

CMU B Battery

CLOSURE REQUEST

API No. 30-025-01483

Release Date: September 4, 2015

Unit Letter K, Section 19, Township 17 South, Range 33 East

RP# 1RP-3847

February 2, 2017

Prepared by:

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

Fax: (575)964-8396

LINN ENERGY 02/02/2017

Olivia Yu Environmental Specialist NM Oil Conservation District – Division 1 1625 N French Drive Hobbs, NM 88240

RE: Linn CMU B Battery - Closure Request

UL/K, Section 19, T17S, R33E API No. 30-025-01483 NMOCD Case #: 1R-3487 NMOCD Score: 0

Ms. Yu,

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

The site is located southeast of Maljamar, NM, in Lea County. The spill resulted from head switch on the pump failure, releasing a total of 500 barrels of produced water and 1 barrel of oil, with 485 barrels of produced water and no oil recovered. An initial C-141 was submitted to and approved on September 9, 2015 by NMOCD (Appendix I). DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there average depth to groundwater at this site is 179 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix II).

Corrective Action and Site Assessment

DFSI personnel were on site to excavate the release area to 2' bgs (Appendix III). Impacted soil was properly removed and disposed of at a NMOCD approved facility. The excavation was backfilled with clean, imported soil. Any remaining constituents will be addressed at site abandonment.

To provide laboratory analysis on the remaining constituents, on January 20, 2016, DFSI personnel were on site to obtain samples within the leak area (Figure 1). Nine samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples for five sample points, SP1 through SP5, were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix IV). Samples

LINN ENERGY 02/02/2017

were not submitted for analysis at SP6 and SP7 due to auger refusal and at SP8 and SP9 due to the discovery of a plastic liner at 4' bgs.

Based on the location within a battery, including safety hazards associated with work within a battery, and the remediation activities will occur at site abandonment, DFSI, on behalf of Linn, submits the final C-141 (Appendix V) and respectfully requests the closure of this regulatory file.

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

Sincerely,

Laura Flores

Diversified Field Services, Inc.

Laura Flores

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Fax: (575)964-8396 | Email: Iflores@diversifiedfsi.com

Cc: Shelly Tucker, BLM

Figure 1 – Site Diagram

Appendix I - Initial C-141

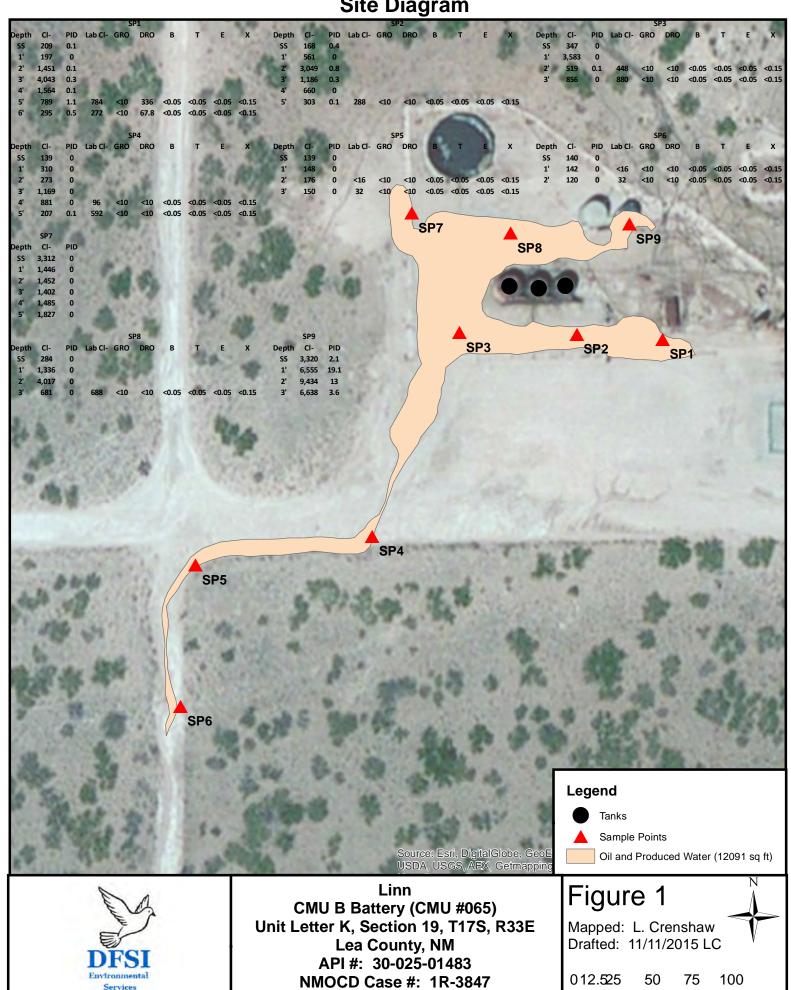
Appendix II – Groundwater Study

Appendix III - Site Photos

Appendix IV – Laboratory Analysis

Appendix V – Final C-141

Site Diagram



Feet

Appendix I

INITIAL C-141

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

State of New Mexico Energy Minerals and Natural Resources

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141

Revised August 8, 2011

			Relea	ase Notifica	tion	and Co	rective Ac	tion				
					(PERAT				Report		Final Report
Name of Co				1. 002.10			E.L. Gonzales	720				
Facility Nar		nder Blvd H				Facility Typ	No. 575-738-17	/39				
		D Dattery (C)	oscsi wc		ı	raciiity i yp	C Dattery		1		11.00	
Surface Ow	ner State			Mineral C	wner				API No	o. closest v	well 30-	025-01483
						OF REL						
Unit Letter K	Section 19	Township 17S	Range 33E	Feet from the 2310		South Line South	Feet from the 2379		West Line West	County	Lea	
				Latitude 32.81	90918]	Longitude	-103.7035828					
				NATU	JRE C	F RELE						
Type of Rele	ase Produc	ced Water / C	ther			Volume of	Release 500 bbls	s /	Volume F	Recovered	485 bbl	s / 0
Source of Re	_					Date and F 09/04/2015		e	Date and 09/04/201	Hour of D 15 7:30am	iscovery	
Was Immedia	ate Notice C		Yes [No Not Re	equired	If YES, To	Whom?					
By Whom?		1 10				Date and H						
Was a Water	course Reac	ched?	Yes 🗵	No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*			RECEIV	/FD				
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							By OCD I	JISTI	ct 1 at 2	::21 pm	ı, Sep	09, 2015
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.* At appr	ox 7:30	am I nulled	un to my battery a	and not	iced a lot of	nroduced	water in	side the
location. I rus	shed to asse	ss the probler	n and noti	ced that my water	tank had	d overflown	due to the pumps	not kicl	king on. The	e pumps ne	ever turn	ed on
				alarm and the pum has been spilt. 48						d an alarm	to notify	me that I
nad a mgn tai	ik ievei, aoi	out 500 barrer	s of water	nas occii spiit. 40	o oarren	s was recove.	ica. OCD has bee	11 1101111	ica			
Describe Are	a Affected a	and Cleanup A	Action Tal	ken.*								
T1 1 .:	6 4 44 :				1 4 4 4	1		1 .	1.1.		10.CD	1 1
				e is true and comp nd/or file certain re								
public health	or the envir	ronment. The	acceptan	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport"	does not reli	ieve the op	erator of	liability
				y investigate and restance of a C-141								
		ws and/or regu		nance of a C-141	report de	oes not renev	e the operator or	respons	sionity for C	omphanee	with any	other
	0	h /	,				OIL CON	SERV	/ATION	DIVISI	<u>ON</u>	
Signature:	4	ngolu							1	211		
	/	0			1	Approved by	Environmental S	pecialis	st: Jamik	lyer		
Printed Name	E.L. Goi	nzales										
Title: Produ	ction Super	visor			1	Approval Da	e: 09/09/2015		Expiration	Date: 11/0	9/2015	
F-mail Addre	egg. elgonza	ales@linnener	ov com			Conditions of	f Annroval				_	
L-man Addit	oo. Ciguilla	aresterninene	Бу.СОШ		I	Discrete site s	amples required.		ate and	Attache	_	
Date: 09/09		ICAT		505-504-8002			NMOCD guidel			1RP 38	47	
	anai Shaat	a It Noogaan	- T 7		- (urne at remediati	an real	urod	*****		

Appendix II

GROUNDWATER STUDY



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	ŕ	POD Sub-		_	Q	_							W	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DepthWellDepth	nWater Co	lumn
<u>L 02770</u>		L	LE			2	18	17S	33E	621836	3634093*	216	179	37
<u>L 02770 S2</u>		L	LE	2	2	3	18	17S	33E	621338	3633583*	214	184	30
<u>L 02770 S3</u>		L	LE	2	2	3	18	17S	33E	621338	3633583*	220	202	18
<u>L 02875</u>		L	LE		2	2	20	17S	33E	623662	3632717*	250	190	60
<u>L 03622</u>		L	LE				17	17S	33E	623053	3633703*	226	180	46
<u>L 03726</u>		L	LE	1	2	2	18	17S	33E	621930	3634400*	208	188	20
L 12974 POD1		L	LE	3	4	3	18	17S	33E	621233	3632940	140	130	10
RA 11936 POD1			LE	1	4	1	19	17S	33E	621246	3632321	92		
RA 11937 POD1			LE	1	4	1	19	17S	33E	621244	3632281	95		
RA 11957 POD1			LE	3	4	1	19	17S	33E	621177	3632200	55		

Average Depth to Water: 179 feet
Minimum Depth: 130 feet
Maximum Depth: 202 feet

Record Count: 10

PLSS Search:

Section(s): 17, 18, 19, 20, Township: 17S Range: 33E 29, 30

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/2/17 9:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest)

(In feet)

POD Sub-

QQQ

Code basin County 64 16 4 Sec Tws Rng

X

619192

Y

(NAD83 UTM in meters)

Water DepthWellDepthWater Column

3632296 35

Average Depth to Water:

Minimum Depth:

Maximum Depth: --

Record Count: 1

POD Number

RA 11911 POD1

PLSS Search:

Section(s): 13, 24, 25

5 Township: 17S

Range: 32E

1 3 1 24 17S 32E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/2/17 9:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix III

SITE PHOTOS

CMU B Battery

Unit Letter K, Section 19, T17S, R33E | NMOCD Case #: 1R-3847

PHOTO PAGE



Site prior



Excavating site



Site prior



Excavating site



Excavation completed



Collecting sample



Site completed



Excavation completed



Collecting sample



Site completed



Site completed

Appendix IV

LABORATORY ANALYSIS



January 27, 2016

JOE HERNANDEZ LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: CMU B BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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. Keine

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

01/19/2016



Analytical Results For:

LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date:

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 1 @ 5' (H600137-01)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	336	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	75.5 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	74.69	% 28-171							

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 1 @ 6' (H600137-02)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	67.8	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	75.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	74 3	% 28-171							

Surrogate: 1-Chlorooctadecane 74.3 % 28-171

Cardinal Laboratories *=Accredited Analyte

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 2 @ 4' (H600137-03)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	61.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	61.8	% 28-171							

Surrogate: 1-Chlorooctadecane 61.8 % 28-171

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 2 @ 5' (H600137-04)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	73.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	76.7	% 28-171							

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 3 @ 2' (H600137-05)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	71.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	69.0	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 3 @ 3' (H600137-06)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	69.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	70.6	% 28-171							

Surrogate: 1-Chlorooctadecane 70.6 % 28-171

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 4 @ 4' (H600137-07)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	69.0	% 35-147	,						
	(7.4	20.171							

67.6 % 28-171 Surrogate: 1-Chlorooctadecane

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/19/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 4 @ 5' (H600137-08)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	< 0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	68.0 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	68.4 9	% 28-171							

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/20/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 5 @ 2' (H600137-09)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
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	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	63.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	68.0	% 28-171							

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/20/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 5 @ 3' (H600137-10)

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	01/23/2016	ND	1.77	88.7	2.00	3.26	
Toluene*	<0.050	0.050	01/23/2016	ND	1.90	95.2	2.00	2.96	
Ethylbenzene*	<0.050	0.050	01/23/2016	ND	1.76	88.2	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/23/2016	ND	5.40	90.1	6.00	2.38	
Total BTEX	<0.300	0.300	01/23/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
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	01/21/2016	ND	400	100	400	7.69	
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	01/22/2016	ND	199	99.5	200	1.09	
DRO >C10-C28	<10.0	10.0	01/22/2016	ND	202	101	200	1.53	
Surrogate: 1-Chlorooctane	68.0	% 35-147	,						

Surrogate: 1-Chlorooctadecane 71.3 % 28-171

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/20/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 6 @ 1' (H600137-11)

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	01/26/2016	ND	2.41	121	2.00	5.16		
Toluene*	<0.050	0.050	01/26/2016	ND	2.34	117	2.00	6.00		
Ethylbenzene*	<0.050	0.050	01/26/2016	ND	2.14	107	2.00	6.06		
Total Xylenes*	<0.150	0.150	01/26/2016	ND	6.52	109	6.00	5.02		
Total BTEX	<0.300	0.300	01/26/2016	ND						
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.6-14	0							
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	01/21/2016	ND	400	100	400	7.69		
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	01/25/2016	ND	194	97.2	200	0.683		
DRO >C10-C28	<10.0	10.0	01/25/2016	ND	198	99.1	200	1.26		
Surrogate: 1-Chlorooctane	70.5	% 35-147	7							
Surrogate: 1-Chlorooctadecane	68.0	% 28-171	,							

Surrogate: 1-Chlorooctadecane 68.0 % 28-171

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Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/20/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 6 @ 2' (H600137-12)

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	01/26/2016	ND	2.41	121	2.00	5.16	
Toluene*	<0.050	0.050	01/26/2016	ND	2.34	117	2.00	6.00	
Ethylbenzene*	<0.050	0.050	01/26/2016	ND	2.14	107	2.00	6.06	
Total Xylenes*	<0.150	0.150	01/26/2016	ND	6.52	109	6.00	5.02	
Total BTEX	<0.300	0.300	01/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/21/2016	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	01/25/2016	ND	194	97.2	200	0.683	
DRO >C10-C28	<10.0	10.0	01/25/2016	ND	198	99.1	200	1.26	
Surrogate: 1-Chlorooctane	70.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	69.4	% 28-171							

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 01/20/2016 Sampling Date: 01/20/2016

Reported: 01/27/2016 Sampling Type: Soil

Project Name: CMU B BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 8 @ 3' (H600137-13)

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	01/26/2016	ND	2.41	121	2.00	5.16	
Toluene*	<0.050	0.050	01/26/2016	ND	2.34	117	2.00	6.00	
Ethylbenzene*	<0.050	0.050	01/26/2016	ND	2.14	107	2.00	6.06	
Total Xylenes*	<0.150	0.150	01/26/2016	ND	6.52	109	6.00	5.02	
Total BTEX	<0.300	0.300	01/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/21/2016	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	01/25/2016	ND	194	97.2	200	0.683	
DRO >C10-C28	<10.0	10.0	01/25/2016	ND	198	99.1	200	1.26	
Surrogate: 1-Chlorooctane	71.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	74.4 9	% 28-171							

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Notes and Definitions

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company Name:	e: L'85		OL TIIB			ANALYSIS REGUEST	
Project Manager:	-		P.O. #:			- NEGOES	
Address:			Company:				
City:	State:	Zip:	Attn:				
Phone #:	Fax #:		Address:		_		
Project #:	Project Owner:		City:				
Project Name:	135		State: Zip:				
Project Location:	m: CMW B Battery		i.				
	CO CODI		riiolie #:			_	_
Sampler Name:	Chris Flores		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING			
Lab I.D.		G(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Chloride	TOH BTEX		
V -	Sample Point 1 @ 5'	-	V	10:10 AM X	×		
w	Sample point 20 4			10:20 AM X	× × <×		
14	Jample Point 20 5	6-1	V /	11:50 AM X	×		
טי	Sample Young Sed.	0 - <	<	2:00M X	×		
16	Jample tolar 5 & 3	0	_	X madorite	XX		
0 -	Sample Solut I A HI	6 -		3:30 PM X	XX		
00	Dample Yout 4 (25:	61 1		3:40pm x	×		
5_	Sample Count Sea	6	V 1/20/2010		×		
PLEASE NOTE: Lipbilly an	16	6110	1 2	X MBOK:8	×		
analyses. All claims including those for i service. In no event shall Cardinal be lia affiliates or successors arising out of ar r	analyses. All claims including those for negligence and any other cause whatever shall be deemed waived unless made in contract or fort, shall be limited to the amount paid by the client for the service, in no event shall Cardinal be label for including those for negligence and any other cause whatever 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 label for included and of consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidicaties, affiliates or successors arising out of or related to the performance of services hereunded by Cardinal reparties such claims is based income to a first incurred by client, its subsidicaties,	y claim arising whether based in contract or remed waived unless made in writing and re without limitation, business interruptions, los ridinal regardless of whether such claim is h	lort, shall be limited to the amount paid scelved by Cardinal within 30 days after s of use, or loss of profits incurred by or	id by the client for the ir completion of the applicable client, its subsidiaries,			
Relinquished By	7	Received By:	M A A A	Ħ	□ Yes □ No A	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: 25:35	Received By:	MANN	CMARKS:	to: lare	crenshaw@diversifiedfsi.com	Fledfsicon

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

Time:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			THE COUNTY OF THE COUNTY
JOK T	CINDWAP 2	F.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax#:	Address:	
Project #:	Project Owner:	City:	
Project Name: Light		State: Zip:	
Project Location: MW B	Bathery	#	
Sampler Name: Charles T	Tayes	Fax#:	
FOR LAB USE ONLY	n. MATRIX		
٨	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME	Chlorido BTEX TOH
3 Sample	Sout 6 6 3. C. 1	< <	×× ××
10 Dample	Paint 8 6 3. (? 1)	/ (/o.55 p.m.	× ×
**LEASE NOTE: Liability and Damages. Cardinal's liability and Pamages. Cardinal's liability analyses. All claims including those for negligence and service. In no event shall Caudinal be liable for incidental final service. In no event shall Caudinal be liable for incidental final service.	lity and client any other cau al or conseque	tract or lort, shall be limited to the amount paid by the client for grant received by Cardinal within 30 days after completion of the forms, loss of tree, or loss of profits incurred by client, its subsidiarities between the profits incurred by client, the subsidiarities between the free profits in the free profits in the free profits in the free profits of the profits in the free profits or otherwise.	The the sphicable is applicable.
Relinquished By:	Time: Received By:	סודוס	to Yes
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.82 Cool Intro	res CHECKED BY:	in partecon a

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

Appendix V

FINAL C-141

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 8, 2011

			Rele	ease Notific	catior	and Co	orrective A	ction	l				
						OPERA'	ΓOR		☐ Initi	al Report	\boxtimes	Final Repor	
		Linn Energy				Contact: Aa	ron Hickert						
		der, Hobbs,					No. 432-363-94	96					
Facility Na	me: CMU	B Battery (c	osest wel	I CMU 65)		Facility Typ	e: Battery						
Surface Ow	ner: State			Mineral (Owner:				API No	. 30-025-0	1483		
						OF REI	LEASE						
Unit Letter K	Section 19	Township 17S	Range 33E	Feet from the 2310		South Line outh	Feet from 2379		Vest Line est	County Lea			
						_	: -103.7035828	1		-			
Type of Rele	aco: Produc	ad Water / Oi	1	NAT	URE	OF RELI	EASE Release: 500 bbls	n /	Valuma	Recovered:	40£ LL1	- W.	
Type of Refe	asc. I louuc	cu water/Or	ı			Volunte of	l bbl		volume r	(ecovered;	100 Cor 1dd 0		
Source of Re	lease: Pun	ıp				Date and Hour of Occurrence Date and Hour of Discovery 09/04/2015 09/04/2015 7:30 am If YES, To Whom?							
Was Immedia	ate Notice C		Yes 🔲	No Not Re	equired	If YES, To Whom?							
By Whom?						Date and Hour:							
Was a Water	course Read		Yes 🛚	No		Date and Hour: If YES, Volume Impacting the Watercourse.							
If a Watercou	irse was Im	pacted, Descri	be Fully.*			l.							
that my water the pumps he spilled. 485 l Describe Are DFSI personr The excavatio analysis on the obtained and Field samples Samples were	r tank had o ad switches parrels were a Affected a ael were on on was back ae remaining field sample a for five sau e not submit	verflown due were hung up recovered. and Cleanup A site to excava filled with cle g constituents, ed for chloride mple points, S tted for analys	to the pum of therefore action Take te the release an, import on Januar e levels, as P1 through is at SP6 a	ps not kicking or c, I never received en. use area to 2' bgs sed soil. Any ren y 20, 2016, DFSI well as BTEX. in SP5, were subm and SP7 due to au	n. The p d an alan limpact naining of person The BTE nitted for ager refus	ed soil was ponstituents we let were on si EX samples we analysis at C sal and at SP8	r inside the locati urned on because that I had a high roperly removed till be addressed at te to obtain samp were performed us Cardinal Laborators and SP9 due to the	the head h tank le and disp at site ab les with ing a Mi ries of H	d switch was evel, about oosed of at andonment in the leak ini Rae Photobbs, NM overy of a p	as hung up, 500 barrels a NMOCD at. To provid area. Nine solotionization to obtain coolastic liner at	approve e labon samples a Detect offrmat	e alarm and er has been ed facility. ratory s were etor (PID). tion.	
regulations al public health should their o or the environ	l operators : or the envir perations ha iment. In a	are required to conment. The ave failed to a ddition, NMO	report and acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no ort by the emediate	tifications an NMOCD ma contamination	knowledge and und perform correct arked as "Final Reon that pose a three the operator of r	tive action of the contract of	ons for rele oes not reli ound water	eases which eve the oper surface wa	may en ator of ter, hun	danger Tiability man health	
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance w federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISIONS Signature:								<u>N</u>					
Printed Name	: Aaron Hic	kert				Approved by I	Environmental Sp	ecialist:					
Title: Sr EH&	S Represen	tative				approval Date	3:	E	xpiration E	Date:			
E-mail Addre	ss: ahickert	@linnenergy.				Conditions of	Approval:			Attached			
Attach Addit	ional Shee	ts If Necessa	ITV	***	35.11	200			7.5 16.23	/			