



CMU #035

CLOSURE REQUEST

API No. 30-025-00665

Release Date: October 14, 2015

Unit Letter B, Section 24, Township 17 South, Range 32 East

NMOCD Case #: 1R-3932

June 7, 2017

Prepared by:

Michael Burton

Environmental Department

Diversified Field Service, Inc.

206 W. Snyder

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

Olivia Yu
Environmental Specialist
NM Oil Conservation District – Division 1
1625 N French Drive
Hobbs, NM 88240

**RE: Linn Energy CMU B #035 Truck Spill
Closure Request**
UL/B, Section 24, T17S, R32E
API No. 30-025-00665
NMOCD Case #: 1R-3932
NMOCD Score: 0

Ms. Yu,

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. On October 14, 2015, the spill resulted from an illegal unloading of produced water on the ground. An initial C-141 was submitted to the NMOCD on October 20, 2015, and approved on October 21, 2015 (Appendix I).

Site Activities

On October 19, 2015, DFSI personnel were on site to obtain samples within the leak area. Four samples were obtained and field sampled for chloride levels, as well as BTEX (Appendix II). The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation, resulting in chloride and TPH concentrations that decreased to below regulatory limits at 1' bgs. BTEX concentrations were below regulatory guidelines throughout (Appendix III).

As this location site was no longer in active production, DFSI personnel completed reclamation activities by removing the caliche pad and underlying topsoil (Appendix IV). After the excavation was completed, the excavation was backfilled with the removed caliche. The remainder of the excavation was backfilled with the excavated topsoil to ground surface and contoured to the surrounding area. As per SLO requirements, the site was seeded with a blend of native vegetation, of which did not include lovegrass within the LPC seed mix (Appendix V).

Conclusion

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer and Chevron Trend Map, the average depth to groundwater is approximately 125 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix VI). Based on the report and work completed, DFSI, on behalf of Linn, submits the final C-141 (Appendix VII) and respectfully requests the closure of this regulatory file.

Please feel free to contact me with any questions concerning this closure request.

Sincerely,



Michael Burton
Environmental Operations Director | Diversified Field Service, Inc.
206 West Snyder | Hobbs, NM 88240
Office: (575)964-8394 | Mobile: (575)390-5454
Fax: (575)964-8396 | Email: mburton@diversifiedfsi.com

cc Amber Groves, SLO

Appendices: Initial C-141
 Soil Data
 Laboratory Analysis
 Site Photos
 Seeding Documentation
 Groundwater Study
 Final C-141

Appendix I

INITIAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Linn Operating Inc.	Contact	E.L. Gonzales
Address	2130 W Bender Blvd Hobbs, NM 88240	Telephone No.	575-738-1739
Facility Name	CMU B #35 Truck Spill	Facility Type	Injection
Surface Owner	Federal	Mineral Owner	
		API No.	30-025-00665

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	24	17S	32E	660	North	1980	East	Lea

Latitude 32.8254471 Longitude -103.7177887

NATURE OF RELEASE

Type of Release	Produced Water / BS	Volume of Release	50 bbls / 10bbls	Volume Recovered	0 / 0
Source of Release	Vac Truck unloaded on to ground	Date and Hour of Occurrence	10/14/2015	Date and Hour of Discovery	10/14/2015 1:00pm
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
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.*

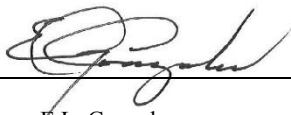

RECEIVED

By JKeyes at 7:37 am, Oct 21, 2015

Describe Cause of Problem and Remedial Action Taken.* At approximately 1 pm I was eastbound on Mescalero when I noticed produced water running off to the highway. I then pulled up to where I found where the spill had started. I then realized that the spill was caused by a Vac Truck that had illegally unloaded a load on to the ground.

Describe Area Affected and Cleanup Action Taken.* The spill ran south of the CMU 35 approximately 300 Ft. about 50-80 barrels of fluid was spilt. Sheriffs were notified.

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: 	OIL CONSERVATION DIVISION		
Printed Name: E.L. Gonzales	Approved by Environmental Specialist: 		
Title: Production Supervisor	Approval Date: 10/21/2015	Expiration Date: 12/21/2015	
E-mail Address: elgonzales@linenergy.com	Conditions of Approval: Discrete site samples required. Delineate and remediate per NMOCD guidelines.		Attached <input type="checkbox"/> 1RP 3932
Date: 10/20/2015	Phone: 505-504-8002		

* Attach Additional Sheets If Necessary

Geotagged photos of remediation required.

nJXK1529427257
pJXK1529427353

Appendix II

SOIL DATA

SP1									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	554	2.9							
1'	47	0.3	<16	<10	<10	<0.05	<0.05	<0.05	<0.15
2'	87	2.6	32	<10	<10	<0.05	<0.05	<0.05	<0.15

SP2									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	543	23.6	560	<10	42.4	<0.05	<0.05	<0.05	<0.15
1'	56	0.5	80	<10	<10	<0.05	<0.05	<0.05	<0.15

SP3									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	570	8.4							
1'	60	1.7	32	<10	<10	<0.05	<0.05	<0.05	<0.15
2'	86	0.9	80	<10	12.5	<0.05	<0.05	<0.05	<0.15

SP4									
Depth	Cl-	PID	Lab Cl-	GRO	DRO	B	T	E	X
SS	1,606	28.2							
1'	138	1.5	48	<10	<10	<0.05	<0.05	<0.05	<0.15
2'	527	0.9	464	<10	<10	<0.05	<0.05	<0.05	<0.15

Appendix III

LABORATORY ANALYSIS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

October 22, 2015

BOB AKIN

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #35

Enclosed are the results of analyses for samples received by the laboratory on 10/19/15 8:20.

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/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:

 LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 1 @ 1' (H502716-01)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500Cl-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	10/20/2015	ND	352	88.0	400	12.8		

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	<10.0	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 1 @ 2' (H502716-02)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	<10.0	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 89.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 2 @ SURFACE (H502716-03)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	42.4	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 80.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 2 @ 1' (H502716-04)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

Chloride, SM4500CI-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	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	<10.0	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 84.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.9 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 3 @ 1' (H502716-05)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	<10.0	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 79.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.5 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 3 @ 2' (H502716-06)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500CI-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	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	12.5	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 79.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.1 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 4 @ 1' (H502716-07)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/20/2015	ND	352	88.0	400	12.8	

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	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	<10.0	10.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 82.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.5 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BOB AKIN
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 10/19/2015
 Reported: 10/22/2015
 Project Name: CMU #35
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE POINT 4 @ 2' (H502716-08)

BTX 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	10/21/2015	ND	2.17	108	2.00	0.0254	
Toluene*	<0.050	0.050	10/21/2015	ND	1.97	98.7	2.00	0.668	
Ethylbenzene*	<0.050	0.050	10/21/2015	ND	1.94	97.2	2.00	1.19	
Total Xylenes*	<0.150	0.150	10/21/2015	ND	6.37	106	6.00	1.45	
Total BTX	<0.300	0.300	10/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/20/2015	ND	352	88.0	400	12.8	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	<10.0	10.0	10/21/2015	ND	210	105	200	6.00	

Surrogate: 1-Chlorooctane 81.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.0 % 52.1-176

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

101 East Mariand, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Linn Openbury</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																															
Project Manager:		Company: <u>Linn Openbury</u>																																													
Address:		Attn:																																													
City:		Address:																																													
State:		City:																																													
Zip:		State:																																													
Phone #:		Fax #:																																													
Project #:		Project Owner:																																													
Project Name: <u>Linn</u>		State:																																													
Project Location: <u>Cmy 35</u>		Phone #:																																													
Sampler Name: <u>Chris Flores</u>		Fax #:																																													
FOR LAB USE ONLY		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		BTEX		Tph													
H502714		Sample Point 1C 1'		G 1		1		✓																		10-16-2015		4:05PM		X		X		X													
2		Sample Point 1C 2'		G 1		1		✓																				4:10PM		X		X		X													
3		Sample Point 2C Surface		G 1		1		✓																				3:40PM		X		X		X													
4		Sample Point 2C 1'		G 1		1		✓																				3:45PM		X		X		X													
5		Sample Point 3C 1'		G 1		1		✓																				3:25PM		X		X		X													
6		Sample Point 3C 2'		G 1		1		✓																				3:30PM		X		X		X													
7		Sample Point 4C 1'		G 1		1		✓																				3:05PM		X		X		X													
8		Sample Point 4C 2'		G 1		1		✓																				3:10PM		X		X		X													
PLEASE NOTE: Liability and claims are excluded for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 interruption, 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 categories of obligation.		Relinquished By: <u>[Signature]</u>		Date: <u>10/19/15</u>		Received By: <u>[Signature]</u>		Time: <u>8:00</u>		Sample Condition: <u>5.42</u>		CHECKED BY: <u>[Signature]</u>		REMARKS: <u>email to: lcrensaw@diversifiedsi.com</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <u>mbarber@mptherson@cflores@</u>		Add'l Fax #: <u></u>																									
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		Time:		Received By:		Time:		Sample Condition: <u>5.42</u>		CHECKED BY: <u>[Signature]</u>		REMARKS: <u>email to: lcrensaw@diversifiedsi.com</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <u>mbarber@mptherson@cflores@</u>		Add'l Fax #: <u></u>																									

Appendix IV

SITE PHOTOS

CMU #035

Photo Page



Lease sign marking location



Location with evidence of tank spill



Blending soil on pad for reclaim



Flipping and tilling location



Location reclaimed before seeding



Seeding pasture area where tank spilled- after blending



Area seeded, reclaimed



Area seeded, reclaimed



Seeding reclaimed area on old pad



Area seeded, reclaimed

Appendix V

SEEDING DOCUMENTATION

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

4500 North Prince
Clovis, NM 88130
Phone: (575) 762-4759
www.curtisseed.com

Lot#: M-13361-2

<u>Item</u>	<u>Origin</u>	<u>Purity</u>	<u>Germ</u>	<u>Dormant</u>	<u>Total Germination</u>	<u>Test Date</u>	<u>Total PLS Pounds</u>
Plains Bristlegrass VNS	Oklahoma	13.99%	15.00%	81.50%	96.00%	03/15	2.50
Sideoats Grama El Reno	Texas	4.57%	98.00%	0.00%	98.00%	09/15	2.50
Little Bluestem Aldous	Missouri	8.48%	91.00%	4.00%	95.00%	09/15	1.50
Big Bluestem Kaw	Missouri	17.34%	86.00%	7.00%	93.00%	06/15	3.00
Coreopsis Plains	Colorado	1.99%	847.00%	6.00%	90.00%	09/15	1.00
Sand Dropseed VNS	New Mexico	2.80%	34.00%	62.00%	96.00%	06/15	0.50
Four Wing Saltbush VNS	New Mexico	7.35%	22.00%	39.00%	61.00%	04/15	2.50
Other Crop:	0.06%	There Are 1 Bags For This Mix			Total Bulk Pounds:		
Weed Seed:	0.02%	This Bag Weighs 18.61 Bulk Pounds					
Inert Matter:	15.60%	Use This Bag For 1/2 Acres					
						19	

Appendix VI

GROUNDWATER STUDY

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)


(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
RA 11911 POD1			LE	1	3	1	24	17S	32E	619192	3632296		35	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Section(s): 13, 14, 23, 24, **Township:** 17S **Range:** 32E
25, 26

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/6/17 2:52 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
L 02770		L	LE			2	18	17S	33E	621836	3634093*	216	179	37
L 02770 S2		L	LE	2	2	3	18	17S	33E	621338	3633583*	214	184	30
L 02770 S3		L	LE	2	2	3	18	17S	33E	621338	3633583*	220	202	18
L 03726		L	LE	1	2	2	18	17S	33E	621930	3634400*	208	188	20
L 12974 POD1		L	LE	3	4	3	18	17S	33E	621233	3632940	140	130	10
RA 11936 POD1			LE	1	4	1	19	17S	33E	621246	3632321	92		
RA 11937 POD1			LE	1	4	1	19	17S	33E	621244	3632281	95		
RA 11957 POD1			LE	3	4	1	19	17S	33E	621177	3632200	55		

Average Depth to Water: 176 feet

Minimum Depth: 130 feet

Maximum Depth: 202 feet

Record Count: 8

PLSS Search:

Section(s): 18, 19, 30

Township: 17S

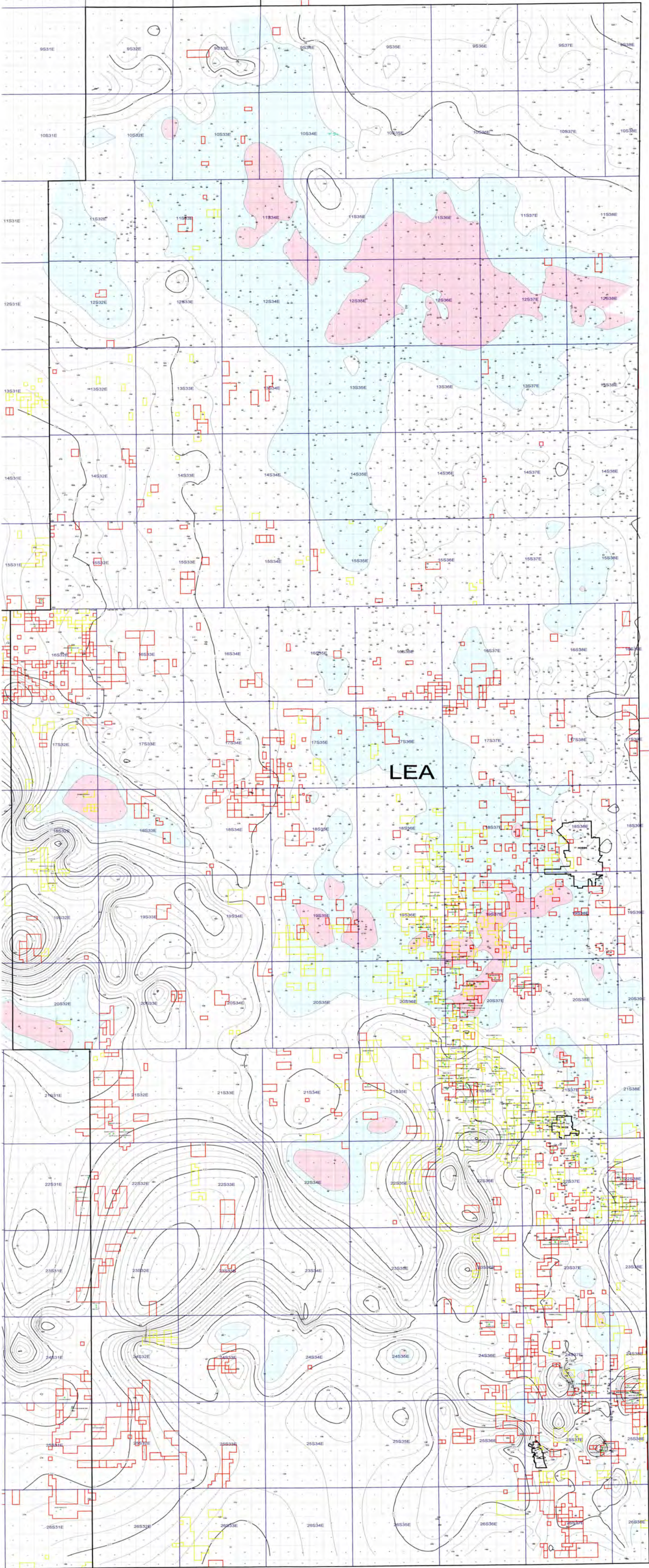
Range: 33E

*UTM location was derived from PLSS - see Help


The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/6/17 2:52 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Map Scale: 1 inch = 1 mile



N

ChevronTexaco

Lea Co. Depth To Ground Water
Water Wells
Facilities

Maple Avenue	20000
Scale 1:50000	20000

Appendix VII

FINAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Linn Energy	Contact: Aaron Hickert
Address: 2130 W Bender, Hobbs, NM 88240	Telephone No. 432-363-9496
Facility Name: CMU B #035 Truck Spill	Facility Type: Injection

Surface Owner: State	Mineral Owner:	API No. 30-025-00665
----------------------	----------------	----------------------

LOCATION OF RELEASE

Unit Letter B	Section 24	Township 17S	Range 32E	Feet from the 660	North/South Line North	Feet from 1980	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-------------------	------------------------	---------------

Latitude: 32.8254471 Longitude: -103.7177887

NATURE OF RELEASE

Type of Release: Produced Water / BS	Volume of Release: 50 bbls / 10 bbls	Volume Recovered: 0 bbls / 0 bbls
Source of Release: Vacuum Truck Unloaded	Date and Hour of Occurrence 10/14/2015	Date and Hour of Discovery 10/14/2015 1:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.*

Noticed produced water running off to the highway. The spill was caused by a vacuum truck that had illegally unloaded a load on the ground.

Describe Area Affected and Cleanup Action Taken.

On October 19, 2015, DFSI personnel were on site to obtain samples within the leak area. Four samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation, resulting in chloride and TPH concentrations that decreased to below regulatory limits at 1' bgs. BTEX concentrations were below regulatory guidelines throughout. As this location site was no longer in active production, DFSI personnel completed reclamation activities by removing the caliche pad and underlying topsoil. After the excavation was completed, the excavation was backfilled with the removed caliche. The remainder of the excavation was backfilled with the excavated topsoil to ground surface and contoured to the surrounding area. As per SLO requirements, the site was seeded with a blend of native vegetation, of which did not include lovegrass within the LPC seed mix.

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: 	OIL CONSERVATION DIVISION		
Printed Name: Aaron Hickert	Approved by Environmental Specialist:		
Title: Sr EH&S Representative	Approval Date:	Expiration Date:	
E-mail Address: ahickert@linnenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 05/31/2017 Phone: 432-363-9496			

* Attach Additional Sheets If Necessary