

Linn Energy JL Keel B #007

REMEDIATION WORK PLAN

API No. 30-015-05108

Release Date: Unknown date reported 3/6/2014

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

RP# 2RP-2209

April 2, 2015

Prepared by:

Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

LINN ENERGY 04/02/2015

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

RE: Linn Energy JL Keel B #007 – Remediation Work Plan UL/C, Section 08, T17S, R31E API No. 30-015-05108

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 hydrocarbon and produced water leak. The source of the leak was never determined. Fluids were released to surface due to an unknown source. A C-141 was submitted to the NMOCD on March 6, 2014 (2RP-2209).

Site Assessment and Delineation

On April 2, 2014 DFSI ordered an Arch Survey from Boone Arch Surveys. At that time the site was found to be negative of any artifacts. On June 26, 2014 DFSI employees delineated the site, which eight samples points were taken. All of the sample points were confirmed below the reportable levels.

Field samples were taken on eight sample points, each sample was tested for chlorides levels as well as BTEX. The BTEX 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.

On March 9th, 2015 DFSI personnel revisited and resampled the spill area. The site was sampled near the original eight sample points using the same methods as above. All field data and Lab data is attached.

LINN ENERGY 04/02/2015

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 227 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:

The areas of sample points #1, #2 and #3 are all either on a road or caliche pad (location). These areas we will scrape 4" to 6" BGS and backfill with clean caliche. The areas in the pasture are in a small erosion drainage. These areas will be blended and re contoured with the surrounding terrain to help stop the erosion of the pasture lands. The impacted pasture will be seeded with a BLM approved seed mixture. All contaminated soil will be disposed of at an approved disposal facility.

Following the approval of this plan 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,

Michael Burton

Environmental Operations Director Diversified Field Service, Inc.

Michael Burton

206 W. Snyder

Hobbs, NM 88240

LINN ENERGY 04/02/2015

Office: (575)964-8394 Mobile: (575)390-5454 Fax: (575)964-8396

Email: mburton@diversifiedfsi.com

cc Jeff Robertson

NM Bureau of Land Management

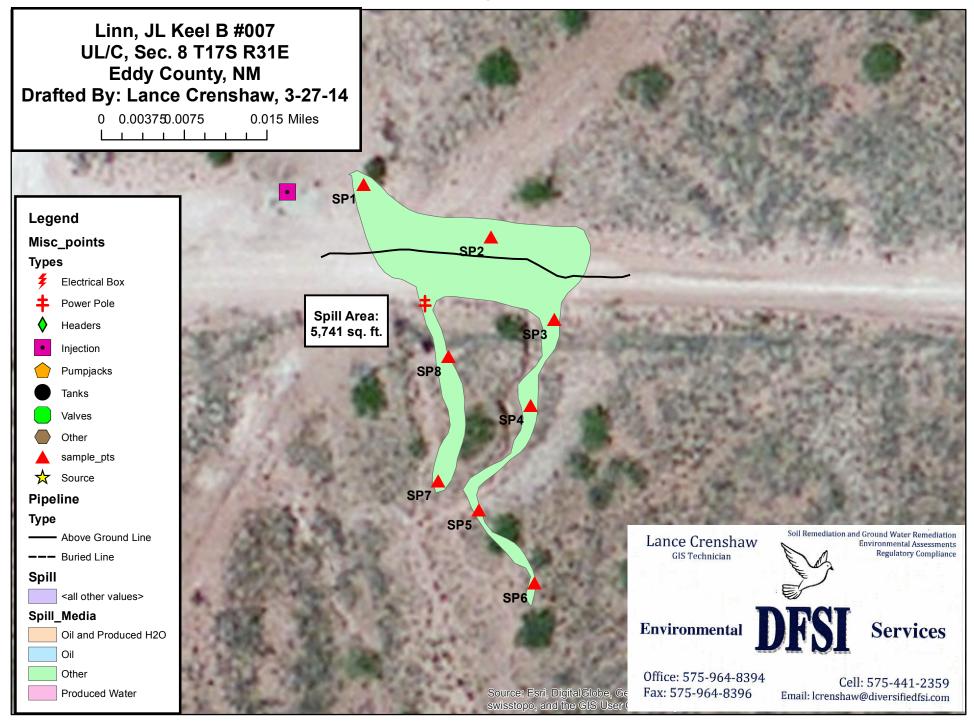
Attachments:

Initial Form C-141 Site/Sample Map Sample Data

Lab Analytical Data

Arch Survey

Site Diagram





Linn Energy JL Keel B #007

Photo Page









Diversified Environmental Services

Company Name: linn energy SP Date: 6/26/14

Location Name: jl keel b 007 Rel Date: Unknown filed w/NMOCD 03-06-14

SP1	CHL	TPH	SP2	CHL	TPH	SP3	CHL	TPH	SP4	CHL	TPH	SP5	CHL	TPH
1'	624	0.1	1'	474	0.1	1'	549	0.1	1'	549	0.1	1'	374	0.1
2'	573	0.1	2'	524	0.1	2'	699	0.1	2'	724	0.1	2'	374	0.1
3'	573	0.1	3'	524	0.1	3'	799	0.1	3'	524	0.2	3'	374	0.1
3'	192	<.10	3'	128	<.10	4'	1024		3'	<.16	<.10	3"	<.16	<.10
						5'	1474	0.2						
						6'	1799	0.1						
						7'	949	0.1						
						8'	949	0.1						
						9'	524	0.1						
						9'	<.16	11.1						

SP6	CHL	TPH	SP7	CHL	TPH	SP8	CHL	TPH	SP9	CHL	TPH	SP10	CHL	TPH
1'	374	0.1	1'	524	0.1	1'	449	0.2						
2'	374	0.1	2'	524	0.1	2'	424	0.2						
3'	64	<.10	3'	374	0.2	3'	424	0.1						
			3'	48	<.10	3'	128	< 0.10						

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples

Company Name:Linn EnergySP Date:3/9/2015Location Name:JL KEEL B #7Rel Date:

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	PID
surf	1149	0	surf	2724	0	surf	2249	0	surf	474	0	surf	499	0
1'	924	0	1'	624		1'	524	0						
2'	674													
ļ														

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SP9	CHL	TPH	SP10	CHL	TPH
surf	474	0	surf	524	0	surf	524	0						
												1		
												1		
												1 -		
												1 -		
								+				1 -		
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March 11, 2015

DENNIS POTTER LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: J. L. KEEL B #007

Enclosed are the results of analyses for samples received by the laboratory on 03/09/15 16:12.

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

Cardinal Laboratories is 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)

Celey D. Keine

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



LINN OPERATING-HOBBS DENNIS POTTER 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015 Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 1 @ 2' (H500646-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.10	105	2.00	1.08	
Toluene*	< 0.050	0.050	03/10/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	91.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 9	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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LINN OPERATING-HOBBS DENNIS POTTER 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 2 @ 1' (H500646-02)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.10	105	2.00	1.08	
Toluene*	<0.050	0.050	03/10/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	87.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.8	% 52.1-17	6						

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Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 3 @ 1' (H500646-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.10	105	2.00	1.08	
Toluene*	<0.050	0.050	03/10/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	90.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.8	% 52.1-17	6						

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Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 4 @ SURFACE (H500646-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.10	105	2.00	1.08	
Toluene*	<0.050	0.050	03/10/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	89.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.9	% 52.1-17	6						

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LINN OPERATING-HOBBS DENNIS POTTER 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 5 @ SURFACE (H500646-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	< 0.050	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	92.3 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.3	% 52.1-17	6						

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LINN OPERATING-HOBBS DENNIS POTTER 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 6 @ SURFACE (H500646-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	<0.050	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	90.8 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.79	52.1-17	6						

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LINN OPERATING-HOBBS **DENNIS POTTER** 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP. 7 @ SURFACE (H500646-07)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	< 0.050	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 61-154	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	81.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.4	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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LINN OPERATING-HOBBS DENNIS POTTER 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 03/09/2015 Sampling Date: 03/09/2015

Reported: 03/11/2015 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP. 8 @ SURFACE (H500646-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	< 0.050	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/10/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/11/2015	ND	203	102	200	0.942	
Surrogate: 1-Chlorooctane	87.0 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.4 9	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name. C, NN	E C'NN ENERGY							-				00	BILL TO						ANALYSIS REQUEST	YSIS	RE	0	ES	-				
Project Manager:	mik						- 1		P.O.	0.#	"	ı											_	1	\dashv			
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FOR LAB USE ONLY	(2	MATRIX	2			PR	PRESERV	RV	SAMPLING															
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analyses. All claims including service. In no event shall of	aralyses. All claims and paringes 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 negligines and any other cause whiteholds be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable in no ward shall Cardinal be better for more analysis.	any claim deemed	arising	whet	her ba	sed in	cont	act or	lort,	shall ed by	Care	nited final	o the amount paid by the ch thin 30 days after completion	ent for the	applicable							- 1	ŀ				-	L

Delivered By: (Circle One) Time: Received By: Sample Condition
Cool Intact
Tyes Yes
No No No Phone Result:
Fax Result:
REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

Relinquished By:

Relinquished By:

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

Sampler - UPS - Bus - Other:



July 08, 2014

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

RE: J. L. KEEL B #007

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 14:50.

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

Cardinal Laboratories is 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.

Celey D. Keens

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



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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: SP. 1 @ 3' (H402000-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7	
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4	
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3	
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1	
Total BTEX	<0.300	0.300	07/04/2014	ND					
Surrogate: Dibromofluoromethane	96.1	% 61.3-14	2						
Surrogate: Toluene-d8	108	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	96.0	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	
Surrogate: 1-Chlorooctane	116	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	127	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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NOT GIVEN

Analytical Results For:

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Kathy Perez

Sample ID: SP. 2 @ 3' (H402000-02)

Project Location:

BTEX 8260B	mg	/kg	Analyze	d By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/06/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/06/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/06/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/06/2014	ND					
Surrogate: Dibromofluoromethane	96.9	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	95.8	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Analyzed By: mc/

Project Location: NOT GIVEN

ma/ka

Sample ID: SP. 3 @ 9' (H402000-03)

RTFY 8260R

B1EX 8260B	mg	/ Kg	Anaiyze	ed By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/06/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/06/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/06/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/06/2014	ND					
Surrogate: Dibromofluoromethane	100	% 61.3-14	12						
Surrogate: Toluene-d8	102	% 71.3-12	19						
Surrogate: 4-Bromofluorobenzene	92.5	% 65.7-14	!1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	11.1	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	106	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	i4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Analyzed By: mc/

Project Location: NOT GIVEN

ma/ka

Sample ID: SP. 4 @ 3' (H402000-04)

RTFY 8260R

B1EX 8260B	mg	/кд	Analyze	ea By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/06/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/06/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/06/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/06/2014	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	22						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	93.1	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	<10.0	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: SP. 5 @ 3' (H402000-05)

BTEX 8260B	mg/	kg	Analyze	d By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/06/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/06/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/06/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/06/2014	ND					
Surrogate: Dibromofluoromethane	102 %	% 61.3-14	2						
Surrogate: Toluene-d8	107 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	93.5	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	39.6	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	108 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 %	% 63.6-15	4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: **NOT GIVEN**

Sample ID: SP. 6 @ 3' (H402000-06)

BTEX 8260B	mg,	/kg	Analyze	d By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/06/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/06/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/06/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/06/2014	ND					
Surrogate: Dibromofluoromethane	104	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	93.5	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	<10.0	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	119 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	122 5	% 63.6-15	4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil Project Name: J. L. KEEL B #007 Sampling Condition: Cool

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Analyzed By: mc/

Project Location: NOT GIVEN

ma/ka

Sample ID: SP. 7 @ 3' (H402000-07)

RTFY 8260R

B1EX 8260B	mg,	/ Kg	Analyze	a By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/07/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/07/2014	ND					
Surrogate: Dibromofluoromethane	99.2	% 61.3-14	2						
Surrogate: Toluene-d8	107	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	93.1	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	<10.0	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117	% 63.6-15	4						

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

Fax To: (575) 738-1740

Received: 07/01/2014 Sampling Date: 06/26/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: J. L. KEEL B #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Analyzed By: mc/

Project Location: NOT GIVEN

ma/ka

Sample ID: SP. 8 @ 3' (H402000-08)

RTFY 8260R

B1EX 8260B	mg,	/ Kg	Anaiyze	ea By: ms/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2014	ND	2.18	109	2.00	9.71	
Toluene*	<0.050	0.050	07/07/2014	ND	1.84	92.2	2.00	9.99	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.75	87.3	2.00	10.4	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.43	90.6	6.00	11.5	
Total BTEX	<0.300	0.300	07/07/2014	ND					
Surrogate: Dibromofluoromethane	105	% 61.3-14	12						
Surrogate: Toluene-d8	107	% 71.3-12	19						
Surrogate: 4-Bromofluorobenzene	88.4	% 65.7-14	11						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/07/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2014	ND	184	91.8	200	0.423	
DRO >C10-C28	<10.0	10.0	07/03/2014	ND	195	97.5	200	0.786	
Surrogate: 1-Chlorooctane	109	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	i4						

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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Lion	BILL TO	ANAI VCIC
Project Manager: Brian Wall	P.O. #:	
ess:	Company: Linn Evral	Sau
City: State:	Zip: Attn: Brian Wall	d
Phone #: Fax #:	Addres	
Project #: Project Owner:		
Project Name:	State: Zin:	
Project Location: The year B 007	#	
Sampler Name: Michael Alver	Fax #:	
	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.		TIME CA TRH BTEX
2 St. 10 3	XX X X X X X X X X X X X X X X X X X X	91:48 X
5 50.30 g	X	Soid X X X X X X X X X X X X X X X X X X X
1 2 8 2 V	X X	5.30
50.503	8 - X	11:35
18 00 00 0	William X X	11:45 4
0 00 c	X	11:40 Y+++
Sp.N(O) S	X X Wall	11:30 7 4 +
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm arising whether beard in contract or test should be suit at the second of the second or test should be suited as	W daim arising whether based in contrad act of aball to E. it at a second act of a secon	
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, infiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is \$45500 your any of the above stated reasons or otherwise.	preventions of the amount paid by the clerk for the cover shall be deemed whited unless made in writing and received by Cardinal within 30 days after completion of the ages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarin betreunder by Cardinal, regardless of whether such claim is these typon any of the above stated reasons or otherwise.	of by the elect for the completion of the applicable forming the applicable flemt, its subsidiaries, sons or otherwise.
Date:	Received By:	Phone Result:
Relinquished By:	Received By:	E-mail Results To:

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

في

Sample Condition

CHECKED BY (Initials)

Tjennings@diversifiedfsi.com

Rpons@diversifiedfsi.com Ngladden@diversifiedfsi.com E-mail Results To:

Relinquished By:

Date: Time:

Cardinal cannot accont workal channoe Dloaco fav writton channoc to IETE1 202_2226

District I
1625 N. French Dr., Hobbs, NM 88240
District II.
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IY.
1220 S. St. Francis Dr., Santa Fe, NM 87505

Date: 3/4/14
Attach Additional Sheets If Necessary

Phone: 806-367-0645

State of New Mexico Energy Minerals and Natural Resources

S MAR 06 2014

RECEIVED

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in NMOCD ARTACONAINCE with 19.15.29 NMAC.

Santa Fe, NM 87505 **Release Notification and Corrective Action** nHMP1407240205 **OPERATOR** ☐ Initial Report Final Report Name of Company Linn Operating, Inc. Contact: Brian Wall 149324 Telephone No.575-738-1739 Address 2130 W. Bender Hobbs, NM 88240 Facility Name JL Keel B 007 Facility Type Injection Surface Owner Federal Mineral Owner Federal API No. 30-015-05108 LOCATION OF RELEASE Feet from the East/West Line County Eddy Unit Letter Township Range Feet from the North/South Line Section 1980 WL 178 31E 660 Latitude 32.86647 Longitude 103.8571 **NATURE OF RELEASE** Type of Release Crude oil and produced water Volume of Release Unknown Volume Recovered 0 Source of Release Unknown Date and Hour of Occurrence Date and Hour of Discovery Unknown If YES, To Whom? Was Immediate Notice Given? **BLM** By Whom? Date and Hour Unknown Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully,* NA Describe Cause of Problem and Remedial Action Taken.* Unknown cause Describe Area Affected and Cleanup Action Taken.* Fluids were released to surface due to unknown source. Impacted area is visible on location pad, lease road and pasture area. DFSI will remediate. Impacted soils will be removed to an NMOCD approved facility. Lab confirmations submitted to commercial lab. Pasture area will be restored to natural Closure will be filed according to NMOCD and BLM guidelines. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature Approved by Environmental Specialist: Printed Name: Brian Wall Approval Date: 3-13-14 Title: Construction Foreman II **Expiration Date:** E-mail Address: bwall@linnencrgy.com Conditions of Approval: Attached

kemediation per ОСD кије & Guidelines, &

like approval by BLM. <u>SUBMIT REMEDIATION</u>

PROPOSAL NO LATER THAN:

4-13-14

2KP 2109

Bratcher, Mike, EMNRD

From:

Rebecca Pons rpons@diversifiedfsi.com>

Sent:

Thursday, March 06, 2014 9:27 AM

To:

Mike Burton (mburton@blm.gov); Bratcher, Mike, EMNRD

Cc:

Natalie Gladden; Michael Patterson

Subject:

Filing and notification of two Linn Energy Sites

Attachments:

JL Keel B 36 and 7.pdf

Good Morning Gentlemen,

I have attached Signed C-141's for the following two sites. JL Keel B #036 and JL Keel B #007. Please review and assist me with the proper filing on line with the NMOCD, so that I may have the proper RP numbers associated with them for the closure reports. Please don't hesitate to contact with your questions or concerns.

Thank you so much for your help in this matter.

Rebecca

NMCRIS No.: 130195

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS	2a. Lead Agency:	2b. Other Agency	(ies):	3. Lead	Agency	Report No.:
Activity No.:	US Bureau of Land Management Carlsbad Field					
130195	Office					
4. Title of Report:					5. Type	of Report
A Class III Archaeolo	ogical Survey for Diversified Field Se	ervices, Inc.'s J.L. Ke	el B #007 Spill Cl	ean-Up	✓ Nega	ative
					Posit	tive
Author(s)					LI	
Hill, Rebecca L. an	d Joshua W. Broxson					
6. Investigation Typ	ре					
Research Design	Archaeological Survey/Invento	ryArchitectural S	urvey/Inventory	Test Ex	cavation	Excavation
Collections/Non-F	Field Study Compliance Decision	n Based on Previous	Inventory O	 verview/Lit	Review	Monitoring
Ethnographic Stu	dy Site/Property Specific Visit	☐ Historic Struct	ures Report 🔲	Other		
7. Description of U	ndertaking (what does the project	entail?):				
area measures 108,	013.93 sq. ft. or 2.48 acres. No cultu	ıral resources were r	ecorded or updat	ed during t	he surve	•
					[] Continuation
		31-Mar-2014	9. Report Date:	01-Apr-2	.014	
	ency/Consultant: Boone Arch Servi	ces of NM, LLC				
	ator: Rebecca L. Hill					
Field Supervisor:	Rebecca L. Hill					
Field Personnel N	ames: Rebecca L. Hill					
Historian / Other:						
11. Performing Age	ency/Consultant Report No.:					
BASNM 03-14-58						
12. Applicable Cul	tural Resource Permit No(s):					
BLM Permit No.: 19	0-2920-12-S					

NMCRIS No.: 130195					
13. Client/Customer (project proponent	:):				
Diversified Field Services, Inc.					
Contact: Natalie Gladden					
Address: 3412 N. Dal Paso, Hobbs, NM	188240			Phone: 575-6	602-1786
14. Client/Customer Project No.:					
15. Land Ownership Status (must be in	dicated on	n project map):			
Land Owner (By Agency)				Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsba	ad Field Off	fice		2.48	0.09
L			TOTALS	2.48	0.09
16. Records Search(es):					
Date(s) of HPD/ARMS File Review: 21 M	Mar 2014	Name of Reviewer(s):	M. Jones		
Date(s) of Other Agency File Review: 21	Mar 2014	Name of Reviewer(s):	M. Jones	Agency: BLM/CF	FO
17. Survey Data:					
a. Source Graphics [] NAD 27	[x]	NAD 83 Not	e: NAD 83 is the	NMCRIS standar	d.
◯ USGS 7.5' (1:24,000) topo map ☐	Other topo	o map, Scale:			
GPS Unit Accuracy <1.0m	1-10m	10-100m>100)m	Aerial Pho	to(s)
Other Source Graphic(s):	ton				
b. USGS 7.5' Topographic Map Name				USGS Quad Co	ode
Loco Hills, NM				32103-G8	
				02.100 40	
c. County(ies): EDDY					
d. Nearest City or Town: Loco Hills, N	IM				
e. Legal Description:					
Township (N/S)	ange (E/W	")	Section		
17S 3 ⁻	1E		8		
Projected legal description? [] Yes	[x] No	[] U	nplatted	
f. Other Description (e.g. well pad foota	ages, mile	markers, plats, land	grant name, etc	.):	
					[] Continuation
18. Survey Field Methods:					

Intensity:

NMCRIS No.: 130195 Configuration: ✓ block survey units ☐ linear survey units (I x w): ☐ other survey units (specify):			
Scope: non-selective (all sites/properties recorded) selective/thematic (selected	d sites/prope	rties record	led)
Coverage Method: systematic pedestrian coverage			
other method (describe):			
Survey Interval (m): 15 Crew Size: 1 Fieldwork Dates: from: 31-Mar-2	2014	to: 31-Mar	-2014
Survey Person Hours: 1.00 Recording Person Hours: 0.00	Total Hour	r s: 1.00	
Additional Narrative:			
The spill area lies within ¼ mile of four previously recorded archaeological sites: LAs 5108 spill is at a distance sufficient to avoid impacting these sites. For a detailed description of the			
		[] Continuation
19. Environmental Setting (NRCS soil designation; vegetative community; elevation;	etc.):		
According to the Natural Resources Conservation Service' online database, the spill area percent slopes. Largo soils are designated as "loamy" and typically support black and blue even yet sparse distribution of shrubs such as yucca, mesquite, American tarbush, cholla, community consists of mesquite, shinnery oak, soapweed yucca, winterfat, and desert grase east side of the J.L. Keel B #007 well pad across a lease road and buried pipeline downhill approximately 5.15 miles southwest of Mescalero Ridge and 3.6 miles northwest of Taylor approximately 25 miles to the west. The elevation ranges from 3,770 ft. to 3,780 ft. above to the support of th	grama and to and creosote sses. The spi in a small dr Draw. The P	obosa grase. The curre ill extends s rainage. The ecos River	slands with an ent vegetative southt from the e spill is situated
20.a. Percent Ground Visibility: 80% b. Condition of Survey Area (graze	ed, bladed, u	[undistribut] Continuation ed, etc.):
The survey area includes the J.L. Keel B. #007 well pad, an existing lease road, an existing buried pipelines.	ng buried pipe	eline, and s	several existing
		[] Continuation
21. CULTURAL RESOURCE FINDINGS Yes, see next report section		₩ No,	discuss why:
No cultural resources were recorded or updated during the survey. It is uncertain why about	original peopl	es did not i	nhabit the area.] Continuation
22. Attachments (check all appropriate boxes):		L .	,
[x] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly draw	n (required)		
I a 10 a (AMADRIO M. OL 1 / C 1)	ii (iequiieu)		
[] LA Site Forms - new sites (with sketch map & topographic map) if applicable		m)	
[] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 page	jes minimun	n)	
[] Historic Cultural Property Inventory Forms, if applicable			
[] List and Description of Isolates, if applicable			
[] List and Description of Collections, if applicable			
23. Other Attachments:	r 100		anta
[] Photographs and Log	[x] Othe (Describe):	er Attachm BLM Map	ents

NMCRIS No.: 130195 24. I certify the information provided above is correct and accurate and meets all applicable agency standards. Principal Investigator/Qualified Supervisor: Printed Name: Rebecca L. Hill Date: 20pv 2014 Title: Principal Investigator 25. Reviewing Agency 26. SHPO Reviewer's Name/Date: Reviewer's Name/Date: HPD Log #: Accepted [] Rejected [Date sent to ARMS: CULTURAL RESOURCE **FINDINGS** [fill in appropriate section(s)] **SURVEY RESULTS:** Archaeological Sites discovered and registered: 0 Archaeological Sites discovered and NOT registered: 0 Previously recorded archaeological sites revisited (site update form required): 0 Previously recorded archaeological sites not relocated (site update form required): 0 TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0 Total isolates recorded: 0 Non-selective isolate recording? HCPI properties discovered and registered: 0 HCPI properties discovered and NOT registered: 0 Previously recorded HCPI properties revisited: 0 Previously recorded HCPI properties not relocated: 0 TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0 **MANAGEMENT SUMMARY:** No cultural resources were recorded or updated during the survey. The spill clean-up is recommended for approval. If cultural materials are encountered during the clean-up process, work should be halted and archaeologists with BLM/CFO should be notified immediately. **]** Continuation Γ

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. Field/Agency No.

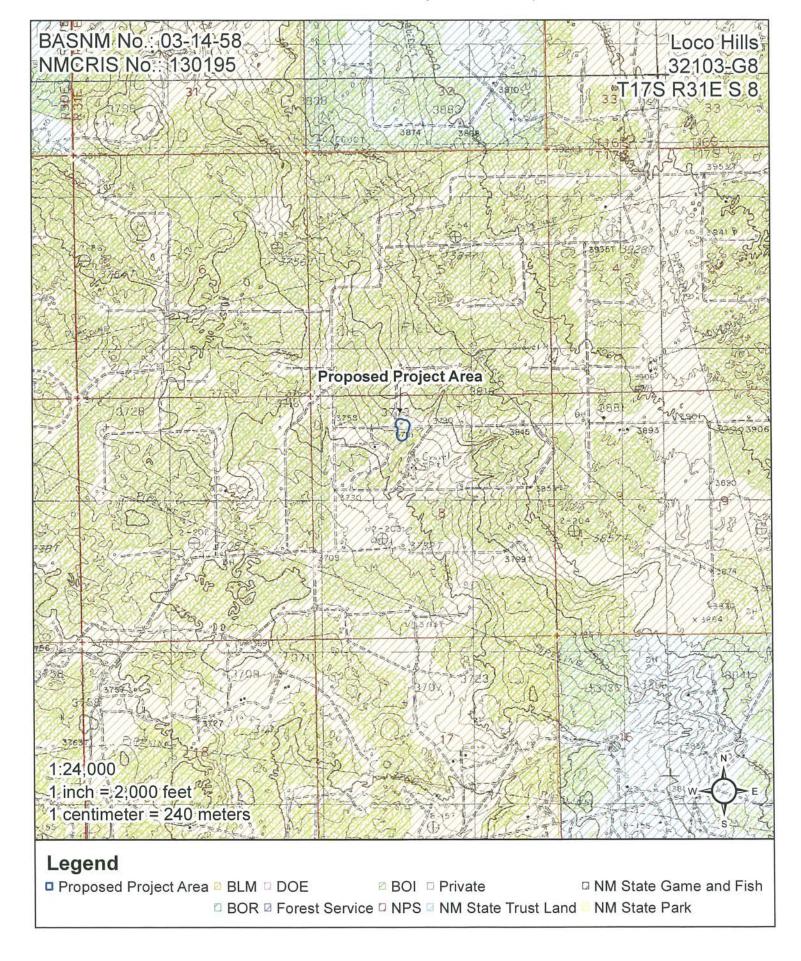
Eligible? (Y/N/U, applicable criteria)

NMCRIS No.:	130195				
Previously reco	rded revisited sites/HCPI properties:				
LA/HCPI No.	Field/Agency No.	Eligible? (Y/N/U, applicable criteria)			
MONITORING LA	A NUMBER LOG (site form required)				
Sites Discovere	d (site form required):	Previously recorded sites (site update form required):			
LA No.	Field/Agency No.	LA No.		Field/Agency No.	
Areas outside k	nown nearby site boundaries monitored?	[] Yes		[] No, Explain
TESTING & EXCAVATION LA NUMBER LOG (site form required)					
Tested LA numb	per(s)	Excavate	d LA n	umber(s)	

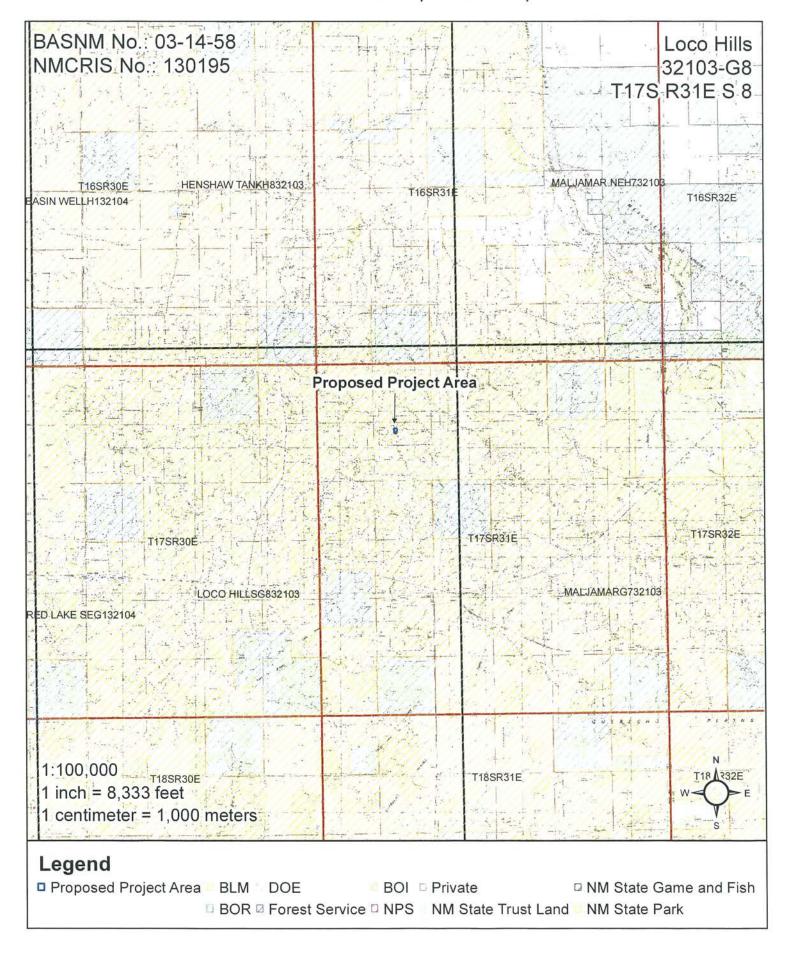
Table 1. Previously Recorded Archaeological Sites within $\mbox{\em 14}$ Mile.

LA No.	Cultural/Temporal Affiliation	Eligibility
51084	Jornada Mogollon/Early Pueblo to Late Pueblo (1100 AD - 1400 AD)	Eligible, D
51085	Jornada Mogollon/Late Pithouse to Early Pueblo (750 AD - 1200 AD)	Undetermined
108038	Jornada Mogollon/ Late Pithouse to Late Pueblo (750 AD - 1400 AD)	Undetermined
108660	Jornada Mogollon/ Late Pithouse to Late Pueblo (750 AD - 1400 AD)	Eligible, D

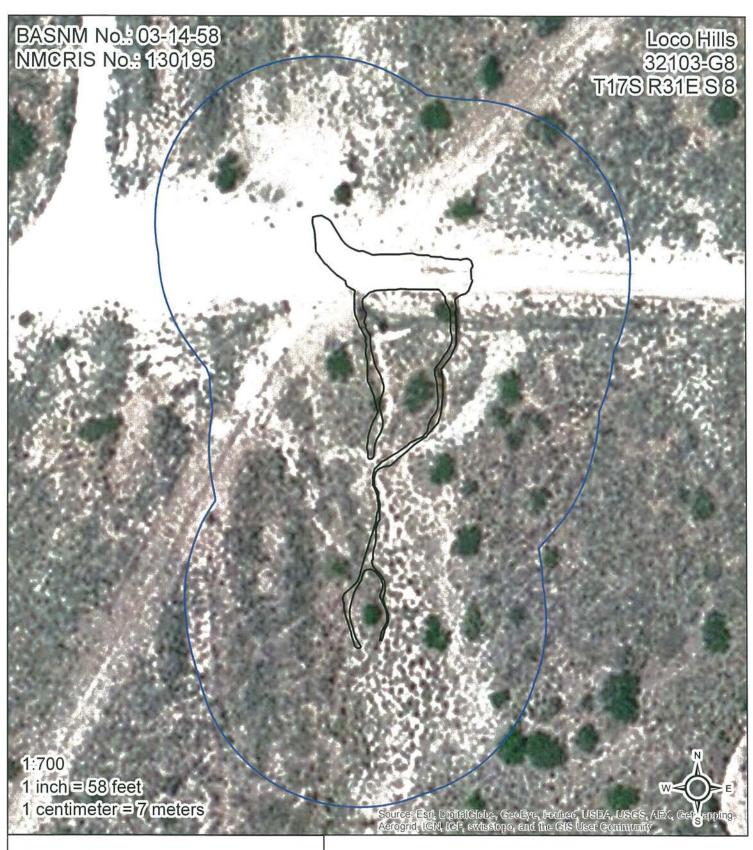
Diversified Field Services, Inc J.L. Keel B #007 Spill Clean-Up



Diversified Field Services, Inc J.L. Keel B #007 Spill Clean-Up



Diversified Field Services, Inc J.L. Keel B #007 Spill Clean-Up



Legend

□ Survey Area □ Spill □ Archaeological Site