	01/03/2012	ND	432	108	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

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*=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: Etech		BILL TO		ANALYSIS REQUEST																									
Project Manager: Fred Holmes		P.O. #:		Chondra																									
Address:		Company:																											
City:	State:	Zip:	Attn:																										
Phone #:	Fax #:	Address:																											
Project #:	Project Owner:		City:																										
Project Name: H.E. West B Fed #43			State:											Zip:															
Project Location: Loca Hills			Phone #:																										
Sampler Name: Stephen McQueen			Fax #:																										
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(GRAB OR C/JOMP) # CONTAINERS	MATRIX											PRESERV.			SAMPLING												
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME																
H102601																													
1	SP 1 N wall 3'													12-30	2:30														
2	SP 1 Bottom 3'																												
3	SP 2 Bottom 3'																												
4	SP 3 E Bottom 3'																												
5	SP 3 E wall 3'																												
6	SP 4 E wall 3'																												
7	SP 4 Bottom 3'																												
8	SP 5 w wall 3'																												
9	SP 5 Bottom 3'																												
10	SP 6 E wall 2'																												

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Relinquished By: Stephen McQueen	Date: 12-30-11	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 9:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) JTB		

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

#26

Etech Env.

Project NE West B Fed 43

Project No. 253-3113-000

Date Started 6-11-12

Date Finished 6-20-11

Bamert Seed Company

1897 CR 1018 Muleshoe, TX 79347
806-272-5506 Texas Permit# 00905

BLM #2 MIX		16 BAGS	43152		
Description	Pure Seed	Germ	Dormant	Origin	
VNS PLAINS BRISTLEGRASS (<i>Setaria vulpeta</i>)	49.36%	4.00%	84.00%	TX	
BEND SAND LOVEGRASS (<i>Eragrostis trichodes</i>)	24.97%	89.00%	0.00%	TX	
SAND DROPSIDE VNS (<i>Sporobolus cryptandrus</i>)	24.63%	5.00%	88.00%		
Purity: 98.96%	Inert Matter: 0.65%	Other Crop Seed: 0.37%	Weed Seed: 0.02%		

Noxious Weeds: None

Test Date: 02-2012

Net Wt: 25#

BLM #4	Kind:	% Germ
% Pure Seed		
74.40%	4 Wing Saltbush	67%
7.63%	Alkali Sacaton	89%

Test Date: 3/12
Purity: 82.04%
Inert: 17.92%
Other Crop: 0.01%
Weed: 0.03%
Noxious: None

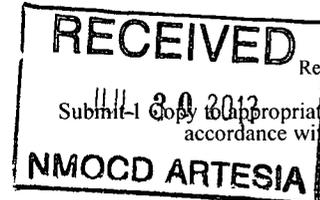
REICHARDSON SEEDS, LTD.
VIGA, TX 7902

Supervisor

Stephen McLean

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
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 Energy	Contact: Joe Hernandez
Address: 2130 W Bender Blvd. - Hobbs, NM	Telephone No.: 575-942-8675
Facility Name: HE West B Fed 43	Facility Type: Water Flood

Surface Owner: BLM	Mineral Owner: BLM	API No.: 3001526049
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LOCATION OF RELEASE

Unit Letter M	Section 9	Township 17S	Range 31E	Feet from the 660	North/South Line S	Feet from the 760	East/West Line W	County Eddy
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Latitude: 32 50' 37.6" Longitude: -103 52' 51.5"

NATURE OF RELEASE

Type of Release: Produced water & oil	Volume of Release: 1/4	Volume Recovered: 0/1
Source of Release: Flowline	Date and Hour of Occurrence: 10/27/2011 - 0830	Date and Hour of Discovery: 10/27/2011 - 0900
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD	
By Whom? Joe Hernandez	Date and Hour: 10/27/2011 - 1330	
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.*: 2" poly line failure. Shut in the well, repaired the line.

Describe Area Affected and Cleanup Action Taken.* : Approx. 360' long x 15' wide trail into pasture. Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area. Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the production pad and the pasture areas were backfilled with like materials and smoothed to grade, then the pasture area was seeded with a BLM mix #2 & #4. Water bars were installed to prevent wind and water erosion.

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: Jose Hernandez	Approved by District Supervisor:	
Title: Foreman	Approval Date:	Expiration Date:
E-mail Address: jhernandez@linneenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/17/2012 Phone: 575-738-1739		

* Attach Additional Sheets If Necessary