

Linn Energy, Government N #002 Battery

CLOSURE REPORT

API No. 30-025-23122

1RP-3551

Unit Letter N, Section 19, Township 20 South, Range 34 East

APPROVED By OCD; Dr. Oberding at 1:06 pm, Apr 08, 2015

March 26, 2015

Prepared by:

Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396

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Government N #002 Battery

1 INTRODUCTION

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located south of Maljamar, NM, in Lea County. The leak site resulted from the dumps not operating on the heater. A C-141 (Appendix I) was submitted to the NMOCD on March 02, 2015.

2 SITE ACTIVITIES

On March 05, 2015 DFSI personnel delineated vertically in the leak area. Field samples were taken on three sample points, each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples were taken to Cardinal Labs of Hobbs to obtain confirmation samples. The results are attached (Appendix V).

On March 23, 2015, DFSI personnel returned to the site to start excavation. The impacted soil at sample point (SP) 1 was removed to 2' below ground surface; SP2 was removed to 1'bgs and SP3 was removed to 3'bgs. All contaminated soil was hauled to a BLM/NMOCD approved facility.

DFSI personnel returned to the site on March 24, 2015, to backfill the excavated area with fresh caliche. The area was also compacted and returned to its normal state. Photographs are attached (Appendix II).

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than 240'bgs indicating no potential threat to groundwater or life forms.

Appendix I

INITIAL FORM C-141

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.

1220 S. St. FIAI	uis Dr., Saina	4 FC, INIVI 87303		Sa	anta Fe, NI	<u>M 875</u>	505			
			Relea	ase Notifica	ation and	d Co	rrective Ac	ction		
					OPE	ERAT	'OR	\boxtimes	Initial	Report 🗌 Final Report
Name of Co	ompany I	Linn Operati	ng Inc.		Cont	act	E.L. Gonzales			
Address 2	130 W Be	nder Blvd H	Iobbs, NI	ví 88240	Tele	phone]	No. 575-738-1	739		-
Facility Name Government N #002 Battery					Facil	ity Tyj	be Battery			
Surface Ow	ner Fede	eral		Mineral C	Dwner				API No	. 30-025-23122
				LOCA	TION OF	REL	EASE			
Unit Letter N	Section 19	Township 20S	Range 34E	Feet from the 590	North/South South		Feet from the 1913	East/Wes Wes		County Lea
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				NATI	URE OF H	RELF	ASE			
Type of Rele	ase Oil			• •	Vo	lume of	f Release 15 bbl	s V	olume I	Recovered 13 bbls
Courses of De	loogo Lloo	ton			Da	to and I	Inum of Occurrence		ata and	I I and af Diagonatur

NATURE (DF RELEASE		
Type of Release Oil	Volume of Release 15 bbls	Volume Re	ecovered 13 bbls
Source of Release Heater	Date and Hour of Occurrence		lour of Discovery
	02/28/2015	02/28/2015	5 10:30am
Was Immediate Notice Given?	If YES, To Whom?		
🛛 Yes 🗌 No 🗋 Not Required	Aaron Hickert		
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.	
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.* Arriving at le a little on tank. There was only gas coming out of line at that time. The pro- kimray 1/2 turn to try and release pressure on heater. Pressure dropped do	essure of heater was 30psi and both of		
Describe Area Affected and Cleanup Action Taken.* Oil was in firewall	at battery. Had vac truck suck up at	ny standing fli	aid and return to tank.
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations.	otifications and perform corrective ac NMOCD marked as "Final Report" e contamination that pose a threat to	ctions for relea does not relie ground water,	ases which may endanger we the operator of liability surface water, human hcalth
Signature:	<u>OIL CONSER</u>	VATION I	DIVISION
Printed Name: E.L. Gonzales	Approved by Environmental Speciali	ist:	
Title: Production Supervisor	Approval Date:	Expiration D	late:
	Conditions of Approval:		Attached
Date: 03/02/2015 Phone: 505-504-8002	· · · · · · · · · · · · · · · · · · ·		
Attach Additional Sheets If Necessary			

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Spill Release Form

Appendix II

SITE PHOTOS

Linn Energy, Government N #002 Battery

Unit Letter N, Section 19, T20S R34



Sign marking location 10/26/13



Spill location with sample point



Spill Location with sample point



Excavating spill area



Excavating spill area



Excavated area



Excavated Area



Backfilled area, closure pic



Backfilled area, closure pic



Backfilled area, closure pic

Appendix III

SITE MAP

Site Diagram



Appendix IV

LABORATORY ANALYSES



March 10, 2015

BOB AKEN

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: GOVERNMENT N #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/05/15 13:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	03/05/2015	Sampling Date:	03/05/2015
Reported:	03/10/2015	Sampling Type:	Soil
Project Name:	GOVERNMENT N #2 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 4' (H500613-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	<0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	85.2 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.2 9	52.1-17	6						

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 whatscever 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, whot limitation, business interruptions, loss of gronts incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	03/05/2015	Sampling Date:	03/05/2015
Reported:	03/10/2015	Sampling Type:	Soil
Project Name:	GOVERNMENT N #2 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 4' (H500613-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	<0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	82.7 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.0 \$	52.1-17	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	03/05/2015	Sampling Date:	03/05/2015
Reported:	03/10/2015	Sampling Type:	Soil
Project Name:	GOVERNMENT N #2 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 5' (H500613-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	<0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	85.4 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.2 9	52.1-17	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Project Manager A 12 Drovby	BILL TO	ANALYSIS REQUEST
Project Manager: MMRC BUCTON	P.O. #:	
Address:	Company: LINN ENERSCO	
City: State: Z	Zip: Attn: Bob 4Ken	
Phone #: Fax #:		
Project #: Project Owner:		
Project Name:	State: Zip:	
vernment v #2	*	
Sampler Name: THOM COMP	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	DUNDWATER DUNDWATER STEWATER DGE ER . DGE ER . COOL ER	1774 19-1-8
2010		
17 OC 05 C	# C GR WA SOI OIL SLL OTH ACI ICE OTH	
59.305	ACI ACI ACI ACI ACI ACI ACI ACI	
	GR WA X SOI OIL SLL OTF ACI X 3-5-15 9 X 3-5-15 10 X 3-5-15 10	
PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any cl analyses. All claims incluring those for negligence and any other cause whatsoever shall be deem service. In no event shall Cardinal be liable for incidential or consequential damages, including with antiliates or successors amining out of or related to the performance of services the security for any client	## GR / // / // / // / // / // / // / // / // //	
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FLEASE NotE: Liability and Damages Cardna's lability and clearls exclusive remedy for any classification including those for negligence and any other cause vinduces. In no event shall Causing the label for including under cause vinduces, including with artifiates or successors animo out of or related to the performance of services hereworker by Causin Relinquished By: Relinquished By: Date: R Relinquished By: Time: R Delivered By: (Circle One) Time:	(i) # (i) G U Tri A U Tri A I X I X I X I X I X I X I X I X I X I X I I X I I X I I X I I I X I I I I I X I <	Ves D No A

#3

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REDUCEST

Appendix V

FINAL C-141

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.

API No. 30-025-23122

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Linn Operating Inc.	Contact E.L. Gonzales		
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 575-738-1739		
Facility Name Government N #002 Battery	Facility Type Battery		

Surface Owner Federal

LOCATION OF RELEASE

Mineral Owner

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County		
Ν	19	205	34E	590	South	1913	West	Lea		

Latitude 32.552971798298 Longitude -103.601948239229

NATURE OF RELEASE

Type of Release Oil	Volume of Release 15 bbls	Volume Recovered 13 bbls						
Source of Release Heater	Date and Hour of Occurrence	Date and Hour of Discovery						
	02/28/2015	02/28/2015 10:30am						
Was Immediate Notice Given?	If YES, To Whom?							
Yes 🗌 No 🗌 Not Required	Aaron Hickert							
By Whom?	Date and Hour							
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.							
🗌 Yes 🖾 No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.* Arriving at location at 10:30, I noticed that oil had spilled out of gas line and onto ground and								
a little on tank. There was only gas coming out of line at that time. The pressure of heater was 30psi and both dumps were not operating. I opened the								
kimray 1/2 turn to try and release pressure on heater. Pressure dropped down to about 2 psi.								
Describe Area Affected and Cleanup Action Taken.* Oil was in firewall at battery. Had vac truck suck up any standing fluid and return to tank.								
On March 05, 2015 DFSI personnel delineated vertically in the leak area. Field samples were taken on three sample points, each sample was tested for								
	chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field							
samples were taken to Cardinal Labs of Hobbs to obtain confirmation sam								
returned to the site to start excavation. The impacted soil at sample point (
SP3 was removed to 3'bgs. All contaminated soil was hauled to a BLM/N								
2015, to backfill the excavated area with fresh caliche. The area was also	compacted and returned to its normal	state. Photographs are attached (Appendix						
II).								
I hereby certify that the information given above is true and complete to the	a best of my knowledge and understa	and that pursuant to NMOCD rules and						
regulations all operators are required to report and/or file certain release n								
public health or the environment. The acceptance of a C-141 report by the								
should their operations have failed to adequately investigate and remediate								
or the environment. In addition, NMOCD acceptance of a C-141 report d								
federal, state, or local laws and/or regulations.								
	OIL CONSERV	VATION DIVISION						
800//								
Signature: Jangala								
	Approved by Environmental Specialis	st:						
Printed Name: <u>E.L. Gonzales</u>								
Title: Production Supervisor	pproval Date: Expiration Date:							
	approvar Date.							
E-mail Address: elgonzales@linnenergy.com	Conditions of Approval:							
· · ·		Attached						
Date: 03/30/2015 Phone: 505-504-8002								

* Attach Additional Sheets If Necessary