

Linn Energy Skelly Unit #33

CLOSURE REPORT

2RP-2045

API No. 30-0105140

Release Date: 10/04/2013

Unit Letter M, Section 14, Township 17 South, Range 31 East

March 25, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

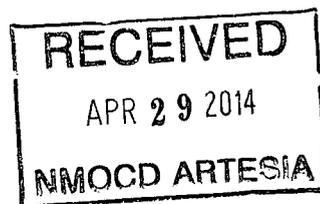


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Figure – Site Diagram with Sample Data

APPENDICES

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Appendix II – Site Photographs

Appendix III – Groundwater Data

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Appendix V- Seed Report

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Skelly Unit #33

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 west of Maljamar NM, in Eddy County. The leak site resulted from a produced water leak from a compromised collar on a 2" steel line. The line rupture released produced water onto approximately 3,500 square feet of the well pad, and pasture land to the southwest of the pad. A vacuum truck recovered approximately 10 bbls of the standing fluids. The collar and joint were replaced. An initial form C-141 was submitted to the NMOCD on November 06, 2013 (Appendix I).

2 SITE ACTIVITIES

On October 04, 2013, DFSI personnel collected surface soil samples from the site (Figure). The samples were field screened for chloride and showed elevated levels in all 6 of the sample points. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Simultaneous field testing at SP6 revealed acceptable levels at 1ft bgs, Chloride was 224 mg/kg. This area was excavated to 1ft bgs. The remainder of sample points (SP1-SP5), indicated significantly higher levels of impact at depths of 7 to 18ft bgs. Samples were sent to a commercial laboratory for confirmation. SP1 thru SP5 returned Chloride levels of 1574 mg/kg to 5923 mg/kg respectively.

On January 05, 2013 DFSI personnel notified the NMOCD and BLM respectively of the plans to excavate the site. Whereby, written approval was received to excavate SP1 thru SP5 to 4ft bgs., and install a 20 mil. liner. However, the BLM requested an excavated floor sample verification of SP3 prior to lining. The lab returned a confirmed finding, in that SP3 was indicating a decline in Chloride 3560 mg/kg, at 4ft bgs. (Appendix IV). Visually impacted soils were excavated throughout the entire leak area and removed to a NMOCD approved disposal facility. TPH totaled less than 10.0 mg/kg GRO and less than 10.0 mg/kg DRO, and BTEX totaled less than 0.300 mg/kg in all samples. Photographs of site activities can be viewed in Appendix II.

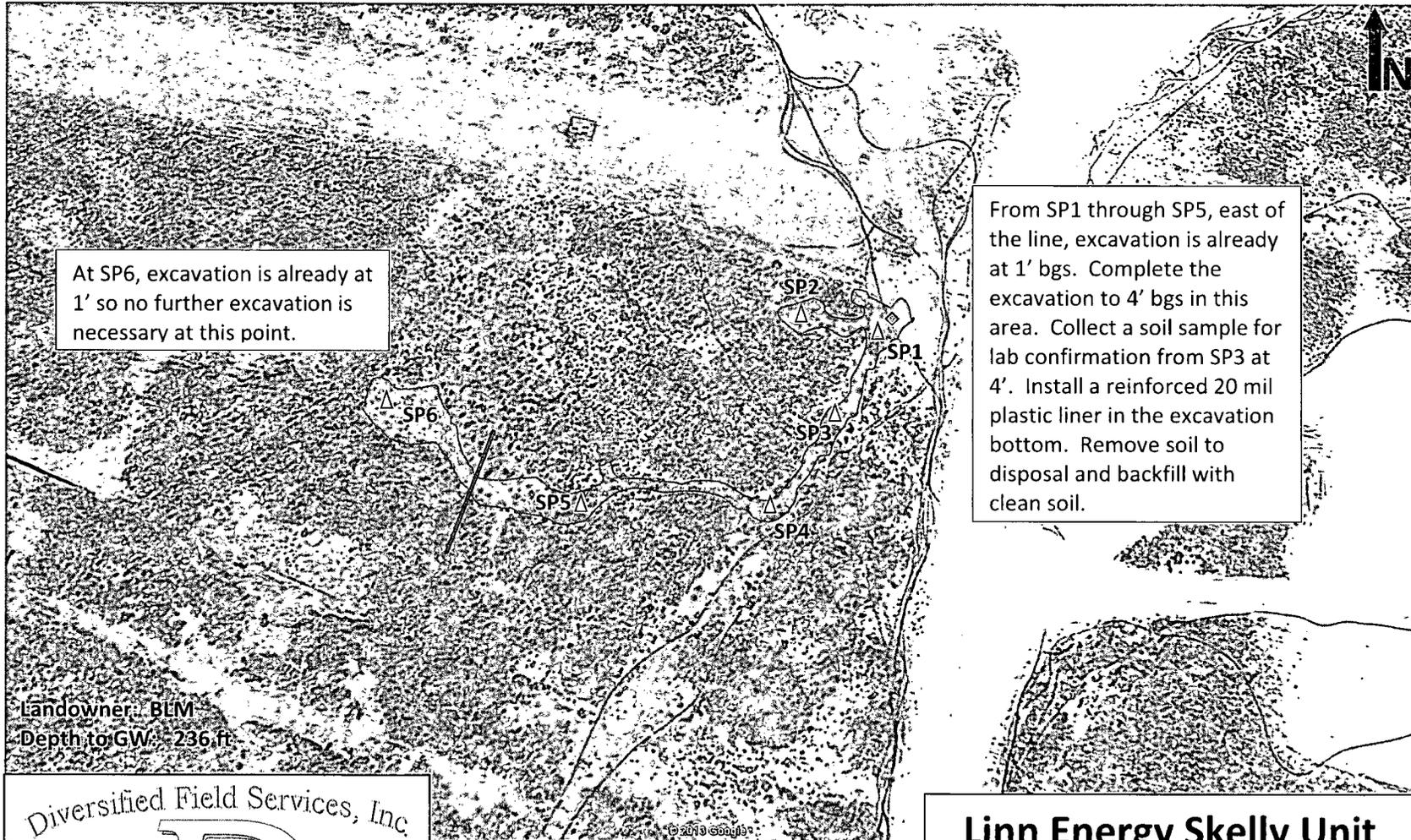
DFSI submitted a backfill request to NMOCD and NM BLM. On January 06, 2013, NMOCD and BLM representatives approved backfill of the excavation with the aforementioned conditions. The excavated area on the well pad was backfilled with imported caliche and leveled. The

pasture excavation was backfilled with imported topsoil and the site was contoured to the surrounding landscape. On February 27, 2014, the site was seeded with 125 lbs. of Lesser Prairie Chicken seed mix per BLM requirements.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 236 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride 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 Diagram



At SP6, excavation is already at 1' so no further excavation is necessary at this point.

From SP1 through SP5, east of the line, excavation is already at 1' bgs. Complete the excavation to 4' bgs in this area. Collect a soil sample for lab confirmation from SP3 at 4'. Install a reinforced 20 mil plastic liner in the excavation bottom. Remove soil to disposal and backfill with clean soil.

Landowner: BLM
Depth to GW: 236 ft

Diversified Field Services, Inc.

D

C.C. & Co, LLC

J & M Welding and Fabrication, Inc.

Diversified Construction

Legend

- Stained Area (total 3,500 ft²)
- ◆ Leak Source
- △ Sample Point

Linn Energy Skelly Unit #33

UL/M, Sec 14, T17S R31E
Eddy County, NM

Drafted By: A.C. Ruth, 2/5/14
Not to Scale

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

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
NOV 01 2013
NMOCD ARTESIA

Form C-141
Revised October 10, 2003
Submit to the Appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

nJMW 1331041969

OPERATOR Initial Report Final Report

Name of Company: Linn Operating <i>2089324</i>	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Skelly # 33	Facility Type: Injection
Surface Owner: Federal	Mineral Owner:
API No.: 3001505140	

LOCATION OF RELEASE

Unit Letter M	Section 14	Township 17S	Range 31E	Feet from the 660	North/South Line South	Feet from the 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude: 32.8291697037487 **Longitude:** -103.846783622658

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 130 bbls	Volume Recovered: 10 bbls
Source of Release: Steel Pipeline	Date and Hour of Occurrence: 10/04/2013 8:30am	Date and Hour of Discovery: 10/04/2013 8:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton-BLM Mike Bratcher- NM OCD	
By Whom? Brian Wall	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.*: bad collar on 2" steel line, collar and joint replaced.

Describe Area Affected and Cleanup Action Taken.*: Excavate contaminated soil and remove to an approved disposal.

RECEIVED
APR 29 2014
NMOCD ARTESIA

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

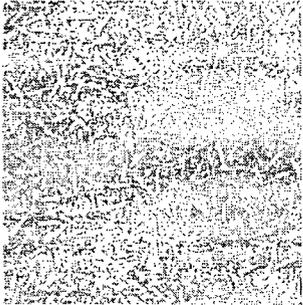
Signature: <i>Brian Wall</i>	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by District Supervisor: Signed By <i>Mike Bratcher</i>	
Title: Construction Foreman II	Approval Date: NOV 06 2013	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/01/2013 Phone: 806-367-0645	Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

* Attach Additional Sheets If Necessary

December 6, 2013
2RP-2045

Bratcher, Mike, EMNRD

From: McCracken, Theresa <TMcCracken@linnenergy.com>
Sent: Friday, November 01, 2013 7:37 AM
To: mburton@blm.gov; Bratcher, Mike, EMNRD
Cc: Callahan, Terry; Moreno, Laura; Butters, Thomas; Golding, Chris; Wall, Fred; smcgee@diversifiedfsi.com; aruth@diversifiedfsi.com; mpatterson@diversifiedfsi.com
Subject: Linn- Skelly #33 10-4-13
Attachments: Skelly #33 10-04-13.pdf



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

Thank you,



Theresa McCracken

Field Administrator

LINN Energy, LLC

2130 W Bender

Hobbs, NM 88240

T: 575-738-1739 / F: 575-738-1740

tmccracken@linnenergy.com

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Appendix II

SITE PHOTOGRAPHS

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

Linn Energy Skelly #33

Unit Letter M, Section 14, T17S R31E



Sign marking location 12/05/13



Spill location SW of lease road 12/05/13



Excavated soil on site 12/05/13



Tilled and seeded site at completion 3/24/14

Appendix III

GROUNDWATER DATA

GROUND WATER SEARCH

Linn Energy Skelly Unit #33

UL: M Sec: 14 T: 17S R: 31E

Groundwater Depth: 236 ft. averaged

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

Date: 12/17/13

By: Amy Ruth

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

65' 260'
 ○ ○ ○ 265'
 288' ○
 314' ○
 295' ○
 248' ○ 275'
 254' ○
 215' ○
 210' ○ 210'
 221' ○
 200' ○

132' ○
 ✕
 17S 31E

65' ○
 430' ○
 98' ○
 44' ○
 460' ○



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 16S Range: 30E

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.

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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	POD			Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Sub-Code	basin	County											
<u>L 03435</u>	L	LE		1	1	05	16S	31E		602954	3646955*			
<u>L 03852</u>	R	L	LE	2	2	2	14	16S	31E	609126	3643913*	370	314	56
<u>L 03852 POD4</u>	L	LE		3	4	3	13	16S	31E	609744	3642516*	333	299	34
<u>L 03852 POD5</u>	L	LE		3	2	13	16S	31E		610238	3643427*	328	295	33
<u>L 03852 X</u>	R	L	LE	4	4	4	13	16S	31E	610749	3642526*	333	299	34
<u>L 03852 X2</u>	L	LE		3	2	2	13	16S	31E	610535	3643733*	330	287	43
<u>L 04671</u>	L	LE		1	1	2	12	16S	31E	610114	3645538*	340	288	52
<u>L 10203</u>	L	LE		4	4	3	14	16S	31E	608334	3642495*	310		
<u>L 10206</u>	L	LE		2	2	23	16S	31E		609045	3642204*	280		

Average Depth to Water: **297 feet**
 Minimum Depth: **287 feet**
 Maximum Depth: **314 feet**

Record Count: 9

PLSS Search:

Township: 16S Range: 31E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(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	POD Sub-		Q Q Q				X	Y	Depth Well	Depth Water	Water Column		
	Code	basin	County	64	16	4						Sec	Tws
<u>L 02381</u>	L	LE	3	1	13	16S	32E	619086	3643515*	308	215	93	
<u>L 02434</u>	L	LE			01	16S	32E	619661	3646531*	337			
<u>L 02449</u>	L	LE			01	16S	32E	619661	3646531*	330	265	65	
<u>L 02617</u>	L	LE	4	4	02	16S	32E	618656	3645924*	322	270	52	
<u>L 02752</u>	L	LE	1	3	26	16S	32E	617521	3639880*	324	280	44	
<u>L 02846</u>	L	LE	4	2	1	11	16S	32E	617956	3645413*	328	275	53
<u>L 02954</u>	L	LE	2	4	03	16S	32E	617043	3646310*	120	65	55	
<u>L 02993</u>	L	LE	3	3	2	15	16S	32E	616572	3643391*	100		
<u>L 03631</u>	L	LE	1	2	02	16S	32E	618240	3647126*	315	250	65	
<u>L 04930</u>	L	LE			1	23	16S	32E	617698	3642092*	307	210	97
<u>L 05494</u>	L	LE			36	16S	32E	619758	3638489*	303	200	103	
<u>L 06557</u>	L	LE	1	4	21	16S	32E	615089	3641466*	295	210	85	
<u>L 06807</u>	L	LE	1	4	4	09	16S	32E	615356	3644383*	290	248	42
<u>L 07823</u>	L	LE	2	2	2	16	16S	32E	615561	3643981*	269	247	22
<u>L 08084</u>	L	LE	1	1	1	16	16S	32E	614157	3643970*	317	260	57
<u>L 08084 POD4</u>	L	LE			2	26	16S	32E	618522	3640492*	303	233	70
<u>L 08084 POD5</u>	L	LE	4	1	4	26	16S	32E	618425	3639788*	296	165	131
<u>L 08084 S3</u>	L	LE			2	26	16S	32E	618522	3640492*	305	205	100
<u>L 08241</u>	L	LE	4	4	02	16S	32E	618656	3645924*	316			
<u>L 10204</u>	L	LE	4	2	2	04	16S	32E	615524	3646993*	319		
<u>L 10205</u>	L	LE	4	1	08	16S	32E	613038	3645066*	330			
<u>L 11189</u>	L	LE	1	1	4	04	16S	32E	614932	3646391*	350		

*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.

Average Depth to Water: 224 feet

Minimum Depth: 65 feet

Maximum Depth: 280 feet

Record Count: 22

PLSS Search:

Township: 16S Range: 32E



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 17S Range: 30E

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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	POD Sub-			Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Code	basin	County											
RA 11590 POD1	ED	2	1	3	32	17S	31E	603315	3628545	158				
RA 11590 POD3	ED	3	1	2	32	17S	31E	603932	3629260	60				
RA 11590 POD4	ED	4	1	1	32	17S	31E	603308	3629253	55				

Average Depth to Water: --
 Minimum Depth: --
 Maximum Depth: --

Record Count: 3

PLSS Search:

Township: 17S Range: 31E

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(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	POD		Q Q Q					X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec						Tws
<u>L 04019</u>	L	LE	4	3	4	02	17S	32E	618468	3636166*	182		
<u>L 04020</u>	L	LE	3	3	4	02	17S	32E	618268	3636166*	200		
<u>L 04021</u>	R	L	3	4	4	02	17S	32E	618670	3636170*	190		
<u>L 04021 POD3</u>	L	LE		3	4	03	17S	32E	616761	3636252*	247		
<u>L 04021 S</u>	L	LE	2	4	4	03	17S	32E	617262	3636354*	260		
<u>L 13047 POD1</u>	L	LE				11	17S	32E	618187	3635254*	140		
<u>L 13050 POD1</u>	L	LE	2	2	1	10	17S	32E	616463	3635945*	156	132	24
<u>RA 08855</u>		LE	4	1	1	10	17S	32E	616061	3635742*	158		
<u>RA 09505</u>		LE	2	2	1	10	17S	32E	616462	3635944	147		
<u>RA 09505 S</u>		LE	2	2	1	10	17S	32E	616463	3635945*	144		
<u>RA 10175</u>		LE		2	1	28	17S	32E	614814	3631005*	158		
<u>RA 11684 POD1</u>		LE	1	1	4	11	17S	32E	618216	3635124	275		
<u>RA 11684 POD2</u>		LE	1	1	4	11	17S	32E	618313	3635248	275		
<u>RA 11684 POD3</u>		LE	3	3	1	11	17S	32E	618262	3635371	275		
<u>RA 11684 POD4</u>		LE	1	3	2	11	17S	32E	618334	3635521	275		
<u>RA 11684 POD5</u>		LE	3	1	4	11	17S	32E	618353	3635047	275		
<u>RA 11734 POD1</u>		LE	2	2	1	10	17S	32E	616556	3635929	165		

Average Depth to Water: **132 feet**
 Minimum Depth: **132 feet**
 Maximum Depth: **132 feet**

Record Count: 17

PLSS Search:

Township: 17S Range: 32E

*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.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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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	POD Sub-Code			basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Code	basin	County													
<u>CP 00818</u>	LE			64	16	4	26	18S	30E			599289	3620364*	240		
<u>CP 00819</u>	LE			2	4	32	18S	30E				594878	3618720*	150		
<u>L 01978</u>	L	LE		1	3	23	18S	30E				598469	3621964*	65	44	21

Average Depth to Water: **44 feet**
 Minimum Depth: **44 feet**
 Maximum Depth: **44 feet**

Record Count: 3

PLSS Search:

Township: 18S Range: 30E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

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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	POD Sub-Code	basin	County	Q 1	Q 2	Q 3	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 11092	L	LE	64	16	4	2	3	15	18S	31E	606849	3623669*	160	98	62

Average Depth to Water: 98 feet
Minimum Depth: 98 feet
Maximum Depth: 98 feet

Record Count: 1

PLSS Search:

Township: 18S Range: 31E

*UTM location was derived from PLSS - see Help

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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.)

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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	POD Sub-Code	basin	County	Q Q Q			Rng	X	Y	Depth Well	Depth Water	Water Column		
				64	16	4								
<u>CP 00566</u>		LE		4	4	1	04	18S	32E	614960	3627280*	133	65	68
<u>CP 00672</u>		LE		4	4	07	18S	32E	612475	3624947*		524	430	94
<u>CP 00672 CLW475398</u>	O	LE		4	4	07	18S	32E	612475	3624947*		540	460	80
<u>CP 00677</u>		LE		1	1	26	18S	32E	617750	3621373*		700		

Average Depth to Water: **318 feet**

Minimum Depth: **65 feet**

Maximum Depth: **460 feet**

Record Count: 4

PLSS Search:

Township: 18S

Range: 32E

*UTM location was derived from PLSS - see Help

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Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

October 08, 2013

BRIAN WALL
LINN ENERGY
RR1, BOX 24 B
KINGFISHER, OK 73750

RE: SKELLY UNIT #33

Enclosed are the results of analyses for samples received by the laboratory on 10/04/13 16:00.

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:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H302414-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.875	0.050	10/07/2013	ND	1.66	83.2	2.00	2.37	
Toluene*	1.79	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71	
Ethylbenzene*	1.56	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13	
Total Xylenes*	2.98	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26	
Total BTEX	7.20	0.300	10/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14700	16.0	10/08/2013	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	36.3	10.0	10/07/2013	ND	192	95.8	200	0.902	
DRO >C10-C28	21.7	10.0	10/07/2013	ND	181	90.4	200	0.0160	

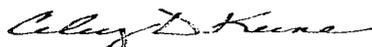
Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.4 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H302414-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.079	0.050	10/07/2013	ND	1.66	83.2	2.00	2.37	
Toluene*	0.197	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71	
Ethylbenzene*	0.179	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13	
Total Xylenes*	0.356	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26	
Total BTEX	0.811	0.300	10/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 124 % 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	9860	16.0	10/08/2013	ND	400	100	400	7.69	

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	10/07/2013	ND	192	95.8	200	0.902	
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160	

Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H302414-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.148	0.050	10/07/2013	ND	1.66	83.2	2.00	2.37		
Toluene*	0.763	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71		
Ethylbenzene*	0.531	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13		
Total Xylenes*	0.947	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26		
Total BTEX	2.39	0.300	10/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	8260	16.0	10/08/2013	ND	400	100	400	7.69		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	37.1	10.0	10/07/2013	ND	181	90.4	200	0.0160		

Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H302414-04)

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	10/07/2013	ND	1.66	83.2	2.00	2.37	
Toluene*	0.116	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71	
Ethylbenzene*	0.137	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13	
Total Xylenes*	0.298	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26	
Total BTEX	0.550	0.300	10/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/08/2013	ND	400	100	400	7.69	

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	10/07/2013	ND	192	95.8	200	0.902	
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160	

Surrogate: 1-Chlorooctane 86.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.0 % 63.6-154

Cardinal Laboratories

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H302414-05)

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	10/07/2013	ND	1.66	83.2	2.00	2.37		
Toluene*	<0.050	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71		
Ethylbenzene*	0.050	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13		
Total Xylenes*	<0.150	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26		
Total BTEX	<0.300	0.300	10/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	9330	16.0	10/08/2013	ND	400	100	400	7.69		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

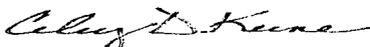
Surrogate: 1-Chlorooctane 95.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/04/2013
 Reported: 10/08/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H302414-06)

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	10/07/2013	ND	1.66	83.2	2.00	2.37		
Toluene*	0.055	0.050	10/07/2013	ND	1.76	87.8	2.00	1.71		
Ethylbenzene*	0.052	0.050	10/07/2013	ND	1.81	90.7	2.00	3.13		
Total Xylenes*	<0.150	0.150	10/07/2013	ND	5.47	91.1	6.00	2.26		
Total BTEX	<0.300	0.300	10/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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	9330	16.0	10/08/2013	ND	400	100	400	7.69		

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	10/07/2013	ND	192	95.8	200	0.902		
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160		

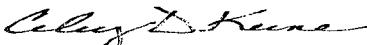
Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

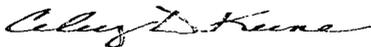
Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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

November 14, 2013

BRIAN WALL
LINN ENERGY
RR1, BOX 24 B
KINGFISHER, OK 73750

RE: SKELLY UNIT #33

Enclosed are the results of analyses for samples received by the laboratory on 11/08/13 16:00.

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/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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/08/2013
 Reported: 11/14/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/07/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 18' (H302738-01)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	704	16.0	11/11/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

Surrogate: 1-Chlorooctane 99.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/08/2013	Sampling Date:	11/07/2013
Reported:	11/14/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 13' (H302738-02)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	224	16.0	11/11/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

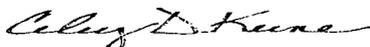
Surrogate: 1-Chlorooctane 92.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/08/2013	Sampling Date:	11/08/2013
Reported:	11/14/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 12' (H302738-03)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	2520	16.0	11/11/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/08/2013
 Reported: 11/14/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 14' (H302738-04)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	400	16.0	11/11/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/08/2013	Sampling Date:	11/08/2013
Reported:	11/14/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 10' (H302738-05)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	128	16.0	11/13/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

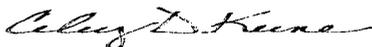
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/08/2013
 Reported: 11/14/2013
 Project Name: SKELLY UNIT #33
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ 3' (H302738-06)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	<16.0	16.0	11/13/2013	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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

Surrogate: 1-Chlorooctane 97.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 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

Cardinal Laboratories

*=Accredited Analyte

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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

Company Name: <u>Linn Energy</u>				BILL TO				ANALYSIS REQUEST																							
Project Manager: <u>Brian Wall</u>				P.O. #:																											
Address:				Company:																											
City:		State:		Zip:		Attn:																									
Phone #:		Fax #:		Address:																											
Project #:		Project Owner:		City:																											
Project Name: <u>Skelly #33</u>				State:																Zip:											
Project Location:				Phone #:																											
Sampler Name: <u>Miguel Gomez</u>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX																PRESERV.		SAMPLING		DATE	TIME	Chloride	TRIT	BTEX			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER																			
<u>H302738</u>																															
	<u>SP1 @ 10'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-7-13</u>	<u>11:09</u>	<u>X</u>	<u>X</u>	<u>X</u>														
	<u>2 SP2 @ 13'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-7-13</u>	<u>1:54</u>	<u>X</u>	<u>X</u>	<u>X</u>														
	<u>3 SP5 @ 12'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-8-13</u>	<u>7:45</u>	<u>X</u>	<u>X</u>	<u>X</u>														
	<u>4 SP4 @ 14'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-8-13</u>	<u>9:57</u>	<u>X</u>	<u>X</u>	<u>X</u>														
	<u>5 SP5 @ 10'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-8-13</u>	<u>11:30</u>	<u>X</u>	<u>X</u>	<u>X</u>														
	<u>6 SP6 @ 3'</u>	<u>5</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>11-8-13</u>	<u>11:45</u>	<u>X</u>	<u>X</u>	<u>X</u>														

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Relinquished By: <u>Miguel Gomez</u>		Date: <u>11/8/13</u>	Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>4:00</u>					Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS: <u>Bwall@linnenergy.com</u> <u>ARuth@diversifiedsb.com</u>	
Time:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>2.42</u>			Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>JWB</u>		

#54

February 21, 2014

BRIAN WALL
LINN ENERGY
RR1, BOX 24 B
KINGFISHER, OK 73750

RE: SKELLY UNIT #33

Enclosed are the results of analyses for samples received by the laboratory on 02/14/14 13:20.

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/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 ENERGY
 BRIAN WALL
 RR1, BOX 24 B
 KINGFISHER OK, 73750
 Fax To: (405) 375-6693

Received:	02/14/2014	Sampling Date:	02/14/2014
Reported:	02/21/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #33	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4 (H400453-01)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2014	ND	2.46	123	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2014	ND	2.17	108	2.00	2.14		
Ethylbenzene*	<0.050	0.050	02/20/2014	ND	2.18	109	2.00	3.74		
Total Xylenes*	<0.150	0.150	02/20/2014	ND	6.35	106	6.00	3.42		
Total BTEX	<0.300	0.300	02/20/2014	ND						

Surrogate: Dibromofluoromethane 105 % 61.3-142

Surrogate: Toluene-d8 96.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	02/19/2014	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	02/18/2014	ND	200	99.9	200	4.99		
DRO >C10-C28	<10.0	10.0	02/18/2014	ND	182	91.0	200	10.8		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

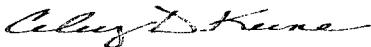
Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Appendix V

SEED REPORT

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

DIVERSIFIED FIELD SERVICES, INC.

RECLAMATION FORM

SITE: Skelly Unit 33

Start Date: 2-26-14

Completion Date: 2-27-14

- 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.

Note: Record the amount of seed used on tag.

Seed Type: LPC
Lbs. Used: 125

- 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:

Remediation Site	Pics
------------------	------

Supervisor:

Stephen M. Smith

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52812

Description	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (Andropogon gerardii)	15.83%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	7.62%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (Andropogon hallii)	13.12%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.24%	76.00%	11.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	5.06%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.60%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	19.10%	12.00%	40.00%	NM
Ragweed, "Western" (Ambrosia L.)	6.45%	77.00%	0.00%	KY
Purity: 84.02%	Inert Matter: 9.85%	ad: 6.11%	Weed Seed: 0.02%	

Noxious Weeds: None

Net Wt: 25.00 lbs

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX0090

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV5281

Description	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (Andropogon gerardii)	15.83%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	7.62%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (Andropogon hallii)	13.12%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.24%	76.00%	11.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	5.06%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.60%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	19.10%	12.00%	40.00%	NM
Ragweed, "Western" (Ambrosia L.)	6.45%	77.00%	0.00%	KY
Purity: 84.02%	Inert Matter: 9.85%	Other Crop Seed: 6.11%	Weed Seed: 0.02%	

Noxious Weeds: None

Test Date: 11/2013

Wt: 25.00 lbs

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52812

Description	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (Andropogon gerardii)	15.83%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	7.62%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (Andropogon hallii)	13.12%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.24%	76.00%	11.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	5.06%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.60%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	19.10%	12.00%	40.00%	NM
Ragweed, "Western" (Ambrosia L.)	6.45%	77.00%	0.00%	KY
Purity: 84.02%	Inert Matter: 9.85%	Other Crop Seed: 6.11%	Weed Seed: 0.02%	

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52547

Description	Pure Seed	Germ	Dormant	Origin
Bluestem Big, "Kaw" (Andropogon gerardii)	15.63%	92.00%	0.00%	TX
Bluestem Little, "Cimarron" (Schizachyrium scoparium)	7.29%	90.00%	8.00%	TX
Bluestem Sand "Woodward" (Andropogon hallii)	13.03%	92.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.02%	76.00%	11.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	5.05%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.39%	98.00%	0.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	18.48%	12.00%	40.00%	NM
Ragweed, "Western" (Ambrosia L.)	5.40%	89.00%	0.00%	AL
Purity: 81.28%	Inert Matter: 13.45%	Other Crop Seed: 5.05%	Weed Seed: 0.21%	

Noxious Weeds: None

Test Date: 10/2013

Net Wt: 25.00 lbs

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52812

Description	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (Andropogon gerardii)	15.83%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	7.62%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (Andropogon hallii)	13.12%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.24%	76.00%	11.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	5.06%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.60%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	19.10%	12.00%	40.00%	NM
Ragweed, "Western" (Ambrosia L.)	6.45%	77.00%	0.00%	KY
Purity: 84.02%	Inert Matter: 9.85%	Other Crop Seed: 6.11%	Weed Seed: 0.02%	

Noxious Weeds: None

Test Date: 11/2013

Net Wt: 25.00 lbs

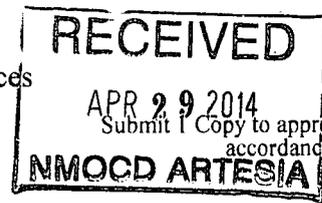
Appendix VI

FINAL FORM C-141

Diversified Field Service, Inc.
3412 N. Dal Paso
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

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: Skelly #33	Facility Type: Injection

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-05140
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
M	14	17S	31E	660	South	660	West	

Latitude 32.86647 Longitude 103.8571

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 130 bbls	Volume Recovered 10
Source of Release: Steel Pipeline	Date and Hour of Occurrence 10/04/13 8:30 A.M.	Date and Hour of Discovery 10/04/2013 8:30 A.M.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton BLM- Mike Bratcher NM OCD	
By Whom?	Date and Hour 01-22-13 2:20 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.*
Bad collar on 2" steel line, collar and joint replaced. A vacuum truck was utilized to capture approximately 10 bbls of fluid.

Describe Area Affected and Cleanup Action Taken.*
There was approximately 3500 sf. ft of impacted pad and pasture area. The spill was delineated by Diversified Field Services, Inc. Impacted soils were removed to a NMOCD approved disposal facility. Confirmation samples were then submitted to a commercial lab for analyses. Backfill of the excavation was approved by the NMOCD and the BLM. The excavation was backfilled and the site was contoured to the surrounding landscape. The area was seeded with Lesser Prairie Chicken 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:	<u>OIL CONSERVATION DIVISION</u>	
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: 03/25/2014	Phone: 806-367-0645	

* Attach Additional Sheets If Necessary