



Remediation and Closure Report:

Falcon 3 G Federal #32
30-015-41466 * 2RP-4205
Talon Project No. 701307.097.01

Prepared For:

Lime Rock Resources II-A, L.P.

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

June 7, 2018

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Falcon 3 G Federal #32
30-015-41466 * 2RP-4205

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Falcon 3 G Federal #32 is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter G, Section 3, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.77767 North and -104.264961 West. A site map is presented in [Appendix I](#).

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 underlain by gypsum and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the nearest ground water is 50' below ground surface. See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 1,000 mg/kg for TPH. The clean-up criteria for total chlorides was considered to be 1,000 mg/kg at remediation.

Incident Description

On April 10, 2017, the packing on the stuffing box blew out causing an unknown amount mixed fluids to be released on the location. The well was shut-in until repairs could be made. All fluids remained on the bermed location. A vac truck was immediately called to the location and recovered 40 barrels of fluid. A site map is presented in **Appendix I** which illustrates the impacted area.

Remedial Actions Taken

The remediation activities were completed according to the work plan approved NMOCD. The impacted areas were excavated to a depth of 1-foot deep. All contaminated soil was transported to Lea Land, LLC an approved NMOC disposal facility.

The excavated areas were backfilled and machine compacted to match the surrounding location.

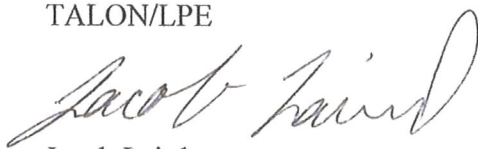
Closure

On behalf of Lime Rock Resources II-A, L.P. we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached. See **Appendix III**.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



Jacob Laird
Environmental Scientist



Kimberly M. Wilson
Project Manager

Attachments:

Appendix I Site Map
Appendix II Groundwater Data
Appendix III Final C-141

APPENDIX I

SITE PLAN



APPENDIX II

GROUNDWATER DATA

Falcon 3G Sed #32

Page 1 of 1



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 Number	POD Sub-	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 03917			LE	4	1	2	10	18S	27E	569019	3625660*	1566	130	50	80

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count:1

UTM NAD83 Radius Search (in meters):

Easting (X): 569198

Northing (Y): 3627216

Radius: 3000

*UTM location was derived from PLSS - see Help

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.

4/13/17 7:02 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

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

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company : LIME ROCK RESOURCES II-A, LP	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston ,TX 77002	Telephone No. : 575-365-9724
Facility Name : FALCON 3 G FEDERAL 32	Facility Type: Well

Surface Owner :	Mineral Owner:	Lease No. 30-015-41466
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LOCATION OF RELEASE

Unit Letter G	Section 3	Township 18S	Range 27E	Feet from the 2065'	North/South Line FNL	Feet from the 2205'	East/West Line FEL	County Eddy
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Latitude 32.7776756 N Longitude -104.2649612 W

NATURE OF RELEASE

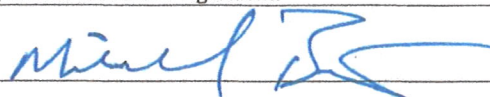
Type of Release : Oil & Produced Water	Volume of Release : Unknown	Volume Recovered: 40 bbls
Source of Release : Stuffing Box leak	Date and Hour of Occurrence: 4/10/2017	Date and Hour of Discovery: 4/10/2017
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD/Mike Bratcher BLM/Shelly Tucker	
By Whom? Kimberly Wilson	Date and Hour: 4/10/2017	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The packing blew out of the stuffing box which caused the release. An unknown amount of mixed fluids were released on the bermed location. A vac truck was called to the location and recovered 40 barrels of mixed fluids. The well was shut in and repaired. A backhoe was immediately called to the location to scrape up the visibly impacted areas and transported to a NMOCD disposal facility. Talon/LPE was called to perform site assessment and sampling activities.

Describe Area Affected and Cleanup Action Taken.* A site assessment was completed and a work plan was subsequently approved by NMOCD. In accordance with the work plan, the impacted area was excavated to a depth of 1-foot below land surface. The excavation was backfilled with new caliche and contoured to match the surrounding location. The impacted soil was disposed of at Lea Land, LLC, a NMOCD approved disposal facility. No further actions are required.

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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett	Approved by District Supervisor: Jocelyn Harimon	
Title: Production Superintendent	Approval Date: 06/27/2022	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/7/2018 Phone: 575-365-9724		

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 01 2017

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

Submit 2 Copies to appropriate
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with Rule 116 on back
side of form

Release Notification and Corrective Action

NAB1713235327

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : LIME ROCK RESOURCES II-A, LP 217558 Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston, TX 77002 Telephone No. : 575-365-9724
Facility Name : FALCON 3 G FEDERAL 32 Facility Type: Well

Surface Owner : Mineral Owner: Lease No. 30-015-41466

LOCATION OF RELEASE

Unit Letter G	Section 3	Township 18S	Range 27E	Feet from the 2065'	North/South Line FNL	Feet from the 2205'	East/West Line FEL	County Eddy
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By Whom? Kimberly Wilson	Date and Hour: 4/10/2017	
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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.

Signature: <i>Michael Barrett</i>	OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett	Signed By: <i>Mike Bratcher</i> Approved by District Supervisor:	
Title: Production Superintendent	Approval Date: 5/12/17	Expiration Date: N/A
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: <i>See attached</i>	Attached <input type="checkbox"/>
Date: 4/13/2017 Phone: 575-365-9724		

* Attach Additional Sheets If Necessary

New forms can be found in the
New Mexico State Website in forms:
[http://www.emnrd.state.nm.us/
oCD/forms.html](http://www.emnrd.state.nm.us/oCD/forms.html)

2RP-4205

From: [Weaver, Crystal, EMNRD](#)
To: ["Michael Barrett"](#)
Cc: [David Adkins; "Kimberly M. Wilson"; Bratcher, Mike, EMNRD; Tucker, Shelly](#)
Subject: RE: Falcon 3 G Federal #32
Date: Friday, May 12, 2017 3:33:00 PM
Attachments: [image002.png](#)
[1. 4205 - COAs and signed C-141 Initial.pdf](#)

RE: Limerock Resources * Falcon 3G Federal #32 * 30-015-41466 * 2RP-4205

Good afternoon,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval. The OCD tracking number for this event is 2RP-4205.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Crystal Weaver

Environmental Specialist
OCD – Artesia District II
811 S. 1st Street
Artesia, NM 88210
Office: 575-748-1283 ext. 101
Cell: 575-840-5963
Fax: 575-748-9720

From: Kimberly M. Wilson [mailto:kwilson@talonlpe.com]
Sent: Monday, May 1, 2017 1:50 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Tucker, Shelly <stucker@blm.gov>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; David Adkins <dadkins@talonlpe.com>

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 8303

CONDITIONS

Operator: LIME ROCK RESOURCES II-A, L.P. 1111 Bagby Street Houston, TX 77002	OGRID: 277558
	Action Number: 8303
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	6/27/2022