



# Linn Energy Skelly #26

## CLOSURE REPORT

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API No. 30-015-05157

Release Date: October 04/04/2012

Unit Letter J, Section 15, Township 17 South, Range 31 East

RP# 2RP-1115

BLM Event# NU12109TG

October 6, 2014

**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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## APPENDICES

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# Skelly #26

## 1 INTRODUCTION

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

The site is located south west of Maljamar NM, Unit letter 'O', sec. 15, T17S R31E, in Eddy County. The incident at this site location was as the result of an injection line leak. There existed an approximate impact in volume of 30bbl of produced water. The fluids were generated from the injection line leak at the well head, traversing westward across the lease road to the pasture area. There was a combined impact of approximately 4,687 sq. ft. of impact to pad, and lease road inclusive of pasture area. (Figure).

A form C-141 was submitted to the NMOCD on January 14, 2013 2RP-1115 (Appendix I)

## 2 SITE ACTIVITIES

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On February 12, 2014 DFSI personnel paid an initial visit to the site in order to map the spill area and delineate the site. Four (4) sample points were established: SP1 located at the leak source, SP2 at point of impact on the lease road, SP3 west of lease road in pasture area and SP4 at end point of leak in the pasture. Using a hand auger, soil samples were collected at 1ft. bgs. intervals, and field tested using a Mini Rae Photoionization Detector (PID). SP1 was sampled to a depth of 11 ft. bgs., whereby auger refusal was encountered. The chloride return at that depth was 474 mg/kg. SP2 was tested to a depth of 1ft. bgs., SP3 was hand augured to 4ft. bgs. , whereby chlorides remained elevated. SP4 indicated acceptable Chloride levels at surface (Appendix IV field analyses).

On February 19, 2014 representative soil samples were retrieved of Sample points Two thru Four and sent to a commercial laboratory for confirmation. The following is a recap of the analyses:

SP2 @ 1ft. bgs. returned Chlorides of 224 mg/kg.

SP3 @ 5ft. bgs. returned Chlorides of 528 mg/kg.

SP3 @ 6 ft. bgs. returned confirmation of acceptable regulatory levels of Chlorides at 288 mg/kg.

SP4 @ 1ft. bgs. returned Chlorides of 32.0 mg/kg.

On February 26, 2014 DFSI personnel revisited the site to confirm delineation of SP1, since prior analysis indicated elevated Chloride levels. Representative soil samples were retrieved of Sample Point 1, and sent to a commercial laboratory for confirmation. The following is a recap of the results:

SP1 @ 10.5 ft. bgs. returned Chlorides of 848 mg/kg.

SP1 @ 11.5 ft. bgs. returned Chlorides of 512 mg/kg (confirming field delineation).

On March 04, 2014 DFSI submitted to the NMOCD and BLM a written proposal to remediate the above site. The proposal was to excavate SP1 and SP3 to 4ft. bgs., install a 20 mil liner at SP1. Inclusive of removing all visual staining and impacted soils to an NMOCD approved facility. Backfill with fresh topsoil and reseed the pasture area.

On March 18, 2014 The BLM approved the said plan to remediate the site. In addition to fresh backfill it was authorized to utilize surrounding terrain for backfill.

On June 17, 2014 excavation activities were complete. And, on same said date representative sidewall soil samples were retrieved and sent to a commercial laboratory in order to confirm vertical delineation. The following is a recap of that analyses:

SW1 North returned BTEX of <.300 mg/kg., Chlorides <16.0 mg/kg, GRO and DRO were non-detect.  
SW2 South returned BTEX of <.300 mg/kg., Chlorides 48.0 mg/kg, GRO and DRO were non-detect.  
SW3 East returned BTEX of <.300 mg/kg., Chlorides <16.0 mg/kg, GRO and DRO were non-detect.  
SW4 West returned BTEX of <.300 mg/kg., Chlorides 16.0 mg/kg, GRO and DRO were non-detect.

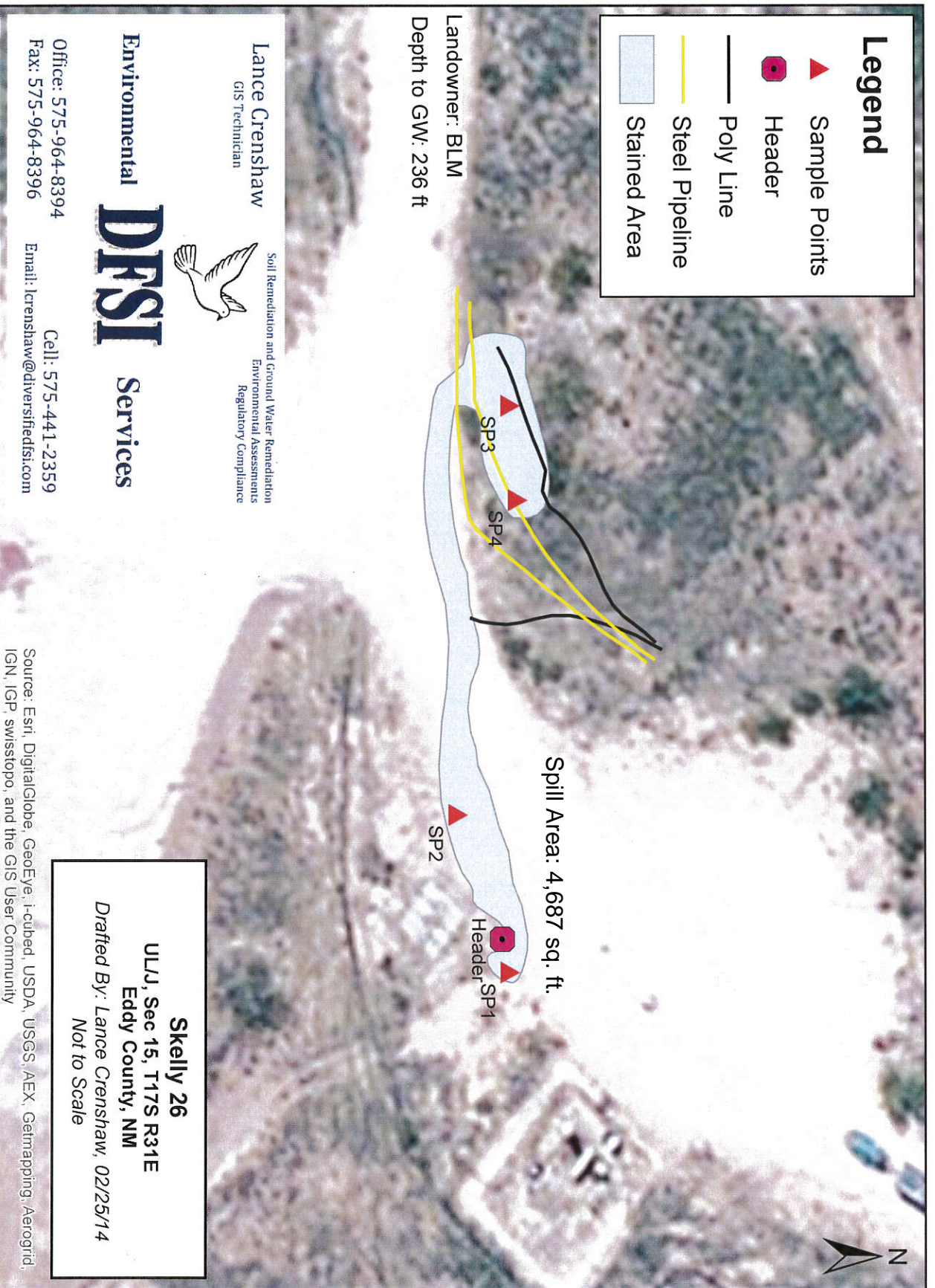
Photographs of site activities can be viewed in Appendix II.

### **3 CONCLUSION**

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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 236 ft. bgs indicating no potential threat to groundwater or life forms (Appendix III). On June 23, 2014 the site backfilling activities were complete. The site was seeded with 25 lbs. of native Lesser Prairie Chicken seed mixture and contoured to surrounding pasture area. Based on the removal of soils containing elevated chlorides and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141 (Appendix V), and respectfully requests the closure of the regulatory file for the site.

# Excavation Plat



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

APR 20 2012

Form C-141  
Revised October 10, 2003

Submit Copy to appropriate District Office in accordance with 19 15 29 NMAC

NMOCD ARTESIA

Release Notification and Corrective Action

NMLB1212856542

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating	269324	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240		Telephone No.: 575-738-1739
Facility Name: Skelly #26		Facility Type: Injection

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001505157
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LOCATION OF RELEASE

Unit Letter J	Section 15	Township 17S	Range 31E	Feet from the 1880	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
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Latitude: 32.832511956535 Longitude: -103.855428013811

NATURE OF RELEASE

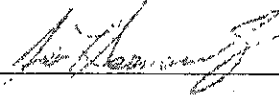
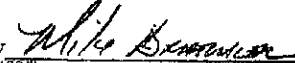
Type of Release: Produced Water	Volume of Release: 30	Volume Recovered: 0
Source of Release: Pipeline-steel	Date and Hour of Occurrence 04/04/2012 9:30am	Date and Hour of Discovery: 04/04/2012 10am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher-NM OCD Terry Gregston-BLM	
By Whom? Joe Hernandez	Date and Hour 04/04/2012 1pm	4/5 4:34P
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.\*: Drove to location to check wells and found injection line leaking, shut in line

Describe Area Affected and Cleanup Action Taken.\*: Pending remedial action.

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: Joe Hernandez	Signed By 	
Title: Production Foreman	Approved by District Supervisor:	
E-mail Address: jhernandez@linenergy.com	MAY 07 2012	Expiration Date:
Date: 04/20/2012 Phone: 575-942-9492	Approval Date:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

Conditions of Approval:  
Remediation per OCD Rules &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NOT LATER THAN:  
6/7/2012

2RP-1115

**Bratcher, Mike, EMNRD**

---

**From:** Theresa McCracken [TMcCracken@linnenergy.com]  
**Sent:** Friday, April 20, 2012 10:27 AM  
**To:** Bratcher, Mike, EMNRD; Terry Gregston (tgregsto@blm.gov)  
**Cc:** Daniel Frick; Ron Ragland  
**Subject:** Linn- Skelly 26 Initial C141  
**Attachments:** Skelly #26 Initial C141 4-4-12.pdf

Please find attached the initial C-141 for the above referenced location.

Thank you,

*Theresa McCracken*

LINN Operating  
2130 W. Bender Blvd  
Hobbs, NM 88240  
(575)738-1739  
[tmccracken@linnenergy.com](mailto:tmccracken@linnenergy.com)



**Linn Operating Inc., Skelly #26**  
**Section 15, T17S R31E**



Sign marking site 02/04/14



Impacted area 2013



Excavation of Impact 02/25/2014



Hand excavation 06/10/14



**Linn Operating Inc., Skelly #26**  
**Section 15, T17S R31E**



Excavated area at completion 06/17/14



Excavated pasture area 06/17/14



Seeded Pasture area at completion 06/28/14

# GROUND WATER SEARCH

Linn Energy Skelly #26

UL: J

Sec: 15

T: 17S

R: 31E

Groundwater Depth: 236 ft.

- = NM Office of the State Engineer
- = U.S. Geological Survey (unknown well)
- ✗ = Site Location

Date: 02/12/14

By: Rebecca Pons

	16S 30E	16S 31E	16S 32E	
	17S 30E	17S 31E	17S 32E	
	18S 30E	18S 31E	18S 32E	

Date: 2/19/2014  
2/12/2014

SPT	CHL
Surface	4548
1'	2449
2'	499
2'	374
3'	949
4'	2449
5'	2174
6'	799
7'	1024
8'	1098

SPT	CHL
SP2	CHL
Surface	249
1'	224
2'	524
1'	524

SPT	CHL
Surface	549
5'	528
6'	228
1'	228

SPT	CHL
Surface	424
1'	32
1'	249

SP5	CHL

SP6	CHL

SP7	CHL

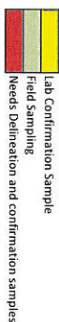
SP8	CHL

SP9	CHL

SP10	CHL

[illegible][illegible]

March 04, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #26

Enclosed are the results of analyses for samples received by the laboratory on 02/26/14 15:25.

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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 02/26/2014  
Reported: 03/04/2014  
Project Name: SKELLY UNIT #26  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/26/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 10.5 (H400584-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/04/2014	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 11.5 (H400584-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/04/2014	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celest 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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\* = Accredited Analyte

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---

Celest D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

[illegible]



Skelly 2/6

LINN Energy

2/12/14

sample ID	g soil	g water	ml sample	Agd	CL	PID	Time
SP. 1 @ surface	16	40	10	1.82	546	1.3	1:55
SP. 2 @ surface	16	40	10	.1	249	1.3	1:56
SP. 3 @ surface	16	40	10	.22	549	0.9	1:57
SP. 3 @ surface	16	40	10	.17	424	1.1	1:58






Refer to Site Diagram



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

[illegible]

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Relinquished By: 		Date: 6/12/14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:
Relinquished By: 		Time: 4:14	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:
Relinquished By: 		Date:	Received By:	REMARKS:		
Relinquished By: 		Time:	Received By:	E-mail Results To: Ngladden@diversifiedfsi.com Rpons@diversifiedfsi.com Tjennings@diversifiedfsi.com		
Delivered By: (Circle One)		4.00c		Sample Condition		
Sampler - UPS - Bus - Other:		#51		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		
				Yes <input type="checkbox"/> No <input type="checkbox"/>		
				Checked By: (Initials) KP		





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

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June 19, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #26

Enclosed are the results of analyses for samples received by the laboratory on 06/12/14 16:14.

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](http://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  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received:	06/12/2014	Sampling Date:	06/11/2014
Reported:	06/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: SW 1 NORTH (H401804-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTX	<0.300	0.300	06/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/18/2014	ND	416	104	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	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/12/2014	Sampling Date:	06/11/2014
Reported:	06/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: SW 2 EAST (H401804-02)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEx	<0.300	0.300	06/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/18/2014	ND	400	100	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	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/12/2014	Sampling Date:	06/11/2014
Reported:	06/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: SW 3 WEST (H401804-03)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEx	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2014	ND	400	100	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	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	

Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/12/2014  
Reported: 06/19/2014  
Project Name: SKELLY UNIT #26  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/11/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SW 4 SOUTH (H401804-04)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEx	<0.300	0.300	06/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/18/2014	ND	400	100	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	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	

Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

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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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Lin Energy</u>		P.O. #:		BILL TO											
Project Manager: <u>Brian Wall</u>		Company: <u>Lin Energy</u>		ANALYSIS REQUEST											
Address:		Attn: <u>Brian Wall</u>													
City:		Address:													
State:		City:													
Zip:		State:													
Phone #:		Phone #:													
Fax #:		Fax #:													
Project #:		Project Owner:													
Project Name: <u>Sidewall samples</u>		City:													
Project Location: <u>Sidewall 26</u>		State:													
Sample Name: <u>W. A. W.</u>		Zip:													
FOR LAB USE ONLY		Matrix													
Lab I.D. <u>440180</u>		Sample I.D.													
SW1 North		(G)RAB OR (C)OMP.													
SW2 East		# CONTAINERS													
SW3 West		GROUNDWATER													
SW4 South		WASTEWATER													
		SOIL													
		OIL													
		SLUDGE													
		OTHER:													
		ACID/BASE:													
		ICE / COOL													
		OTHER:													
		DATE													
		TIME													
		CL													
		TOD													
		BTEX													

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Relinquished By:

Date:

Received By:

Date:

Time:

Relinquished By:

Date:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☐ Intact ☐  
Yes ☐ No ☐

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:  
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

E-mail Results To:  
Ngladden@diversifiedfsi.com  
Rpons@diversifiedfsi.com  
Tjenings@diversifiedfsi.com



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

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June 23, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #26

Enclosed are the results of analyses for samples received by the laboratory on 06/17/14 16:40.

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](http://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  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received:	06/17/2014	Sampling Date:	06/17/2014
Reported:	06/23/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SW 1 NORTH (H401843-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2014	ND	2.12	106	2.00	0.456	
Toluene*	<0.050	0.050	06/19/2014	ND	2.26	113	2.00	0.332	
Ethylbenzene*	<0.050	0.050	06/19/2014	ND	2.04	102	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/19/2014	ND	6.39	106	6.00	1.76	
Total BTX	<0.300	0.300	06/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/18/2014	ND	400	100	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	06/21/2014	ND	161	80.6	200	0.473	
DRO >C10-C28	<10.0	10.0	06/21/2014	ND	185	92.3	200	0.868	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.5 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/17/2014	Sampling Date:	06/17/2014
Reported:	06/23/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SW 2 SOUTH (H401843-02)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2014	ND	2.12	106	2.00	0.456	
Toluene*	<0.050	0.050	06/19/2014	ND	2.26	113	2.00	0.332	
Ethylbenzene*	<0.050	0.050	06/19/2014	ND	2.04	102	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/19/2014	ND	6.39	106	6.00	1.76	
Total BTX	<0.300	0.300	06/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/18/2014	ND	400	100	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	06/21/2014	ND	161	80.6	200	0.473	
DRO >C10-C28	<10.0	10.0	06/21/2014	ND	185	92.3	200	0.868	

Surrogate: 1-Chlorooctane 97.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	06/17/2014	Sampling Date:	06/17/2014
Reported:	06/23/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SW 3 EAST (H401843-03)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2014	ND	2.12	106	2.00	0.456		
Toluene*	<0.050	0.050	06/19/2014	ND	2.26	113	2.00	0.332		
Ethylbenzene*	<0.050	0.050	06/19/2014	ND	2.04	102	2.00	1.48		
Total Xylenes*	<0.150	0.150	06/19/2014	ND	6.39	106	6.00	1.76		
Total BTEx	<0.300	0.300	06/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/18/2014	ND	400	100	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	06/21/2014	ND	161	80.6	200	0.473	
DRO >C10-C28	<10.0	10.0	06/21/2014	ND	185	92.3	200	0.868	

Surrogate: 1-Chlorooctane 94.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/17/2014	Sampling Date:	06/17/2014
Reported:	06/23/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SW 4 WEST (H401843-04)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2014	ND	2.12	106	2.00	0.456	
Toluene*	<0.050	0.050	06/19/2014	ND	2.26	113	2.00	0.332	
Ethylbenzene*	<0.050	0.050	06/19/2014	ND	2.04	102	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/19/2014	ND	6.39	106	6.00	1.76	
Total BTEx	<0.300	0.300	06/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2014	ND	400	100	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	06/21/2014	ND	161	80.6	200	0.473	
DRO >C10-C28	<10.0	10.0	06/21/2014	ND	185	92.3	200	0.868	

Surrogate: 1-Chlorooctane 81.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 63.6-154

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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

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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

[illegible]

# Diversified Field Services, Inc.

## Reclamation Form

Site Name: Skelly Unit 26

Legal Description: \_\_\_\_\_

Start Date: 6-28-14

Completion Date: 6-28-14

**Step 1** Remove caliche and/or all discolored material (soil, caliche, et al) for disposal.

**Step 2** Look for any discolored material under pad. Sample and perform field tests. If above limits, remove 1' and resample and test. If sample is still above limits, contact Environmental director before proceeding further.

**Step 3** Grid clean area and establish between 2 and 5 sample points.

**Step 4** Take appropriate samples and run field tests on samples.

**Note:** If any samples come back higher than allowed limit or are close to limit, contact environmental director before proceeding.

**Step 5** When field sample tests are shown to be acceptable, backfill and contour soil to depth as required.

**Step 6** Re-seed reclaimed area with seed required by landowner (BLM) and give seed tag to Environmental Office upon completion.

Seed Type: LPC  
Lbs. Used: 25 #

**Step 7** Ensure samples are taken to the appropriate Scientific Lab for analyses and **this form** is Returned to the Environmental Office upon job completion.

**Notes:**

Job completed

Supervisor Signature: \_\_\_\_\_

Stephen G. Marsh

# Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Fourwing & Ragweed 650#

INV53965

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Big "Kaw" ( <i>Andropogon gerardii</i> )	16.62%	95.00%	0.00%	0.00%	TX
Bluestem, Little "Cimarron" ( <i>Schizachyrium scoparium</i> )	8.00%	90.00%	8.00%	0.00%	TX
Bluestem, Sand "Woodward" ( <i>Andropogon hallii</i> )	13.80%	95.00%	0.00%	0.00%	TX
Bristlegrass, Plains, "VNS" ( <i>Setaria vulpiseta</i> )	14.48%	90.00%	0.00%	0.00%	TX
Coreopsis Plains ( <i>Coreopsis tinctoria</i> )	5.39%	97.00%	0.00%	0.00%	TX
Dropseed, Sand, "VNS" ( <i>Sporobolus cryptandrus</i> )	2.68%	95.00%	3.00%	0.00%	TX
Fourwing saltbush, "VNS" ( <i>Atriplex canescens</i> )	15.59%	52.00%	15.00%	0.00%	NM
Ragweed, Western ( <i>Ambrosia L.</i> )	6.79%	9.00%	68.00%	0.00%	KY

Purity: 83.35%

Inert Matter: 10.31%

Other Crop Seed: 6.32%

Weed Seed: 0.02%

Noxious Weeds: None

Test Date: 02/2014

Net Wt: 25.00 lbs



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: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. (575)-738-1739	
Facility Name: Turner Skelly #26	Facility Type: Injection	
Surface Owner Federal	Mineral Owner Federal	API No. 300150515

### LOCATION OF RELEASE

Unit Letter J	Section 15	Township 17S	Range 31E	Feet from the 1880	North/South Line South	Feet from 1980	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-------------------	------------------------	-------------

Latitude: 32.8325111956535 Longitude -103.855428013811

### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 30	Volume Recovered 0
Source of Release: Steel pipeline	Date and Hour of Occurrence 04/04/2012 9:30 AM	Date and Hour of Discovery 04/04/2012 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- Terry Gregston BLM	
By Whom? Joe Hernandez	Date and Hour: 04/05/2012 4:39 PM	
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.* NA		
Describe Cause of Problem and Remedial Action Taken.* Production Foreman drove to the location and discovered injection line leaking and shut in the well.		
Describe Area Affected and Cleanup Action Taken: DFSI was retained to fully remediate the site according to NMOCD and BLM guidelines and respectfully request closure of this incident.		
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.		
<b>OIL CONSERVATION DIVISION</b>		
Signature: <i>Fred B Wall</i>	Approved by Environmental Specialist:	
Printed Name: Brian Wall		
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	
Date: 09/17/2014 Phone: 806-367-0645	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary