

Linn Energy Skelly #273

CLOSURE REPORT

BLM Event #NU14008MB

API No. 30-015-29239

Release Date: 9/30/2013

Unit Letter G, Section 28, Township 17 South, Range 31 East

December 19, 2013

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

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Skelly #273

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 west of Maljamar NM, in Eddy County. The site resulted from a produced water and oil leak at the stuffing box. The leak released fluids onto the well pad. The packing was repaired, and standing fluids were recovered. A form C-141 was submitted to the BLM on October 23, 2013 (Appendix I).

2 SITE ACTIVITIES

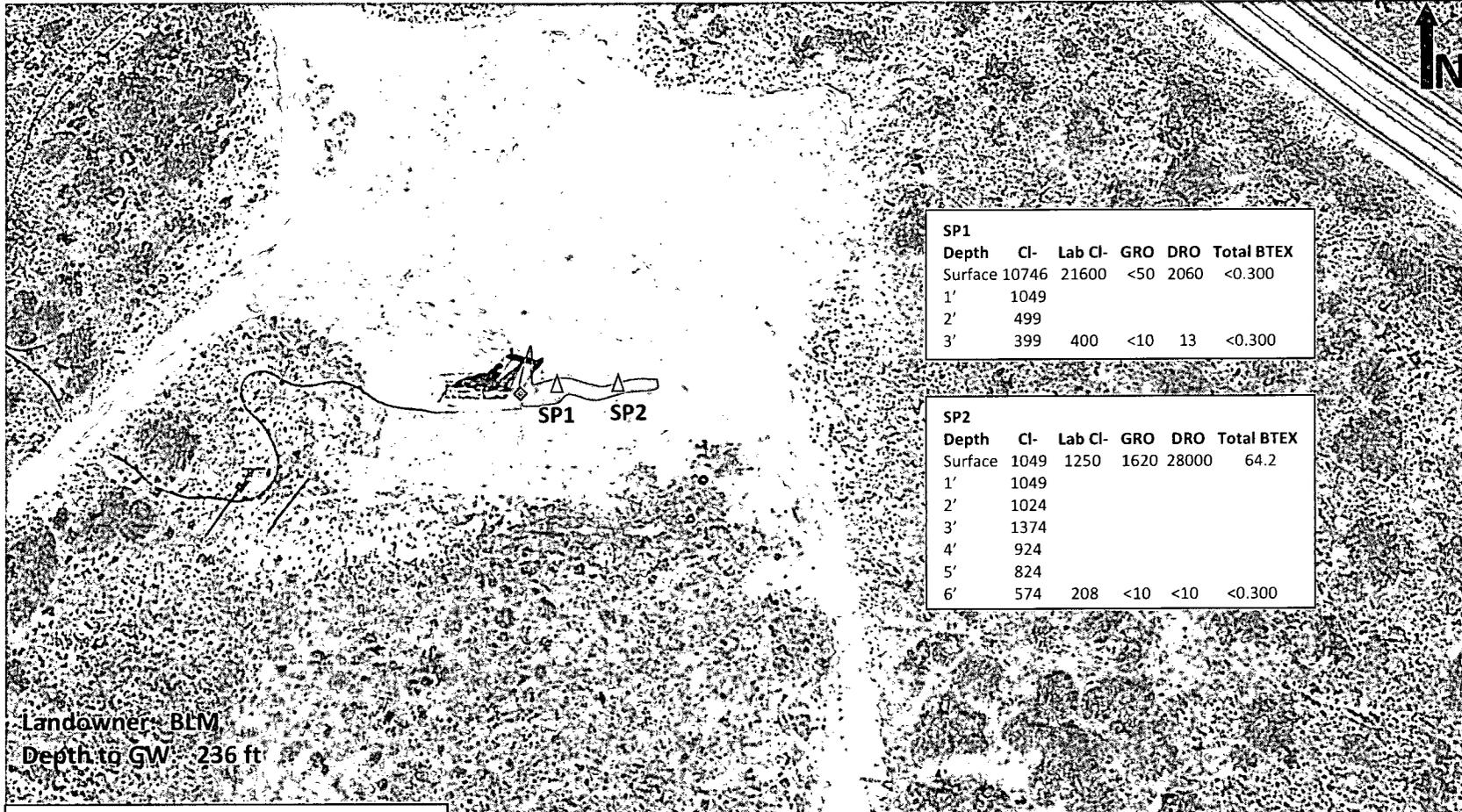
On October 31, 2013, DFSI personnel collected surface soil samples from the site (Figure). The samples were field screened for chloride and showed elevated levels in all of the sample points. On November 11, 2013 DFSI field personnel returned to the site and conducted simultaneous field testing by hand auger revealing low chloride and hydrocarbon levels at 1 to 6 ft. below ground surface (bgs). Chloride levels indicated a reduction at 208 mg/kg at 6 ft. bgs near the well head on the pad. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV)

On November 13, 2013, a BLM representative approved backfill of the excavation. Impacted soils were excavated throughout the entire leak area and removed to a NMOCD approved disposal facility. The excavated area on the well pad was backfilled and capped with imported caliche. DFSI personnel bladed and leveled the site. Photographs of site activities can be viewed in Appendix II.

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, Linn respectfully requests the closure of the regulatory file for the site.

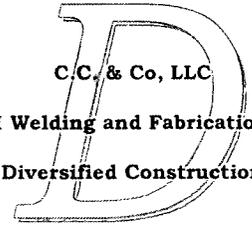
Site Diagram with Sample Data



SP1					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
Surface	10746	21600	<50	2060	<0.300
1'	1049				
2'	499				
3'	399	400	<10	13	<0.300

SP2					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
Surface	1049	1250	1620	28000	64.2
1'	1049				
2'	1024				
3'	1374				
4'	924				
5'	824				
6'	574	208	<10	<10	<0.300

Landowner: BLM
 Depth to GW: 236 ft

Diversified Field Services, Inc.

 C.C. & Co, LLC
 J & M Welding and Fabrication, Inc.
 Diversified Construction

Legend

-  Stained Area (total 250 ft²)
-  Leak Source
-  Sample Point

Linn Energy Skelly Unit
#273
 UL/G, Sec 28, T17S R31E
 Eddy County, NM
 Drafted By: A.C. Ruth, 11/12/13
 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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Linn Operating	Contact: Brian Wall
Address: 2130 W Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Skelly # 273	Facility Type: Oil Producer
Surface Owner: Federal	Mineral Owner:
API No.: 3001529239	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	28	17S	31E	1387	North	2529	East	Eddy

Latitude: 32.8090136137923 Longitude: -103.874354466203

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: 1bbl/3bbls	Volume Recovered: 0/0
Source of Release: Stuffing Box	Date and Hour of Occurrence: 09/30/2013 7:00am	Date and Hour of Discovery: 09/30/2013 7:00am
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	
By Whom? Brian Wall	Date and Hour 10/03/2013 6:45am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
 MAR 27 2014
 NMOC D ARTESIA

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: Drove up to well #273 at around 7:00am and found well leaking from stuffing box. Back pressure valve was plugged with with a piece of packing rubber and caused the well to pressure up and blow packing.

Describe Area Affected and Cleanup Action Taken.* : Called Kenemore for a vaccum truck and a roustabout. Truck picked up about 4 barrels of fluid off of the ground. Roustabout fix the problem. The affected area was about 40 foot east of well head by about 5 foot wide all fluids stayed on well pad.

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: Brian Wall	Approved by District Supervisor:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: bwall@lianenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/23/2013 Phone: 806-367-0645		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOGRAPHS

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

Linn Energy Skelly #273

Unit Letter G, Section 28, T17S R31E



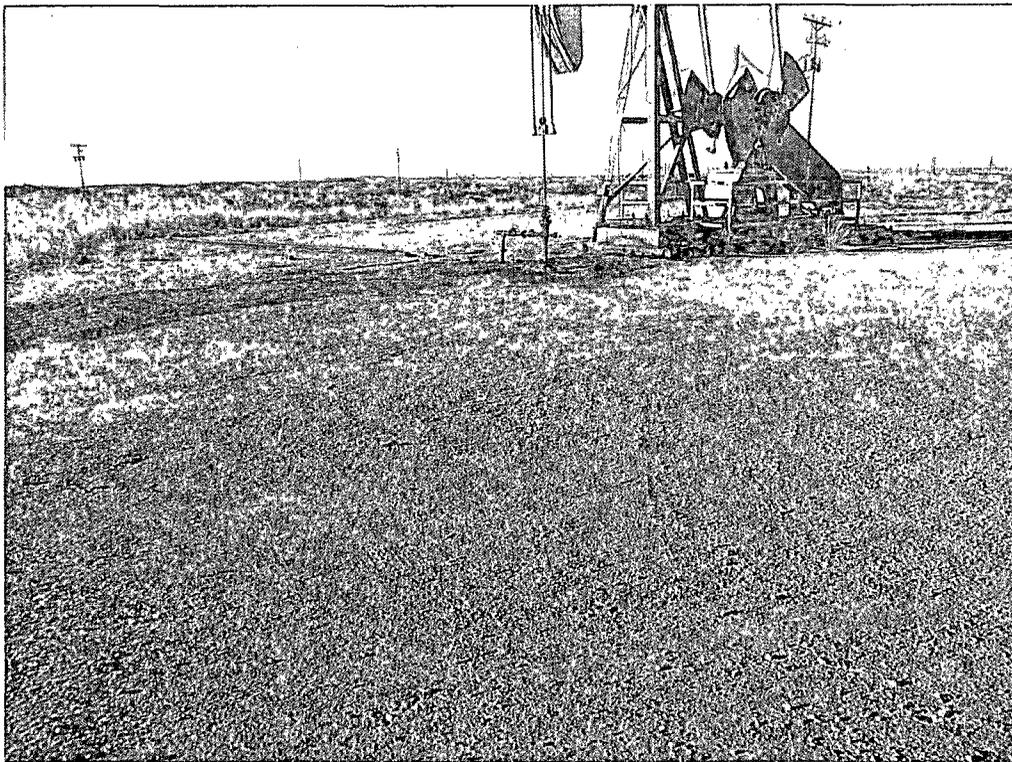
Sign marking location

11/02/13



Leak at stuffing box

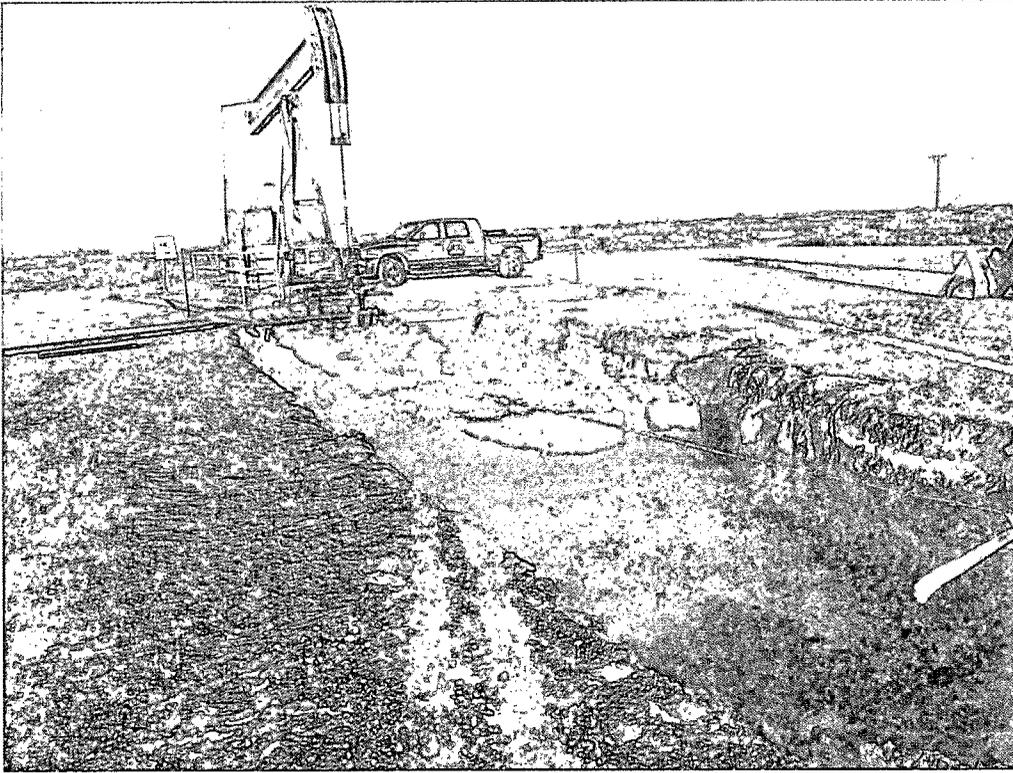
11/02/12



East leg of leak extending from well head 11/12/13



40 ft. East of well head 11/02/13



Site excavation 12/03/13



Site at completion 12/03/13

Appendix III

GROUNDWATER DATA

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

GROUND WATER SEARCH

Linn Energy Skelly Unit #273

UL: G Sec: 28 T: 17S R: 31E

Groundwater Depth: 236 ft.

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

Date: 11/12/13

By: Amy Ruth

	16S 30E	288' ○ 314' ○ 16S 31E ○ 295'	65' 260' ○ 248' ○ 275' ○ 265' 16S 32E ○ 215' 254' ○ 210' ○ 210' ○ 221' ○ 200' ○	
	17S 30E	17S 31E ✕	132' ○ 17S 32E	
	18S 30E 44' ○	98' ○ 18S 31E	65' ○ 430' ○ 18S 32E 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 Sub-	Code	basin	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
					64	16	4								
<u>L 03435</u>	L	LE			1	1	05	16S	31E	602954	3646955*				56
<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

(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					X	Y	Depth Well	Depth Water	Water Column			
	Sub-	Code	basin	County	64	16	4						Sec	Tws	Rng
<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

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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.)

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 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-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>RA 11590 POD1</u>			ED	2	1	3	32	17S	31E	603315	3628545	158		
<u>RA 11590 POD3</u>			ED	3	1	2	32	17S	31E	603932	3629260	60		
<u>RA 11590 POD4</u>			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 (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	Q Q Q				Rng	X	Y	Depth Well	Depth Water	Water Column
			64	16	4	Sec						
<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	LE	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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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
<u>CP 00818</u>			LE	1	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	2	3	15	18	4	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

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O=orphaned,
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(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

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.

Appendix IV

LABORATORY ANALYSES

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

November 08, 2013

BRIAN WALL
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: SKELLY UNIT #273

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 13:50.

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

 Received: 10/31/2013
 Reported: 11/08/2013
 Project Name: SKELLY UNIT #273
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 SURFACE (H302657-01)

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	11/07/2013	ND	2.20	110	2.00	6.58		
Toluene*	0.072	0.050	11/07/2013	ND	2.24	112	2.00	7.60		
Ethylbenzene*	<0.050	0.050	11/07/2013	ND	2.28	114	2.00	7.83		
Total Xylenes*	<0.150	0.150	11/07/2013	ND	6.83	114	6.00	8.29		
Total BTEX	<0.300	0.300	11/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 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	21600	16.0	11/01/2013	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	<50.0	50.0	11/01/2013	ND	175	87.6	200	8.35		
DRO >C10-C28	2060	50.0	11/01/2013	ND	165	82.6	200	10.0		

Surrogate: 1-Chlorooctane 77.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.8 % 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: 10/31/2013
 Reported: 11/08/2013
 Project Name: SKELLY UNIT #273
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 SURFACE (H302657-02)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	11/07/2013	ND	2.20	110	2.00	6.58		
Toluene*	5.02	1.00	11/07/2013	ND	2.24	112	2.00	7.60		
Ethylbenzene*	17.8	1.00	11/07/2013	ND	2.28	114	2.00	7.83		
Total Xylenes*	41.4	3.00	11/07/2013	ND	6.83	114	6.00	8.29		
Total BTEX	64.2	6.00	11/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 143 % 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	1250	16.0	11/01/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1620	100	11/01/2013	ND	175	87.6	200	8.35		
DRO >C10-C28	28000	100	11/01/2013	ND	165	82.6	200	10.0		

Surrogate: 1-Chlorooctane 182 % 65.2-140

Surrogate: 1-Chlorooctadecane 990 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

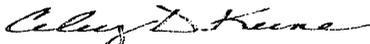
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

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Celey D. Keene, Lab Director/Quality Manager

November 11, 2013

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

RE: SKELLY UNIT #273

Enclosed are the results of analyses for samples received by the laboratory on 11/06/13 16:20.

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: 11/06/2013
 Reported: 11/11/2013
 Project Name: SKELLY UNIT #273
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

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

Sample ID: SP 1 @ 3' (H302715-01)

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	11/10/2013	ND	1.96	97.9	2.00	2.18		
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94		
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11		
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70		
Total BTEX	<0.300	0.300	11/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	400	16.0	11/08/2013	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	11/08/2013	ND	192	96.2	200	0.759		
DRO >C10-C28	13.0	10.0	11/08/2013	ND	195	97.6	200	1.32		

Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celestine 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: 11/06/2013
 Reported: 11/11/2013
 Project Name: SKELLY UNIT #273
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

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

Sample ID: SP 2 @ 6' (H302715-02)

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	11/10/2013	ND	1.96	97.9	2.00	2.18		
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94		
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11		
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70		
Total BTEX	<0.300	0.300	11/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	208	16.0	11/08/2013	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	11/08/2013	ND	192	96.2	200	0.759		
DRO >C10-C28	<10.0	10.0	11/08/2013	ND	195	97.6	200	1.32		

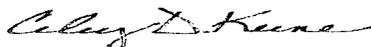
Surrogate: 1-Chlorooctane 95.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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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 Hill</u>		P.O. #:																							
Address:		Company:																							
City:	State:	Zip:	Attn:																						
Phone #:	Fax #:		Address:																						
Project #:	Project Owner:		City:																						
Project Name: <u>Skelly unit # 273</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						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<u>H302715</u>	<u>15X1 @ 3</u> <u>25X2 @ 6</u>	<u>6</u>	<u>1</u>			<u>Y</u>					<u>X</u>		<u>11-6-13</u>	<u>7:20</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>Chloride</u> <u>TOPT</u> <u>BTX</u>							
		<u>6</u>	<u>1</u>			<u>Y</u>					<u>X</u>		<u>11-6-13</u>	<u>8:35</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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Relinquished By: <u>Miguel Gomez</u>	Date: <u>11/6/13</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:50</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>Bwall@linenergy.com</u> <u>ARuth@diversifiedsi.com</u>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	<u>5.80</u> <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>		

#56

Appendix V

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

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 600	Telephone No. 575-738-1739	
Facility Name Skelly #273	Facility Type: Oil Producer	
Surface Owner Federal	Mineral Owner	API No. 30-015-29239

LOCATION OF RELEASE

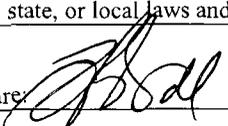
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
G	28	17S	31E	1387	North	2529	East	

Latitude 32.8090136137923 Longitude -103.874354466203

NATURE OF RELEASE

Type of Release Spill: Produced Water/Oil	Volume of Release 1bbl/3bbls	Volume Recovered 0
Source of Release Stuffing Box	Date and Hour of Occurrence 09/30/2013 7:00 AM	Date and Hour of Discovery 09/30/2013 7:00 AM
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	
By Whom? Brian Wall	Date and Hour 10/03/2013 6:45 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* Drove up to well #273 at around 7:00 AM and found well leaking from the stuffing box. Back pressure valve was plugged with a piece of packing rubber that caused the well to pressure up and blow packing.		
Describe Area Affected and Cleanup Action Taken.* Spill affected well pad area. Vacuum truck picked up standing fluids. 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 BLM. The excavation was backfilled and bladed.		

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: Brian Wall	Approved by Environmental Specialist:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/19/13	Phone: 806-367-0645	

Attach Additional Sheets If Necessary

2RD-2539