Linn Energy Skelly Unit #85

REMEDIATION WORK PLAN

API No. 30-015-05422

Release Date: 01/24/2014

Unit Letter B, Section 27, Township 17 South, Range 31 East

RP#2RP-2196

BLM Event# Unknown

July 23, 2014

Prepared by:

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

Mike Bratcher
Environmental Specialist
NM Oil Conservation District – Division 2
811 S. First St.
Artesia, NM 88210

RE: **Linn Energy Skelly Unit #85 – Remediation Work Plan**
UL/B, Section 27, T17S, R31E
API No. 30-015-05422

Mr. Bratcher,

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

The site is located south west of Maljamar NM, in Eddy County. The leak site resulted from a produced water leak. The source of the leak was due to corrosion on a 2" nipple and flange located on the injection line header. A C-141 was submitted to the NMOCD on March 27, 2014 (2RP-2196).

Site Assessment and Delineation

On January 30, 2014 DFSI personnel obtained surface and delineation samples of the leak area, which included SP1-SP8. Auger refusal was obtained on all of the eight sample points in and around 12' to 15'bgs. On June 6, 2014 four soil-bores were drilled and fully delineated to find the bottom of contamination.

Field samples were taken on eight sample points, along with four boreholes, each sample was tested for chlorides levels as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples found under the BLM/NMOCD standards, were taken to Cardinal Lab of Hobbs to obtain confirmation samples. And the results confirmed that bottom samples of each sample point were as follows:

SB1: 30'bgs – 288ppm Chlorides, <1.20 BTEX and <10 DRO/GRO
SB2: 40'bgs – 416ppm Chlorides, <0.30 BTEX and <10 DRO/GRO
SB3: 30'bgs – 368ppm Chlorides, <0.30 BTEX and <10 DRO/GRO
SB4: 25;bgs – 864ppm Chlorides, <0.30 BTEX and <10 DRO/GRO

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 236 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Option 1

Excavate the entire 5,712 sq. ft. area of compacted soil to 3'bgs, haul the contaminated soil to an approved disposal site, line with a 20 mil liner and backfill with fresh imported topsoil. Then reseed the entire area with a native vegetation mixture as per the BLM's guidelines for returning the site to its natural state.

Option 2

Excavate the entire 5,712 sq. ft. area of compacted soil to 4'bgs, haul the contaminated soil to an approved disposal site, line with a 20 mil liner and backfill with fresh imported topsoil. Then reseed the entire area with a native vegetation mixture as per the BLM's guidelines for returning the site to its natural state.

Side wall samples will be taking during the excavation procedure to ensure that all contaminates have been remediated. These samples will also be taken to an approved lab for confirmation before backfilling will take place.

Following the approval of one of the above plans, either Option 1 or Option 2 above and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

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

Sincerely,

Natalie Gladden
Environmental Consultant
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)602-1786
Fax: (575)964-8396
Email: ngladden@diversifiedfsi.com

cc Jeffery Robertson
NM Bureau of Land Management

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Lab Analytical Data
Drilling Bore Logs

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 # 85	Facility Type: Injection

Surface Owner: Federal	Mineral Owner:	API No.: 30-015-05422

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	27	17S	31E	660	North	1980	East	Eddy

Latitude: 32.8110323221284 **Longitude:** -103.855372475824

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 45 bbls	Volume Recovered: 10 bbls
Source of Release: 2 " nipple and flange	Date and Hour of Occurrence: 01/24/2014	Date and Hour of Discovery: 01/24/2014 11:00am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Burton- BLM Mike Bratcher-NM OCD	
By Whom? Brian Wall	Date and Hour 01/27/2014 0833	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: I drove up to injection well #85 at 11:00am and I found a leak 50 foot north west of this injection well at the injection line header. The one inch line that feeds injection wells #86 and #107 was leaking. I shut the one inch line valve in to prevent the fluids from accumulating on the ground. I called Double R Trucking to pick up the produced water off of the ground.

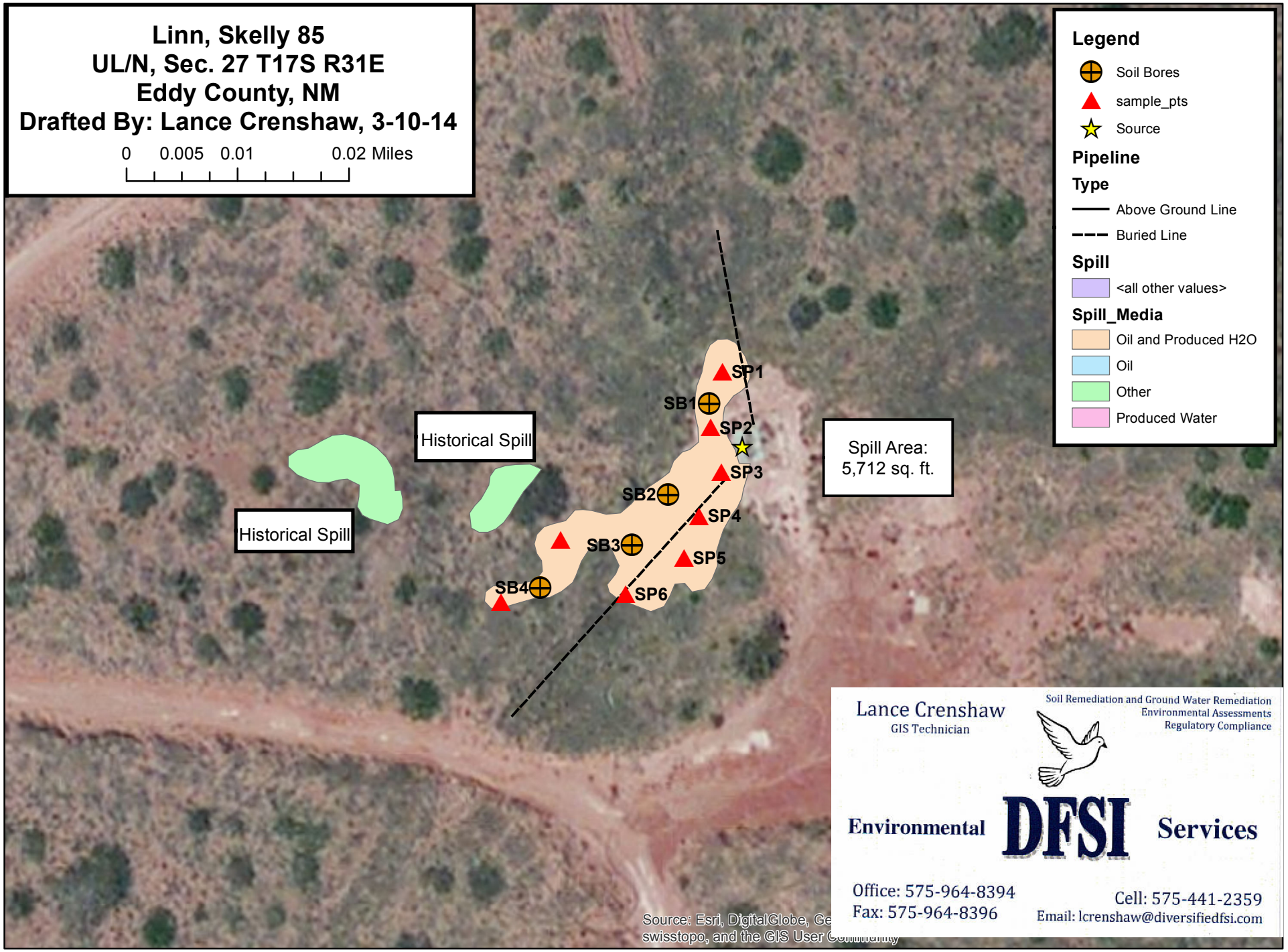
Describe Area Affected and Cleanup Action Taken.* : The impacted area was about 105 feet by 27 feet squared south east of the header. Called BSG roustabout to fix the leak. Water truck picked up about 10 barrels of fluid off of the ground. The cause of the leak was a bad steel flange and a bad 2 inch steel nipple.

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@linnenergy.com	Conditions of Approval:	Attached ☐
Date: 01/27/2014 Phone: 806-367-0645		

* Attach Additional Sheets If Necessary

Site Diagram



Lance Crenshaw
GIS Technician
Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance
Environmental DFSI Services
Office: 575-964-8394
Fax: 575-964-8396
Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Diversified Environmental Services

Company Name: Linn Energy
Location Name: Skelly #85

SP Date: 1/28/2014 1/29/2014 1/30/2014 1/31/2014 6/2/2014
Rel Date: 1/24/2014

SP1	CHL	TPH
Surface	17944	53.3
1'	9996	15.9
3'	4748	8.5
5'	3823	1.9
6'	6747	1
7'	6872	1
8'	8872	1.1
9'	5873	1
12'	2999	2.1
15'	Auger Refusal	

SP2	CHL	TPH
Surface	14495	319.2
1'	4748	79.3
3'	997	14.5
5'	3473	1.5
6'	3248	3.9
7'	3748	1
8'	4248	1.5
9'	3498	0.7
12'	Auger Refusal	

SP3	CHL	TPH
Surface	10871	221.4
1'	6747	51.3
3'	6048	37.7
5'	5873	7.4
6'	6223	29
7'	7497	9.7
8'	9996	43.3
9'	8122	20.1
12'	11246	52
15'	7497	6.9
18'	7497	3.5
20'	8997	5.3

SP4	CHL	TPH
Surface	13245	197.4
1'	7497	81.1
3'	8247	66.9
5'	10871	28.9
6'	8747	51.2
7'	8747	30.3
8'	8872	23.1
9'	8497	24.5
12'	6997	5.7
15'	Auger Refusal	

SP5	CHL	TPH
Surface	12496	39.8
1'	7497	69.7
3'	8247	84.1
5'	8547	2.7
6'	8747	10.6
7'	8747	13.1
8'	8122	7
9'	8872	3.2
12'	8872	2.9
15'	Auger Refusal	

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SP6	CHL	TPH
Surface	7497	65.2
1'	6747	43.6
3'	5425	45.2
5'	Auger Refusal	

SP7	CHL	TPH
Surface	7497	65.4
1'	6747	29.4
3'	5361	27.6
5'	Auger refusal	

SP8	CHL	TPH
Surface	7997	21
1'	7497	45.5
3'	6824	36.2
5'	8522	7.1

SP9	CHL	TPH

SP10	CHL	TPH

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

SB1	CHL	TPH
20'	2499	1
25'	474	0.9
30'	224	0.9
30'	288	<10

SB2	CHL	TPH
20'	3773	0.09
25'	1124	0.1
30'	1124	0.1
35'	799	0.1
40'	724	0.1
40'	416	<10

SB3	CHL	TPH
20'	3773	0.1
25'	574	0.1
30'	474	0.1
30'	368	<10

SB4	CHL	TPH
20'	524	0.1
25'	499	0.1
25'	864	<10

SP15	CHL	TPH

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

CARDINAL Laboratories

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

June 10, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY #85

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 14:22.

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

Cardinal Laboratories is accreditated 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

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	SKELLY #85	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SB1@30' (H401691-01)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	**0.480**	0.200	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.200	0.200	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.600	0.600	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<1.20	1.20	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**288**	16.0	06/05/2014	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	06/08/2014	ND	143	71.7	200	7.16	
DRO >C10-C28	<10.0	10.0	06/08/2014	ND	141	70.4	200	4.92	

Surrogate: 1-Chlorooctane *73.0 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *81.2 %* *63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	SKELLY #85	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SB2@40' (H401691-02)

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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<0.300	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**416**	16.0	06/05/2014	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	06/08/2014	ND	143	71.7	200	7.16	
DRO >C10-C28	<10.0	10.0	06/08/2014	ND	141	70.4	200	4.92	

Surrogate: 1-Chlorooctane *79.8 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *81.3 %* *63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	SKELLY #85	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SB3@30' (H401691-03)

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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<0.300	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**368**	16.0	06/05/2014	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	06/08/2014	ND	143	71.7	200	7.16	
DRO >C10-C28	<10.0	10.0	06/08/2014	ND	141	70.4	200	4.92	

Surrogate: 1-Chlorooctane *72.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *77.8 %* *63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/03/2014	Sampling Date:	06/02/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	SKELLY #85	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SB4@25' (H401691-04)

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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<0.300	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**864**	16.0	06/05/2014	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	06/08/2014	ND	143	71.7	200	7.16	
DRO >C10-C28	<10.0	10.0	06/08/2014	ND	141	70.4	200	4.92	

Surrogate: 1-Chlorooctane *84.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *85.3 %* *63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene

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: Linn Energy	BILL TO
Project Manager: Brian Wall	P.O. #:
Address:	Company: Linn Energy
City: State: Zip:	Attn: Brian Wall
Phone #: Fax #:	Address:
Project #: Project Owner:	City:
Project Name: Drilling (Sour Bor)	State: Zip:
Project Location: Skelly 85	Phone #:
Sampler Name: Michael Alvy / Lance Crenshaw	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
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	CC	TPH	BTEX
H401691																	
1	SB1@30'	G	1			X					X		6/2/14	2:15	X	X	X
2	SB2@40'	G	1			X					X		6/2/14	2:50	X	X	X
3	SB3@30'	G	1			X					X		6/2/14	3:30	X	X	X
4	SB4@25'	G	1			X					X		6/2/14	4:14	X	X	X

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 consequental 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:	Date: 6/3/14	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 9:22am		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		E-mail Results To: Ngladden@diversifiedfsi.com Rpons@diversifiedfsi.com Tjennings@diversifiedfsi.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.2°c #191	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

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

JOHN SCARBOROUGH DRILLING, INC.
2001 S. Hwy 87
P O BOX 305
LAMESA, TX 79331

Skelly 85:

SB1:

0 – 8	**Topsoil**
8 – 22	**Caliche**
22 – 28	**Sand**
28 – 30	**Red Clay**

SB2:

0 – 8	**Topsoil**
8 – 21	**Caliche**
21 – 30	**Sand**
30 – 40	**Red Clay**

SB3:

0 – 8	**Topsoil**
8 – 20	**Caliche**
20 – 30	**Sand & Clay**

SB4:

0 – 9	**Topsoil**
8 – 18	**Caliche**
18 – 25	**Sand & Clay**