

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 04 2014

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# Linn Energy Skelly Unit #158

## CLOSURE REPORT

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API No. 30-015-25040

Release Date: 09/04/2013

Unit Letter P, Section 22, Township 17 South, Range 31 East

May 7, 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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- 2 Site Activities
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Figure – Site Diagram with Sample Data

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# Skelly Unit #158

## 1 INTRODUCTION

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

The site is located southwest of Maljamar NM, in Eddy County. The leak resulted from a previously plugged and abandoned injection well at Skelly #58. The compromised line leak impacted an area of approximately 8,832 square feet of [pasture and lease road. The line was excavated and repaired. A form C-141 was submitted to the NMOCD on September 06, 2013. (Appendix I).

## 2 SITE ACTIVITIES

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On October 01, 2013 DFSI personnel collected surface soil samples from the initial spill site which encompassed approximately 8,832 sq. ft. area (Figure). There was a total of 8 sample points established. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Visually and chemically impacted soils were excavated throughout the entire leak area and removed to an NMOCD approved disposal facility. SP1 thru SP3 were at the source of the leak nearest to the plug and abandoned well head for the Skelly Unit #158. Chlorides were elevated at surface to depths of 5ft and 12ft. bgs., correspondingly. The remainder of sample points were located in and adjacent to the former lease road area. Simultaneous field testing revealed acceptable surface Chloride, however SP4 remained elevated at surface to 1ft. bgs where field testing revealed 199 mg/kg. , and SP6 remained elevated in Chloride at 2 ft. bgs., whereby the results were 2499 at 2ft. bgs, however at 3ft. bgs., the level of impact from Chloride was significantly reduced to 599 mg/kg. Since a portion of the later sample point positions were located in former lease road area it could be ascertained that a portion of impact was historical in nature. 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.

On November 26, 2013, DFSI submitted a request to NMOCD and NM BLM to excavate and backfill SP1 and SP2 to 4ft. bgs., and backfill with clean topsoil. In the same said request it was also noted that the remainder of sample points were to the west of the leak source area. It was furthermore requested that this area be excavated to 3ft bgs., backfilled with fresh topsoil,

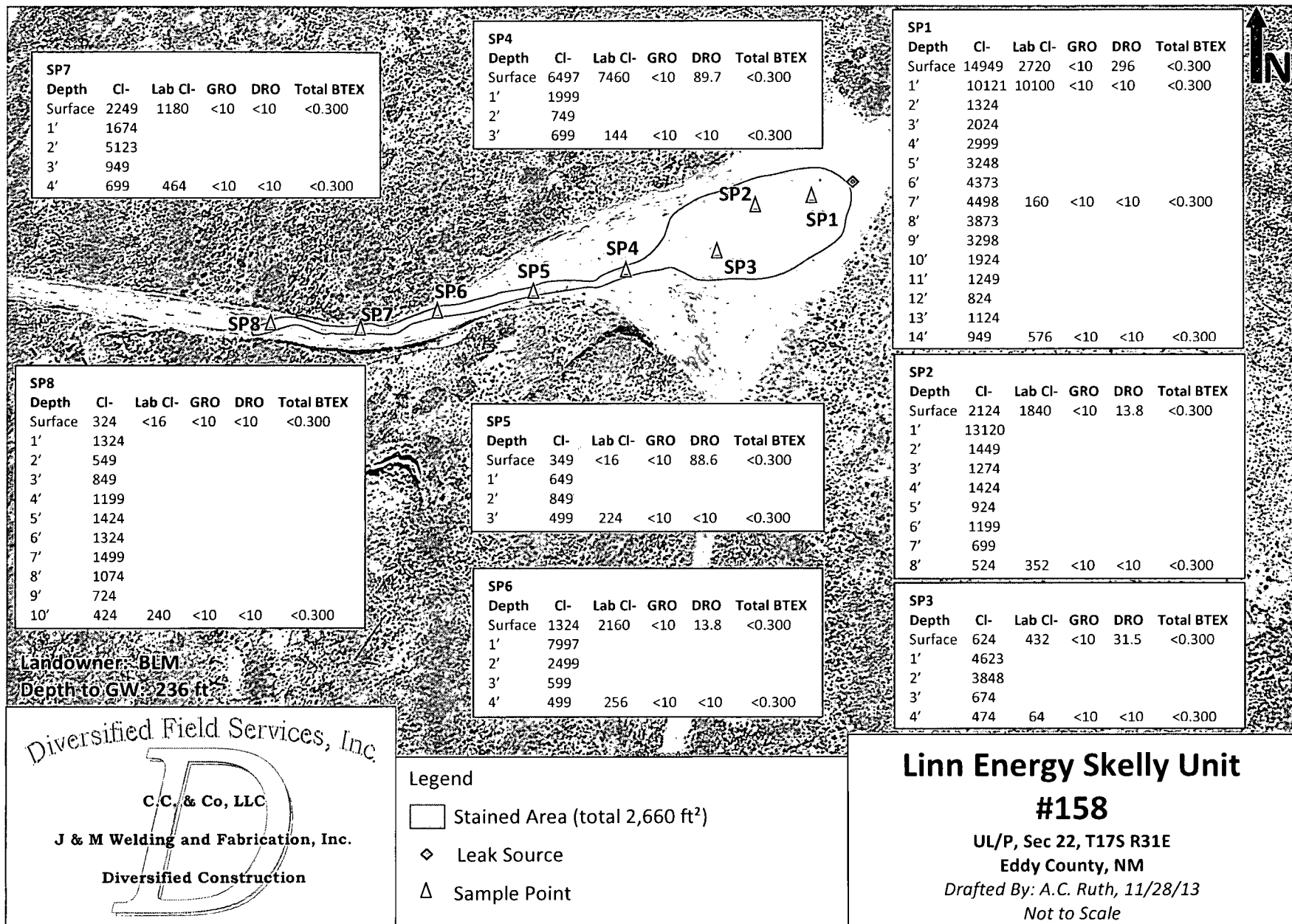
blended and seeded. On November 26, 2013, NMOCD representatives approved backfill of the excavation. On January 14, 2014 the pasture excavation was backfilled with imported topsoil and the site was contoured to the surrounding landscape. There were two adjacent lease roads into the site that were removed and backfilled with topsoil, in order to create the seed bed. On January 17, 2014 the site seeding activities were completed with 175 lbs. of Lesser Prairie Chicken seed mix per BLM requirements.

### **3 CONCLUSION**

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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.

# Site Diagram with Sample Data



# Appendix I

INITIAL FORM C-141

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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

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SEP 06 2013

Form C-141  
Revised October 10, 2003

NMOCD ARTESIA

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 **269324** Contact: Brian Wall  
Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739  
Facility Name: Skelly Unit #58/58 Facility Type: Injection

Surface Owner: Federal Mineral Owner: API No.: 3001505355

Release was on Santa Fe Skelly 58

This well is PA - Data will be entered → LOCATION OF RELEASE Linn Skelly Ut #158 30-015-25040

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	22	17S	31E	540	South	660	East	Eddy

Latitude: 32.8143354492773 Longitude: -103.851064335554

#### NATURE OF RELEASE

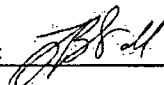
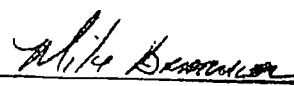
Type of Release: Produced Water / Oil	Volume of Release: 10 bbls / 2bbl	Volume Recovered: 0 / 0
Source of Release: 1" steel bullplug under ground	Date and Hour of Occurrence: 09/04/2013 7:00am	Date and Hour of Discovery: 09/04/2013 7:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NM OCD Mike Burton- BLM	
By Whom? Brian Wall	Date and Hour 09/06/2013	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*:

Describe Cause of Problem and Remedial Action Taken.\*: Drove up to Skelly B well #158 at about 7:00am and saw water sparying out of the ground drove to the area and found a plugged injection well #58 leaking. So I drove to the header and closed the valve to stop the leak. This line shut in Skelly injection well #84 also. Lost about 10 to 15 barrels of produced water and 2 barrels of oil. Called Stephen with Diversified to put in an emergency one call to dig up the line so I could have roustabout cap the line.

Describe Area Affected and Cleanup Action Taken.\*: I divided area into 2 parts first area spray made a square of the largest impacted area it measured 116ft X 70ft squared second area was where it ran down hill it measured 356ft X 2ft wide

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: Signed By 	
Title: Construction Foreman II	Approval Date: SEP 12 2013	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 09/06/2013 Phone: 806-367-0645	Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

\* Attach Additional Sheets If Necessary

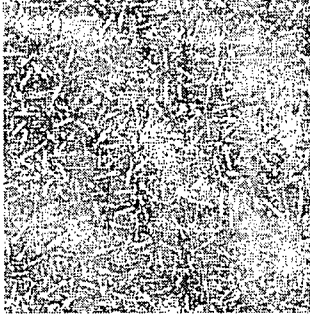
October 12, 2013

2RP-1906

## Bratcher, Mike, EMNRD

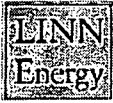
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**From:** McCracken, Theresa <TMcCracken@linnenergy.com>  
**Sent:** Friday, September 06, 2013 3:57 PM  
**To:** Bratcher, Mike, EMNRD; mburton@blm.gov  
**Cc:** Callahan, Terry; Fitzwater, Nancy; Moreno, Laura; Butters, Thomas; Golding, Chris; Wall, Fred  
**Subject:** Linn- Skelly # 58 9-4-13  
**Attachments:** SKelly B # 58 09-04-13.pdf



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

Thank you,



NASDAQ:LINE

*Theresa McCracken*

Field Administrator

**LINN Energy, LLC**

2130 W Bender

Hobbs, NM 88240

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

[tmccracken@linnenergy.com](mailto:tmccracken@linnenergy.com)

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# Appendix II

## SITE PHOTOGRAPHS

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

# Linn Energy Skelly Unit #158

Unit Letter P, Section 22, T17S R31E



Area of SP1-SP3 from top right to bottom left, facing northeast 9/5/13



Area of SP4-SP5 from bottom left to top right, facing southwest 9/4/12



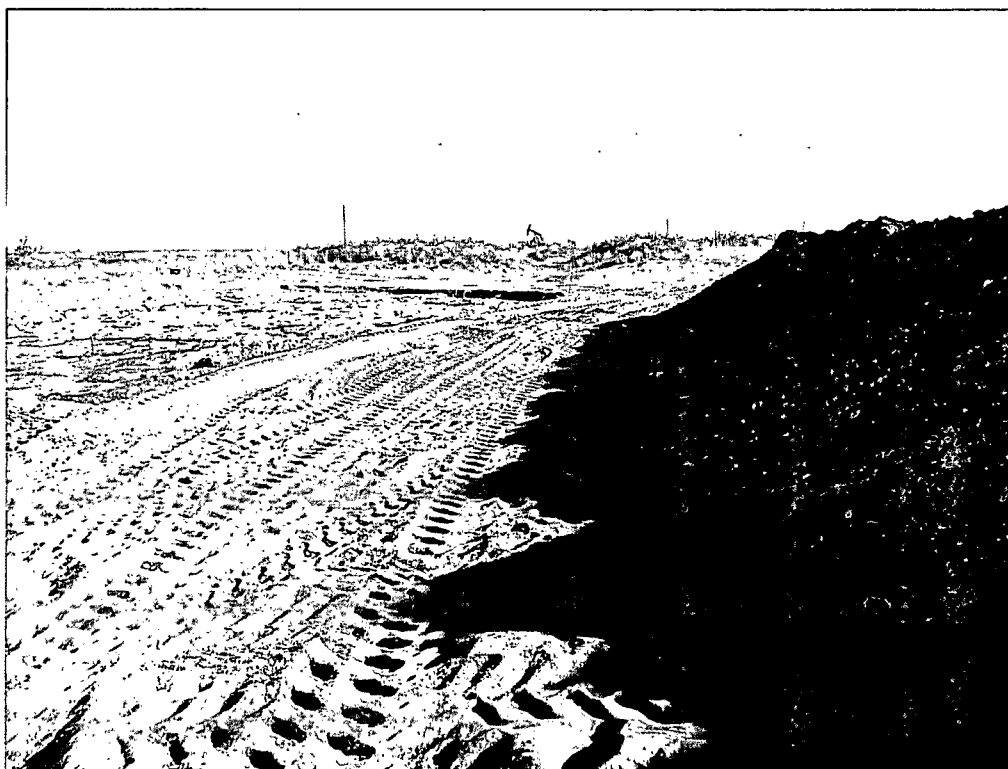
Area of SP6-SP8 from bottom center to top center, facing west 9/4/12



Excavation of line 09/05/13



Excavation of impacted area at P&A'd well 10/26/13



Stockpile of impacted soil for removal 10/26/13



Installation of liner 01/16/14



Seeding of impacted area 01/24/14

# Appendix III

## GROUNDWATER DATA

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

# GROUND WATER SEARCH

Linn Energy Skelly Unit #158

UL:   P  

Sec:   22  

T:   17S  

R:   31E  

Groundwater Depth:                     236                     ft.

○ = NM Office of the State Engineer

NMOCD GW Trend Map - 325 to 350 ft

● = U.S. Geological Survey (unknown well)

Date: 04/30/14

✕ = Site Location

By: Rebecca Pons

	16S 30E	288'○ 314'○ <b>16S 31E</b>	65' 260'○ 248'○ 275'○ 254'○ <b>16S 32E</b> 210'○ 215'○ 221'○ 200'○	
	17S 30E	17S 31E ✕	132'○ <b>17S 32E</b>	
	18S 30E 44'○	98'○ <b>18S 31E</b>	65'○ 430'○ <b>18S 32E</b> 460'○	



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

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No records found.

**PLSS Search:**

**Township:** 16S

**Range:** 30E

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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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Page 1 of 1

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

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closed) (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>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**

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No records found.

**PLSS Search:**

**Township:** 17S

**Range:** 30E

---

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Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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

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water right file.)

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

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closed) (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>L 11092</u>	L	LE	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





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& no longer serves a  
water right file.)

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

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



October 04, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: SKELLY UNIT #58

Enclosed are the results of analyses for samples received by the laboratory on 10/01/13 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/04/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #58	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ SURFACE (H302386-01)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	10/02/2013	ND	432	108	400	3.64		

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	10/02/2013	ND	206	103	200	0.565		
DRO >C10-C28	296	10.0	10/02/2013	ND	203	102	200	4.45		

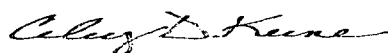
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 10/01/2013  
 Reported: 10/04/2013  
 Project Name: SKELLY UNIT #58  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H302386-02)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/02/2013	ND	432	108	400	3.64	

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	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	13.8	10.0	10/03/2013	ND	203	102	200	4.45	

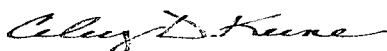
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 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: 10/01/2013  
 Reported: 10/04/2013  
 Project Name: SKELLY UNIT #58  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H302386-03)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59		
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55		
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62		
Total BTEX	<0.300	0.300	10/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/03/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	31.5	10.0	10/03/2013	ND	203	102	200	4.45	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 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: 10/01/2013  
 Reported: 10/04/2013  
 Project Name: SKELLY UNIT #58  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H302386-04)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	10/03/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	89.7	10.0	10/03/2013	ND	203	102	200	4.45	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 10/01/2013  
 Reported: 10/04/2013  
 Project Name: SKELLY UNIT #58  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H302386-05)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/03/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	88.6	10.0	10/03/2013	ND	203	102	200	4.45	


Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

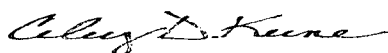
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

**Cardinal Laboratories**

\* = Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## 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>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																			
Project Manager: <u>Brian Wall</u>				P.O. #:																																							
Address:				Company:																																							
City:		State:		Zip:		Attn:																																					
Phone #:		Fax #:		Address:																																							
Project #:		Project Owner:		City:																																							
Project Name:				State:																																							
Project Location: <u>Skelly unit #58</u>				Zip:																																							
Sampler Name: <u>Miguel Gomez</u>				Phone #:																																							
Fax #:																																											
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME															
<u>H302386</u>																																											
<u>1 SR1 @ surface</u>				<u>G</u>		<u>1</u>																						<u>10-1-13</u>		<u>7:25</u>		<u>chloride</u>											
<u>2 SR2 @ surface</u>				<u>G</u>		<u>1</u>																						<u>10-1-13</u>		<u>7:27</u>		<u>TPH 8015 m</u>											
<u>3 SR3 @ surface</u>				<u>G</u>		<u>1</u>																						<u>10-1-13</u>		<u>7:30</u>		<u>BTEX</u>											
<u>4 SR4 @ surface</u>				<u>G</u>		<u>1</u>																						<u>10-1-13</u>		<u>7:32</u>													
<u>5 SR5 @ surface</u>				<u>G</u>		<u>1</u>																						<u>10-1-13</u>		<u>7:33</u>													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Miguel Gomez</u>		Date: <u>10/1/13</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Time:		Time:		Time:		REMARKS:			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		<u>Bwall@linnenergy.com</u> <u>aruth@diversifiedfst.com</u>			
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>5.80</u>					

October 22, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: SKELLY UNIT #158

Enclosed are the results of analyses for samples received by the laboratory on 10/01/13 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 10/01/2013  
 Reported: 10/22/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H302386-01)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PI) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	10/02/2013	ND	432	108	400	3.64		

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	10/02/2013	ND	206	103	200	0.565	
DRO >C10-C28	296	10.0	10/02/2013	ND	203	102	200	4.45	


Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 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:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #158	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ SURFACE (H302386-02)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/02/2013	ND	432	108	400	3.64	

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	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	13.8	10.0	10/03/2013	ND	203	102	200	4.45	

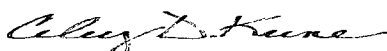
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 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: 10/01/2013  
 Reported: 10/22/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H302386-03)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/03/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	31.5	10.0	10/03/2013	ND	203	102	200	4.45	

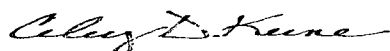
Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 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: 10/01/2013  
 Reported: 10/22/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H302386-04)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59		
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55		
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62		
Total BTEX	<0.300	0.300	10/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PI) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	10/03/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565		
DRO >C10-C28	89.7	10.0	10/03/2013	ND	203	102	200	4.45		

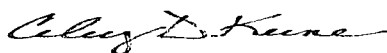
Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 10/01/2013  
 Reported: 10/22/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H302386-05)**

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	10/03/2013	ND	1.92	95.8	2.00	3.59	
Toluene*	<0.050	0.050	10/03/2013	ND	1.74	87.0	2.00	3.55	
Ethylbenzene*	<0.050	0.050	10/03/2013	ND	1.74	87.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	10/03/2013	ND	5.16	86.0	6.00	3.62	
Total BTEX	<0.300	0.300	10/03/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/03/2013	ND	206	103	200	0.565	
DRO >C10-C28	88.6	10.0	10/03/2013	ND	203	102	200	4.45	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

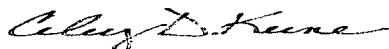
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



## Page 8 of 8

[illegible]

Relinquished By:		Date:		Received By:		Phone Result:		Add'l Phone #:	
Miguel Gomez		10/1/13		Jodi Henson		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished By:		Time:		Received By:		Fax Result:		Add'l Fax #:	
		4:25				<input type="checkbox"/> Yes <input type="checkbox"/> No			
Date:		Time:				REMARKS:			
						Bural@ LinEnergy.com			
						aruth@ diversifiedFSI.com			
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		(initials)			
5.8°C				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> *Project name changed as per Amy.			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

$10/22/73$  Ch

November 13, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: SKELLY UNIT #158

Enclosed are the results of analyses for samples received by the laboratory on 10/24/13 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

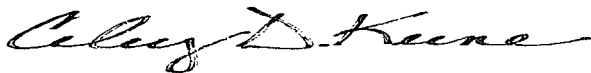
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 10/24/2013  
 Reported: 11/13/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ SURFACE (H302588-01)**

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	10/30/2013	ND	1.68	83.8	2.00	3.80	
Toluene*	<0.050	0.050	10/30/2013	ND	1.71	85.5	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	1.72	86.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.10	85.0	6.00	3.31	
Total BTEX	<0.300	0.300	10/30/2013	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	2160	16.0	10/28/2013	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	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	

Surrogate: 1-Chlorooctane 84.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.1 % 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: 10/24/2013  
 Reported: 11/13/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ SURFACE (H302588-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	1.68	83.8	2.00	3.80	
Toluene*	<0.050	0.050	10/29/2013	ND	1.71	85.5	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	1.72	86.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	5.10	85.0	6.00	3.31	
Total BTX	<0.300	0.300	10/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	1180	16.0	10/28/2013	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	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	


Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 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: 10/24/2013  
 Reported: 11/13/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 8 @ SURFACE (H302588-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2013	ND	1.68	83.8	2.00	3.80	
Toluene*	<0.050	0.050	10/30/2013	ND	1.71	85.5	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	1.72	86.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.10	85.0	6.00	3.31	
Total BTX	<0.300	0.300	10/30/2013	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	10/28/2013	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	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	


Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 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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**Cardinal Laboratories****\*=Accredited Analyte**

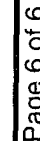
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**Celey D. Keene, Lab Director/Quality Manager**





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

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2526

November 21, 2013

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #158

Enclosed are the results of analyses for samples received by the laboratory on 11/15/13 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

### Analytical Results For:

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

### Sample ID: SP 1 @ SURFACE (H302803-01)

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	11/19/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/19/2013	ND	6.19	103	6.00	2.34	
Total BTEX	<0.300	0.300	11/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	10100	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/19/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/19/2013	ND	210	105	200	2.06	

Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 7' (H302803-02)**

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	11/19/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/19/2013	ND	6.19	103	6.00	2.34	
Total BTEX	<0.300	0.300	11/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	160	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/18/2013	ND	210	105	200	2.06	

Surrogate: 1-Chlorooctane 79.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 14' (H302803-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/19/2013	ND	6.19	103	6.00	2.34	
Total BTX	<0.300	0.300	11/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	576	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/18/2013	ND	210	105	200	2.06	

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 8' (H302803-04)**

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	11/19/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/19/2013	ND	6.19	103	6.00	2.34	
Total BTEX	<0.300	0.300	11/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	352	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/18/2013	ND	210	105	200	2.06	

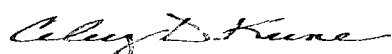
Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 4' (H302803-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/19/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/19/2013	ND	6.19	103	6.00	2.34	
Total BTX	<0.300	0.300	11/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	64.0	16.0	11/21/2013	ND	416	104	400	3.77		

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

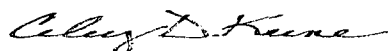
Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H302803-06)**

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	11/20/2013	ND	2.13	107	2.00	4.28	
Toluene*	<0.050	0.050	11/20/2013	ND	2.14	107	2.00	5.97	
Ethylbenzene*	<0.050	0.050	11/20/2013	ND	2.15	107	2.00	5.77	
Total Xylenes*	<0.150	0.150	11/20/2013	ND	6.50	108	6.00	8.38	
Total BTEX	<0.300	0.300	11/20/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 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	144	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

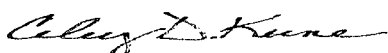
Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	11/15/2013	Sampling Date:	11/14/2013
Reported:	11/21/2013	Sampling Type:	Soil
Project Name:	SKELLY UNIT #158	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 3' (H302803-07)**

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	11/20/2013	ND	2.13	107	2.00	4.28	
Toluene*	<0.050	0.050	11/20/2013	ND	2.14	107	2.00	5.97	
Ethylbenzene*	<0.050	0.050	11/20/2013	ND	2.15	107	2.00	5.77	
Total Xylenes*	<0.150	0.150	11/20/2013	ND	6.50	108	6.00	8.38	
Total BTEX	<0.300	0.300	11/20/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 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	11/21/2013	ND	416	104	400	3.77	

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

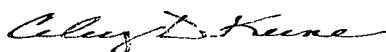
Surrogate: 1-Chlorooctane 94.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/15/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 4' (H302803-08)**

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	11/20/2013	ND	2.13	107	2.00	4.28	
Toluene*	<0.050	0.050	11/20/2013	ND	2.14	107	2.00	5.97	
Ethylbenzene*	<0.050	0.050	11/20/2013	ND	2.15	107	2.00	5.77	
Total Xylenes*	<0.150	0.150	11/20/2013	ND	6.50	108	6.00	8.38	
Total BTEX	<0.300	0.300	11/20/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 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	256	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

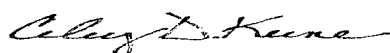
Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 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: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/15/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 4' (H302803-09)**

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	11/20/2013	ND	2.13	107	2.00	4.28	
Toluene*	<0.050	0.050	11/20/2013	ND	2.14	107	2.00	5.97	
Ethylbenzene*	<0.050	0.050	11/20/2013	ND	2.15	107	2.00	5.77	
Total Xylenes*	<0.150	0.150	11/20/2013	ND	6.50	108	6.00	8.38	
Total BTEX	<0.300	0.300	11/20/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 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	464	16.0	11/21/2013	ND	416	104	400	3.77		

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 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: 11/15/2013  
 Reported: 11/21/2013  
 Project Name: SKELLY UNIT #158  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 11/15/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 8 @ 10' (H302803-10)**

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	11/20/2013	ND	2.13	107	2.00	4.28	
Toluene*	<0.050	0.050	11/20/2013	ND	2.14	107	2.00	5.97	
Ethylbenzene*	<0.050	0.050	11/20/2013	ND	2.15	107	2.00	5.77	
Total Xylenes*	<0.150	0.150	11/20/2013	ND	6.50	108	6.00	8.38	
Total BTEX	<0.300	0.300	11/20/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	240	16.0	11/21/2013	ND	416	104	400	3.77	

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	11/20/2013	ND	193	96.4	200	5.24	
DRO >C10-C28	<10.0	10.0	11/20/2013	ND	189	94.5	200	5.46	

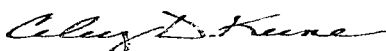
Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

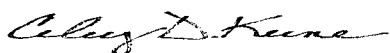
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# Appendix V

## SEED REPORT

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

# DIVERSIFIED FIELD SERVICES, INC.

## RECLAMATION FORM

SITE: Stelly Unit 158

Start Date: 1-14-14

Completion Date: 1-17-14

- 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: hps  
Lbs. Used: 175

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:

Reclamation is complete and site seeded. Ready for closure

Supervisor:

Stephen McJohn



# Appendix VI

## CORRESPONDENCE

---

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

## Natalie Gladden

---

**From:** Amy Ruth  
**Sent:** Monday, March 03, 2014 8:40 AM  
**To:** Natalie Gladden  
**Cc:** Michael Patterson - Diversified Field Services, Inc. (mpatterson@diversifiedfsi.com)  
**Subject:** FW: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

**From:** Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]  
**Sent:** Tuesday, November 26, 2013 2:22 PM  
**To:** Amy Ruth  
**Subject:** Re: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

Amy  
Your proposal for excavation is approved. If federal you will need like approval by BLM.

Mike Bratcher.

*Sent from my Verizon Wireless 4G LTE DROID*

Amy Ruth <[aruth@diversifiedfsi.com](mailto:aruth@diversifiedfsi.com)> wrote:

Hi Mike,

A work plan was submitted for this one on 11-5-13. Please review our field and lab sample data on the first attachment (Diagram). I have also included lab reports at the end of the list of attachments. Our groundwater study is also included as well as a photo page.

SP1 was the closest to the source and did reach chloride levels confirmed by the lab at 576 mg/kg at 14 ft. The auger was refused at 15 ft. The remaining sample points reached low chloride levels at shallower depths. Considering depth to groundwater in the area, we are requesting permission to excavate the area of SP1 and SP2 to 4 ft and install a reinforced 20 mil liner at that depth and backfill with clean soil. The majority of sample points to the west of the source area contain low chlorides at approximately 3 ft, and we would excavate this area to the west to 3 ft and backfill with clean soil if that is acceptable to you.

Please review this data and advise, sir. Thank you for your help!

*Amy C. Ruth*

Environmental Director  
Diversified Field Services, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
Office: (575)964-8394  
Mobile: (575)390-5454  
Fax: (575)964-8396

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## Natalie Gladden

---

**From:** Amy Ruth  
**Sent:** Monday, March 03, 2014 8:35 AM  
**To:** Natalie Gladden  
**Cc:** Michael Patterson - Diversified Field Services, Inc. (mpatterson@diversifiedfsi.com)  
**Subject:** FW: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

**From:** Burton, Michael [mailto:mburton@blm.gov]  
**Sent:** Monday, December 02, 2013 2:52 PM  
**To:** Amy Ruth  
**Subject:** Re: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

Amy,  
This plan is approved as written. When you back fill I would like you to use some of the high sides of the old road. Just slope it back to a 1 to 3 please. If you have any questions I can meet you out there.  
Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**mburton@blm.gov**

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On Tue, Nov 26, 2013 at 3:39 PM, Amy Ruth <[aruth@diversifiedfsi.com](mailto:aruth@diversifiedfsi.com)> wrote:

Hi Mike,

Wanted to pass this along from Mr. Bratcher. I understand that you most likely won't get to look at this material until next week due to the holiday, and hope to talk to you then. Please let me know if this proposal is acceptable to you as well, sir. Thank you and have a Happy Thanksgiving!

Amy

**From:** Bratcher, Mike, EMNRD [mailto:[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)]  
**Sent:** Tuesday, November 26, 2013 2:22 PM  
**To:** Amy Ruth  
**Subject:** Re: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

Amy

Your proposal for excavation is approved. If federal you will need like approval by BLM.

Mike Bratcher.

*Sent from my Verizon Wireless 4G LTE DROID*

Amy Ruth <[aruth@diversifiedfsi.com](mailto:aruth@diversifiedfsi.com)> wrote:

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Please review this data and advise, sir. Thank you for your help!

*Amy C. Ruth*

Environmental Director

Diversified Field Services, Inc.

3412 N. Dal Paso

Hobbs, NM 88240

Office: (575)964-8394

Mobile: (575)390-5454

Fax: (575)964-8396

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## Natalie Gladden

---

**From:** Amy Ruth  
**Sent:** Tuesday, November 26, 2013 3:40 PM  
**To:** Burton, Michael  
**Cc:** Wall, Fred; Michael Patterson - Diversified Field Services, Inc. (mpatterson@diversifiedfsi.com)  
**Subject:** Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

Hi Mike,

Wanted to pass this along from Mr. Bratcher. I understand that you most likely won't get to look at this material until next week due to the holiday, and hope to talk to you then. Please let me know if this proposal is acceptable to you as well, sir. Thank you and have a Happy Thanksgiving!

Amy

**From:** Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]  
**Sent:** Tuesday, November 26, 2013 2:22 PM  
**To:** Amy Ruth  
**Subject:** Re: Excavation Request - 2RP-1906 Linn Energy Skelly Unit #158

Amy

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Mike Bratcher.

*Sent from my Verizon Wireless 4G LTE DROID*

Amy Ruth <aruth@diversifiedfsi.com> wrote:

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Please review this data and advise, sir. Thank you for your help!

*Amy C. Ruth*

Environmental Director  
Diversified Field Services, Inc.  
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# Appendix VII

FINAL C-141

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

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

State of New Mexico **JUN 04 2014**  
Energy Minerals and Natural Resources  
Oil Conservation Division **RECEIVED**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report    ☒ Final Report

Name of Company: Linn Operating, Inc.	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. 575-738-1739
Facility Name: Skelly #158	Facility Type: Injection
Surface Owner Federal	Mineral Owner Federal
API No. 30-015-25040	

#### LOCATION OF RELEASE

Unit Letter P	Section 22	Township 17S	Range 31E	Feet from the 540	North/South Line South	Feet from 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	------------------	------------------------	-------------

Latitude 32.8143354492773 Longitude -103.851064335554

#### NATURE OF RELEASE

Type of Release: Produced water/oil	Volume of Release 10 bbls/2bbl	Volume Recovered 0/0
Source of Release: 1" steel underground steel bull plug	Date and Hour of Occurrence 09/04/2013 7:00 AM	Date and Hour of Discovery 09/04/2013 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 Bratcher NMOCD - Mike Burton BLM	
By Whom? Brian Wall	Date and Hour: 09/06/2013	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**JUN 04 2014**

**RECEIVED**

If a Watercourse was Impacted, Describe Fully.\*  
NA

Describe Cause of Problem and Remedial Action Taken.\*

Upon approaching The Skelly B #158 at approximately 7:00 AM I noticed water spraying out of the ground and drove to the area and found a plugged injection well #58 leaking. So I drove to the header and closed the valve to prevent further leakage. This line was shut in at the Skelly injection well #84 also. Lost approximately 10 to 15 barrels of produced water and 2 barrels of oil. I notified Stephen with DFSI to place an emergency one call in order to excavate the line and have a roustabout cap the line immediately.

Describe Area Affected and Cleanup Action Taken.\*

The largest impacted area was misted pasture and measured approximately 116'X70' The spill traversed downhill to an area that measured approximately 356'X2' wide. DFSI was retained to remediate the area and remove all impacted soils to an NMOCD approved facility. The area was re- seeded and restored to its natural state per BLM guidelines.

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>Fred B Wall</i>		<b>OIL CONSERVATION DIVISION</b>	
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: 04/30/2014      Phone: 806-367-0645			

\* Attach Additional Sheets If Necessary