

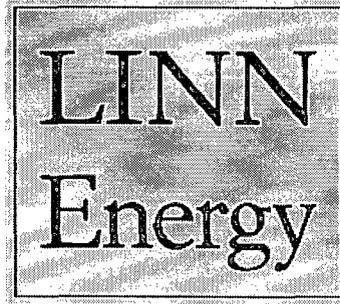
Bratcher, Mike, EMNRD

From: Lara Weinheimer <lweinheimer@rice-ecs.com>
Sent: Monday, December 09, 2013 11:10 AM
To: Bratcher, Mike, EMNRD
Cc: 'Hack Conder'; 'Jacob Kamplain'; 'Wall, Fred'
Subject: Termination Request for the Linn West H.E. B #4 Battery - West B #38 (2RP-1715)
Attachments: Pages from Linn West H.E. B #4 Battery - West B #38 (2RP-1715) Termination Request.pdf; Final C-141-signed by Linn.pdf

Mike attached is the verbiage, plats and C-141s for the Linn West H.E. B #4 Battery –West B #38 (2RP-¹⁷¹⁵~~1717~~). A hard copy of the entire report is in the mail. If you have any questions, please let us know. Otherwise, we will await your approval.

Thanks!

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



LINN ENERGY

2130 W. Bender Blvd.
Hobbs, NM 88241
Phone 575.738.1739

West H.E. B #4 Battery – West B #38
2RP-1715

Termination Request

API No. 3001526001

Release Date: July 1st, 2013

Unit Letter F, Section 10, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

December 9th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: Termination Request

Linn Energy – West H.E. B #4 Battery – West B #38 (2RP-1715)

UL/F sec. 10 T17S R31E

API No. 3001526001

Mr. Bratcher:

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

Background and Previous Work

The site is located approximately 7.4 miles northeast of Loco Hills, New Mexico at UL/F sec. 10 T17S R31E. This site is in an area of no known groundwater.

On July 1st, 2013, a release of oil occurred at the site due to the 1 inch valve being open to the circulation pump and oil was gravity fed from the sales tank. A total of 45 barrels of oil was released and 10 barrels of oil was recovered. NMOCD and BLM were notified of the release on July 1st, 2013 and an initial C-141 was submitted to both agencies (Appendix A). NMOCD approved the initial C-141 on July 12th, 2013.

RECS received this site from another environmental company. When RECS took over site remediation, the release in the battery had already been excavated to a depth of approximately 1.5 - 3 ft bgs, depending on the area (Figure 1). On September 4th, 2013, RECS personnel were on site to sample the excavated area. The surface of the excavation was sampled at six points, and two points, Point 1 and Point 2, were sampled to determine the depth of contamination. All samples were field tested for chlorides and for organic vapors using a PID meter. Representative samples were taken to a commercial laboratory for analysis (Appendix B). Point 1 and Point 2 were hand augured to a depth of 9 ft bgs and laboratory analysis showed chloride results below 1,000 mg/kg at 9 ft bgs. Gasoline Range Organics (GRO) and BTEX readings were non-detect in both augurs at all depths. Diesel Range Organics (DRO) showed slightly elevated readings in both augurs at all depths, but were below regulatory standards and declined with depth.

A vertical was scheduled to be installed on September 11th, 2013 to determine the depth of contamination. However, during vertical installation a gas line was discovered and the

vertical was abandoned. Given that there was no other location available for vertical installation, RECS met with NMOCD on September 20th, 2013 and received verbal permission to backfill the site. On September 26th, BLM also gave approval to backfill the site.

On October 29th, 2013, 108 yards of caliche was imported to the site to serve as backfill. A sample of the imported soil was taken to a commercial laboratory for analysis and returned a chloride result of non-detect (Appendix C). The site was backfilled with the caliche and contoured to the surrounding location.

Photo documentation of these activities can be found in Appendix D.

Given that the majority of the contaminated soil was removed from the site and the site was backfilled with clean, imported caliche, Linn requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

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.

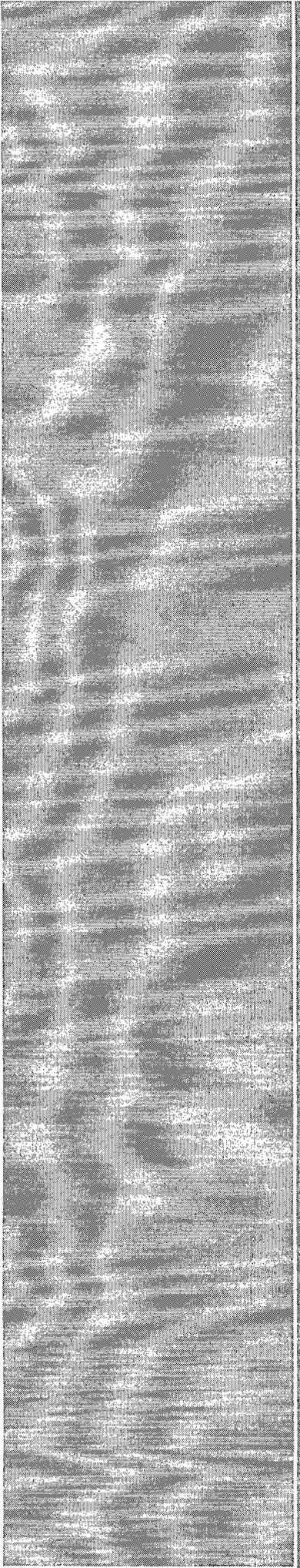
Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

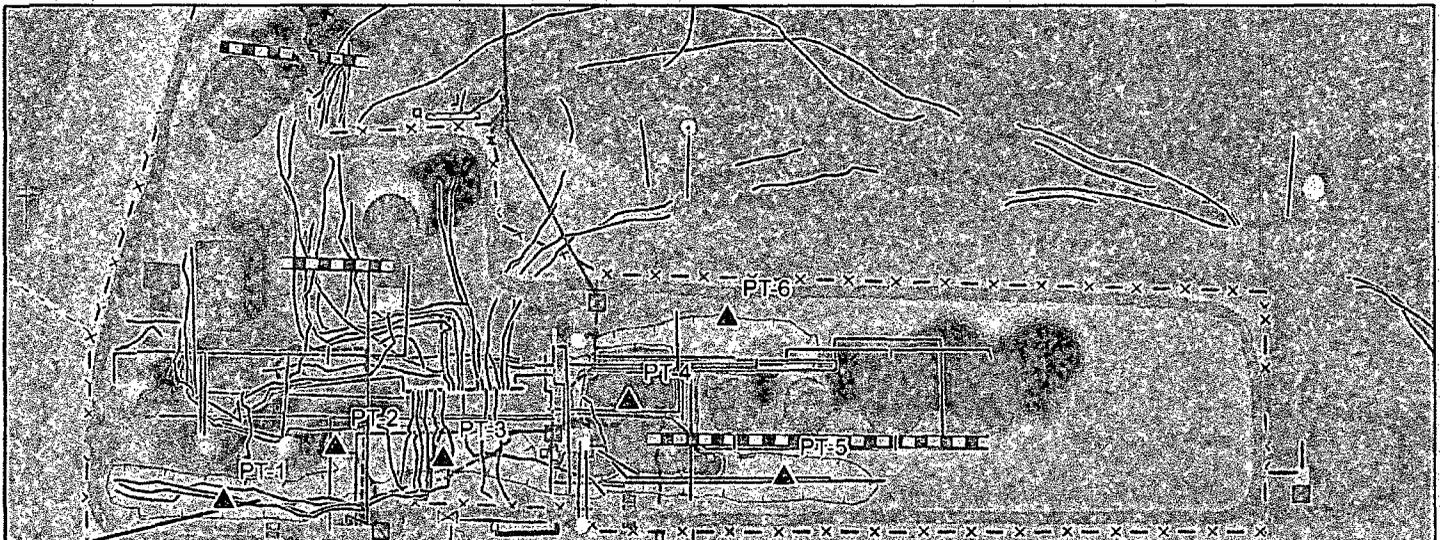
- Figure 1 – Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Imported Caliche Lab
- Appendix D – Photo Documentation
- Appendix E – Final C-141



Figures

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

Initial Sampling Data



Point 1	CI-	PID	GRO	DRO	B	T	E	X	BTEX	Point 2	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	1589	258.3								Surface	2625	139.2							
1.5'	486	830.6								1.5'	1811	7							
2'	968	1260								2'	2240	5.6	<10	683	<0.05	<0.05	<0.05	<0.15	<0.3
2.5'	719	1166								2.5'	1490	4.1							
3'	279	884.7								3'	771	4							
3.5'	237	841								3.5'	627	4.6							
4'	284	203.5								4'	810	2.7							
4.5'	329	614.6								4.5'	662	3.3							
5'	358	294.1								5'	658	2.1							
5.5'	340	274.4								5.5'	600	2.4							
6'	359	16.2								6'	611	347							
6.5'	446	61.7								6.5'	658	304.3							
7'	435	114.2								7'	602	161							
7.5'	454	91.1								7.5'	604	174.9							
8'	483	67.5								8'	616	63.3							
8.5'	502	197.3								8.5'	480	106.3							
9'	624	41.6	<10	10.3	<0.05	<0.05	<0.05	<0.15	<0.3	9'	664	37	<10	33.9	<0.05	<0.05	<0.05	<0.15	<0.3

Point 3	CI-	PID
Surface	909	268.8
Point 4	CI-	PID
Surface	224	141.6
Point 5	CI-	PID
Surface	166	96.3
Point 6	CI-	PID
Surface	858	139.6

Legend

▲ SAMPLE POINT	▤ CROSSOVER	⊠ AIR COMPRESSOR
○ CONTAINMENT	⎓ ELECTRICAL PANEL	■ CHEMICAL TANK
□ CONTROL BOX	x - FENCE	▨ EXCAVATION TO 1'
⎓ ELECTRIC POLE	— HEADER	▨ EXCAVATION TO 3'
⊠ ELECTRICAL BOX	— OVERHEAD ELECTRIC LI	⊠ PUMP
⊠ VALVE	⎓ PAD/ROAD EDGE	▨ SEPARATOR 8x15'
⊠ VERTICAL VENT PIPE	— PIPE GUARD	▨ STORAGE TANK
— PIPE END	— RISER	▨ TREATER
— FRONTIER GAS LINE	▤ STAIRS/CATWALK	⊠ VALVE BOX
▨ BERM	— SURFACE ELECTRIC	CI- FIELD DATA
— BURIED PIPELINE	— SURFACE PIPELINE	CI- LAB DATA

Landowner = BLM DGW = None



**LINN H. E. WEST
B #4 BATTERY
2RP-1715**

UL F SECTION 10
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1

GPS date: 9/4/2013 CF
Drawing date: 9/6/13
Drafted by: LS



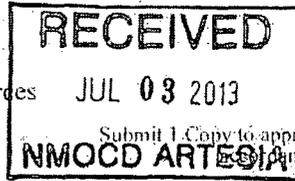
Appendix A

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, 2003
Submit 1 Copy to appropriate District Office in NMOC D ARTESIA with 19.15.29 NMAC

Release Notification and Corrective Action

nJMN1319335555 OPERATOR Initial Report Final Report

Name of Company: Linn Operating <i>ZC9324</i>	Contact: Gary Wink
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575738-1739
Facility Name: West H.E. B #4 Battery - West B #38	Facility Type: Battery
Surface Owner: Federal	Mineral Owner: Federal
API No.: 3001526001	

LOCATION OF RELEASE

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

Latitude: 32.850600037686 Longitude: -103.859729591584

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 45 bbls	Volume Recovered: 10 bbls
Source of Release: 1" valve to circulation pump	Date and Hour of Occurrence: 07/01/2013 10:10am	Date and Hour of Discovery: 07/01/2013 10:10am
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	Date and Hour 07/01/13 10:30am	
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.*: Oil was leaking out of circulation pump. The 1" valve was open to pump and oil was gravity feeding from sales tank.		
Describe Area Affected and Cleanup Action Taken.* : 2 - 10' x 20' areas. In the process of sampling. after results received clean up will occur per regulatory standards.		

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>	OIL CONSERVATION DIVISION	
Printed Name: Gary W. Wink	Approved by District Supervisor:	Signed By: <i>Mike Bratcher</i>
Title: Production Foreman	Approval Date: JUL 12 2013	Expiration Date:
E-mail Address: gawink@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/03/13 Phone: 575-390-3477	Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

* Attach Additional Sheets If Necessary

August 12, 2013

ZRP-1715