

HUNGRY HORSE, LLC  
ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

**LINN ENERGY**

**CLOSURE SUMMARY**

**WEST A BATTERY**

**EDDY COUNTY, NEW MEXICO**

**UL/H SEC.4 T17S R31E**

**N.32.86758**

**/**

**W.-103.87121**

**EDDY COUNTY**

**START DATE: 3-3-2013**

**FINISH DATE: 4-28-2013**

**PREPARED BY: Oscar Frayre**

**ENVIRONMENTAL TECHNICIAN**

**HUNGRY HORSE ENVIRONMENTAL, LLC**

**P.O BOX 1058 HOBBS, NM 88241**

**(575) 393-3386**

**P.O. Box 1058 \* Hobbs New Mexico \* Office 575-393-3386 \* Fax 575-391-4585**

**RECEIVED**  
MAY 23 2013  
NMOCD ARTESIA

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## **1.0 Introduction**

**This report addresses the remediation of an accidental discharge of the tank battery at Linn Energy's West A Battery. Analytical results, an overhead map, and a sketch are included on this document as attachments. The project manager for Hungry Horse Environmental Services was Oscar Frayre.**

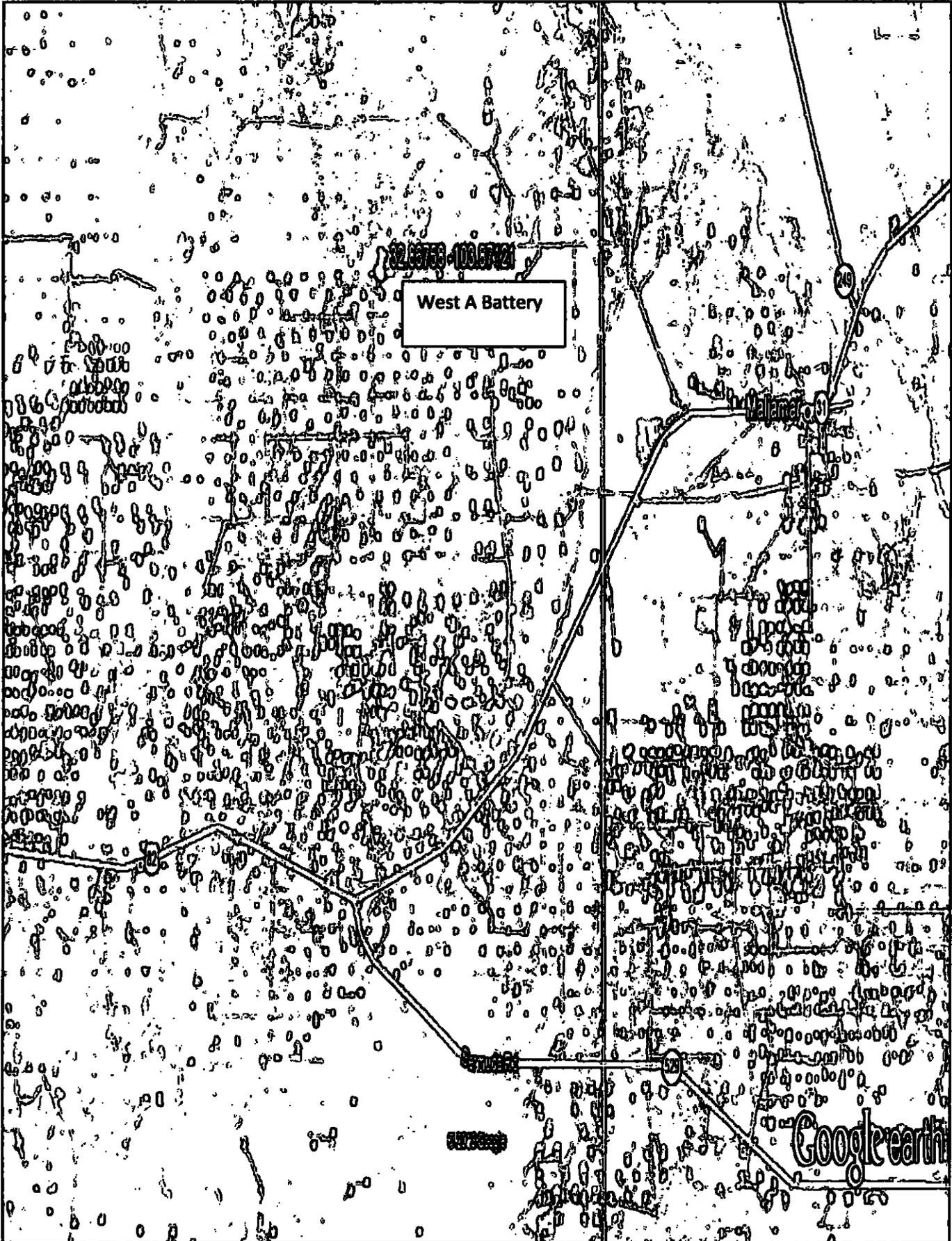
## **2.0**

**The top four feet is primarily caliche rock. The depth to ground water is presumed to be at 275'-300' based on the Eddy County depth to ground water map. There are no known water wells or surface bodies of water within a half of a mile of this location. This location is in Eddy County, New Mexico approximately 2.0 miles North of HWY 82 in Loco Hills.**

## **3.0**

**We began the excavation process due to heavy odors we continued to explore the battery by doing field samples in random areas of the battery. Soil samples were obtained and analyzed for Chlorides, TPH(8015m), and BTEX. Lab results were presented to BLM Mike Burton and approval was given to backfill the affected areas with clean material. All contaminated soil was transported to a division approved disposal facility.**

# Attachment 1



# Attachment 2

April 24, 2013

OSCAR FRAYRE

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WEST A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/23/13 15:00.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

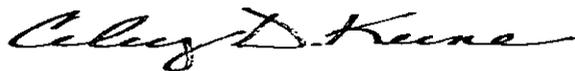
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 Hungry Horse Environmental  
 OSCAR FRAYRE  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

 Received: 04/23/2013  
 Reported: 04/24/2013  
 Project Name: WEST A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: PT. #1 @ 4' (H300955-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77		

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	04/23/2013	ND	205	103	200	4.08		
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60		

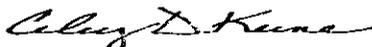
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Hungry Horse Environmental  
 OSCAR FRAYRE  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

 Received: 04/23/2013  
 Reported: 04/24/2013  
 Project Name: WEST A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: PT. #2 @ 4' (H300955-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77		

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	04/23/2013	ND	205	103	200	4.08		
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60		

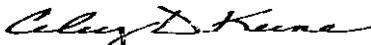
Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 OSCAR FRAYRE  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

 Received: 04/23/2013  
 Reported: 04/24/2013  
 Project Name: WEST A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: PT. #3 @ 4' (H300955-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77		

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	04/23/2013	ND	205	103	200	4.08		
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60		

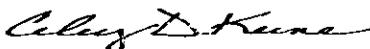
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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\* = Accredited Analyte

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 P.O. Box 1058  
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 Fax To: (505) 391-4585

 Received: 04/23/2013  
 Reported: 04/24/2013  
 Project Name: WEST A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: PT. #4 @ 4' (H300955-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
<b>Toluene*</b>	<b>0.063</b>	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/23/2013	ND	205	103	200	4.08		
DRO >C10-C28	<50.0	50.0	04/23/2013	ND	190	94.9	200	8.60		

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

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 Hungry Horse Environmental  
 OSCAR FRAYRE  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

 Received: 04/23/2013  
 Reported: 04/24/2013  
 Project Name: WEST A BATTERY  
 Project Number: NONE GIVEN  
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL (H300955-05)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	1.41	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	3.64	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	6.91	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	12.0	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 143 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	88.6	50.0	04/23/2013	ND	205	103	200	4.08		
DRO >C10-C28	326	50.0	04/23/2013	ND	190	94.9	200	8.60		

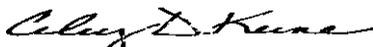
Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

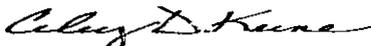
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature 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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



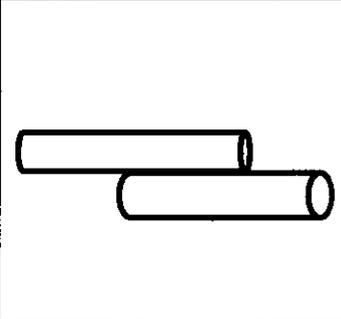
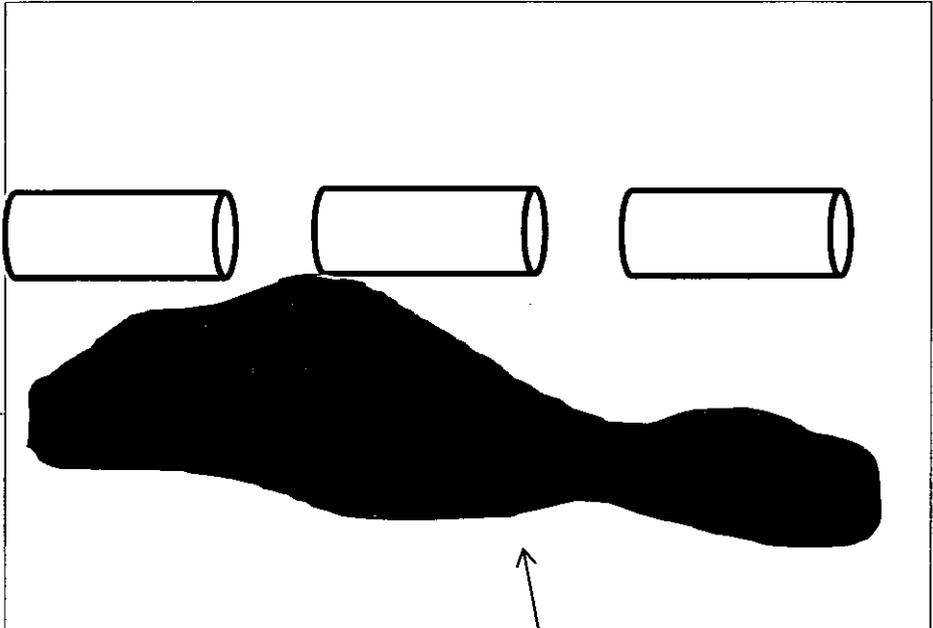
# Attachment 3

WEST A BATTERY



LEASE RD

SPILL AREA



# Attachment 4

HUNGRY HORSE, LLC  
ENVIRONMENTAL SERVICES

Dirt Work

\*

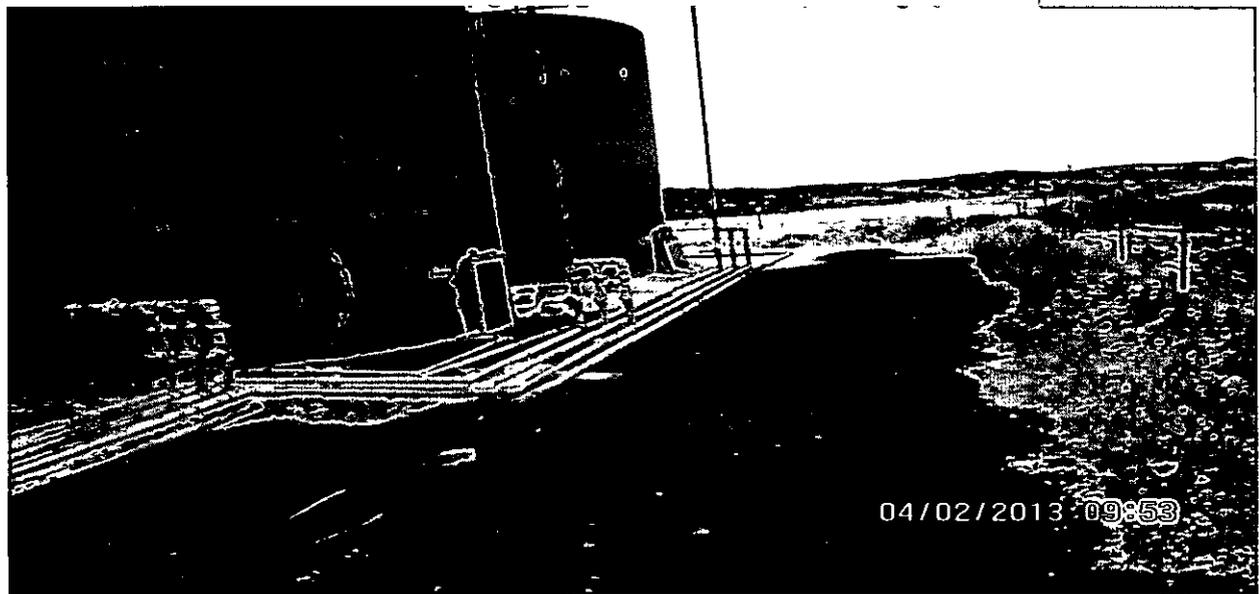
On-Site Remediation

\*

Soil Testing

\*

Excavation



# Attachment 5

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

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

NMLC 029426A

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Linn Operating	Contact: Gary Wink
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: H.E. West A Battery- HE West A 29	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528467
------------------------	------------------------	---------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	04	17S	31E	1345	North	1194	East	Eddy

Latitude: 32.86703 Longitude: -103.86939

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release: 40 bbls	Volume Recovered: 10 bbls
Source of Release: 3" Circulating line	Date and Hour of Occurrence: 3/30/2013 1:30pm	Date and Hour of Discovery: 3/30/2013 2pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher- NM OCD Mike Burton-BLM	
By Whom? Rick Rickman / Gary Wink	Date and Hour 3/30/2013 2:30pm	
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.\*: Buried 3" circulating line developed a hole causing fluid to leak from the tank, due to corrosion.

Describe Area Affected and Cleanup Action Taken.\*: Vac truck recovered 10 bbls, remove, haul, and dispose, in approved land fill.

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: <i>Gary W. Wink</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Gary W. Wink	Approved by District Supervisor:	
Title: Construction Foreman	Approval Date:	Expiration Date:
E-mail Address: gwink@linnenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/03/2013 Phone: 575-390-3477		

\* Attach Additional Sheets If Necessary

**RECEIVED**  
 MAY 23 2013  
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MAY 23 2013

NMOCD ARTESIA

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	Contact: Gary Wink
Address 2130 W. Bender Hobbs NM 88240	Telephone No. 575-738-1739
Facility Name West A Battery	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 3001528467
-----------------------	-----------------------	--------------------

LOCATION OF RELEASE

Unit Letter H	Section 04	Township 17S	Range 31E	Feet from the 1345	North/South Line NORTH	Feet from the 1194	East/West Line EAST	County EDDY
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release OIL	Volume of Release 40BBLS	Volume Recovered 10 BBLS
Source of Release 3" CIRCULATING LINE	Date and Hour of Occurrence 3/30/13 1:30PM	Date and Hour of Discovery 3/30/13 2PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NM OCD Mike Burton BLM	
By Whom? Rick Rickman / Gary Wink	Date and Hour 3/30/13	
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.\* We began by excavating inside the battery using hand tools and placing the contaminated soil above a plastic liner. Random samples were taken and field tested on site for CL, they were then taken to the laboratory for further analysis, labs were then presented to BLM for backfill approval. All the contaminated soil was hauled off to a disposal facility.

Describe Area Affected and Cleanup Action Taken.\*

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: <i>Gary W. Wink</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: GARY W. WINK	Approved by Environmental Specialist:	
Title: CONSTRUCTION FOREMAN I	Approval Date:	Expiration Date:
E-mail Address: gawink@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/9/2013	Phone: 575-390-3477	2RP-1618

\* Attach Additional Sheets If Necessary

## Oscar Frayre

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**From:** Burton, Michael <mburton@blm.gov>  
**Sent:** Friday, May 03, 2013 8:05 AM  
**To:** Oscar Frayre  
**Subject:** Re: west a bat

Oscar,  
Your plan to excavate the West A battery is approved.  
Thanks

*Mike Burton*  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**mburton@blm.gov**

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On Fri, May 3, 2013 at 6:25 AM, Oscar Frayre <[OFrayre@hungry-horse.com](mailto:OFrayre@hungry-horse.com)> wrote:

A n email stating I have your permission to begin work at west a battery