

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

September 9th, 2013

Mr. Mike Burton

BLM

620 E. Greene Street

Carlsbad, NM 88220-6292



RE: **Corrective Action Plan**

Linn Energy – H.E. West B #004 Battery – West B 38

2RP-1864

UL/F sec. 10 T17S R31E

Mr. Burton:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

On August 16th, 2013, a poly pipeline from the West B #41 to the West B #4 Tank Battery developed a pin-hole leak. The line was repaired. A total of 5 gallons of produced water and oil was released into the pasture area and none of this was recovered. BLM was notified of the release on August 19th, 2013 and NMOCD was notified of the occurrence on August 22nd, 2013. An initial C-141 was sent to both agencies on August 22nd, 2013 (Appendix A). This site is located in an area of no known groundwater.

A request of status was sent to BLM Archaeology Department on August 27th, 2013. BLM replied that the site needed an MOA to conduct an excavation at the site. An MOA was delivered to the BLM office in Carlsbad on September 6th, 2013 (Appendix B).

A total of 1,126 sq ft of pasture was affected. On August 23rd, 2013, RECS personnel were on site to sample the release at the surface and at depth. The samples were field tested for chlorides and hydrocarbons, and then taken to a commercial laboratory for analysis (Figure 1). The laboratory chloride readings showed that chloride levels dropped below the threshold of 1,000 mg/kg at 6 inches bgs in Points 1, 2 and 4, while Point 3 was below 1,000 mg/kg at the surface (Appendix C).

Corrective Action Plan

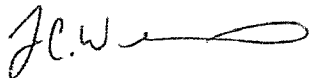
Based on the laboratory analysis of the release, RECS recommends that the entire site be scraped down 6 inches and the soil taken to a NMOCD approved facility for disposal. The site will then be backfilled with clean, imported soil and contoured to the surrounding location. Soil amendments will be added to the imported soil as necessary and the site would then be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

Photo documentation of the site can be found in Appendix D.

Once this work is completed, a final C-141 will be submitted to BLM and NMOCD for approval.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

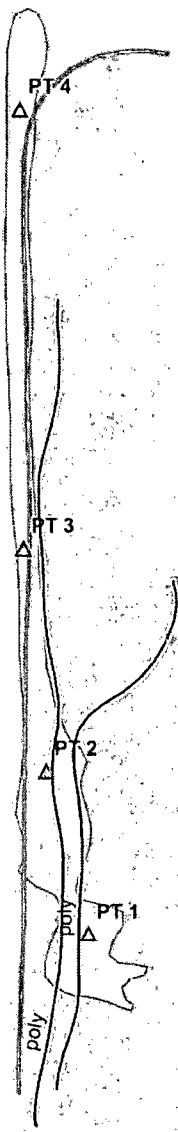
A handwritten signature in dark ink, appearing to read 'J.C.W.' followed by a long, horizontal, slightly wavy line.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – BLM MOA Documentation
- Appendix C – Laboratory Analyses
- Appendix D – Photo Documentation

Initial Sampling Data



	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 4 Surface	1090	17.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 4 @ 6"	304	3.3	<10	321	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 3 Surface	96	69.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 2 Surface	6660	37.6	<100	17000	<0.2	<0.2	<0.2	<0.6	<1.2
Point 2 @ 6"	656	41.3	<100	7070	<0.05	<0.05	<0.05	<0.15	<0.3
Point 2 @ 1'	768	12.9	<10	749	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 1 Surface	7060	14.2	<100	8080	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 6"	80	18.1	<10	10.7	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 1'	160	12.5	<10	25.1	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

- ▲ SAMPLE POINT
- ROADWAY
- SURFACE PIPELINE
- STAIN (1126 sq ft)

CI- FIELD DATA

CI- LAB DATA

Landowner = BLM

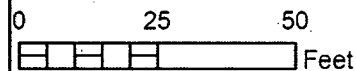
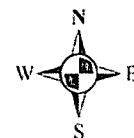
DGW = None



**LINN H.E. WEST B
#004 BATTERY-WEST
B 38 (2RP-1864)**

LEGALS: UL/F, SEC 10
T17S - R31E
EDDY COUNTY, NM

Figure 1



GPS date: 8/23/2013 KS
Drawing date: 9/5/13
Drafted by: L. Weinheimer

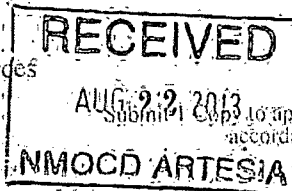
Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

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 October 10, 2009

Release Notification and Corrective Action

Operator ☒ Initial Report ☐ Final Report

Name of Company: Linn Operating **209324** Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739
Facility Name: HE West B #4 Battery West B 38 Facility Type: Battery
Surface Owner: Federal Mineral Owner: APL No.: 3001526001

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	17S	31E	2085	North	1980	West	Eddy

Latitude: 32.850600057686 Longitude: -103.859729591584

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: 5 gal / 5 gal	Volume Recovered: 0.0
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 08/16/2013 7:00pm	Date and Hour of Discovery: 08/16/2013 7:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton BLM	
By Whom? Brian Wall	Date and Hour: 08/19/2013 2:00pm	
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: Flowline from West B #4 had developed a pin hole going to the West B #4 Tank Battery on South Side of the battery. Possible cause fatigue. Line was repaired.

Describe Area Affected and Cleanup Action Taken: A light spray of fluid developed. Area affected was 3' x 4' ft

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should the operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health, or the environment. In addition, NMOC 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.

OIL CONSERVATION DIVISION

Signature: <i>[Signature]</i>	Approved by District Supervisor: <i>[Signature]</i>
Printed Name: Brian Wall	Signed By: <i>[Signature]</i>
Title: Conservation Foreman II	Approval Date: AUG 26 2013 Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:
Date: 08/20/13 Phone: 806-367-0645	Attached: <input type="checkbox"/>

* Attach Additional Sheets If Necessary

2.79-18.64
Sept 26, 2013

Appendix B

BLM MOA Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

From: Galassini, Stacy
To: Lara Weinheimer
Subject: Re: Linn H.E. West B #4 Battery
Date: Tuesday, August 27, 2013 3:24:30 PM

I would say yes.

On Tue, Aug 27, 2013 at 3:17 PM, Lara Weinheimer <lweinheimer@rice-ecs.com> wrote:

Stacy, here is the release area for the H.E. West B #4 Battery. I would like to check to see if we need an MOA, etc. for this site.

Thanks!

Lara Weinheimer
Rice Environmental Consulting & Safety
Project Scientist
419 West Cain
Hobbs, NM 88240
(575) 441-0431

--

Stacy K. Galassini
Archeologist
Bureau of Land Management
Carlsbad Field Office
Carlsbad, NM 88220
575-234-5986

United States Department of the Interior
Bureau of Land Management
CARLSBAD FIELD OFFICE
620 E. GREENE
CARLSBAD, NM 88220 -6292
Phone: (575) 234-5972

Receipt

No: 2876412

Transaction #: 2962486	
Date of Transaction: 09/06/2013	
CUSTOMER:	
	RICE ENVIRONMENTAL CONSULTING & SAFETY LLC PO BOX 5630 HOBBS, NM 88241-5630 US

LINE #	QTY	DESCRIPTION	REMARKS	UNIT PRICE	TOTAL
1	1.00	CONTRIBUTED FUNDS-ALL OTHER / 7122 FLPMA / ALL OTHER RES DEV, PROTECT & MGMT PROJECT: LVTFG09G6180	MOA: LINN H.E. WEST B #4 BATTERY	1507.00	1507.00
TOTAL:				\$1,507.00	

PAYMENT INFORMATION				
1	AMOUNT:	1507.00	POSTMARKED:	N/A
	TYPE:	CHECK	RECEIVED:	09/06/2013
	CHECK NO:	4084		
	NAME:	RICE ENVIRONMENTAL CONSULTING & SAFETY LLC PO BOX 5630 HOBBS NM 88241-5630 US		

REMARKS

This receipt was generated by the automated BLM Collections and Billing System and is a paper representation of a portion of the official electronic record contained therein.

Appendix C

Laboratory Analyses

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

September 03, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 11:05.

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.

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, reading "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 08/26/2013
Reported: 09/03/2013
Project Name: H. E. WEST B #4 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 1 @ SURFACE (H302052-01)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91		
DRO >C10-C28	8090	100	09/01/2013	ND	205	102	200	5.30		

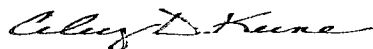
Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 343 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 6" (H302052-02)

BTX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 98.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	11.7	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 1' (H302052-03)

BTX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 98.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	25.1	10.0	08/30/2013	ND	205	102	200	5.30		

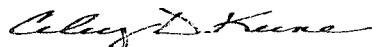
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 08/26/2013
 Reported: 09/03/2013
 Project Name: H. E. WEST B #4 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 2 @ SURFACE (H302052-04)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.200	0.200	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.200	0.200	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.600	0.600	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTX	<1.20	1.20	08/29/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91		
DRO >C10-C28	17000	100	09/01/2013	ND	205	102	200	5.30		

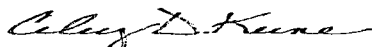
Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 872 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 08/26/2013
 Reported: 09/03/2013
 Project Name: H. E. WEST B #4 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 6" (H302052-05)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

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	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91		
DRO >C10-C28	7070	100	09/01/2013	ND	205	102	200	5.30		

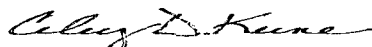
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 235 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 1' (H302052-06)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	749	10.0	08/30/2013	ND	205	102	200	5.30	

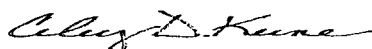
Surrogate: 1-Chlorooctane 102 % 63.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302052-07)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

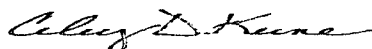
Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H302052-08)

BTEX 8260B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

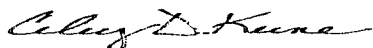
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
HACK CONDER
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ 6" (H302052-09)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 106 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	321	10.0	08/30/2013	ND	205	102	200	5.30	

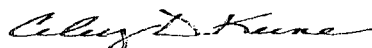
Surrogate: 1-Chlorooctane 98.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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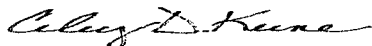
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Jacob Kamplain				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																																	
Address:				Company:																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: Fax #:				Address:																																					
Project #: Project Owner:				City:																																					
Project Name:				State: Zip:																																					
Project Location: H.E. West B#4 battery				Phone #:																																					
Sampler Name: Kyle Schnaidt				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													
H302052																																									
1		Point 1 @ surface		6		1						X										X				8-23-13		11:00		X											
2		Point 1 @ 6"		6		1						X										X				11:30		X													
3		Point 1 @ 1'		6		1						X										X				11:35		X													
4		Point 2 @ surface		6		1						X										X				11:05		X													
5		Point 2 @ 6"		6		1						X										X				11:40		X													
6		Point 2 @ 1'		6		1						X										X				11:50		X													
7		Point 3 @ surface		6		1						X										X				11:10		X													
8		Point 4 @ surface		6		1						X										X				11:25		X													
9		Point 4 @ 6"		6		1						X										X				11:45		X													
<p>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.</p>																																									
Relinquished By: Kyle Schnaidt				Date: 8-26-13		Received By: Jodi Benson		Date: 11-05		Time: 11:05		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS:																					
Relinquished By:				Date:		Received By:		Time:				kschnaidt@rice-ecs.com		Knorman@rice-ecs.com		Kjones@riceswd.com; jkamplain@rice-ecs.com		hconder@rice-ecs.com; Lweinheimer@rice-ecs.com																							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:																																			
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																	

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

#54

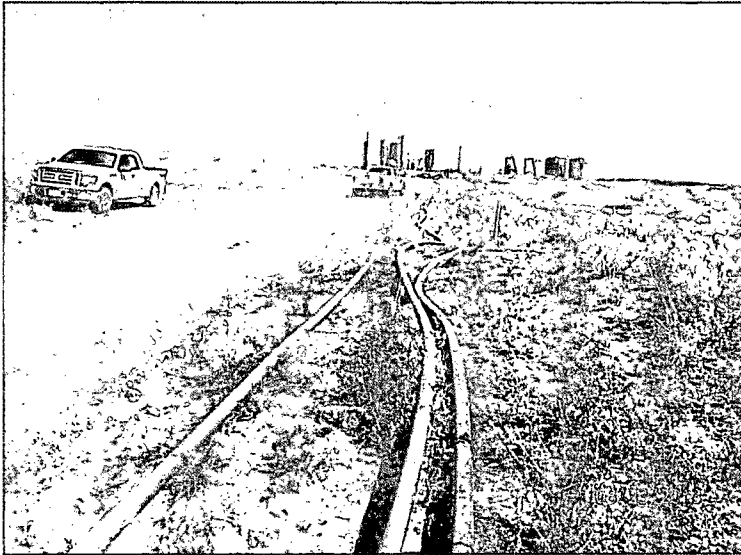
Appendix D

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Linn H.E. West B 3004 Battery – West B 38

Unit Letter F, Section 10, T17S, R31E



Initial release area, facing north

8/23/13



Hand auguring for depth, facing southwest

8/23/13

Bratcher, Mike, EMNRD

From: Burton, Michael <mburton@blm.gov>
Sent: Thursday, October 10, 2013 10:05 AM
To: Bratcher, Mike, EMNRD
Subject: RE: Linn H.E. West B #004 Battery - West B 38 (2RP-1864) Corrective Action Plan

I am out of the office because of the Federal government shutdown. In case of emergencies, please call the number for BLM [NM] identified on the Department of Interior's website at www.doi.gov. Thank you.

--

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

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Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, October 10, 2013 10:04 AM
To: Lara Weinheimer; 'Burton, Michael'
Cc: Brian Wall; Hack Conder
Subject: RE: Linn H.E. West B #004 Battery - West B 38 (2RP-1864) Corrective Action Plan

Lara,

NMOCD concurs with BLM approval of the Corrective Action Plan for this incident.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Burton, Michael [<mailto:mburton@blm.gov>]
Sent: Thursday, September 26, 2013 7:23 AM
To: Lara Weinheimer
Cc: Brian Wall; Bratcher, Mike, EMNRD; Hack Conder
Subject: Re: Linn H.E. West B #004 Battery - West B 38 (2RP-1864) Corrective Action Plan

Lara,
This Corrective Action Plan is approved as written. Keep my self and NMOCD informed of any changing conditions.
Thanks

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

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On Mon, Sep 9, 2013 at 3:46 PM, Lara Weinheimer <lweinheimer@rice-ecs.com> wrote:

Mike, attached is the Corrective Action Plan for the Linn H.E. West B #004 Battery. Since this is a non-reportable release, I didn't send this to Mike Bratcher. Bratcher said a final C-141 was all that was necessary once the work was completed. So, unless you have any questions or concerns, we will await your approval.

Thanks!

Lara Weinheimer

Rice Environmental Consulting & Safety

Project Scientist

419 West Cain

Hobbs, NM 88240

(575) 441-0431

Bratcher, Mike, EMNRD

From: Burton, Michael <mburton@blm.gov>
Sent: Thursday, September 26, 2013 6:52 AM
To: Lara Weinheimer; Hack Conder; Bratcher, Mike, EMNRD
Subject: H E West B #4; NU13106MB

Lara,

This email is to confirm the verbal approval I gave on 09/25/2013. This site is approved for back fill.

Thanks

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

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Bratcher, Mike, EMNRD

From: Burton, Michael <mburton@blm.gov>
Sent: Thursday, September 26, 2013 7:23 AM
To: Lara Weinheimer
Cc: Brian Wall; Bratcher, Mike, EMNRD; Hack Conder
Subject: Re: Linn H.E. West B #004 Battery - West B 38 (2RP-1864) Corrective Action Plan

Lara,
This Corrective Action Plan is approved as written. Keep my self and NMOCD informed of any changing conditions.
Thanks

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

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On Mon, Sep 9, 2013 at 3:46 PM, Lara Weinheimer <lweinheimer@rice-ecs.com> wrote:

Mike, attached is the Corrective Action Plan for the Linn H.E. West B #004 Battery. Since this is a non-reportable release, I didn't send this to Mike Bratcher. Bratcher said a final C-141 was all that was necessary once the work was completed. So, unless you have any questions or concerns, we will await your approval.

Thanks!

Lara Weinheimer

Rice Environmental Consulting & Safety

Project Scientist

419 West Cain

Hobbs, NM 88240

(575) 441-0431

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Monday, November 04, 2013 1:51 PM
To: 'Burton, Michael'; Jacob Kamplain
Subject: RE: West B #4 Battery

OCD concurs with BLM approval.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Burton, Michael [<mailto:mburton@blm.gov>]
Sent: Friday, November 01, 2013 6:12 AM
To: Jacob Kamplain
Cc: Bratcher, Mike, EMNRD
Subject: Re: West B #4 Battery

Jacob,
You have approval from the BLM.

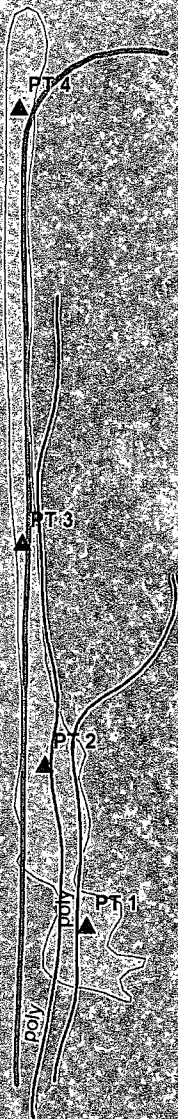
Mike Burton
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

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On Thu, Oct 31, 2013 at 3:27 PM, Jacob Kamplain <jkamplain@rice-ecs.com> wrote:

Gentlemen we are scheduling to begin CAP work on Monday 11/7/13. Let me know if this works for you.
Thanks.

Initial Sampling Data



	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 4 Surface	1090	17.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 4 @ 6"	304	3.3	<10	321	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 3 Surface	96	69.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 2 Surface	6660	37.6	<100	17000	<0.2	<0.2	<0.2	<0.6	<1.2
Point 2 @ 6"	656	41.3	<100	7070	<0.05	<0.05	<0.05	<0.15	<0.3
Point 2 @ 1'	768	12.9	<10	749	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 1 Surface	7060	14.2	<100	8090	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 6"	80	18.1	<10	10.7	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 1'	160	12.5	<10	25.1	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

- ▲ SAMPLE POINT
- ROADWAY
- SURFACE PIPELINE
- STAIN (1126 sq. ft)

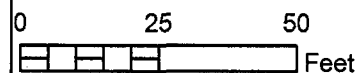
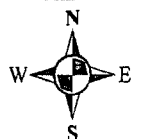
Landowner = BLM

DGW = None



**LINN H.E. WEST B
#004 BATTERY-WEST
B 38 (2RP-1864)**

LEGALS: UL/F, SEC 10
T17S - R31E
EDDY COUNTY, NM



GPS date: 8/23/2013 KS
Drawing date: 9/5/13
Drafted by: L. Weinheimer

OCD/RECS Meeting

October 9, 2013

Artesia, NM

AGENDA/NOTES

A. Termination Requests

1. Linn Skelly Unit 22 (2RP-1400) - Termination Request
Hard Copy Rec'd 7/30/13 - copy brought to meeting
My file may be in Big Closure Stack
Got approval to backfill from OCA & BCM OK to close

2. Linn West A #028 (2RP-1216) - Termination Request
should have had copy - may also be in closure stack
OCD & BCM approved CAP REC brought copy of
Term Request OK to close

3. Linn Turner A #11 (2RP-1239) - Termination Request
sent Closure request via USPS - unable to locate w/g
REC brought copy of Term Reg. - This rel was Apache
hit A Linn Line - REC got on it right away - had equiv close by
REC brought copy of Term Reg. OK to close

4. Apache Geronimo 28 State #1 (API No. 30-015-31829) - Termination Request
REC provided Initial C-141 - Term Reg.
& Final C-141
Check book OK to close
Send email when this is worked Done to open first

5. Apache NFE Federal #6 (2RP-1194) - Termination Request
REC sent hard copy of Term Reg.
file may be in closure stack
REC brought copy of Term Reg w/ final C-141
OK to close

B. CAP

1. Linn H.E. West B #4 Battery (2RP-1864) - need NMOCD to approve CAP
Do have hard file - has been approved by BCM
Hard copy of CAP was sent - signed for by Karen
see email from Barker w/ BCM 9/26/13
Clean @ 6" - require surface scrape - need
to send email concur w/ BCM Approval
REC brought copy of the CAP

see 2RP 1715 also
separate incident

Found it