

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.

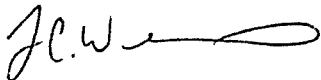
On October 29th, 2013, 108 yards of caliche was imported to the site to serve as backfill. A sample of the imported soil was taken to a commercial laboratory for analysis and returned a chloride result of non-detect (Appendix C). The site was backfilled with the caliche and contoured to the surrounding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

A handwritten signature in black ink, appearing to read 'J.C.W.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

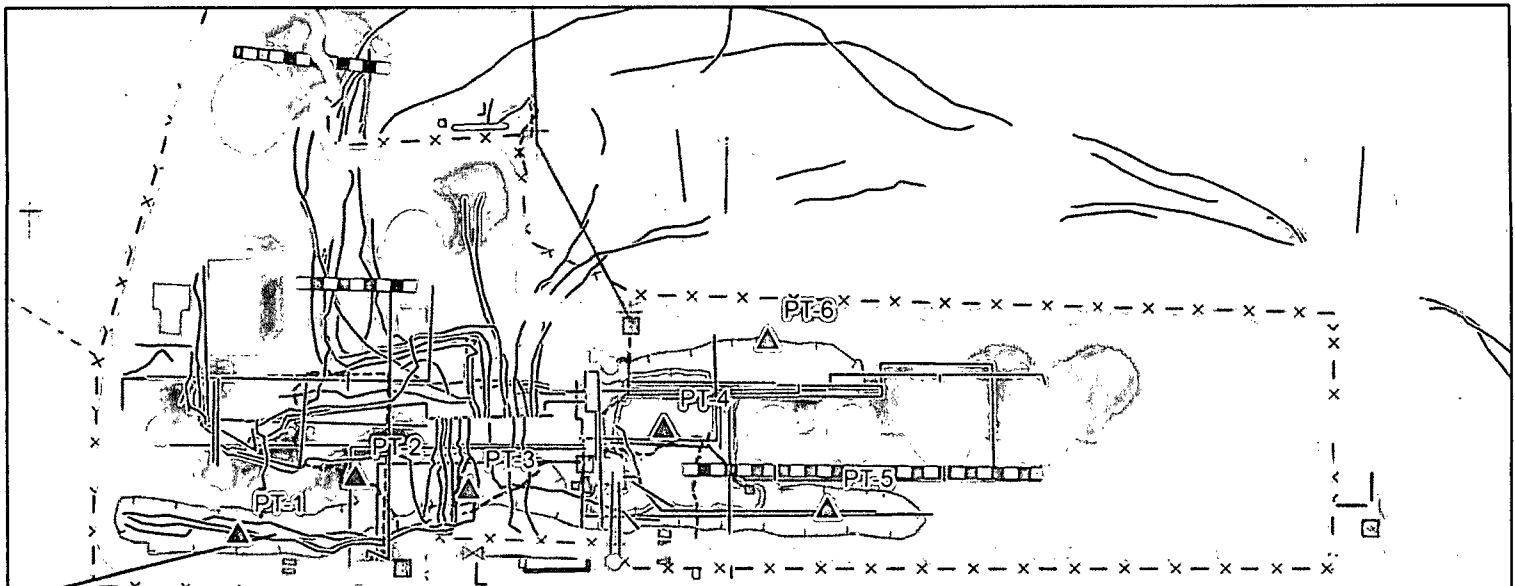
Attachments:

- 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	2825	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'	464	37	<10	33.9	<0.05	<0.05	<0.05	<0.15	<0.3

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 8'x15'
○ VERTICAL VENT PIPE	— PIPE GUARD	□ STORAGE TANK
— PIPE END	— RISER	□ TREATER
— FRONTIER GAS LINE	— STAIRS/CATWALK	□ VALVE BOX
— BERM	— SURFACE ELECTRIC	
— BURIED PIPELINE	— SURFACE PIPELINE	

CI- FIELD DATA
CI- LAB DATA

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

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



0 25 50
Feet

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

RECEIVED

JUL 03 2013

Form C-141
Revised October 10, 2003.

Submit 1 Copy to appropriate District Office in
NMOC D ARTESIA

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.: 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 F	Section 10	Township 17S	Range 31E	Feet from the 2085	North/South Line North	Feet from the 1980	East/West Line West	County Pca
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Latitude: 32.8506000 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 cleanup 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 NMOC D 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 D 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, NMOC D 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: Gary W. Wink	OIL CONSERVATION DIVISION	
Printed Name: Gary W. Wink	Approved by District Supervisor: Signed By: Mike Bratcher	
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

Appendix B

Initial Sampling Lab

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

September 13, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/10/13 15:40.

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.

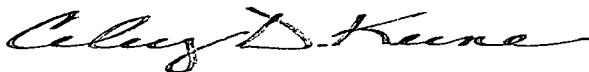
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

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

Received: 09/10/2013
Reported: 09/13/2013
Project Name: WEST B #4 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/04/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 2' (H302183-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	<0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEX	<0.300	0.300	09/12/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	09/12/2013	ND	416	104	400	3.92	

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	09/12/2013	ND	192	95.9	200	0.724	
DRO >C10-C28	683	10.0	09/12/2013	ND	180	90.0	200	1.81	

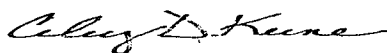
Surrogate: 1-Chlorooctane 79.1 % 65.2-140

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
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 09/10/2013
Reported: 09/13/2013
Project Name: WEST B #4 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 9' (H302183-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	<0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEx	<0.300	0.300	09/12/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/12/2013	ND	416	104	400	3.92	

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	09/12/2013	ND	192	95.9	200	0.724	
DRO >C10-C28	33.9	10.0	09/12/2013	ND	180	90.0	200	1.81	

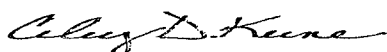
Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

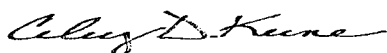
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

Company Name: RECS				BILL TO				ANALYSIS REQUEST																											
Project Manager: Jacob Kamplain				P.O. #:																															
Address:				Company:																															
City:		State:		Zip:		Attn:																													
Phone #:		Fax #:		Address:																															
Project #:		Project Owner:		City:																															
Project Name:				State:																Zip:															
Project Location: Linn West B #4 Battery				Phone #:																															
Sampler Name: Chris Flores				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		Chloride		TPH		BTEX	
H302183		1 Point 2 @ 2'		G		1						/														9-4-2013		3:05		X		X		X	
		2 Point 2 @ 9'		G		1						/														9-5-2013		1:25		X		X		X	

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.

Relinquished By:		Date: 9-10-2013		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:	
		Time: 3:40				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:			
		Time:									
Relinquished By:		Date:		Received By:							
		Time:									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 					

September 18, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/16/13 9:30.

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.

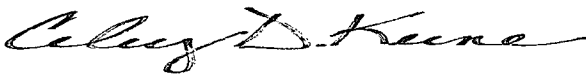
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

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

Received: 09/16/2013
Reported: 09/18/2013
Project Name: WEST B #4 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 9' (H302221-01)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2013	ND	1.98	99.0	2.00	4.45	
Toluene*	<0.050	0.050	09/16/2013	ND	2.14	107	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/16/2013	ND	2.27	113	2.00	4.29	
Total Xylenes*	<0.150	0.150	09/16/2013	ND	6.92	115	6.00	2.88	
Total BTEX	<0.300	0.300	09/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 137 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/16/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	10.3	10.0	09/17/2013	ND	188	94.1	200	2.77	

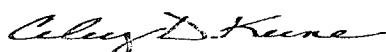
Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

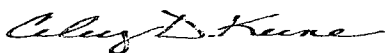
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



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

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.

Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
<i>Chris Thomas</i>		Time:	<i>Jodi Benson</i>	Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:			
		Time:		J. Kamplain			
Delivered By: (Circle One)				Weinheimer			
Sampler - UPS - Bus - Other:		Sample Condition		CHECKED BY:			
		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		<i>JA</i>			

Appendix C

Imported Caliche Lab

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

November 11, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/07/13 16:23.

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.

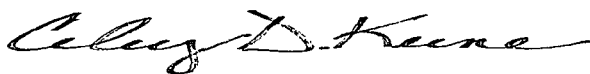
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

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

Received: 11/07/2013
Reported: 11/11/2013
Project Name: WEST B #4 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

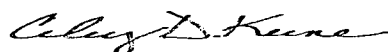
Sample ID: IMPORTED CALICHE (H302726-01)**Chloride, SM4500CI-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/08/2013	ND	416	104	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

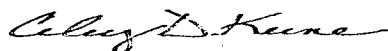
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

#54

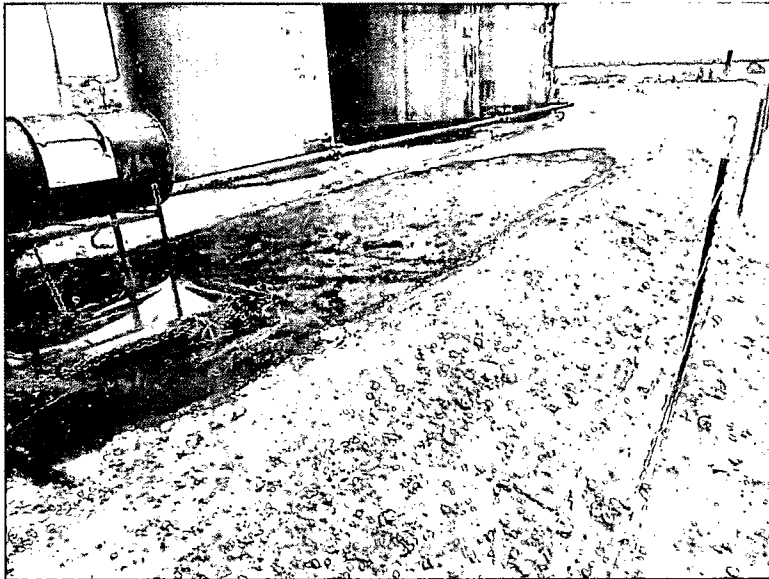
Appendix D

Photo Documentation

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

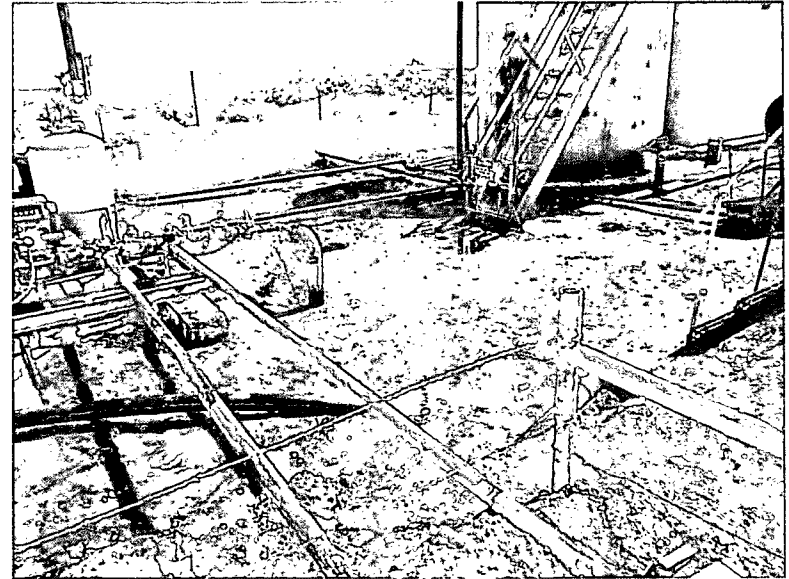
Linn H.E. West B #004 Battery (2RP-1715)

Unit Letter F, Section 10, T17S, R31E



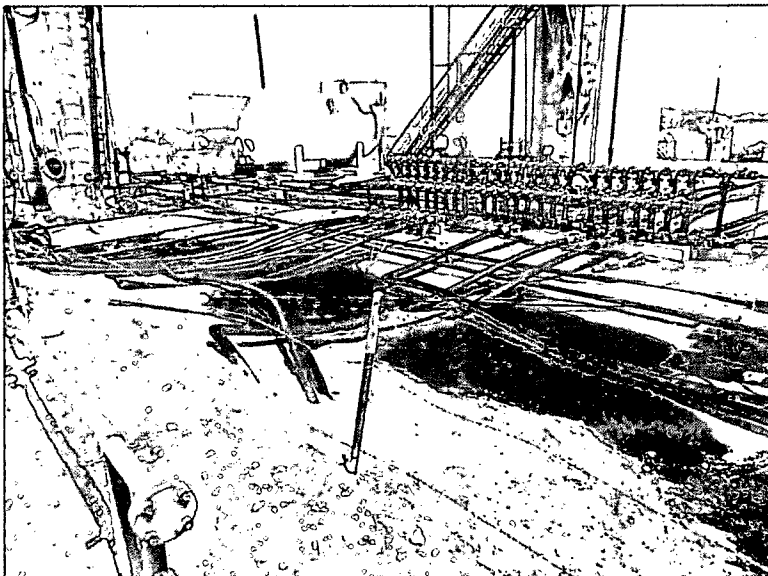
Initial release area, facing southwest

7/2/13



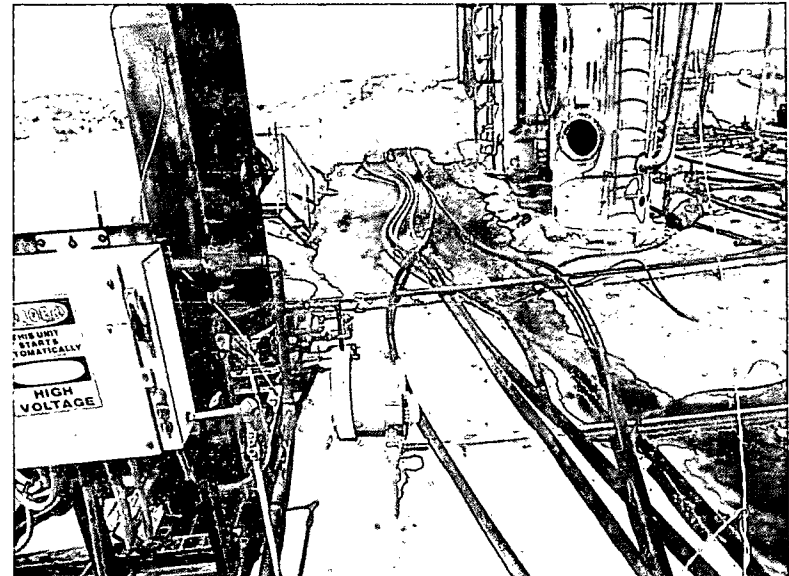
Initial release area, facing northeast

7/2/13



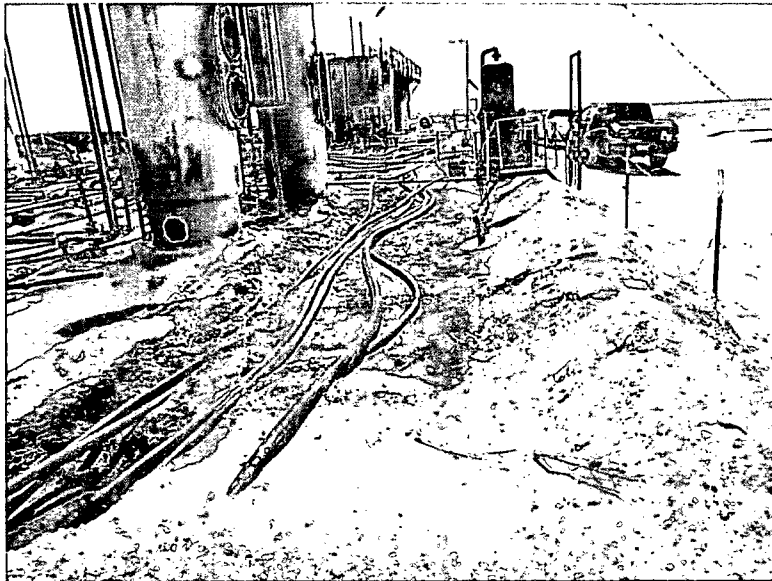
Initial release area, facing northwest

7/2/13



Initial release area, facing west

7/2/13



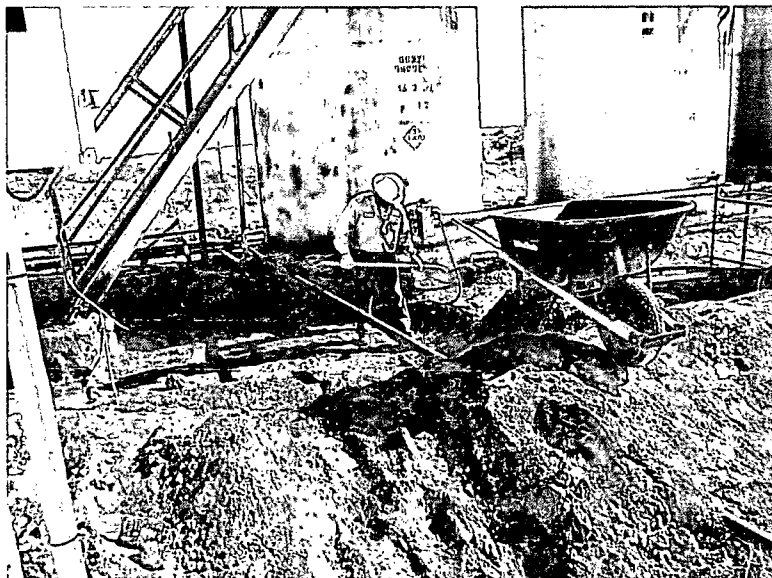
Initial release area, facing northeast

7/2/13



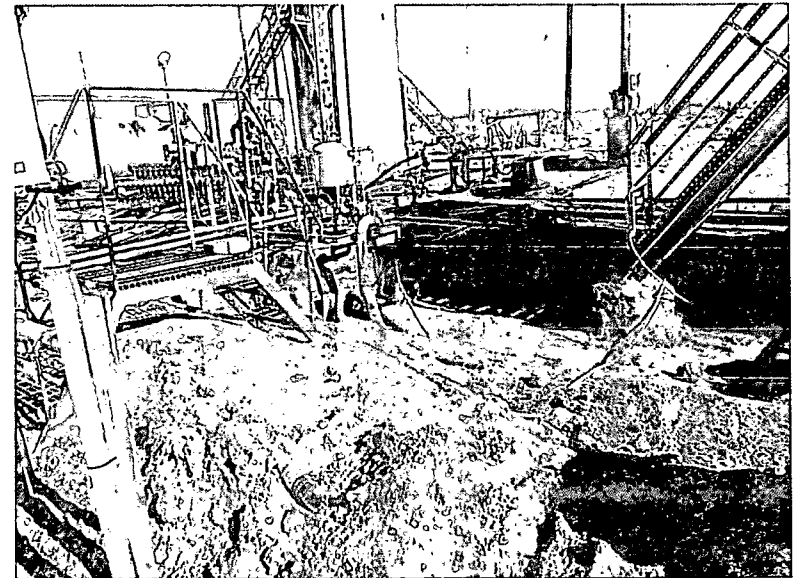
Excavating site by hand, facing southwest

7/19/13



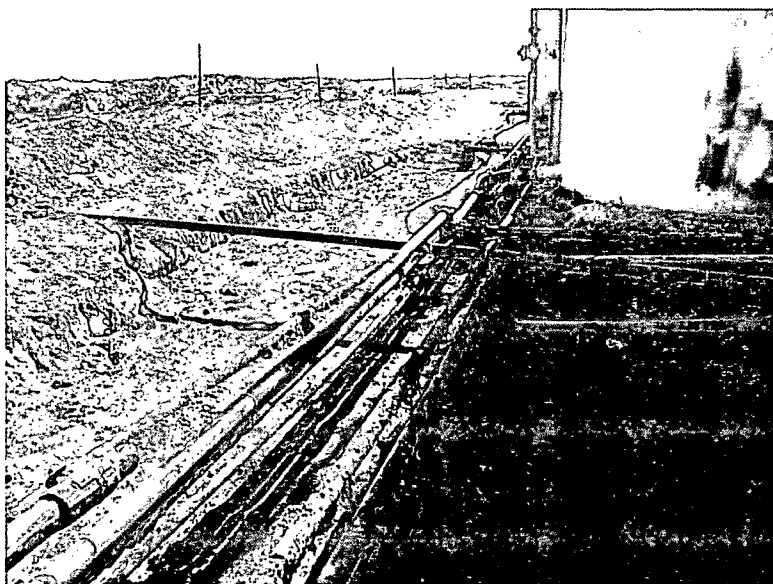
Excavating the site by hand, facing north

7/19/13



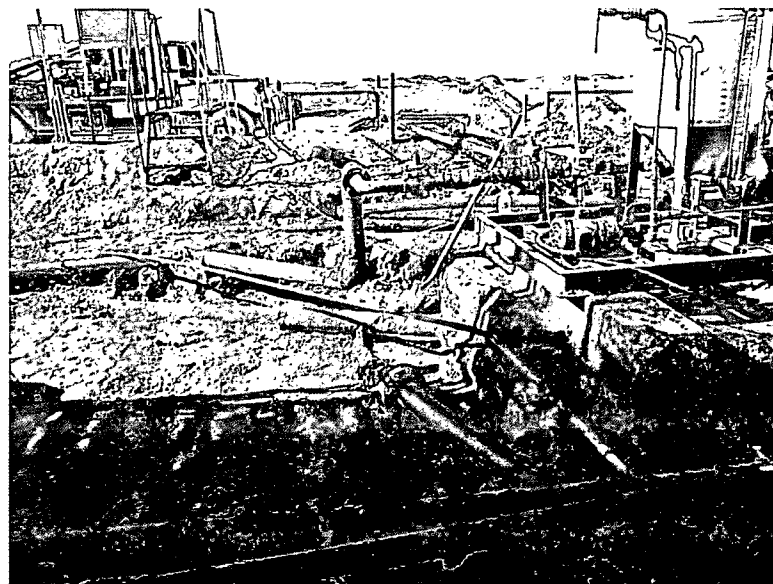
Excavation completed, facing northwest

7/19/13



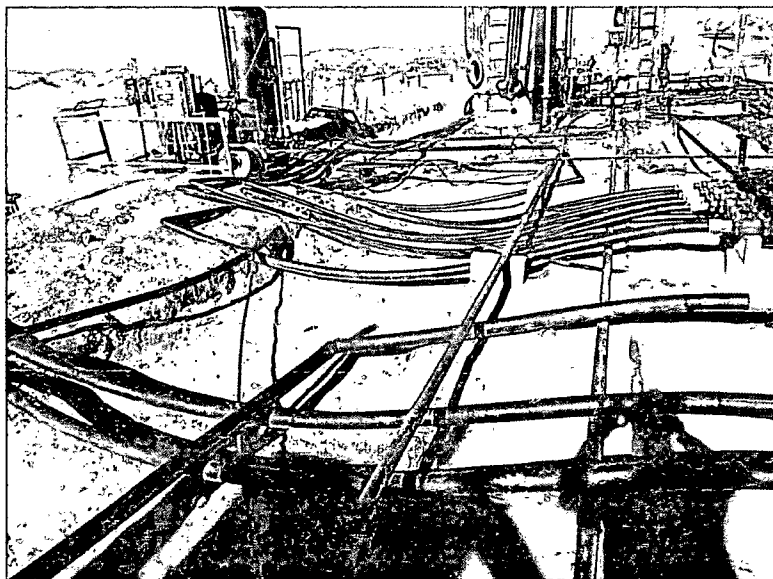
Excavation completed, facing east

7/19/13



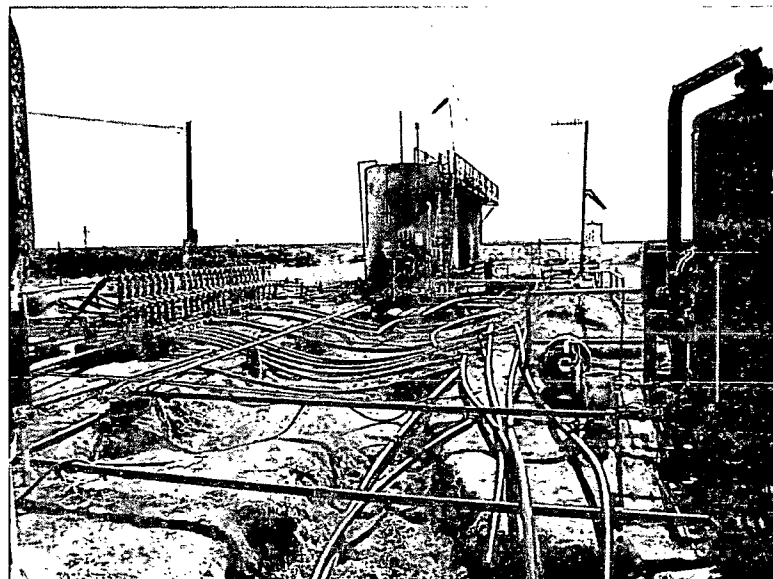
Excavation completed, facing south

7/19/13



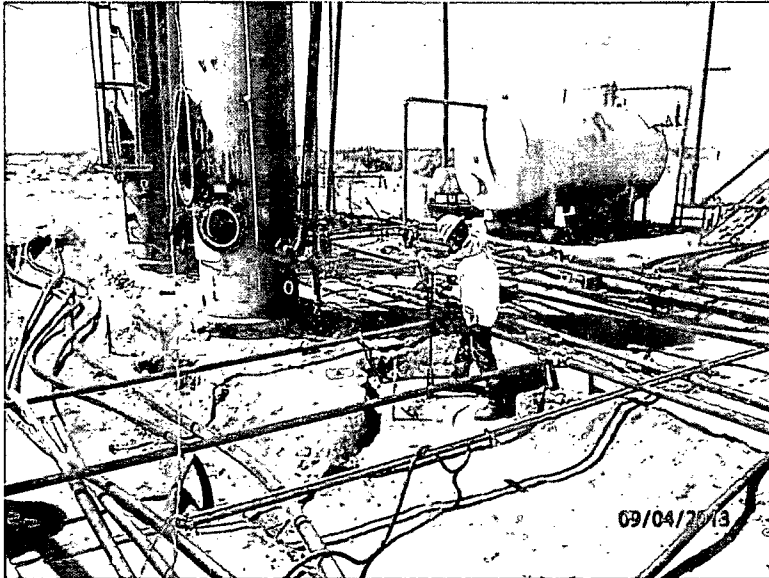
Excavation completed, facing west

7/19/13

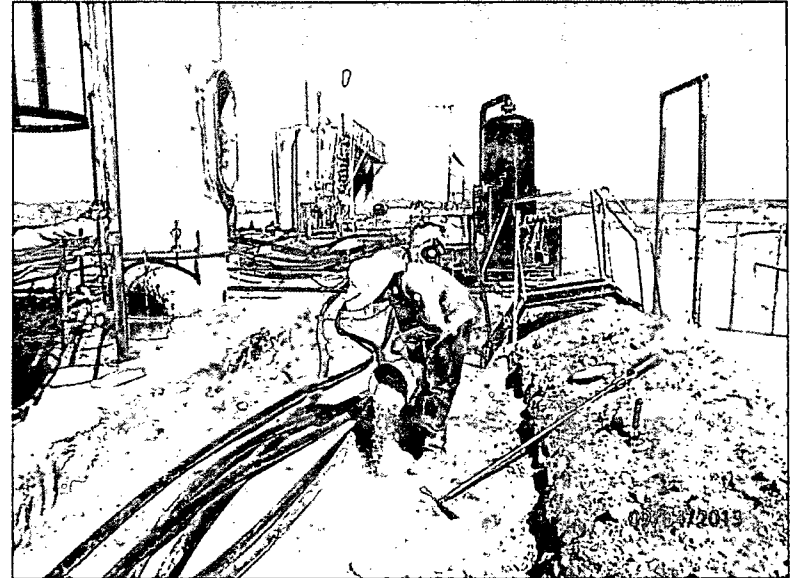


Excavation completed, facing east

7/19/13



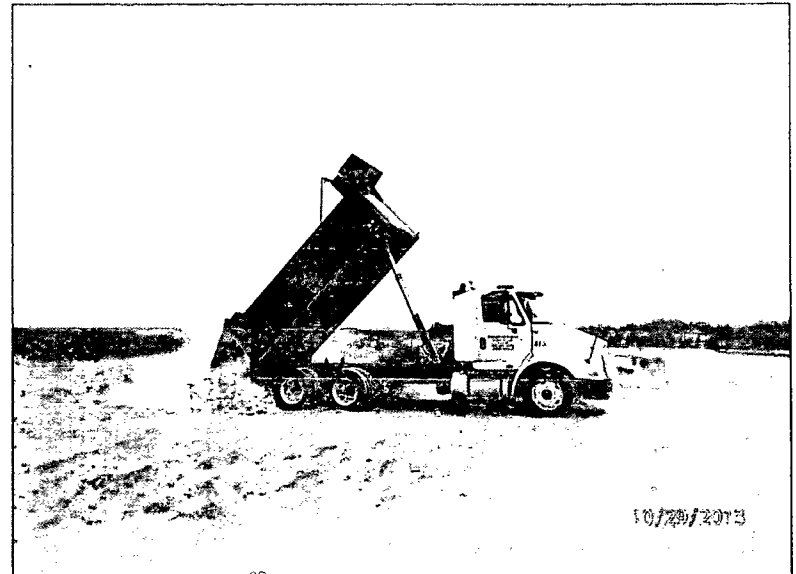
Hand auguring for depth, facing northwest 9/4/13



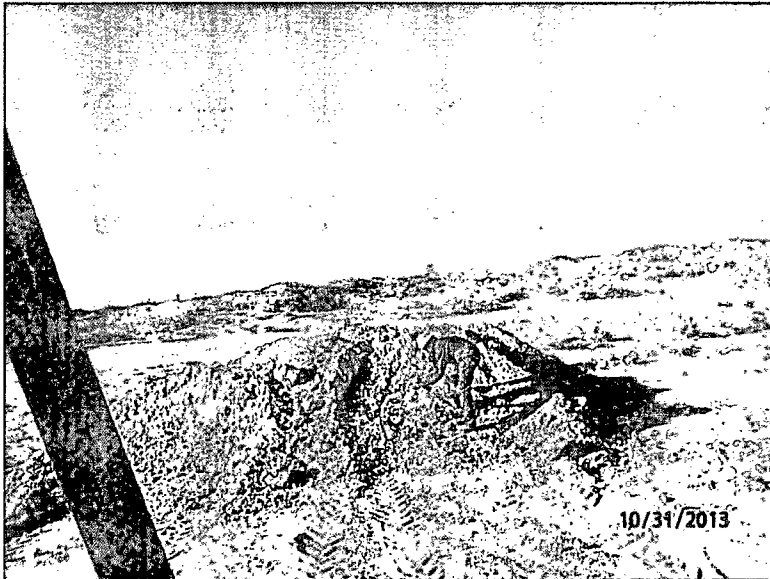
Plugging auger point in total with bentonite, facing east 9/4/13



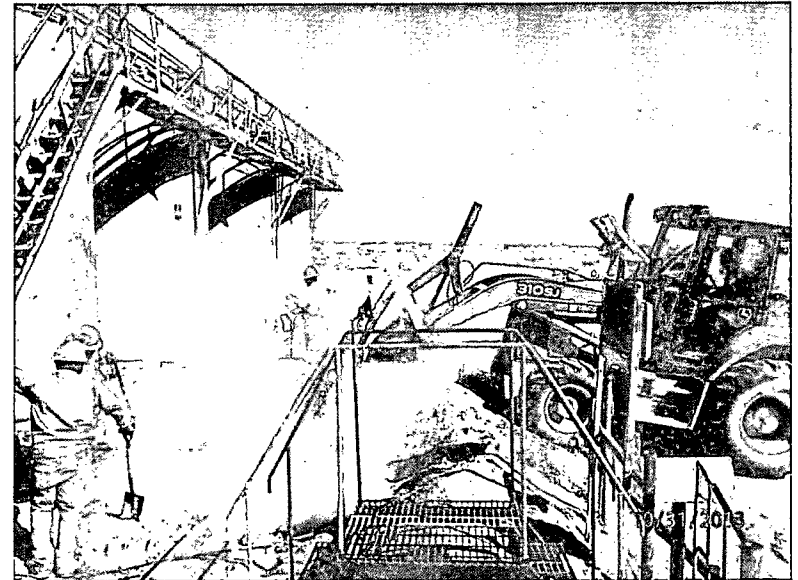
Hand spotting gas line, facing south 9/11/13



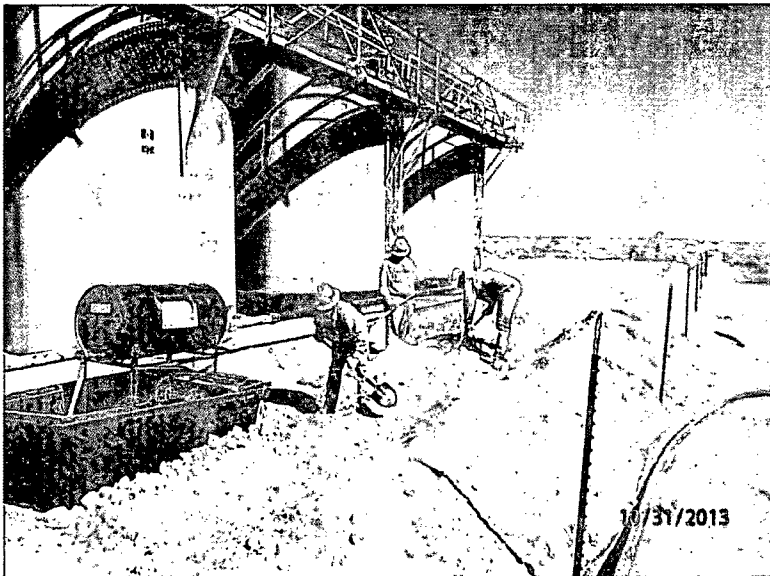
Importing caliche, facing northwest 10/29/13



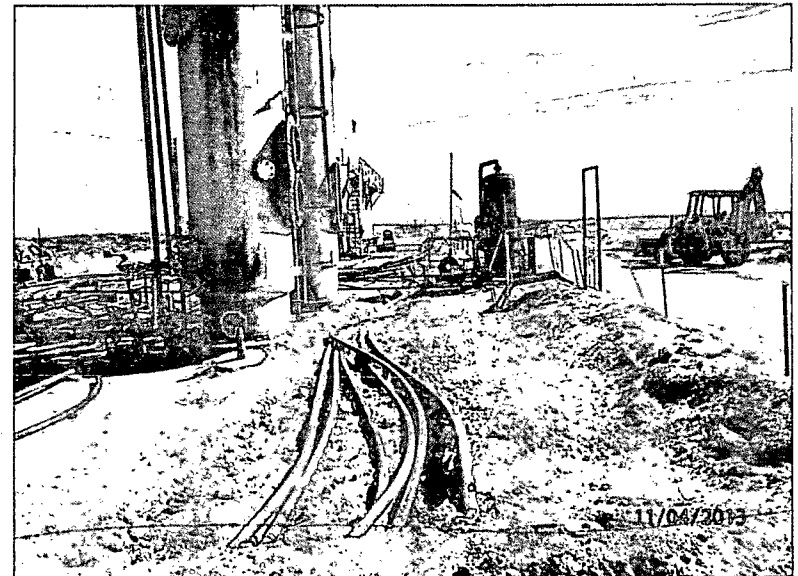
Collecting imported soil sample, facing west 10/31/13



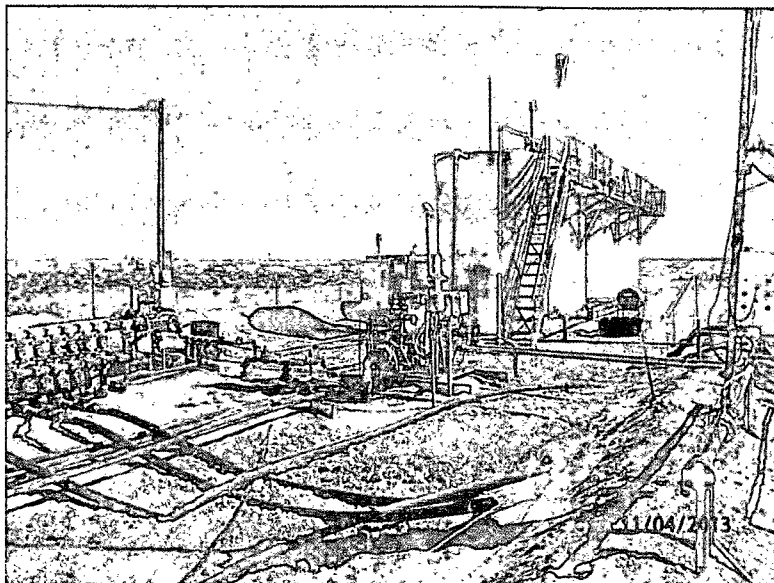
Backfilling site, facing east 10/31/13



Backfilling site, facing northeast 10/31/13

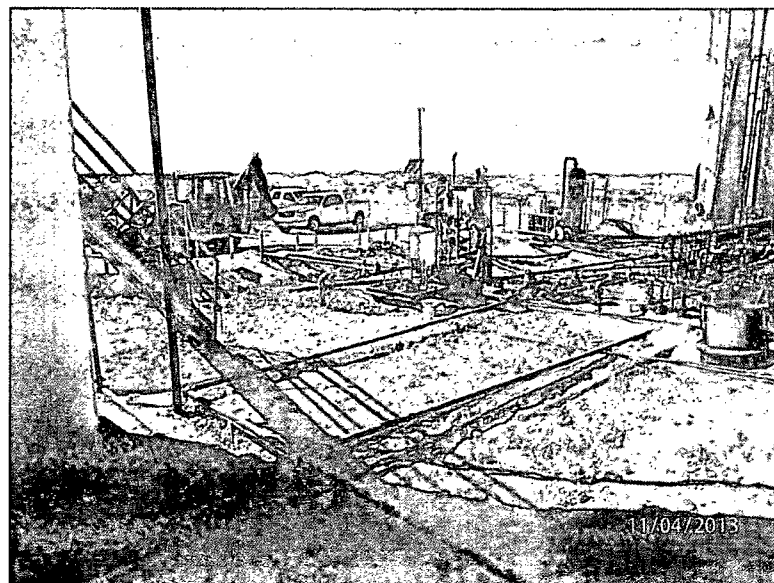


Backfill completed, facing west 11/4/13



Backfill completed, facing northeast

11/4/13



Backfill completed, facing southwest

11/4/13

Appendix E

Final 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
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

Form C-141
Revised August 8, 2011

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.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Linn Operating	Contact	Brian Wall
Address	2130 W. Bender, Hobbs, NM 88240	Telephone No.	(806) 367-0645
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
F	10	17S	31E	2085	North	1980	West	Eddy

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	7/1/13 10:10 am	Date and Hour of Discovery	7/1/13 10:10 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	M. Bratcher – NMOCD Mike Burton - BLM		
By Whom?	Rick Rickman	Date and Hour	7/1/13 10:30 am		
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.*				RECEIVED	
				DEC 10 2013	
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.				NMOCD ARTESIA	

Describe Area Affected and Cleanup Action Taken.* 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. 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. 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. The site was backfilled with the caliche and contoured to the surrounding location.

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: <u>Fred B Wall</u>		OIL CONSERVATION DIVISION	
Printed Name: Brian Wall		Approved by Environmental Specialist:	
Title: Construction Foreman II		Approval Date:	Expiration Date:
E-mail Address: Bwall@linenergy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/9/13 Phone: (806) 367-0645			

* Attach Additional Sheets If Necessary