

February 29, 2012

Mr. Mike Bratcher

NMOCD District 2
811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Subject:

Remediation and Closure Report

Lime Rock Resources II-A, LP

Stirling 7 C No. 4

30-015-34838 - 2RP-894

Dear Mr. Bratcher,

Lime Rock Resources II-A, LP (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Stirling 7 C No. 4. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

RECEIVED

MAR -2 2012

NMOCD ARTESIA

#### **Incident Date**

January 18, 2011

#### **Background Information**

The Stirling 7 C No. 4 is located approximately twelve (12) miles southeast of Artesia, New Mexico. The legal location for the site is Section 8, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.76700 North and -104.321001 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of the Arno-Harkey complex, saline, 0 to 1 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which includes silty soils under lain by gypsum and silty clay. The New Mexico State Engineer web site indicates the nearest ground water data to be in S1-T18S-R26E. The ground water in the area is reported to be at an average of 8' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

Depth to ground water <50'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

AMARILLO 921 North Bivins

Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

ARTESIA

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

**AUSTIN** 

9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989 3487

HOBBS

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

**MIDLAND** 

290I State Hwy 349 Midland, Texas 79706 Phone 432.522 2133 Fax 432.522.2180

#### SAN ANTONIO

II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74I03 Phone 9I8.742.087I Fax 9I8.382.0232

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING

CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

#### **Incident Description**

On January 18, 2011 a 3" poly flow line split inside the berm at the Stirling 7 C No. 4 tank battery. The flow line was taken out of service, repaired and placed back into service. Approximately 4 barrels of hydrocarbons and 83 barrels of produced water were released. A vacuum truck was brought to the location and recovered 2 barrels of hydrocarbons and 68 barrels of produced water. The impacted area was within the berms of the unlined tank battery.

#### **Remedial Actions**

On November 30, 2011 Mr. Bratcher of the OCD granted approval of the work plan. On December 19, 2011 Talon personnel mobilized to the site to begin excavation of the chloride impacted area. The impacted soil within the area of the release was removed to an average depth of 4-feet deep and transported to a NMOCD approved solid waste disposal facility, Lea Land, LLC pursuant to the work plan. The excavated area was left open until approval for installation of a 20 Mil liner was obtained from NMOCD.

On January 12, 2012 Talon personnel mobilized to the site to begin closure soil sampling activities on the sidewalls of the excavation per NMOCD requirements. Grab soil samples were collected and submitted for laboratory analysis.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for Chlorides using method SM4500Cl-B, TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The complete laboratory report is attached as Appendix II.

#### **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

January 17, 2012

Sample	Chlorides	BTEX	<u>TPH</u>
S-1, North side wall	752	<0.150 mg/kg	<10 mg/kg
S-2, East side wall		<0.150	<10
S-3, South side wall		<0.150	<10
S-4, West side wall		<0.150	<10

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 100 mg/kg.

On January 18, 2012 the NMOCD granted approval for the installation of a 20 Mil liner. The excavated area was subsequently backfilled to grade using new material backhauled from Lea Land, LLC.

#### **Summary and Conclusion**

- Groundwater in the project vicinity is less than 50-feet below land surface per the New Mexico State Engineer Database.
- The impacted soil within the tank battery was excavated to approximately 4-feet deep. The excavated soil was transported to an NMOCD approved solid waste disposal facility.
- A 20 Mil liner was installed into the bottom of the excavated area within the tank battery. The excavated area was backfilled to grade using new material transported from a local borrow pit.
- Based on the depth to groundwater and the remedial actions implemented, it is unlikely that the impacts identified from this release will pose a threat to groundwater.

#### Closure

Therefore, on behalf of Lime Rock Resources, we respectfully request that no further actions be required and that closure with respect to this release and that site closure be granted.

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

Respectfully submitted,

TALON/LPE

Mike Stubblefield

marlstallfill

Project Manager

David J. Adkins

District Manager

# APPENDIX I GROUNDWATER DATA



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

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	 	 			,		 	 

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Sub Q Q QDepth Depth Water basin Use County 6416 4 Sec Tws Rng Y Distance Well Water Column **POD Number** PRO ED 3 2 4 01 18S 26E RA 05989 562774 3626466\* 857 72 64 RA 02432 DOM 18S 26E 561764 3625443\* 1667 100 Average Depth to Water: 8 feet Minimum Depth: 8 feet

Maximum Depth:

8 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 563379

Northing (Y): 3625859

Radius: 2000

## APPENDIX II LABORATORY RESULTS



January 17, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STERLING 7 C NO 4 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/12 16:10.

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 <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



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

01/12/2012

01/17/2012

Sampling Date:

01/12/2012

Reported:

Sampling Type:

Soil

Project Name:

STERLING 7 C NO 4 RELEASE

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Project Location:

SEC.8-T18S-27E

Sample Received By:

Celey D. Keene

#### Sample ID: S-1 NORTHSIDE WALL (H200069-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2012	ND	2.09	104	2.00	2.07	
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78	
Surrogate: 4-Bromofluorobenzene (PIL	110 9	64 4-13	4						•
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>272</b> 16.0		01/13/2012 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	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
Surrogate: 1-Chlorooctane	123 9	6 55 5-15	4				·		
Surrogate: 1-Chlorooctadecane	138 9	6 57.6-15	8						

#### 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 ilimitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, 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 & Kreene



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

01/12/2012

Sampling Date:

01/12/2012

Reported:

01/17/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

STERLING 7 C NO 4 RELEASE

Sample Received By:

Project Number:

NOT GIVEN

Project Location:

SEC.8-T18S-27E

Celey D. Keene

#### Sample ID: S-2 EASTSIDE WALL (H200069-02)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					···
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2012	ND	2.09	104	2.00	2.07	
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78	
Surrogate: 4-Bromofluorobenzene (PIL	112	% 64 4-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/13/2012	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	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
Surrogate. 1-Chlorooctane	129	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	143	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

01/12/2012

Reported:

01/17/2012

Sampling Date:

01/12/2012

Sampling Type:

Soil

Project Name:

STERLING 7 C NO 4 RELEASE

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Celey D. Keene

Project Location:

SEC.8-T18S-27E

#### Sample ID: S-3 SOUTHSIDE WALL (H200069-03)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2012	ND	2.09	104	2.00	2.07	
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53	
Total Xylenes*	<0.150 0.150		01/13/2012 ND		6.94	116	6.00	3.78	
Surrogate: 4-Bromofluorobenzene (PIL	109 5	% 64 4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>720</b> 16.0		01/13/2012 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	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
Surrogate 1-Chlorooctane	103	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg D. Keine



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

01/12/2012

Sampling Date:

01/12/2012

Reported:

01/17/2012

Sampling Type:

Soil

Project Name:

STERLING 7 C NO 4 RELEASE

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Project Location:

SEC.8-T18S-27E

Sample Received By:

Celey D. Keene

#### Sample ID: S-4 WESTSIDE WALL (H200069-04)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2012	ND	2.09	104	2.00	2.07	
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78	
Surrogate 4-Bromofluorobenzene (PIL	111	% 64 4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>112</b> 16.0		01/13/2012 ND		416	104	400	0.00	
ТРН 8015М	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	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	
Surrogate: 1-Chlorooctane	124	% 55 5-15	4						
Surrogate 1-Chlorooctadecane	137	% 57 6-15	8						

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\*=Accredited Analyte

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Celeg D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine



#### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Talon/LPE									11	BILL TO ANALYSIS REQUEST															
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#### 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 Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

MAR - 2 2012 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

#### **Release Notification and Corrective Action**

						OPERA	$\boxtimes$	Final	Repor					
Name of Co	mpany : I	IME ROCK	RESOURCE	S II-A, LP		OPERATOR Initial Report Final Re Contact: Jerry Smith								
Address: 11	11 Bagby	Street Suite 46	00, Houston	,TX 77002		Telephone No.: 575-748-9724								
Facility Nar	ne : Stirlin	g 7 C #4				Facility Type: Battery								
Surface Ow	ner : Priva	ite	•.	Mineral	Owner	: Federal			Lease N 2RP-89	No. : API #	30-01	15-34838	8	
				LOC	ATIC	N OF REI	FASE							
Unit Letter C	Section 7	Township 18S		Feet from the		h/South Line	Feet from the 1650	East/V FWL	Vest Line	County E	ddy			
			Latitu	de32.7670	00	Longitud	e104.321001	<u> </u>		<u> </u>				
				NAT	<b>TURI</b>	E OF RELI	EASE							
Type of Rele			ater			83 bbls PW			68 bbl PV					
Source of Re						1/18/11 an		e:	Date and 12:30 pm	Hour of Dis	cover	y: 1/18/1	I 1	
Was Immedia	ate Notice (		Yes 🗌 N	No 🗌 Not R	Required	If YES, To BLM / Jim								
By Whom?							lour : 1/19/11 11:							
Was a Watero	course Read	ched?	Yes 🛛 N	No		If YES, Vo	lume Impacting t	he Wate	ercourse.					
If a Watercou	rse was Im	pacted, Descri	be Fully.*											
Describe Cau 3" poly flow l barrels of pro-	ine split ins	side the berm	at the tank ba		w line	was isolated an	d repaired. A vac	cuum tri	uck picked	up 2 barrels	of oi	and 68		
Describe Area Talon/LPE wa testing was co	Affected as also cont	and Cleanup A acted for the o	ction Taken correction of d soil was tra	the release. The insported to Le	ea Land	cted area was e l, LLC an appro m a local borro	excavated to a depoved disposal faci	oth of 4- lity. A	foot deep i 20 Mil line	n the tank bar was install	attery, ed an	, analyticad the	al	
regulations all public health of should their of	operators a or the envir- perations ha ment. In ac	are required to onment. The ave failed to a ddition, NMO	report and/o acceptance o dequately inv CD acceptan	or file certain r f a C-141 repovestigate and r	elease of the ort by the emedia	notifications an ne NMOCD ma te contamination	knowledge and ur d perform correct irked as "Final Re on that pose a thre the operator of re	ive action port description de	ons for rele oes not reli- ound water, bility for co	ases which a eve the oper a surface was compliance w	may e ator o er, hu ith an	ndanger f liability ıman hea	,	
Signature:	n/s	South	,	···		OIL CONS	SERV.	<u>ATION</u>	<u>DIVISIO</u>	N				
Printed Name:	Serry Smi	t <u>h</u>			Approved by I	District Superviso	r:	•						
Title: Assista	nt Producti	on Supervisor		·····		Approval Date	:	E	Expiration Date:					
E-mail Addres		limerockreso	irces.com		Conditions of Approval:									
Date: 2/28/2 Attach Additi			e: <u>575-748-9</u>	724				<del></del>						