Linn Energy JL Keel B #077

REMEDIATION WORK PLAN

API No. 30-015-28279

Release Date: 7/7/2012

Unit Letter H , Section 08 , Township 17 South, Range 31 East

RP# 2RP-1233

BLM Event# NU12162TG

November 25, 2015

Prepared by:

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

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

Wednesday, November 25, 2015

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

RE: **Linn Energy JL Keel B #77 – Remediation Work Plan**
UL/H, Section 8, T17S, R31E
API No. 30-015-28279

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 west of Maljamar NM, in Eddy County. The site resulted from a produced water leak from a buried 2" injection line. There was a release of approximately 21 bbls of fluids. The valve was closed at JL Keel B #76 location and the line repaired. No fluids were recovered. A significant amount of pasture was impacted. A form C-141 was submitted to the NMOCD on August 01, 2012.

Site Delineation

DFSI personnel used a hand auger to vertically delineate the leak area at several sample points. Soil samples were field screened for chloride. Headspace measurements were also performed using a Mini RAE Photoionization Detector (PID). Samples were collected at surface and in 1 ft. intervals until two consecutive samples show chloride well below 1,000 mg/kg. DFSI personnel delineated for 10 Sample Points and submitted to a commercial laboratory for analysis.

Conclusion

Laboratory confirmation has been received. Lab confirmed a significant reduction in Chlorides at depths of 1 to 4 ft bgs for sample points 1 thru 9. DFSI is proposing to excavate SP1 and SP2 located on the pad area to 1ft. bgs, backfill, and risk out at such time that the well is plugged. Excavate the area of SP4 to 3.5' bgs. In the areas in the arroyo we request to install erosion controls that will naturally backfill the arroyo during rain events. Upon approval of a plan, DFSI will complete remediation activities in accordance with NMOCD and BLM requirements, and then will submit a request to close the regulatory file for the site.

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

Please contact me with any questions and/or concerns. Thank you.

Sincerely,

Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

cc Shelly Tucker
NM Bureau of Land Management

Attachments: Site Photographs
Initial Form C-141
Lab analyticals
Site Diagram

Company Name: _____ **Linn Energy**
Location Name: _____ JL Keel B #77

Date: ____ 8/5/2013 2/26/2014
3/7/2014 6/30/2014

SP1	CHL	TPH
Surface	3520	
Surface	3598	
1'	1652	
2'	689	
3'	2655	
4'	AR	
2'	2560	
3'	299	
4'	374	
4'	240	
Surface	874	0.1
1'	549	0.1
2'	699	0.2
3'	624	0.2

SP2	CHL	TPH
Surface	<16	
2'	64	
Surface	343	
1'	331	
2'	355	
3'	AR	
3'	1620	
Surface	799	0.3
1'	524	0.1
2'	499	0.1

SP3	CHL
Surface	<16
2'	48
Surface	333
1'	346
2'	354
3'	310
4'	96

SP4	CHL
Surface	176
3'	2960
Surface	249
1'	249
2'	249
3'	3748
4'	199
5'	324
6'	249
7'	374
Surface	328
1'	703
2'	2147
3'	310

SP5	CHL
Surface	<16
1'	<16
Surface	354
1'	343
2'	417
3'	AR

SP6	CHL	TPH
Surface	48	
5'	224	
Surface	348	
1'	1399	
2'	3421	
3'	2570	
4'	1144	
5'	658	
6'	321	
Surface	724	0.1
1'	549	0.1
2'	524	0.1
3'	424	0.1

SP7	CHL	TPH
Surface	<16	
4'	96	
Surface	319	
1'	380	
2'	1061	
3'	1315	
4'	361	
5'	392	
Surface	0.32	0.1
1'	524	0.2
2'	549	0.1

SP8	CHL	TPH
Surface	<16	
2'	48	
3'	384	
4'	368	
Surface	349	
1'	2099	
2'	2388	
3'	1274	
4'	35	
Surface	124	
2'	274	
3'	524	
4'	474	
Surface	16	
2'	48	
3'	384	
4'	368	
Surface	699	0.1
1'	549	0.2
2'	524	0.1
3'	374	0.2

SP9	CHL
Surface	<16
1'	<16
Surface	350
1'	34

SP10	CHL
Surface	<16
Surface	382

Auger Refusal

SP11	CHL

SP12	CHL

SP13	CHL

SP14	CHL

SP15	CHL

SP21	CHL

SP22	CHL

SP22	CHL

SP23	CHL

SP24	CHL

SP25	CHL

SP26	CHL

SP27	CHL

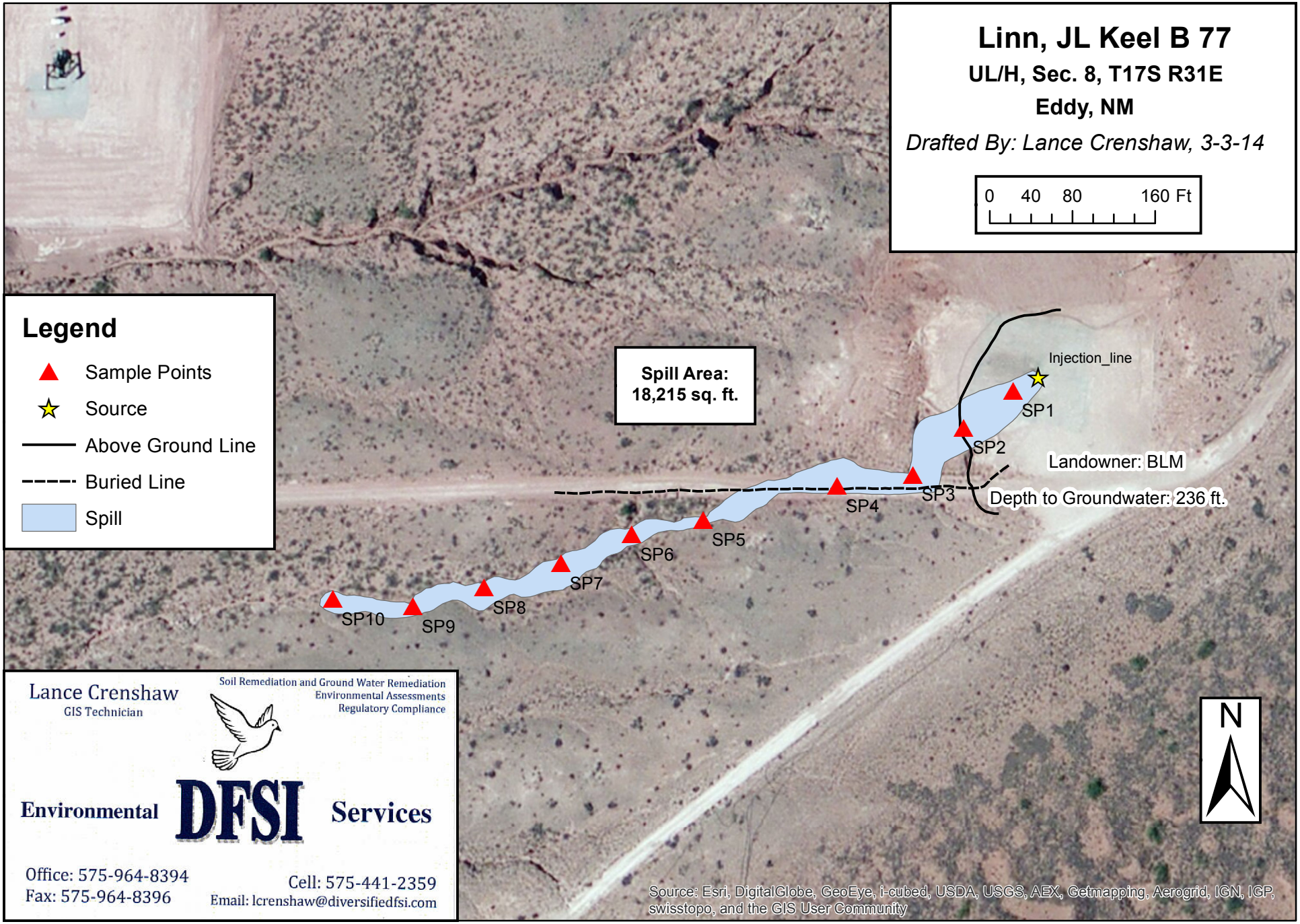
SP28	CHL

SP29	CHL

SP30	CHL

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples
dddd Red lettering - indicated Btex or TPH Issue
Etech Sample Confirmation

Excavation Plat



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

Linn Energy JL Keel B #077

Unit Letter H, Section 8, T17S R31E

Sign marking location 03/03/14

Excavated trench area east of lease road X573 03/03/14

Impacted pasture arroyo area east of lease road 03/03/14

Marker of SP 8 north end of arroyo 03/03/14

REVISED

RECEIVED
JUL 16 2012
NMOCD ARTESIA

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

nJMW1221429082

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating 269324	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: JL Keel B #77	Facility Type: Injection

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528279

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	08	17S	31E	1930	North	714	East	Eddy

Latitude: 32.85099 **Longitude:** -103.88486

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 21	Volume Recovered: 0
Source of Release: Pipeline	Date and Hour of Occurrence 07/07/2012 1pm	Date and Hour of Discovery: 07/07/2012 1:30pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? M. Bratcher-NM OCD Terry Gregston-BLM	
By Whom? Joe Hernandez	Date and Hour 07/09/2012 9am	
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.*: Drove to location, noticed water coming out of ground from 2" fiberglass injection line. Went to Keel B #76 well to close valve to isolate line.

Describe Area Affected and Cleanup Action Taken * . 2' x 300yd Cleanup action pending....

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Joe Hernandez	Approved by District Supervisor: Signed By Mike Bratcher
Title: Production Foreman	Approval Date: AUG 01 2012 Expiration Date.
E-mail Address: jhernandez@linnenergy.com	Conditions of Approval: Attached ☐
Date: 07/13/2012 Phone: 575-942-9492	

* Attach Additional Sheets If Necessary

2RP-1233

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 9/1/12

Bratcher, Mike, EMNRD

From:	Theresa McCracken [TMcCracken@linnenergy.com]
Sent:	Monday, July 16, 2012 1:03 PM
To:	Bratcher, Mike, EMNRD; Terry Gregston (tgregsto@blm.gov)
Cc:	Daniel Frick; Ron Ragland; Gary Wink; Joe Hernandez
Subject:	Rev. Linn JL Keel B #77
Attachments:	JL Keel B #77 7-7-12.pdf

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

Thank you,

Theresa McCracken
2130 W Bender
Hobbs, NM 88240
T: 575-736-1730 / F: 575-736-1740
tmccracken@linnenergy.com

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1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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RECEIVED
JUL 13 2012
NMOCD ARTESIA

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

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Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
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Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528279

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By Whom? Joe Hernandez	Date and Hour 07/09/2012 9am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

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Signature:	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor:	
Title: Production Foreman	Approval Date:	Expiration Date:
E-mail Address: jhernandez@linnenergy.com	Conditions of Approval: .	Attached ☐
Date: 07/13/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Theresa McCracken [TMcCracken@linnenergy.com]
Sent: Friday, July 13, 2012 1:59 PM
To: Bratcher, Mike, EMNRD; Terry Gregston (tgregsto@blm.gov)
Cc: Daniel Frick; Ron Ragland; Joe Hernandez; Gary Wink
Subject: Linn- JL Keel B #77 Initial C-141
Attachments: JL Keel B #77 7-7-12.pdf

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

Thank you,

Theresa McCracken
2130 W Bender
Hobbs, NM 88240
O: 575-738-1739 / F: 575-738-1740
tmccracken@linnenergy.com

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Bratcher, Mike, EMNRD

From: Gregston, Terry G [tgregsto@blm.gov]
Sent: Monday, July 16, 2012 12:55 PM
To: Theresa McCracken; Bratcher, Mike, EMNRD
Subject: RE: Linn- JL Keel B #77 Initial C-141

Ms. McCracken,

The C141 for this event does not state whether oil or water was released (or both). Also, it is impossible to release a fluid into unlined containment and to recover exactly what was released (there should be some loss of fluid that is absorbed into the ground). Do you wish to revise this spill report and resubmit?

Terry Gregston
Environmental Protection Specialist
Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220
Office (575) 234-5958
Cell (575) 361-2635
Fax (575) 234-5927

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From: Theresa McCracken [mailto:TMcCracken@linnenergy.com]
Sent: Friday, July 13, 2012 1:59 PM
To: Mike Bratcher (mike.bratcher@state.nm.us); Gregston, Terry G
Cc: Daniel Frick; Ron Ragland; Joe Hernandez; Gary Wink
Subject: Linn- JL Keel B #77 Initial C-141

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

Thank you,

LINN Energy
NASDAQ:LINE

Theresa McCracken
2130 W Bender
Hobbs, NM 88240
T: 575 736 1739 / F: 575 736-1740
tmccracken@linnenergy.com

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Bratcher, Mike, EMNRD

From: Gregston, Terry G [tgregsto@blm.gov]
Sent: Monday, July 16, 2012 1:02 PM
To: Theresa McCracken; Bratcher, Mike, EMNRD
Subject: RE: Linn- JL Keel B #77 Initial C-141

Okay, I guess it's Monday...your report *does* state that it was produced water but it doesn't state the measurement (gallons, barrels, pounds, etc.). I am assuming that it is barrels, but it is best if the company states that rather than me.

Also the amount released and recovered should not be the same.

Sorry for the confusion and the second email...

Terry Gregston
Environmental Protection Specialist
Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220
Office (575) 234-5958
Cell (575) 361-2635
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From: Gregston, Terry G
Sent: Monday, July 16, 2012 12:55 PM
To: 'Theresa McCracken'; Mike Bratcher (mike.bratcher@state.nm.us)
Subject: RE: Linn- JL Keel B #77 Initial C-141

Ms. McCracken,

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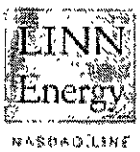
Sent: Friday, July 13, 2012 1:59 PM
To: Mike Bratcher (mike.bratcher@state.nm.us); Gregston, Terry G
Cc: Daniel Frick; Ron Ragland; Joe Hernandez; Gary Wink
Subject: Linn- JL Keel B #77 Initial C-141

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

Thank you,



Theresa McCracken
2130 W Bender
Hobbs, NM 88240
T: 575.738.1739 / F: 575.738.1740
tmccracken@linnenergy.com

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GROUND WATER SEARCH

Linn Energy JL Keel B #77

UL: B **Sec:** 28 **T:** 17S **R:** 31E

Groundwater Depth: 236 ft.

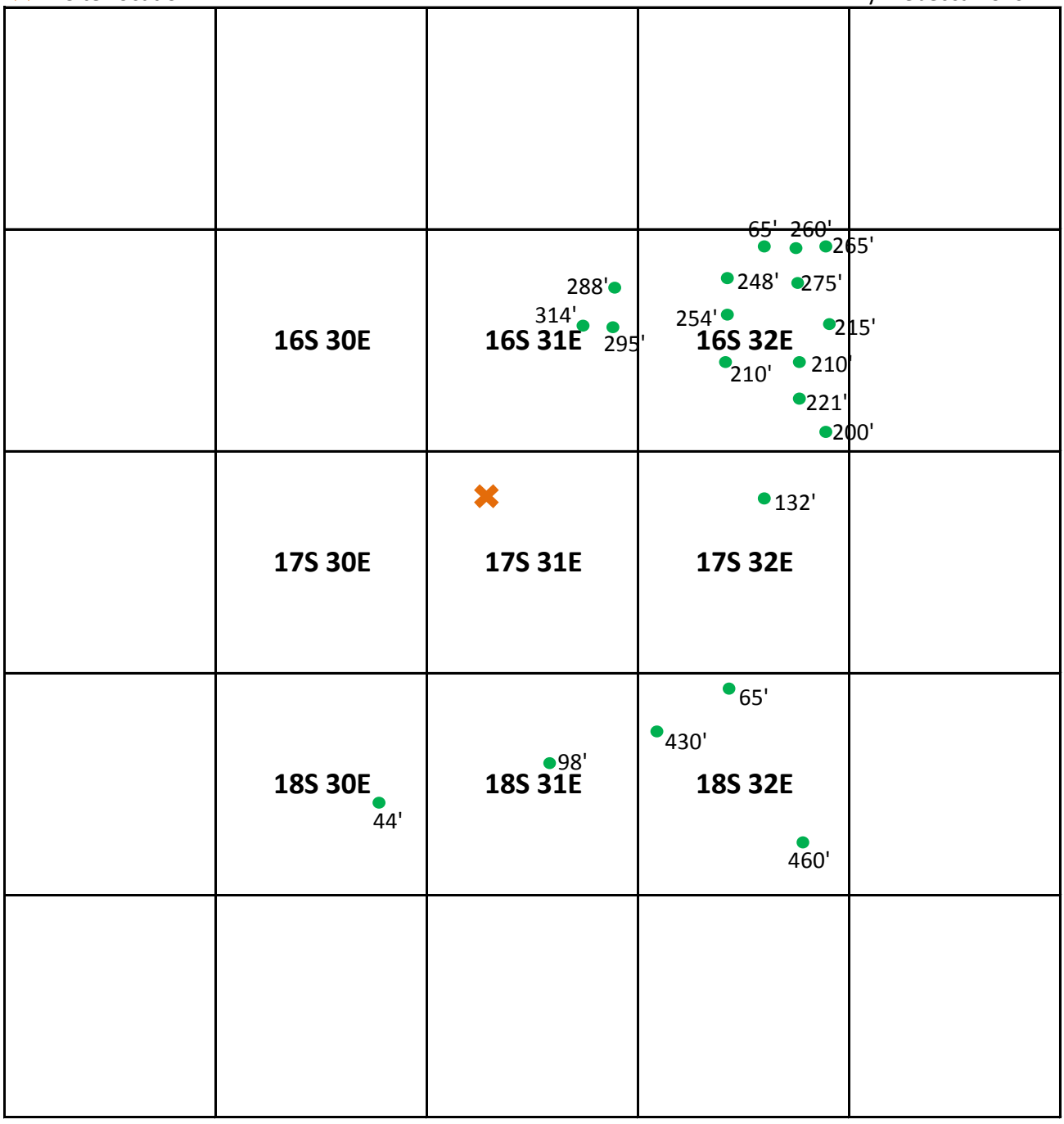
● = NM Office of the State Engineer

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

✖ = Site Location

Date: 02/20/2014

By: Rebecca Pons



CARDINAL Laboratories

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

August 12, 2013

GARY WINK

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: J. L. KEEL B #77

Enclosed are the results of analyses for samples received by the laboratory on 08/07/13 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 1 @ SURFACE (H301852-01)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*99.3 %*	*61.3-142*
Surrogate: Toluene-d8	*93.7 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3520**	16.0	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*92.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*109 %*	*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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 2 @ SURFACE (H301852-02)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*98.1 %*	*61.3-142*
Surrogate: Toluene-d8	*94.1 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*88.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*105 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 3 @ SURFACE (H301852-03)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*98.7 %*	*61.3-142*
Surrogate: Toluene-d8	*94.7 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.7 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*91.2 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*109 %*	*63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 4 @ SURFACE (H301852-04)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*95.7 %*	*61.3-142*
Surrogate: Toluene-d8	*92.6 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*95.7 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*87.2 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*104 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 5 @ SURFACE (H301852-05)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*96.0 %*	*61.3-142*
Surrogate: Toluene-d8	*93.7 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.4 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*95.7 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*117 %*	*63.6-154*

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 6 @ SURFACE (H301852-06)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*100 %*	*61.3-142*
Surrogate: Toluene-d8	*94.8 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*98.1 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	**28.3**	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*93.0 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*116 %*	*63.6-154*

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 7 @ SURFACE (H301852-07)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*99.8 %*	*61.3-142*
Surrogate: Toluene-d8	*95.2 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*100 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*89.6 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*108 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ SURFACE (H301852-08)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.200	0.200	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.200	0.200	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.600	0.600	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<1.20	1.20	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*98.5 %*	*61.3-142*
Surrogate: Toluene-d8	*94.2 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*98.3 %*	*65.7-141*

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	08/12/2013	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	**1230**	100	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*84.5 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*191 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/05/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 9 @ SURFACE (H301852-09)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/10/2013	ND					

Surrogate: Dibromofluoromethane	*98.0 %*	*61.3-142*
Surrogate: Toluene-d8	*94.2 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.5 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	183	91.3	200	3.63	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	189	94.4	200	3.98	

Surrogate: 1-Chlorooctane	*93.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*112 %*	*63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 10 @ SURFACE (H301852-10)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.200	0.200	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.200	0.200	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.600	0.600	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<1.20	1.20	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*97.9 %*	*61.3-142*
Surrogate: Toluene-d8	*95.5 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.9 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*88.4 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*109 %*	*63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 11 @ SURFACE (H301852-11)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.200	0.200	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.200	0.200	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.600	0.600	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<1.20	1.20	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*99.9 %*	*61.3-142*
Surrogate: Toluene-d8	*95.5 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*99.9 %*	*65.7-141*

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	08/12/2013	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*95.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*115 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 12 @ SURFACE (H301852-12)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*99.4 %*	*61.3-142*
Surrogate: Toluene-d8	*95.6 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.9 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/12/2013	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*93.2 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*115 %*	*63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 13 @ SURFACE (H301852-13)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.100	0.100	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.100	0.100	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.300	0.300	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.600	0.600	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*96.6 %*	*61.3-142*
Surrogate: Toluene-d8	*94.7 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*97.3 %*	*65.7-141*

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	08/12/2013	ND	432	108	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*99.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*119 %*	*63.6-154*

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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 ENERGY
GARY WINK
RR1, BOX 24 B
KINGFISHER OK, 73750
Fax To: (405) 375-6693

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 14 @ SURFACE (H301852-14)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*97.4 %*	*61.3-142*
Surrogate: Toluene-d8	*93.9 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*96.8 %*	*65.7-141*

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	08/12/2013	ND	432	108	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*95.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*117 %*	*63.6-154*

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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 ENERGY
GARY WINK
RR1, BOX 24 B
KINGFISHER OK, 73750
Fax To: (405) 375-6693

Received:	08/07/2013	Sampling Date:	08/06/2013
Reported:	08/12/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 15 @ SURFACE (H301852-15)

BTEX 8260B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2013	ND	2.17	108	2.00	3.04	
Toluene*	<0.050	0.050	08/11/2013	ND	1.97	98.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	08/11/2013	ND	1.97	98.5	2.00	2.23	
Total Xylenes*	<0.150	0.150	08/11/2013	ND	5.82	97.0	6.00	2.41	
Total BTEX	<0.300	0.300	08/11/2013	ND					

Surrogate: Dibromofluoromethane	*97.7 %*	*61.3-142*
Surrogate: Toluene-d8	*94.7 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*99.5 %*	*65.7-141*

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	08/12/2013	ND	432	108	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	08/10/2013	ND	181	90.4	200	2.80	
DRO >C10-C28	<10.0	10.0	08/10/2013	ND	193	96.3	200	3.04	

Surrogate: 1-Chlorooctane	*87.5 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*106 %*	*63.6-154*

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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

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

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
Project Manager:	Gary Wink
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	JL Keel B #77
Project Location:	Maljamar
Sampler Name:	Daniel Lockhart

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	SAME
City:	
State:	Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Btex	TPH 8015m	Cl-
H301853																	
1	SP1@surf	G	1			✓					✓		8-5-13	8:42	✓	✓	✓
2	SP2@surf	G	1			✓					✓		8-5-13	8:44	✓	✓	✓
3	SP3@surf	G	1			✓					✓		8-5-13	8:46	✓	✓	✓
4	SP4@surf	G	1			✓					✓		8-5-13	8:52	✓	✓	✓
5	SP5@surf	G	1			✓					✓		8-5-13	8:54	✓	✓	✓
6	SP6@surf	G	1			✓					✓		8-5-13	8:56	✓	✓	✓
7	SP7@surf	G	1			✓					✓		8-5-13	9:02	✓	✓	✓
8	SP8@surf	G	1			✓					✓		8-5-13	9:04	✓	✓	✓
9	SP9@surf	G	1			✓					✓		8-5-13	9:06	✓	✓	✓
10	SP10@surf	G	1			✓					✓		8-6-13	12:10	✓	✓	✓

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Relinquished By:	Date: 8/7/13	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Daniel Lockhart	Time: 4:50	Jodi Henson	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email: gawink@linnenergy.com aruth@diversifiedPsi.com
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.2°

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

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

#54

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: Gary Wink	P.O. #:
Address:	Company:
City: State: Zip:	Attn: SAME
Phone #: Fax #:	Address:
Project #: Project Owner:	City:
Project Name: JL Keel B #77	State: Zip:
Project Location: Maljamar	Phone #:
Sampler Name: Daniel Lockhart	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	TPH 8015m	Cl-
H301853																	
11	SP11@surf	G	1			✓					✓		8-6-13	12:06	✓	✓	✓
12	SP12@surf	G	1			✓					✓		8-6-13	12:03	✓	✓	✓
13	SP13@surf	G	1			✓					✓		8-6-13	12:00	✓	✓	✓
14	SP14@surf	G	1			✓					✓		8-6-13	11:57	✓	✓	✓
15	SP15@surf	G	1			✓					✓		8-6-13	11:54	✓	✓	✓

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Relinquished By: Daniel Lockhart	Date: 8/7/13 Time: 4:50	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.2°C	Sample Condition: Cool ☑ Yes ☐ No, Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: Email: gawink@linnenergy.com aruth@diversifiedPsi.com

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

#54

CARDINAL Laboratories

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

August 19, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: J. L. KEEL B #77

Enclosed are the results of analyses for samples received by the laboratory on 08/14/13 15:17.

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.

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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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/05/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 5 @ 1' (H301931-01)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*95.1 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*106 %*	*65.7-141*

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	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*84.7 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*97.5 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/05/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 2 @ 2' (H301931-02)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*95.4 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*101 %*	*65.7-141*

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	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*95.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*112 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/05/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 3 @ 2' (H301931-03)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*94.2 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*103 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*86.0 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*98.6 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/05/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 4 @ 3' (H301931-04)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*96.9 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*102 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2960**	16.0	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*93.2 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*103 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/06/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 7 @ 4' (H301931-05)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*94.7 %*	*61.3-142*
Surrogate: Toluene-d8	*104 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*104 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*87.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*98.3 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/06/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 6 @ 5' (H301931-06)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*95.3 %*	*61.3-142*
Surrogate: Toluene-d8	*103 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*103 %*	*65.7-141*

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	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*91.0 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*102 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/06/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ 4' (H301931-07)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*94.5 %*	*61.3-142*
Surrogate: Toluene-d8	*103 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*105 %*	*65.7-141*

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	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	**26.4**	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*91.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*106 %*	*63.6-154*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/14/2013	Sampling Date:	08/06/2013
Reported:	08/19/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	MALJAMAR, NM		

Sample ID: SP 9 @ 1' (H301931-08)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2013	ND	2.03	102	2.00	3.04	
Toluene*	<0.050	0.050	08/16/2013	ND	2.08	104	2.00	2.63	
Ethylbenzene*	<0.050	0.050	08/16/2013	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	08/16/2013	ND	6.03	101	6.00	1.89	
Total BTEX	<0.300	0.300	08/16/2013	ND					

Surrogate: Dibromofluoromethane	*95.4 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*102 %*	*65.7-141*

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	08/15/2013	ND	416	104	400	3.92	

TPH 8015M mg/kg **Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2013	ND	172	86.2	200	3.38	
DRO >C10-C28	<10.0	10.0	08/16/2013	ND	185	92.6	200	2.28	

Surrogate: 1-Chlorooctane	*84.3 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*95.6 %*	*63.6-154*

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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

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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:	P.O. #:
Address:	Company:
City: State: Zip:	Attn: SAME
Phone #: Fax #:	Address:
Project #: Project Owner:	City:
Project Name: JL KEEL B 77	State: Zip:
Project Location: MALJAMAR	Phone #:
Sampler Name: DANIEL LOCKHART	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	CL	TPH 8015M
H30930-01	SP5 @ 1'	G	1			X					X		8-5-13	11:44	X	X	X
02	SP2 @ 2'	G	1			X					X		8-5-13	11:11	X	X	X
03	SP3 @ 2'	G	1			X					X		8-5-13	11:32	X	X	X
04	SP4 @ 3'	G	1			X					X		8-5-13	2:05	X	X	X
05	SP7 @ 4'	G	1			X					X		8-6-13	9:45	X	X	X
06	SP6 @ 5'	G	1			X					X		8-6-13	10:20	X	X	X
07	SP8 @ 4'	G	1			X					X		8-6-13	10:00	X	X	X
08	SP9 @ 1'	G	1			X					X		8-6-13	10:05	X	X	X

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Relinquished By: Daniel Lockhart	Date: 8/14/13 Time: 3:17p	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -6.8°C	Sample Condition: Cool ☑ Yes ☐ No, Intact ☑ Yes ☐ No	CHECKED BY: (Initials) CK	REMARKS: aruth@diversifiedfsi.com bwall@linnenergy.com

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

#5

CARDINAL Laboratories

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

October 08, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: J. L. KEEL B #77

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Received:	10/04/2013	Sampling Date:	10/04/2013
Reported:	10/08/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 4 @ 5' (H302415-01)

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	10/07/2013	ND	1.66	83.2	2.00	2.37	
Toluene*	<0.200	0.200	10/07/2013	ND	1.76	87.8	2.00	1.71	
Ethylbenzene*	<0.200	0.200	10/07/2013	ND	1.81	90.7	2.00	3.13	
Total Xylenes*	<0.600	0.600	10/07/2013	ND	5.47	91.1	6.00	2.26	
Total BTEX	<1.20	1.20	10/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *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	10/08/2013	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/07/2013	ND	192	95.8	200	0.902	
DRO >C10-C28	<10.0	10.0	10/07/2013	ND	181	90.4	200	0.0160	

Surrogate: 1-Chlorooctane *94.6 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *96.3 %* *63.6-154*

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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

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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
Project Manager:	Brian Wall
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	JL Keel B #77
Sampler Name:	Miguel Gómez

BILL TO

P.O. #:	
Company:	Same
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chloride	Tall Bolsm	BTEX
H302415	1 SP4 @ 5'	G	1			✓					✓		10-4-13	9:11	✓	✓	✓

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Relinquished By: Miguel Gómez	Date: 10/4/13 Time: 4:00	Received By: Jodi Henson	
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 6.2°c

Sample Condition: Cool: ☐ Yes ☑ No; Intact: ☑ Yes ☐ No

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Bwall@Linnenergy.com
aruth@diversifiedfsi.com

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

CARDINAL Laboratories

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

March 05, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: J. L. KEEL B #77

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

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/26/2014	Sampling Date:	02/26/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ SURFACE (H400583-01)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2014	ND	2.27	113	2.00	0.367	
Toluene*	<0.050	0.050	03/03/2014	ND	2.21	111	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	2.08	104	2.00	0.277	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	6.26	104	6.00	0.971	
Total BTEX	<0.300	0.300	03/03/2014	ND					

Surrogate: Dibromofluoromethane	*95.4 %*	*61.3-142*
Surrogate: Toluene-d8	*102 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*105 %*	*65.7-141*

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	03/04/2014	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	02/26/2014	Sampling Date:	02/26/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ 2 (H400583-02)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2014	ND	2.27	113	2.00	0.367	
Toluene*	<0.050	0.050	03/03/2014	ND	2.21	111	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	2.08	104	2.00	0.277	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	6.26	104	6.00	0.971	
Total BTEX	<0.300	0.300	03/03/2014	ND					

Surrogate: Dibromofluoromethane	*98.1 %*	*61.3-142*
Surrogate: Toluene-d8	*103 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*105 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/04/2014	ND	416	104	400	0.00	

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

Received:	02/26/2014	Sampling Date:	02/26/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ 3 (H400583-03)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2014	ND	2.27	113	2.00	0.367	
Toluene*	<0.050	0.050	03/03/2014	ND	2.21	111	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	2.08	104	2.00	0.277	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	6.26	104	6.00	0.971	
Total BTEX	<0.300	0.300	03/03/2014	ND					

Surrogate: Dibromofluoromethane	*99.1 %*	*61.3-142*
Surrogate: Toluene-d8	*101 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*100 %*	*65.7-141*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	03/04/2014	ND	416	104	400	0.00	

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

Received:	02/26/2014	Sampling Date:	02/26/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	J. L. KEEL B #77	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NM		

Sample ID: SP 8 @ 4 (H400583-04)

BTEX 8260B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2014	ND	2.27	113	2.00	0.367	
Toluene*	<0.050	0.050	03/03/2014	ND	2.21	111	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	2.08	104	2.00	0.277	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	6.26	104	6.00	0.971	
Total BTEX	<0.300	0.300	03/03/2014	ND					

Surrogate: Dibromofluoromethane	*98.9 %*	*61.3-142*
Surrogate: Toluene-d8	*98.8 %*	*71.3-129*
Surrogate: 4-Bromofluorobenzene	*104 %*	*65.7-141*

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	03/04/2014	ND	416	104	400	0.00	

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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

Cardinal Laboratories

*=Accredited Analyte

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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: DUSI	**BILL TO**
Project Manager: Natile gladden	P.O. #:
Address:	Company: DUSI
City: State: Zip:	Attn: Natile gladden
Phone #: Fax #:	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location: JL Keel B 47 - Eddy County	Phone #:
Sampler Name: Michael Alsup	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	CL	TEX†									
H400583																									
1	sp.8@surf												2/26/14	11:15	X	X									
2	sp.8@2												2/26/14	11:30	X	X									
3	sp.8@3												2/26/14	11:45	X	X									
4	sp.8@4												2/26/14	1:50	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 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:	Date: 2/26/14	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 3:25		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Ngladden@diversified.com
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.2°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	

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