| District II<br>District III<br>District IIII<br>District IIIII<br>District IIII<br>District IIIII<br>District IIIII<br>District IIII<br>District IIIII<br>District IIIIII<br>District IIIIII<br>District IIIIII<br>District IIIIII<br>District IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | eived by OCD: 5/22/2020 8:39:50 AM   |  |   | Page 1 d  |  |  |
|---|--|--|---|---|--|--|
| Distical III Conservation Division Division Submit 2 Copies to appropriate Distrot Office in accordance with Rule 116 on back Santa Fe, NM 87505 acta Fe, PF, Address F, IIII Bagby Street Suite 4000, Houston, TX 77000 FELEASE Fe   | 1625 N. French Dr., Hobbs, NM 88240<br>District II Energy Mineral  |  |   |   |  |  |
| OPERATOR       Initial Report       ➢ Final Report         Name of Company : LIME ROCK RESOURCES II-A, LP       Contact : Mike Barrett       Telephone No. : 575-623-8424         Facility Name ': West Redake Unit Injection Staton #2       Facility Type: Injection Water Station       Facility Type: Injection Water Station         Surface Owner : BLM       Mineral Owner:       Lease No. NM 7721 / LC 070678-A         Unit Letter       Section       Township       Range         C       9       Township       Range       Feet from the       North/South Line       Feet from the       Eas/West Line       County Eddy         Location of Release : Produced Water       Volume of Release : 425 bbls       Volume Recovered: 390 bbls       Source of Release : Tanks overflowed       Date and Hour of Occurrence:       Date and Hour of Discovery: 5/10/14         Source of Release : Tanks overflowed       I///14 &@///14 &@///14 &@///14       If YES, To Whom?       If YES, To Whom?         Was Immediate Notice Given?       Yes       No       Not Required       IL///I/14 &@///12 (29 pm         Was a Watercourse Reached?       Yes       No       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Pescribe Cause of Problem and Remedial Action Taken.*       Site assessment activities were carried out and a work plan was subsequently approved by NMOCD.   | District III       Oil Cons         1000 Rio Brazos Road, Aztec, NM 87410       1220 Sout         District IV       1220 Sout  | th St. Francis Dr.   |   | with Rule 116 on back   |  |  |
| Name of Company : LIME ROCK RESOURCES II-A, LP       Contact : Mike Barrett         Address : 1111 Bagby Street Suite 4600, Houston, TX 77002       Telephone NO. : 575-623-8424         Facility Name : West Redlake Unit Injection Station #2       Facility Type: Injection Water Station         Surface Owner : BLM       Mineral Owner:       Lease No. NM 7721 / LC 070678-A         Surface Owner : BLM       Mineral Owner:       Lease No. NM 7721 / LC 070678-A         Unit Letter       Section       Township       Range         7       Feet from the       Nort/VSouth Line       Feet from the       East/West Line       County Eddy         NATURE OF RELEASE       Z /A / - 2 / 3 / 2 / 4         Unit Letter       Section       Township       Range       Feet from the       Nort/VSouth Line       Feet form the       East/West Line       County Eddy         Volume of Release : 425 bbls       Volume Recovered: 390 bbls         Source of Release : 7 nots overflowed       Date and Hour of Occurrence:       5/10/14 / 6/12:39 pm         Was Immediate Notice Given?       If YES, To Mbon?       BLM/Jim Amos, OCD/Randy Dade       BLM/Jim Amos, OCD/Randy Dade         By Whon? Jerry Smith w/LRR       Date and Hour : 5/10/14 / 6/12:39 pm       If YES, To Mbon?       If YES, To Mbon?         Was a Watercourse was Impacted   | Release Notification   | on and Corrective Ac   | ction   |   |  |  |
| Name of Company : LIME ROCK RESOURCES II-A, LP       Contact : Mike Barrett         Address : 1111 Bagby Street Suite 4000, Houston, TX 77002       Telephone No. : 575-623-8424         Facility Name : West Redlake Unit Injection Station #2       Facility Type: Injection Water Station         Surface Owner : BLM       Mineral Owner:       Lease No. NM 7721 / LC 070678-A         LocArtION OF RELEASE       Z KP - Z3244         Unit Letter       Section       Township       Range         YE       Peet from the       Nort/WSouth Line       Feet from the       East/West Line       County Eddy         Unit Letter       Section       Township       Range       Feet from the       Nort/WSouth Line       Feet from the       East/West Line       County Eddy         Unit Letter       Section       Township       Range       Feet from the       Nort/WSouth Line       Feet from the       East/West Line       County Eddy         Value       32.769253 N       Longitude       -104.286676 W       NATURE OF RELEASE       Date and Hour of Discovery: 5/10/14       Source of Release : Tanks overflowed       Date and Hour of Courrence:       Jot and Hour of Discovery: 5/10/14       Source of Release : Tanks overflowed       Was Manediate Notice Given?       If YES, To Whon?       BLM/Jin Amos, OCD/Randy Dade         By Whon?       Jerry Smith w/LRR       Date  |  | OPERATOR   | 🗌 Initia  | l Report 🛛 🔀 Final Report   |  |  |
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| Surface Owner : BLM       Mineral Owner:       Lease No. NM 7721 / LC 070678-A         Surface Owner : BLM       Lease No. NM 7721 / LC 070678-A         LocCATION OF RELEASE       Z#P - 2324         Unit Letter       Section       Township       Range       Feet from the       Feet from the       Sat/West Line       County Eddy         Latitude _32.769253 N_Longitude104.286676 W   | Address: 1111 Bagby Street Suite 4600, Houston, TX 77002   | Telephone No. : 575-623-842  | 24  |   |  |  |
| LOCATION OF RELEASE         Z.F.P Z.3.2.4           Unit Letter         Section         Township         Range         Feet from the         North/South Line         Feet from the         East/West Line         County Eddy           Latitude         _32.769253 N         Longitude         -104.286676 W  | Facility Name : West Redlake Unit Injection Station #2   | Facility Type: Injection Wat   | ter Station   |   |  |  |
| Unit Letter       Section       Township       Range<br>27E       Feet from the       North/South Line       Feet from the       East/West Line       County Eddy         Latitude_32.769253 N_Longitude104.286676 W  | Surface Owner : BLM Mineral Owner  | r:   | Lease N   | o. NM 7721 / LC 070678-A  |  |  |
| Unit Letter       Section       Township       Range<br>27E       Feet from the       North/South Line       Feet from the       East/West Line       County Eddy         Latitude_32.769253 N_Longitude104.286676 W  | ΙΟCΑΤΙ   | ON OF RELEASE  | ZRP.  | 2324  |  |  |
| Latitude_32.769253 N_Longitude104.286676 W  | Unit Letter Section Township Range Feet from the Nor   |  |   |   |  |  |
| NATURE OF RELEASE         Type of Release : Produced Water       Volume of Release : 425 bbls       Volume Recovered: 390 bbls         Source of Release : Tanks overflowed       Date and Hour of Occurrence:<br>5/10/14 8:00 am       Date and Hour of Discovery: 5/10/14         Was Immediate Notice Given?       If YES, To Whom?       Date and Hour : 5/10/14 @ 12:39 pm         By Whom? Jerry Smith w/LRR       Date and Hour : 5/10/14 @ 12:39 pm         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*         Water course was Contracted to perform an initial site assessment and soil sampling.       Describe Area Affected and Cleanup Action Taken.* Site assessment and soil sampling.         Describe Area Affected and Cleanup Action Taken.* Site assessment activities were carried out and a work plan was subsequently approved by NMOCD. Including a site plan illustrating excavation depths, confirmation sample locations and laboratory report. Permission to backfill was received via email from NMOCD on July 28, 2014. The excavation was backfilled with newly obtained caliche, machine compacted and contoured to match the surrounding location. We respectfully request no further actions be required and this incident be closed.         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   |  | Longitude -104 286676 W  |   |   |  |  |
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| Signature: /hlafbis   | A / 1 / C  | OIL CONSERVATION DIVISION  |   |   |  |  |
| Printed Name: Michael Barrett Approved by District Supervisor:  | Printed Name: Michael Barrett  | Approved by District Supervisor:   |   |   |  |  |
| Title: Production Supervisor Approval Date: Expiration Date:  | Title: Production Supervisor   | Approval Date:   | Expiration I  | Date:   |  |  |
| E-mail Address: mbarrett@limerockresources.com Conditions of Approval: Attached   | E-mail Address: mbarrett@limerackresources.com   |  |   |   |  |  |
| Date: 7/31/2014 Phone: 575-623-8424   | L-man Address. mountendymneroekresources.com   | Conditions of Approval:  |   | Attached 🗌  |  |  |

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\* Attach Additional Sheets If Necessary

|  | Mic | hae | Ba | rrett |
|--|-----|-----|----|-------|
|--|-----|-----|----|-------|

| From:    | Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us] |
|----------|---|
| Sent:    | Monday, July 28, 2014 10:44 AM                    |
| То:      | David Adkins                                      |
| Cc:      | Michael Barrett; Kimberly M. Wilson               |
| Subject: | RE: Lime Rock West Red Lake 2, closure request    |
|          | 2 RP- 2324  |

Mr. Adkins,

Based on the analytical data, this site looks good to proceed with backfill operations.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108 C: 575-626-0857 F: 575-748-9720

From: David Adkins [mailto:dadkins@talonlpe.com]
Sent: Friday, July 25, 2014 1:38 PM
To: Bratcher, Mike, EMNRD
Cc: Michael Barrett; Kimberly M. Wilson
Subject: Lime Rock West Red Lake 2, closure request

Mr. Bratcher,

Attached please find our confirmation sampling analysis for the above referenced project. I attached the site plan and lab data from the work plan for your review. The third attachment illustrates our excavation depths in the work area.

As shown on the lab report, total chlorides at S-1 at 2.5 feet deep were 480 mg/kg, and at S-4 the results at 2.5-feet were 400 mg/kg. Additionally, our field titration results for chlorides were as follows:

 S-1
 2.5'
 283 mg/kg

 S-1
 3.0'
 283

 S-1
 3.5'
 212

 S-4
 2.5'
 354 mg/kg

 S-4
 3.0'
 212

Therefore, on behalf of Lime Rock Resources, we respectfully request permission to backfill the location and close out the project. Thank you.

Sincerely,

David J. Adkins District Manager Talon/LPE 408 West Texas Avenue



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 575.748.8905

HOBBS 318 East Taylor Street Hobbs, New Mexico 88241 Phone 505.393.4261 Fax 505.393.4658

MIDLAND 2901 State Highway 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

OKLAHOMA CITY 7700 North Hudson Ave Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

> SAN ANTONIO 13111 Lookout Way San Antonio, TX 78233 Phone 210.265.8025 Fax 210.568.2191

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

> Toll Free: 866.742.0742 www.talonlpe.com

June 11, 2014

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject: Soil Assessment and Remediation Work Plan Lime Rock Resources West Redlake Unit Injection Station #2 2RP-2324

Dear Mr. Bratcher:

Lime Rock Resources 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**

May 10, 2014

### **Background Information**

The West Redlake Unit Injection Station #2 is located approximately sixteen (16) miles southeast of Artesia in Eddy County, New Mexico. The legal location for this site is Section 9, Township 18 South, and Range 27 East. More specifically the latitude and longitude for the release point are 32.769253 North and -104.286676 West. A site plan is presented in Appendix I.

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 weathered Gypsum. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. According to the New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T18S-R27E. The ground water in Section 10 is reported to be a depth of 50' below ground surface (bgs). See Appendix II for the referenced groundwater data.

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

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

# **Incident Description**

On May 10, 2014 the water tanks overflowed causing 425 barrels of produced water to be released within the earthen berms of the secondary containment of the facility. The facility was shut-in and a vac truck was immediately called to the location. It recovered 390 barrels of produced water. On May 13, 2014 Talon mobilized personnel to the location for initial site assessment and soil sampling activities to generate a work plan. The results of these sampling activities are summarized in the table below.

### Laboratory Results

See Appendix III for complete report of laboratory results.

| May 21, | 2014 |
|---------|------|
|---------|------|

| Sample ID | Depth<br>(feet) | BTEX<br>(mg/kg) | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH<br>(mg/kg)<br>DRO |
|-----------|-----------------|-----------------|----------------------|--------------------|-----------------------|
| S-1       | 0'              |                 | 44800                |                    |                       |
|           | 1'              | <b>Ma 149</b>   | 5360                 | per ba             |                       |
| S-2       | 1'              | < 0.300         | 1070                 | <10                | <10                   |
|           | 2'              |                 | 480                  |                    |                       |
|           | 3'              |                 | 992                  |                    |                       |
| S-3       | 0'              |                 | 33200                |                    |                       |
|           | 1'              |                 | 464                  |                    |                       |
|           | 2'              |                 | 512                  |                    |                       |
|           | 3,              |                 | 192                  |                    |                       |
|           | 4'              |                 | 304                  |                    |                       |
| S-4       | 0,              |                 | 34400                |                    |                       |
|           | 1'              |                 | 8800                 |                    | wa na                 |

--Analyte Not Tested

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 100 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg.

# **Proposed Remedial Actions**

- The impacted area between sample locations S-1 and S-4 will be excavated to a depth of 2-feet deep. The bottom and sidewalls of the excavation will be tested for chlorides using the field titration method to guide the excavation process.
- The impacted area near sample location S-2 will be excavated to a depth of 2-feet deep and in the vicinity of sample location S-3, the excavation will be excavated to a depth of 0.5-feet deep.
- All excavated soil will be transported to a NMOCD approved solid waste disposal facility
- The excavated areas will be backfilled to grade using new material transported from a local borrow pit and contoured to match existing location.
- A final report documenting all field activities and lab reports will be provided to the BLM Carlsbad Office and NMOCD District II Office.

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,

Millo Kimberly M Wilson

Kimberly M/Wilsor Project Manager

David J. Adkins District Manager

# APPENDIX I SITE MAP

. Released to Imaging: 7/27/2022 2:34:00 PM



Received by OCD: 5/22/2020 8:39:50 AM

## **APPENDIX II**

## **GROUNDWATER DATA**

# **INITIAL C-141**

. Released to Imaging: 7/27/2022 2:34:00 PM

t

|  | New<br>Water C  |               |     |     |      |               |      |                      |            | e State<br><b>e Dep</b>         | -                             |                  |                 | er                |
|--|---|---------------|-----|-----|------|---------------|------|----------------------|------------|---------------------------------|-------------------------------|------------------|-----------------|-------------------|
| (A CLW###### in the<br>POD suffix indicates the<br>POD has been replaced<br>& no longer serves a<br>water right file.) | (R=POD has<br>been replaced,<br>O=orphaned,<br>C=the file is<br>closed) |               |     |     |      |               |      | s=SW 4=<br>gest)     | '          | 983 UTM in me                   | sters)                        | (1               | n feet)         |                   |
|  | POD<br>Sub-   | Q             | Q   | Q   |      |               |      |                      |            |                                 |                               | Depth            | Depth           | Water             |
| POD Number   | Code basin Coun   | ty 64         | 16  | 4   | Sec  | Tws           | Rng  |                      | Х          | Y                               | Distance                      | Well             | Water           | Column            |
| RA 03714   | CH  | 4             | 4   | 2   | 08   | 18S           | 27E  | 56621                | 12 3       | 3625253* 🏐                      | 724                           | 381              |                 |                   |
| RA 03917   | LE  | 4             | 1   | 2   | 10   | 18S           | 27E  | 56901                | 19 3       | 3625660* 🏐                      | 2413                          | 130              | 50              | 80                |
| RA 03661   | ED  | 3             | 2   | 3   | 32   | 17S           | 27E  | 56518                | 36 3       | 3628038* 🌑                      | 2607                          | 330              | 140             | 190               |
| RA 03664   | СН  | 3             | 2   | 3   | 32   | 17S           | 27E  | 56518                | 36 3       | 3628038* 🏐                      | 2607                          | 400              | 100             | 300               |
|  |   |               |     |     |      |               |      |                      |            | Averaç                          | ge Depth to                   | Water:           | 96              | feet              |
|  |   |               |     |     |      |               |      |                      |            |                                 | Minimum                       | Depth:           | 50              | feet              |
|  |   |               |     |     |      |               |      |                      |            |                                 | Maximum                       | Depth:           | 140             | feet              |
| Record Count: 4  | were here are seen and prove mark time time took took took              | anta anta ini |     |     |      | 1778 TONE 677 | -    | nnd ford ford god in | of the Net | tree and down to be how how how | tern trop high trop with both | hand had been by | n han tea wet i | en for ser era ca |
| UTMNAD83 Radius  | Search (in meters):   |               |     |     |      |               |      |                      |            |                                 |                               |                  |                 |                   |
| Easting (X): 566   |   | No            | rth | ing | (Y): | 362           | 5856 |                      |            | 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.

| <u>District I</u><br>625 N. French Dr., Hobbs, NM 88240<br><u>District II</u><br>201 W. General Assessment, Astacia, NM 882  | 10   |  |                                  | f New Mex   | ico<br>I Resources  |  |   | Re  |  | Form C-141<br>tober 10, 2003                    |
|--|--|--|----------------------------------|---|---|--|---|---|--|---|
| 301 W. Grand Avenue, Artesia, NM 882<br><u>District III</u>  |  | Oil (  | Conse                            | rvation Div   | vision  |  |   | Submit 2 C  | lopies t   | o appropriate<br>n accordance                   |
| 000 Rio Brazos Road, Aztec, NM 87410<br>District IV  |  |  |                                  | h St. Franc   |   |  |   | District  | office i   | 116 on back                                     |
| 220 S. St. Francis Dr., Santa Fe, NM 87  | 505  | Sa   | anta F                           | e, NM 875   | 505   |  |   |   |  | side of form                                    |
|  | Rel  | ease Notific   | catio                            | n and Co  | orrective A   | ction  | 1   |   |  |   |
|  |  |  |                                  | <b>OPERA</b>  |   |  | 🛛 Initia  | al Report   |  | Final Repo                                      |
| Name of Company : LIME ROCI<br>Address : 1111 Bagby Street Suite   |  |  |                                  | Contact : M   | fike Barrett<br>No. : 575-623-84  | 124  |   |   |  |   |
| Facility Name : West Redlake Uni   |  |  |                                  |   | e: Injection Wa   |  | tion  |   |  |   |
| Surface Owner : BLM  | <u> </u>   | Mineral C  | Jumer                            |   | <i>y</i>  |  |   | Jo NM 77  | 21/1.0   | C 070678-A                                      |
| Surface Owner . BEAM   |  |  |                                  |   |   |  | 1.000301  | 10. 1111 17   |  | 010010-21                                       |
| Init Lattan   Castion   Townshis   | Daman  | LOCA<br>Feet from the  |                                  | N OF RE   | Feet from the   | Fact/  | West Line   | County E  | ddu  |   |
| Unit Letter Section Township<br>C 9 18S  | P Range<br>27E   | reet from the  | INOLI                            | 1/ SOURI L'HIC  | reet nom me   | Lasvi  | Mest Phic   | County L  | uuy  |   |
|  | Lat  | itude 32.7692  | 53 N                             | Longitude   | -104.286676 W   | 1  |   |   |  |   |
|  |  |  |                                  | OF REL  |   |  |   |   |  |   |
| Type of Release : Produced Water   |  |  | URI                              |   | Release : 425 bb  | ls   | Volume I  | Recovered: 3  | 90 bbls  | 3   |
| Source of Release : Tanks overflow   | ed   | a yang dalam yang pelang sang dalam kan ber  |                                  |   | Iour of Occurrenc   | e:   | Date and  | Hour of Dis   | covery:  | 5/10/14   |
| Was Immediate Notice Given?  |  |  |                                  | 5/10/14 8:0   |   |  | I   |   |  |   |
|  | 🛛 Yes 🗌  | No 🗌 Not R   | equired                          | BLM/Jim   | Amos, OCD/Rar   | idy Dad  | le  |   |  |   |
| By Whom? Jerry Smith w/LRR<br>Was a Watercourse Reached?   |  |  |                                  |   | Iour : 5/10/14 @ 1<br>olume Impacting t   | 12:39 pi   | m   |   |  |   |
|  | Yes 🛛  | No   |                                  | II YES, VO  | nume impacting t  | ne wau   | ercourse,   |   |  |   |
|  |  | 110  |                                  |   |   |  |   |   |  |   |
| If a Watercourse was Impacted, Des   |  | -  |                                  |   |   |  |   |   |  |   |
| If a Watercourse was Impacted, Des<br>Describe Cause of Problem and Ren<br>Water tanks overflowed. The line wassessment and soil sampling.   | scribe Fully.  | *<br>n Taken.*   | as imm                           | ediately called   | to location, Talo   | n/LPE  | was contrac   | cted to perfo   | rm an i  | nitial site                                     |
| Describe Cause of Problem and Ren<br>Water tanks overflowed. The line w  | scribe Fully.<br>nedial Actio<br>vas isolated a  | *<br>n Taken.*<br>and a vac truck wa   |                                  | -   |   | n/LPE  | was contrac   | cted to perfo   | nn an i  | nitial site                                     |
| Describe Cause of Problem and Ren<br>Water tanks overflowed. The line wassessment and soil sampling.   | scribe Fully.<br>nedial Actio<br>vas isolated a<br>p Action Tal<br>given above<br>d to report an<br>he acceptant<br>o adequately<br>AOCD accep   | *<br>n Taken,*<br>and a vac truck wa<br>ken,* All fluids w<br>t is true and comp<br>nd/or file certain r<br>ce of a C-141 repo<br>v investigate and r                          | vere cor<br>elease<br>ort by the | tained with ea<br>the best of my<br>notifications a<br>he NMOCD m<br>ate contaminati                                | rthen berms.<br>knowledge and u<br>nd perform correc<br>arked as "Final R<br>ion that pose a thm<br>e the operator of r   | nderstar<br>tive act<br>eport" d<br>eat to g<br>respons          | nd that purs<br>lons for rel<br>loes not rel<br>round wate<br>ibility for c | suant to NM<br>eases which<br>ieve the ope<br>r, surface wa<br>compliance v             | OCD n<br>may er<br>rator of<br>ater, hur<br>vith any       | ules and<br>ndanger<br>'liability<br>man health |
| Describe Cause of Problem and Ren<br>Water tanks overflowed. The line wassessment and soil sampling.<br>Describe Area Affected and Cleanup<br>I hereby certify that the information<br>regulations all operators are required<br>public health or the environment. T<br>should their operations have failed to<br>or the environment. In addition, NM  | scribe Fully.<br>nedial Actio<br>vas isolated a<br>p Action Tal<br>given above<br>d to report an<br>he acceptant<br>o adequately<br>AOCD accep   | *<br>n Taken,*<br>and a vac truck wa<br>ken,* All fluids w<br>t is true and comp<br>nd/or file certain r<br>ce of a C-141 repo<br>v investigate and r                          | vere cor<br>elease<br>ort by the | the best of my<br>notifications a<br>he NMOCD m<br>te contaminati<br>does not reliev                                | rthen berms.<br>knowledge and u<br>nd perform correct<br>arked as "Final R<br>on that pose a thr<br>on that pose a thr<br>e the operator of p<br>OIL CON                | nderstar<br>tive act<br>eport" d<br>eat to g<br>respons<br>SER V | nd that purs<br>lons for rel<br>loes not rel<br>round wate<br>ibility for c | suant to NM<br>eases which<br>ieve the ope<br>r, surface wa<br>compliance v             | OCD n<br>may er<br>rator of<br>ater, hur<br>vith any       | ules and<br>ndanger<br>'liability<br>man health |
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| Describe Cause of Problem and Ren<br>Water tanks overflowed. The line wassessment and soil sampling.<br>Describe Area Affected and Cleanup<br>I hereby certify that the information<br>regulations all operators are required<br>public health or the environment. The<br>should their operations have failed to<br>or the environment. In addition, NM<br>federal, state, or local laws and/or re-<br>Signature: Muther Signature: Signature: Muther<br>Printed Name: Michael Barrett   | scribe Fully.<br>nedial Actio<br>vas isolated a<br>p Action Tal<br>given above<br>d to report an<br>he acceptance<br>o adequately<br>AOCD acceptance<br>constants<br>ACCD acceptance<br>acceptance<br>acceptance<br>ACCD acceptance<br>acceptance<br>ACCD acceptance<br>ACCD ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>ACCEPTANCE<br>A | *<br>n Taken.*<br>and a vac truck wa<br>ken.* All fluids w<br>the is true and comp<br>nd/or file certain r<br>ce of a C-141 report<br>v investigate and r<br>otance of a C-141 | vere cor<br>elease<br>ort by the | the best of my<br>notifications a<br>he NMOCD m<br>the contaminati<br>does not reliev<br>Approved by                | rthen berms.<br>knowledge and u<br>nd perform correc<br>arked as "Final R<br>ion that pose a thr<br>te the operator of r<br><u>OIL CON</u><br>District Supervise<br>te: | nderstaa<br>tive act<br>eport" d<br>eat to g<br>respons<br>SER V | nd that pure<br>lons for rel<br>toes not rel<br>round wate<br>ibility for c | suant to NM<br>leases which<br>ieve the ope<br>r, surface wa<br>compliance v<br>DIVISIC | OCD m<br>may en<br>rator of<br>ater, hun<br>vith any<br>DN | ules and<br>ndanger<br>'liability<br>man health |
| Describe Cause of Problem and Ren<br>Water tanks overflowed. The line wassessment and soil sampling.<br>Describe Area Affected and Cleanup<br>I hereby certify that the information<br>regulations all operators are required<br>public health or the environment. The<br>should their operations have failed the<br>printed name: Michael Barrett<br>Signature: Muchael Barrett<br>Fitle: Production Supervisor<br>B-mail Address: mbarrett@limerocf<br>Date: 5/10/2014   | scribe Fully.<br>nedial Actio<br>vas isolated a<br>p Action Tal<br>given above<br>d to report an<br>he acceptance<br>o adequately<br>AOCD acceptance<br>o adequately<br>ACCD acceptance<br>o adequately<br>kresources.ce<br>hone: 575-62   | * n Taken.* and a vac truck wa ken.* All fluids w b is true and comp nd/or file certain r ce of a C-141 report investigate and r ottance of a C-141                            | vere cor<br>elease<br>ort by the | the best of my<br>notifications a<br>he NMOCD m<br>ate contaminati<br>does not reliev<br>Approved by<br>Approval Da | rthen berms.<br>knowledge and u<br>nd perform correc<br>arked as "Final R<br>ion that pose a thr<br>te the operator of r<br><u>OIL CON</u><br>District Supervise<br>te: | nderstaa<br>tive act<br>eport" d<br>eat to g<br>respons<br>SER V | nd that pure<br>lons for rel<br>toes not rel<br>round wate<br>ibility for c | suant to NM<br>leases which<br>ieve the ope<br>r, surface wa<br>compliance v<br>DIVISIC | OCD m<br>may en<br>rator of<br>ater, hun<br>vith any<br>DN | ules and<br>ndanger<br>'liability<br>man health |
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# **APPENDIX III**

# LABORATORY RESULTS

. Released to Imaging: 7/27/2022 2:34:00 PM



May 21, 2014

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #2

Enclosed are the results of analyses for samples received by the laboratory on 05/14/14 10:45.

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\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 8



#### Analytical Results For:

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

| Received:         | 05/14/2014            | Sampling Date:      | 05/13/2014    |
|-------------------|-----------------------|---------------------|---------------|
| Reported:         | 05/21/2014            | Sampling Type:      | Soil          |
| Project Name:     | WEST RED LAKE UNIT #2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 701307.061.01         | Sample Received By: | Jodi Henson   |
| Project Location: | EDDY COUNTY, NM       |                     |               |
|                   |                       |                     |               |

#### Sample ID: S-1 0' (H401459-01)

| Chloride, SM4500Cl-B | mg,    | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 44800  | 16.0            | 05/19/2014 | ND           | 416 | 104        | 400           | 3.92 |           |

#### Sample ID: S-1 1' (H401459-02)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5360   | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-2 1' (H401459-03)

| BTEX 8260B                      | 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           | 05/17/2014 | ND           | 2.19 | 110        | 2.00          | 3.33  |           |
| Toluene*                        | <0.050 | 0.050           | 05/17/2014 | ND           | 2.08 | 104        | 2.00          | 0.464 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 05/17/2014 | ND           | 1.95 | 97.6       | 2.00          | 1.90  |           |
| Total Xylenes*                  | <0.150 | 0.150           | 05/17/2014 | ND           | 6.07 | 101        | 6.00          | 1.93  |           |
| Total BTEX                      | <0.300 | 0.300           | 05/17/2014 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 96.8   | % 61.3-142      |            |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 99.2   | % 71.3-129      |            |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 100 9  | 65.7-141        |            |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg/    | kg              | Analyze    | d By: AP     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 1070   | 16.0            | 05/19/2014 | ND           | 400  | 100        | 400           | 0.00  |           |

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Page 2 of 8



### Analytical Results For:

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

| Received:         | 05/14/2014            | Sampling Date:      | 05/13/2014    |
|-------------------|-----------------------|---------------------|---------------|
| Reported:         | 05/21/2014            | Sampling Type:      | Soil          |
| Project Name:     | WEST RED LAKE UNIT #2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 701307.061.01         | Sample Received By: | Jodi Henson   |
| Project Location: | EDDY COUNTY, NM       |                     |               |

### Sample ID: S-2 1' (H401459-03)

| 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            | 05/18/2014 | ND           | 198 | 99.0       | 200           | 9.70 |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 05/18/2014 | ND           | 227 | 114        | 200           | 10.0 |           |
| Surrogate: 1-Chlorooctane     | 106 %  | 65.2-14         | 0          |              |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane | 106 %  | 63.6-15         | 4          |              |     |            |               |      |           |

#### Sample ID: S-2 2' (H401459-04)

| Chloride, SM4500Cl-B       | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 480    | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |
| Sample ID: S-2 3' (H401459 | 05)    |                 |            |              |     |            |               |      |           |

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 992    | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-3 0' (H401459-06)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 33200  | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

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Page 3 of 8



#### Analytical Results For:

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

| 05/14/2014            | Sampling Date:                                       | 05/13/2014   |
|-----------------------|--|--|
| 05/21/2014            | Sampling Type:                                       | Soil   |
| WEST RED LAKE UNIT #2 | Sampling Condition:                                  | Cool & Intact  |
| 701307.061.01         | Sample Received By:                                  | Jodi Henson  |
| EDDY COUNTY, NM       |  |  |
|                       | 05/21/2014<br>WEST RED LAKE UNIT #2<br>701307.061.01 | 05/21/2014Sampling Type:WEST RED LAKE UNIT #2Sampling Condition:701307.061.01Sample Received By: |

#### Sample ID: S-3 1' (H401459-07)

| Chloride, SM4500CI-B | mg     | /kg             | Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 464    | 16.0            | 05/19/2014      | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-3 2' (H401459-08)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 512    | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-3 3' (H401459-09)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-3 4' (H401459-10)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 304    | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

#### Sample ID: S-4 0' (H401459-11)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 34400  | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

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Page 4 of 8



### Analytical Results For:

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

| Received:05/14/2014Reported:05/21/2014Project Name:WEST RED LAKE UNIT #2Project Number:701307.061.01Project Location:EDDY COUNTY, NM | Sampling Date:<br>Sampling Type:<br>Sampling Condition:<br>Sample Received By: | 05/13/2014<br>Soil<br>Cool & Intact<br>Jodi Henson |
|--|--|--|
|--|--|--|

### Sample ID: S-4 1' (H401459-12)

| Chlo | ride, SM4500Cl-B | mg/    | kg              | Analyze    | d By: AP     |     |            |               |      |           |  |
|------|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|--|
|      | Analyte          | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chlo | oride            | 8800   | 16.0            | 05/19/2014 | ND           | 400 | 100        | 400           | 0.00 |           |  |

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#### **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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Page 8 of 8

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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

COMMENTS

| Operator:                      | OGRID:                                    |
|--------------------------------|---|
| LIME ROCK RESOURCES II-A, L.P. | 277558                                    |
| 1111 Bagby Street              | Action Number:                            |
| Houston, TX 77002              | 8412                                      |
|                                | Action Type:                              |
|                                | [C-141] Release Corrective Action (C-141) |

COMMENTS

| COMMENTS   |   |                 |
|------------|---|-----------------|
| Created By |   | Comment<br>Date |
| jharimon   | Closure approved on 05/28/2020 by Bradford Billings | 7/27/2022       |

Action 8412

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

| Operator:                      | OGRID:                                    |
|--------------------------------|---|
| LIME ROCK RESOURCES II-A, L.P. | 277558                                    |
| 1111 Bagby Street              | Action Number:                            |
| Houston, TX 77002              | 8412                                      |
|                                | Action Type:                              |
|                                | [C-141] Release Corrective Action (C-141) |

#### CONDITIONS

| Created By |      | Condition<br>Date |
|------------|------|-------------------|
| jharimon   | None | 7/27/2022         |

CONDITIONS

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Action 8412