

December 3, 2014

Mr. Mike Bratcher NMOCD District 2

AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806,467,0607 Fax 806,467,0622

ARTESIA

811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject:

Remediation and Closure Report

Lime Rock Resources II-A, L.P.

Windfohr 4 Federal No. 2 30-015-30411 **2RP-2553** 

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768

Dear Mr. Bratcher:

HOBBS 318 East Taylor Street

Fax 575,746,8905

Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Lime Rock Resources II-A, LP (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

### **Incident Date**

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133

Fax 432.522.2180

October 13, 2014

# **Background Information**

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622 The Windfohr 4 Federal No. 2 is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this site is Section 4, Township 18 South, and Range 27 East. More specifically the latitude and longitude for the release are 32.77428 North and -104.27538 West. A site plan is presented in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191 According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer groundwater in the project vicinity is approximately 50-feet below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is 10 based on the following:

ENVIRONMENTAL CONSULTING

ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Depth to ground water

50' - 100'

Wellhead Protection Area

>1000'

Distance to surface water body

>1000'

Toll Free: 866.742.0742 www.talonlpe.com

# **Incident Description**

A transport driver ran over a surface flow line at the battery causing a release of 45 barrels of produced water. A vac truck was immediately called to the site and recovered 15 barrels. All wells were shut in and the flow line was repaired. Talon mobilized personnel to conduct soil sampling within the facility and along the flow path. The results of these sampling activities are summarized in the table below. A site plan is attached.

### Remedial Actions Taken

The impacted area in the vicinity of sample location S-5 was excavated to a depth of 3.5-feet deep and the remaining areas were excavated to a depth of 2-feet. Confirmation samples were taken from the bottom of the excavation. Confirmation sampling analytical results are presented below.

The excavated soil was transported to Lea Land for disposal. The excavation was subsequently backfilled with new caliche transported from Lea Land. The area was re-contoured to match the surrounding terrain.

# **Laboratory Results**

See Appendix III for complete report of laboratory results.

November 17, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO		
S-1	2'		176				
S-3	2'		176				
S-5	3.5'		272				

<sup>--</sup> Analyte Not Tested

Based upon the site ranking of 10, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 1,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg.

# Closure

On behalf of Lime Rock, we respectfully request that no further actions be required and that closure with respect to these releases be granted. A Final C-141 is also attached in Appendix IV.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson

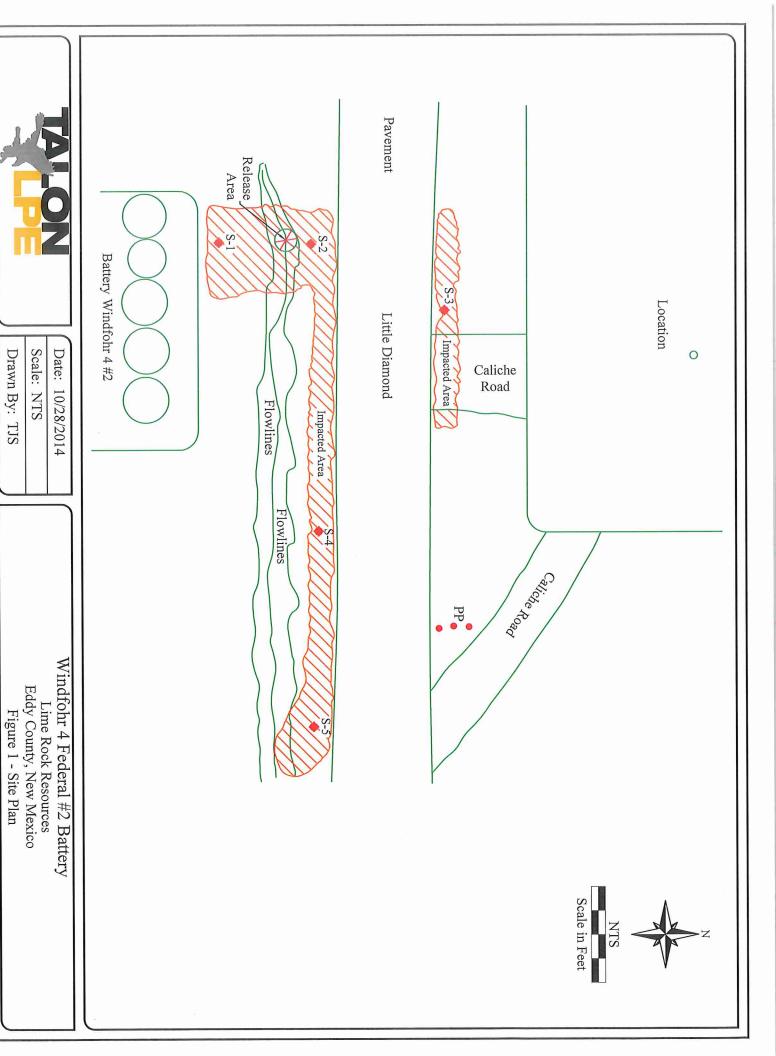
Milson

Project Manager

David J. Adkins

District Manager

# APPENDIX I SITE MAP



Scale: NTS

Drawn By: TJS

# APPENDIX II GROUNDWATER DATA



# 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)

POD Sub-QQQ Depth Depth Water Code basin County 64 16 4 Sec Tws Rng **POD Number** Distance Well Water Column RA 03917 LE 4 1 2 10 18S 27E 569019 3625660\* 1349 130 50 CH RA 03714 4 4 2 08 18S 27E 566212 3625253\* 1895 381

Average Depth to Water:

50 feet

Minimum Depth:

50 feet

Maximum Depth:

50 feet

**Record Count: 2** 

UTMNAD83 Radius Search (in meters):

Easting (X): 567814

Northing (Y): 3626267

Radius: 2000

# APPENDIX III LABORATORY RESULTS



November 17, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WINDFOHR 4 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 14:42.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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



# Analytical Results For:

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/14/2014

Reported:

11/17/2014

Project Name:

WINDFOHR 4 FED #2

Project Number:

70130707101

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes) Jodi Henson

Sample Received By:

Project Location:

EDDY COUNTY, NM

Sample ID: S-1 2.0 (H403526-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Result

Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

**RPD** 3.92 Qualifier

Chloride

176

11/17/2014 16.0

416

BS

104

400

Sample ID: S-3 2.0 (H403526-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

% Recovery 104

True Value QC

RPD Qualifier

Chloride

Result 176

Reporting Limit 16.0

Reporting Limit

ND

416

400

3.92

Sample ID: S-5 3.5 (H403526-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Chloride 272

16.0

Analyzed 11/17/2014

Analyzed

11/17/2014

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

**RPD** 3.92

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celeg Ditreene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



### **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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

•				355	25-3	-5-	H403526	Lab I.D.	AND REPORT AT LAND	FOR LAB USE ONLY	Sampler Name: K	Project Location:	Project Name: シルのアのけん ケ	Project #: 70/307,07/0/	Phone #: 575-746-8768	city: Artesia	Address: 408 W. Te	Project Manager:	Company Name: Talon/LPE
				3.5	3 2,0	1 2.0		Sample I.D.			K. Swist		FORR 4 FED #1	2,07/0/ Project Owner:	3768 Fax #: 575-746-8905	State: NM Zip: 88210	Texas Ave.	SIM WILSON	n/LPE
				X		(×	(G)RAI # CON GROU WAST SOIL OIL SLUDG	ITAINE INDWA EWAT	TER	MATRIX		,	Botteny		e.		0	70	
				11.14.14 1	11,14,14 17	111414 11	ACID/E ICE / C OTHE	BASE:		PRESERV. SAMPLING	1	Phone #:	State: Zip:	City:	Address:	Attn:	Company: Talon/LPE	P.O. #:	3/41-70
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																			ANALYSIS REQ
		4		•															REQUEST

PLEASE NOTE: Itability and Damages. Cardinate liability and clerits exclusive remody for any claim saiding whether based in contract or tot, shall be indeed to be amount paid by the clerits exclusive remody for any claim saiding whether cause what some cause when the cause what some cause when the ca Relinquished By: Delivered By: (Circle One) Type: 4 Date: Time: 23.6 Received By Cool Intact
Yes 7765 Sample Condition CHECKED BY: ☐ Yes ☐ No Add'I Phone#:
☐ Yes ☐ No Add'I Fax#: RUSH !!

Sampler - UPS - Bus - Other:

+ Carrinal cannot accent verhal chances Bleace fax written chances to 1578 203,2706

# APPENDIX IV FINAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Biazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

# Release Notification and Corrective Action

						OPERA'	ГOR		_ Initia	al Report	$\boxtimes$	Final Report		
Name of Co	mpany : I	IME ROCK	CES П-A, LP		Contact: Mike Barrett									
Address: 1111 Bagby Street Suite 4600, Houston, TX 77002 Facility Name: Windfohr 4 Federal #2 Battery						Telephone No.: 575-623-8424								
Facility Na	ne: Wind	fohr 4 Fede	ral #2 Ba	ittery		Facility Typ	e: Battery							
Surface Ow	ner : Bogl	e Farms		Mineral O	wner:	BLM			API #3	0-015-3041	11			
				,,,,,,,,	BLM API #30-015-30411 Lease No. # MNL-061783A									
				LOCA	TIO	ומנמי אנט זי	TO A CUE							
Unit Letter	Section	Township	Range	Feet from the		OF REI	Feet from the	East/We	net Timo	County E	44			
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				NAT	URE	OF REL	EASE							
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was militedi	ne nonce (		Yes	No 🗌 Not Re	quired	If YES, To BLM/Jeff	wnom? ery Robertson &	OCD/M	ike Brat	cher				
By Whom?	Kimberly \	Wilson with T	alon/LPE			Date and H	lour:10/13/14@	4:00 pm						
Was a Water					If YES, Vo	lume Impacting t	the Water	course,						
			Yes 🛚	No										
If a Watercon	irse was Im	pacted, Descri	ibe Fully.*							-				
45 barrels of was repaired Road for ap Describe Are Talon/LPE	produced I. The inition of the initial of the inition of the inition of the inition of the initial of the initi	water. A vacial release poi y 411-feet lon and Cleanup A acted for corre	truck was nt measu g by 10 fe Action Tak ection of t	his release. The	illed to ly 24-fe hoe was impact	the site and et long by 23 s used to ber ed area in th	recovered 15 bar -feet wide then f m the flow path the vicinity of sam	rrels. All flowed eas to preven	wells we st along l t further	re shut in and both sides of migration.	nd the f Little	flow line Diamond		
The excavat	ed soil was	transported	to Lea La	ated to a depth of and for disposal.	The ex-	cavation was	subsequently be	ackfilled	om tne p with new	ottom of the caliche tra	e excav nsport	ed from Lea		
Land, The	rea was re	-contoured to	match th	e surrounding te	errain.	No further a	ctions are requi	red.						
regulations a public health should their or or the enviro	I operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptance dequately OCD accep	is true and compled/or file certain re- e of a C-141 repo- investigate and re- tance of a C-141 r	elease not by the content of the con	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Room that pose a three the operator of	ctive actio Leport" doc reat to gro responsib	ns for rel es not rel und wate ility for c	eases which ieve the oper r, surface wa ompliance w	may en ator of iter, hui vith any	ndanger liability man health		
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Signature:	Mul	1,0	~											
Printed Name	: Michael	Barrett				Approved by	District Supervis	sor:						
Title: Produ	iction Sup	ervisor			2	Approval Da	te:	Ez	epiration	Date:				
E-mail Addre	ss: mbarr	ett@limerock	s,com		Conditions o	Attached								
Date: 12/3/			ne: 575-62	3-8424										
Attach Addi	tional She	ets If Necess	ary	<u> </u>										