

LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

Fren Oil Battery – Turner B #118 2RP-1559

Termination Request

API No. 3001528920

Release Date: January 24th, 2012

Unit Letter M, Section 20, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

December 9th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Termination Request Linn Energy – Fren Oil Battery – Turner B #118 (2RP-1559) UL/M sec. 20 T17S R31E API No. 3001528920

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 4.7 miles east of Loco Hills, New Mexico at UL/M sec. 20 T17S R31E. This site is in an area of no known groundwater.

On January 24th, 2012, a dresser clamp began to leak from an asbestos pipeline releasing 3 barrels of produced water. None of this water was recovered. A total of 1,365 square feet of primarily lease road was affected. On January 24th, 2012, NMOCD and BLM were notified of the release and an initial C-141 was sent to both agencies. NMOCD approved the initial C-141 on February 14th, 2013 (Appendix A). BLM mapped the site and RECS used that map to determine the extent of the release since staining was not visible on the lease road or in the pasture.

RECS personnel were on site beginning on October 25th, 2013 to assess the site. Two points were sampled from the surface of the release. The points were not sampled with depth given that the lease road was compacted too tightly to augur. The small area off the lease road to the north was not sampled because vegetation was not affected in this area and showed no signs of staining (Figure 1). The samples were field tested for chlorides and for organic vapors using a PID meter. The samples were then taken to a commercial laboratory for analysis (Appendix B). Point 1 returned a laboratory chloride value of 32 mg/kg and Point 2 returned a laboratory chloride value of 272 mg/kg. Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX all returned results of non-detect.

Photo documentation of this site can be found in Appendix C.

Given that the laboratory data shows all constituents below regulatory standards and that vegetation has not been affected in the pasture area, Linn requests 'remediation termination' and closure for this site. The final C-141 can be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Appendix A – Initial C-141

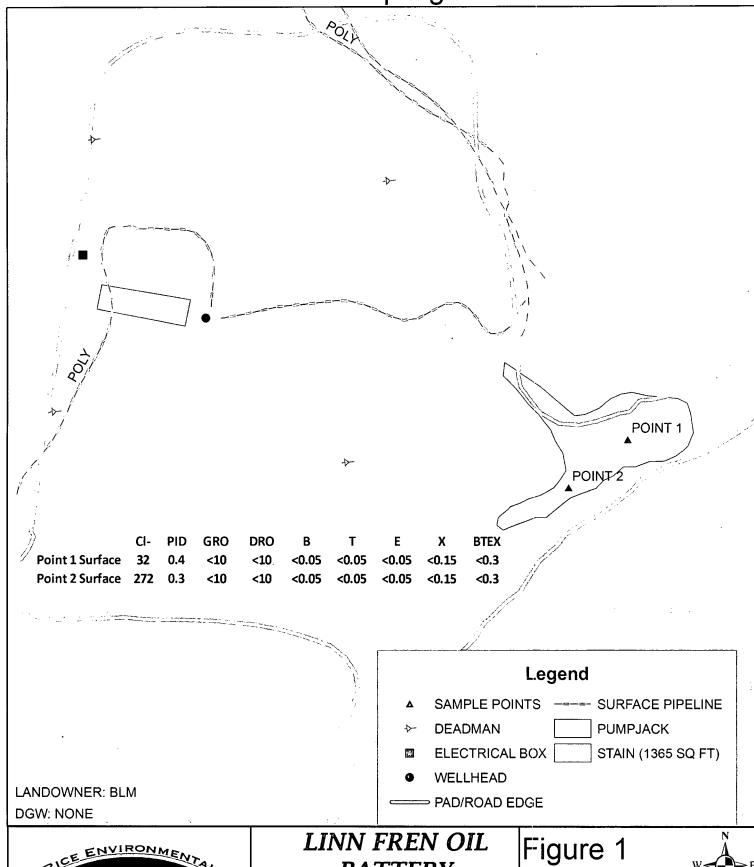
Appendix B – Laboratory Analyses

Appendix C – Photo Documentation

Appendix D – Final C-141

Figures

Initial Sampling Data





BATTERY *TURNER B #118*

UL M SECTION 20 T-17-S R-31-E **EDDY COUNTY, NM**

NMOCD Case #: 2RP-1559



25 50 Feet

GPS date: 10/8/13 KS Drawing date: 11/1/13 Drafted by: L. Weinheimer

Appendix A Initial C-141

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

PECEIVED
FEB 0 1 2012 Form C-141
Revised October 10, 2003
NMOCD Copy To appropriate District Office in accordance with 19.15.29 NMAC

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

Release Notification and Corrective Action										
NJMW1304553260	OPERATOR	🕅 Ini	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: Fren Oil Battery - Turner B #118	Facility Type: WaterFlood									
Surface Owner: BLM Mineral Owner:	BLM	API	No.: 3001528	920						
		7	10.1.5001520	/20						
	Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County									
Unit Letter Section Township Range Section 17S 31E 1200 North	West Line	County	Eddy							
Latitude: N 32 48' 57" Longitude: W 103 53' 59.7										
	OF RELEASE									
Type of Release: Produced water	Volume of Release: 3		e Recovered: (
Source of Release: Pipeline	Date and Hour of Occurrence 01/24/2012 9:00am		nd Hour of Dis 2012 9:30am	covery:						
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom?	erry Gregston -								
By Whom? Joe Hernandez	Date and Hour 01/24/2012	3:00pm								
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the	he Watercourse.								
If a Watercourse was Impacted, Describe Fully.*:	_L									
Describe Cause of Problem and Remedial Action Taken.*: Loc.Charged to Fren Oil Battery NW/SE Sec.19-T17-S R31E LC-031844, Fries Federal Battery NW/SE, Sec.19-T17S-R31E LC-060409 Max Friess Battery Sec.30-T17-S-R31E LC-031844 From TB#118 leak is do east 100yds from wellhead 7 1/4 asbestos line from these batteries had dresser clamp that began to leak. Weather errosion has exposed line that crosses Lease Rd causing leak										
			DEC 1 0 2013							
Describe Area Affected and Cleanup Action Taken.*: Further remedial	action pending.		NMOCD	ARTESIA						
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 CON	<u>SERVATIO</u>	N DIVISIO	<u>NC</u>						
Printed Name: Joe Hernandez Approved by District Supervisor: Signed By Mile Beauter										
Printed Name: Joe Hernandez	and a second	Signed By_	W11/4 K) KAPTOS/CAPC						
Title: Production Foreman	Approval Date: FEB 1 4 2	2013 Expirati								
E-mail Address: jhernandez@linnenergy.com	Conditions of Approval:		Attached							
Date: 2/01/2012 Phone: 575-942-9492 Attach Additional Sheets If Necessary	Remediation per OCD	Rule &	2R	P-1559						

PROPOSAL NO LATER THAN:





October 31, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: FREN OIL BATTERY TURNER B #118

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

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

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 & 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



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Analyzed By: MS

Received:

10/25/2013

Sampling Date:

10/25/2013

Reported:

BTEX 8021B

Sampling Type:

Soil

10/31/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number: FREN OIL BATTERY TURNER B #118 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 1 @ SURFACE (H302606-01)

BIEX 8021B	mg/kg		Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/29/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/29/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6					e.	
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	10/29/2013	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND ·	210	105	200	1.98	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	202	101	200	1.03	•
Surrogate: 1-Chlorooctane	92.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.2	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/25/2013

Sampling Date:

10/25/2013

Reported:

10/31/2013

Sampling Type:

Soil

Project Name:

FREN OIL BATTERY TURNER B #118

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 2 @ SURFACE (H302606-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/29/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/29/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/29/2013	ND	400	100	400	3.92	
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	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	202	101	200	1.03	
Surrogate: 1-Chlorooctane	e: 1-Chlorooctane 99.2 % 65.2-14		0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	1						

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 whistoever shall be deemed waived unless made in winting 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 ansing 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 winten approval of Cardinal Laboratories.

Celey D. Keene



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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*=Accredited Analyte

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Celey D. Keene

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS	BILL TO	ANALYSIS REQUEST
Project Manager: Jacob Kamplain	P.O. #:	
Address:	Company:	<u> </u>
City: Hobbs State: NM Zip: 88240	Attn:]
Phone #: Fax #:	Address:	Anio
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: Fren oil battery Turner B#118	Phone #:	Chlorides TPH 8015 M BTEX Texas TPH ete Cations// TDS
Sampler Name: Kyle Schnaidt	Fax #:	
FOR LAB USE ONLY MATRI	PRESERV. SAMPLING	
# CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: AMIL	Complete
1 Point 1 Po Surface 61	10-25-13 9:36	XXX
1 Point 1 @ Surface 61 X 2 Point 2 @ Surface 61 X	10-25-13 9:35	\times \times \times
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in	ontract or tort, shall be limited to the amount paid by the client to	whe

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any daim 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 waved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

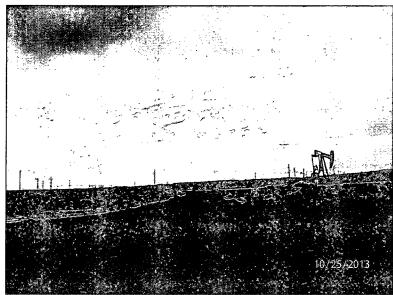
Relinquished By:		Received By:		Phone Result:	□ Yes	☑ No	Add'l Phone #:	
Kylo Schnaidt	1 25-13 Time . 70	Undi Ale	Mon	Fax Result: REMARKS:	□ Yes	☑ No	Add'i Fax #:	
Relinquished By:	Date:	Received By:		kschnaidt	@rice-	ecs.co	om	
	Time:	V		Knorman	_			
Delivered By: (Circle One)		Sample Condition					; jkamplain@rice-ecs.com n; Lweinheimer@rice-ecs.com	
Sampler - UPS - Bus - Other:		Cool Intact ☐ Yes ☐ Yes ☐ No ☐ No	(nitible)	ricondere	91100 0		n, Ewellineline Whee-ees.com	

#54

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2476

Appendix C Photo Documentation

Linn Fren Oil Battery – Turner B #118 Unit Letter M, Section 20, T17S, R31E



Initial site photo, facing west

10/25/13



Initial site photo, facing northwest

10/25/13

Appendix D Final 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

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 accordance with 19.15.29 NMAC.

			Rele	ease Notific	atio	n and Co	orrective A	ction						
						OPERA	ГOR		Initia	l Report	\boxtimes	Final Report		
Name of Company Linn Operating Address 2130 W. Bender Blvd., Hobbs, NM 88240						Contact Brian Wall								
	Facility Name Fren Oil Battery – Turner B #118					Telephone No. (806) 367-0645 Facility Type WaterFlood								
									DIN.	200152	9020			
Surrace Ow	Surface Owner BLM Mineral Owner							P	API NO.	. 300152	8920			
	1.5	<u> </u>		N OF REI		77.	· · I							
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West	Line	County				
M 20 17S 31E 1200						FSL	10	FWL		Eddy				
Latitude_32°48'57" Longitude103°53'59.7"														
				NAT	URE	OF REL	EASE							
Type of Rele						Volume of	Release 3 bbls			lecovered				
Source of Re	lease Pipel	ine				Date and F 1/24/12 9:	Hour of Occurrence	I	ate and 1 24/12 9	Hour of Dis	scovery			
Was Immedi	ate Notice (Given?				If YES, To			24/12 9	.30 am				
			Yes [No Not Re	equired	M. Bratche	er – NMOCD To	erry Gregsto	on - BLI	M _				
By Whom? Was a Water							Hour 1/24/12 3							
was a water	course Rea		Yes 🗵] No		II YES, VO	oiume impacting t	ine waterco	urse.					
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*										
		,	,											
			11.1.4.1											
		lem and Reme Friess Federal		n Taken.* nd Max Friess Ba	tterv fro	om the Turner	B #118 had a dre	sser clay tha	at began	to leak. V	√eather	erosion had		
				ng the release.	,									
Describe Are	a Affected	and Cleanup.	Action Tal	ken.*										
RECS perso	nnel were o	n site beginni	ng on Oct	ober 25 th , 2013 to										
				e road was compa and showed no si										
vapors using	a PID mete	er. The sample	es were th	en taken to a com	mercial	laboratory for	r analysis. Point	l returned a	laborat	ory chlorid	e value	of 32 mg/kg		
and Point 2 r	eturned a la 1-detect - G	iboratory chlo iven that the l	ride value aboratory	of 272 mg/kg. G data shows all cor	asoline estituen	ne Range Organics (GRO), Diesel Range Organics (DRO) and BTEX all returned tents below regulatory standards and that vegetation has not been affected in the								
pasture area,	no further	action is requi	red at the	site.		15 0010 11 1054	mory standards a	na tinti voge	in i		i ui rocci	od m the		
I hereby cert	ify that the	information g	iven above	e is true and comp	lete to	the best of my	knowledge and r	inderstand t	hat purs	suant to NM	IOCD r	rules and		
regulations a	Il operators	are required t	o report a	nd/or file certain r	elease i	notifications a	and perform correct	ctive actions	for rele	eases which	n may e	ndanger		
should their	or the envi	ronment. The nave failed to	e acceptan adequately	ce of a C-141 repo y investigate and r	ort by th emedia	ie NMOCD in te contaminat	narked as "Final R ion that pose a thr	leport" does eat to groun	not reli nd water	eve the ope	rator of	f liability ıman health		
or the enviro	nment. In a	addition, NMO	OCD accep	otance of a C-141	report o	does not reliev	ve the operator of	responsibili	ty for co	ompliance	with an	y other		
federal, state	, or local la	ws and/or reg	ulations.				OH COM	CEDVAT	FION	DIVICI	ONI			
							OIL CONSERVATION DIVISION							
Signature: 7	rea b v	vall												
Printed Nam	e: Brian W	Vall				Approved by Environmental Specialist:								
						A 1.D	4	-						
Title: Const	ruction For	aman H				Approval Date:			Expiration Date:					
E-mail Addr	ess: Bwall	@linnenergy.c	com			Conditions o	f Approval:		Attached					
Date: 12/9	0/13		Phone	: (806) 367-0645	5									
* Attach Addi		ets If Necess												