

September 27, 2013

**NM OIL CONSERVATION** 

ARTESIA DISTRICT

JUN 0 3 2014

**AMARILLO** 921 North Bivins Amarillo, Texas 79107 Phone 806.467,0607

Fax 806,467,0622

Mr. Jim Amos **Bureau of Land Management** 620 E. Greene Street Carlsbad, NM 88220

RECEIVED

2RP-1675 NMLB1318440851

ARTESIA

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905 Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject: HOBBS

Remedial Activities and Closure Report

Lime Rock Resources

West Red Lake Water Station No.1

2RP-1675

Dear Mr. Bratcher,

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432,522,2133 Fax 432.522.2180

318 East Taylor Street Hobbs, New Mexico 88240

> Phone 575,393,4261 Fax 575.393,4658

> > Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform soil and surface water remediation services at the above referenced location. The incident description, soil and water sampling results, remediation activities and closure request are submitted herein.

OKLAHOMA CITY 7700 North Hudson Avenue Oklahoma City, Oklahoma 73/16 Phone 405,486,7030

#### **Incident Date**

The release was discovered May 27, 2013 at approximately 7:00 am

#### **Location Information**

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210,265,8025 Fax 210.568.2191

Fax 806.467.0622

The West Red Lake Water Station #1 is located approximately fifteen (15) miles southeast of Artesia, New Mexico. The legal location for the site is Unit B Section 7 Township 18S Range 27E, in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.76852 north -104.31437 west.

### **Incident Description**

On May 27, 2013 an alarm malfunctioned causing tanks to overflow into secondary containment. The secondary containment subsequently failed causing the release of produced fluids, mainly water. The fluids flowed south across the location and into a draw. Once the fluids reached the draw it flowed south and west down the draw for approximately ½ mile. The draw drains into the Pecos River. The fluid entered the river at the end of the draw and flowed for approximately 3 miles downriver.

**ENVIRONMENTAL CONSULTING ENGINEERING** DRILLING CONSTRUCTION SPILL MANAGEMENT

Toll Free: 866.742.0742 www.talonipe.com

GENERAL CONTRACTING

### **Emergency Response**

Talon/LPE, the Bureau of Land Management (BLM), the New Mexico Oil Conservation Division (NMOCD), the US Environmental Protection Agency (US EPA), the New Mexico State Police and New Mexico Game and Fish (NMGF) were notified immediately upon discovery of the release by Lime Rock personnel management. Talon personnel mobilized to conduct emergency response activities and arrived onsite approximately one hour after notification. Oil sorbent booms were placed at the "river entry point" to keep any more product from entering the river. Oil sorbent booms were also placed at the end of the product flow in the river to stop the flow of oil from moving further down the river. Oil sorbent booms were also placed in 4 separate locations in the river to impede and minimize the amount of crude oil product migrating downriver. At the direction of Mike Bratcher of NMOCD booms were placed at a 5<sup>th</sup> location (approximately ½ mile downstream of the 4<sup>th</sup> oil sorbent boom location) to monitor for any oil making it that far down the river and potentially threatening Lake Brantley. No oil ever reached this last set of booms.

Talon placed oil skimmers in the river ahead of the booms where oil and debris were collecting. Eleven (11) vacuum trucks were utilized to recover free-phase oil along with impacted water. Vacuum trucks were utilized daily during the surface water remediation process.

Concurrent with the remedial activities taking place in the river, a containment area (lined sump) was constructed near the end of the draw leading to the river in order to collect and recover the released fluids that were continuing to flow down the draw. Vacuum trucks were used to recover product from the lined containment area and were sent for disposal at CRI landfill.

Talon mobilized an excavator to remove the impacted soil near the river entry point. Soil samples were taken from this excavation. Surface water samples were collected at the river entry point and background surface water samples were also taken upstream of the river entry point. Laboratory analysis results are discussed subsequently herein. Five site maps are attached.

Remediation activities also were undertaken at the upgradient tank battery which was the source area of this release. The hi-level alarm, tank and tank battery containment were repaired by Lime Rock personnel and contractors. The impacted soil in this area and in the flow path leading to the draw was excavated by Talon personnel and transported to Lea Land, LLC for disposal. The excavated areas were sampled and the soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. Upon receipt of acceptable sampling results, the excavation was backfilled with permission from the BLM. Multiple caliche berms and water bars were subsequently constructed down gradient of the tank battery to act as additional containment in the event of another loss.

Water trucks were utilized at the head of the draw to flush fresh water through the flow path of the release. This water was captured and recovered from a second lined containment sump constructed near the top of the draw. Upon completion of their use, both the catch basins were subsequently excavated and sent to Lea Land for disposal.

A controlled burn was undertaken by the BLM in the rugged and heavily vegetated center of the draw leading to the river. This allowed for the removal of the oil-impacted grasses and provided access to the flow paths which were subsequently excavated by Talon personnel under the direction of the BLM.

### Remedial Activities (Surface)

- The lower portion of the draw was excavated to a depth of 2 to 3-feet deep within the impacted flow paths. Grab soil samples were taken at sample locations S-1 (2'), S-1 (3'), S-2 (2'), S-3 (2'), S-4 (2'), S-5 (2'), and S-5 (3').
- Fluid catchment areas (lined sumps) were constructed at the upper and lower portions of the draw. The rocks and soil in this area were washed and the fluid was recovered from the catchment area with vac trucks.
- The impacted soil area at the river entry point was excavated to a depth of 3-feet deep. Grab soil samples were taken at sample locations S-1 (3') and S-2 (3').
- The impacted soil in the vicinity of the tank battery (source) was initially excavated to a depth of 0.5-feet below ground surface (bgs). Grab soil samples were collected at sample locations S-3, S-4, and S-5. The lab data reported for sample location S-5 was above NMOCD Recommended Remedial Action Levels (RRAL). The impacted area was then excavated further to a depth of 1.5-feet bgs. Additional grab soil samples were taken at sample locations S-5 (1.5'), S-6 (1.5'), and S-7 (1.5') (See site maps of sample locations).

#### Remedial Activities (River)

- Oil sorbent booms were placed in the river to retard the flow of the free product so that the lost fluids could be recovered using oil skimmers and vacuum trucks. The booms were placed in a total of (5) locations. (See site map of boom locations).
- At the river entry point of the release, water samples were collected at W-1 and BG-1 (background, upgradient water sample). A sample of the iron sulfide material collecting in the slow-water eddys along the bottom of the river was obtained at RS-1 (river sediment samples) (See site map of sample locations).
- Additional surface water samples were taken approximately 20-feet upstream and downstream of the 4<sup>th</sup> boom location at sample locations W-2 and W-3. A water sample was also obtained approximately 1/2 mile downstream of the 4<sup>th</sup> boom location at sample location W-4. (See site map of sample locations).
- Approximately 0.7 miles downstream from the entry point of the release, surface water and river sediment samples were taken in a deep area of the river. These sample points are identified as RS-2 and W-5. (See site map of sample locations).

Roustabout crews were utilized in the river to remove vegetation, soil and other debris that were saturated by or obstructing the flow of oil. The objective was to facilitate the flow of oil to our booms so that it could be removed using oil skimmers and vacuum trucks. The roustabout crews with Talon personnel made 3 "passes" through the impacted area of the Pecos River.

\*All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for a combination TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B, total Chloride concentration using Method SM4500CL-B, and Metals using Method 8 RCRA The complete laboratory reports are attached.

### Laboratory Results (Tank Battery Location)

Laboratory results detailed on the attached laboratory report are summarized below:

(MD) Analyta Not D

| (ND) | Analyte Not Detected |
|------|----------------------|
| ()   | Analyte Not Tested   |

| Sample ID | Depth<br>(feet) | BTEX<br>(mg/kg) | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH (mg/kg)<br>DRO |
|-----------|-----------------|-----------------|----------------------|--------------------|--------------------|
| S-3       | 0.5             | ND              | 160                  | ND                 | ND                 |
| S-4       | 0.5             | ND              | 448                  | ND                 | ND                 |
| S-5       | 0.5             | ND              | 1200                 | ND                 | 336                |
| S-5       | 1.5             | 2.74            | 64                   | ND                 | ND                 |
| S-6       | 1.5             | 0.364           | 160                  | 14.1               | ND                 |
| S-7       | 1.5             | 0.160           | 112                  | ND                 | ND                 |

### **Laboratory Results (Draw)**

| Sample ID        | Depth<br>(feet) | BTEX<br>(mg/kg) | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH (mg/kg)<br>DRO |
|------------------|-----------------|-----------------|----------------------|--------------------|--------------------|
| S-1              | 2               | ND              | 80                   | ND                 | ND                 |
| S-1              | 3               | ND              | 112                  | ND                 | ND                 |
| S-2              | 2               | ND              | 848                  | ND                 | ND                 |
| S-3              | 2               | ND              | 112                  | ND                 | ND                 |
| S-4              | 2               | ND              | 544                  | ND                 | ND                 |
| S-5              | 2               | ND              | 1840                 | ND                 | 683                |
| S-5              | 3               | ND              | 432                  | ND                 | ND                 |
| S-5 Confirmation | 3               | ND              | 112                  | ND                 | ND                 |

# Laboratory Results (Excavation at River Entry)

| Sample ID | Depth<br>(feet) | BTEX<br>(mg/kg) | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH (mg/kg)<br>DRO |
|-----------|-----------------|-----------------|----------------------|--------------------|--------------------|
| S-1       | 3               |                 | 384                  | ND                 | ND                 |
| S-2       | 3               |                 | 416                  | ND                 | ND                 |

# **Laboratory Results (River Water)**

| Sample ID | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH (mg/kg)<br>DRO |
|-----------|----------------------|--------------------|--------------------|
| BG-1      | 4200                 | ND                 | ND                 |
| W-1       | 4300                 | ND                 | ND                 |
| W-2       | 4300                 | ND                 | ND                 |
| W-3       | 4300                 | ND                 | ND                 |
| W-4       | 4200                 | ND                 | 2.66               |
| W-5       | 4450                 | ND                 | 683                |

# **Laboratory Results (River Sediment)**

### RS-1

| BTEX<br>(mg/kg)    | Chlorides<br>(mg/kg) | TPH<br>(mg/kg)<br>GRO | TPH<br>(mg/kg)<br>DRO | Arse<br>(mg/ |                | Barium<br>(mg/kg) |   |
|--------------------|----------------------|-----------------------|-----------------------|--------------|----------------|-------------------|---|
| ND                 | 1300                 | 104                   | 53600                 | ND           |                | 215               |   |
| Cadmium<br>(mg/kg) | Chromiui<br>(mg/kg)  |                       |                       |              | Silve<br>(mg/k | 1                 | - |
| ND                 | 6.21                 | ND                    | ND                    |              | ND             | ND                |   |

## RS-2

| BTEX<br>(mg/kg)    | Chlorides<br>(mg/kg) | TPH<br>(mg/kg)<br>GRO | TPH<br>(mg/kg)<br>DRO | Arsenic<br>(mg/kg) |               |   | rium<br>g/kg)    |
|--------------------|----------------------|-----------------------|-----------------------|--------------------|---------------|---|------------------|
| ND 816             |                      | ND                    | 35.1                  | ND                 |               | 9 | 2.8              |
| Cadmium<br>(mg/kg) | Chromiun<br>(mg/kg)  | n Lead<br>(mg/kg      |                       |                    | Silve<br>(mg/ |   | Mecury<br>(mg/kg |
| ND                 | ND                   | ND                    | ND                    | NI                 |               | ) | ND               |

### **Summary and Conclusions**

Remedial activities for the land surface portion of this project were conducting following BLM and NMOCD direction and using laboratory data as a guide for completion of activities. All impacted soil from this incident that was feasible to excavate has been removed. Upon permission to backfill from the BLM, the excavated areas were backfilled using clean fill materials that matched the specific terrain.

Remedial activities for the river aspect of this project was also conducted following BLM supervision. Contaminated vegetation, soil, debris and free-phase floating oil product were removed from the river. There is currently no visible signs of product remaining in the river relating to this release. All oil sorbent booms have been removed from the river.

A total of 3,787 yards of contaminated soil were disposed of at Lea Land, LLC. Sixteen (16) truckloads of debris from the Pecos River and 4,100 barrels of impacted surface water were land filled at CRI, Inc. Two thousand one hundred sixty-five (2,165) yards of top soil were utilized to back fill the excavated areas within the draw and river entry point. The remediated area at the tank battery was restored (excavated areas and berm constructions) using 1,061 yards of caliche.

### **Closure Request**

On behalf of Lime Rock Resources, we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

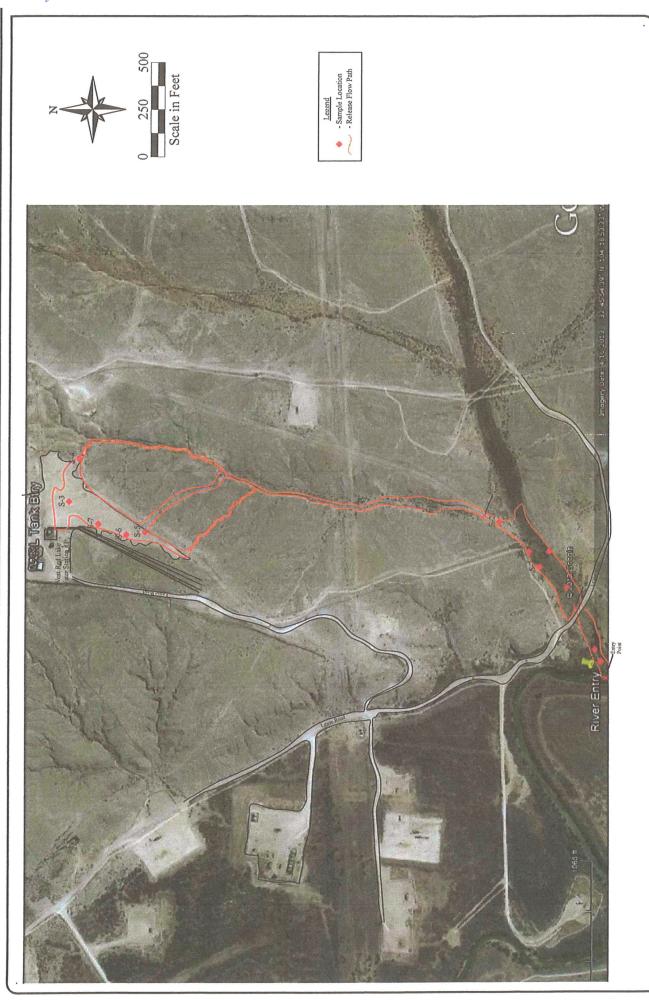
TALON/LPE

Sheldon Hitchcock

**Environmental Scientist** 

Strolder Hitcherche

David J. Adkins District Manager

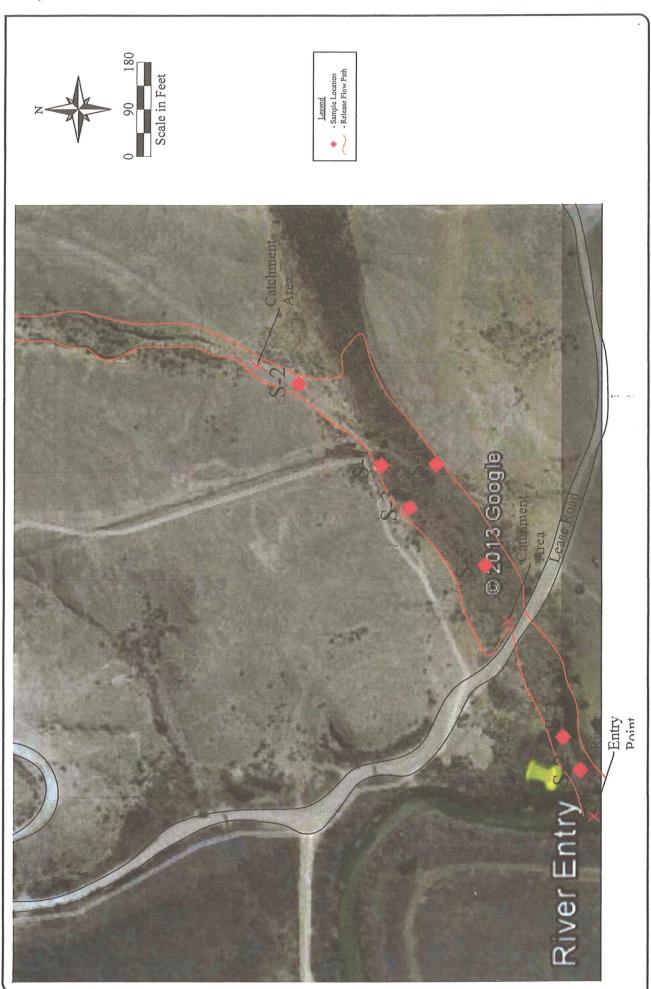


West Red Lake Water Station #1 Lime Rock Resources Eddy County, New Mexico Figure 1 - Site Plan

Date: 06/10/2013 Scale: 1" = 500'

Drawn By: TJS



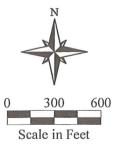


West Red Lake Water Station #1 Lime Rock Resources Eddy County, New Mexico Figure 1 - Site Plan

Date: 07/01/2013

Scale: 1" = 180'Drawn By: TJS





### Legend



- Sample Location
- Release Flow Path

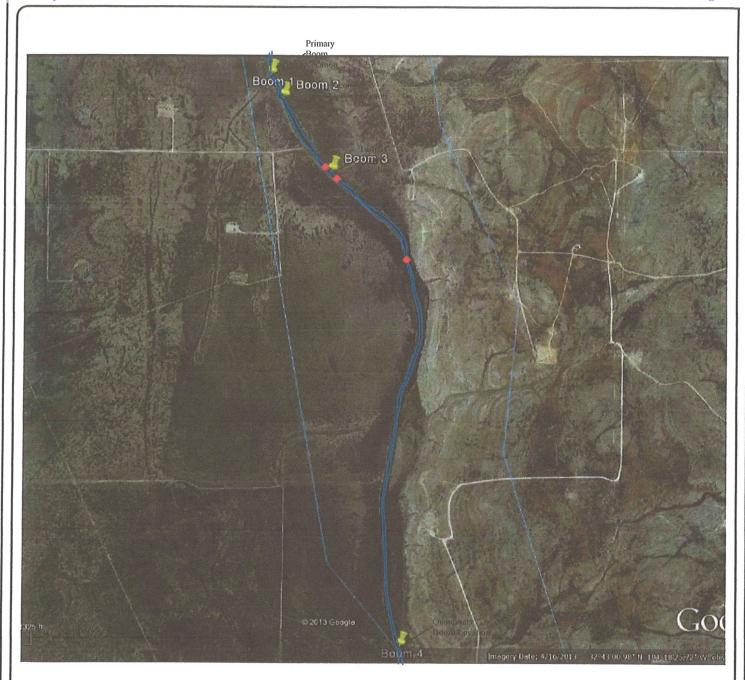


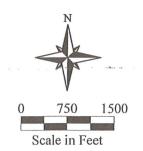
Date: 06/11/2013

Scale: 1" = 600'

Drawn By: TJS

West Red Lake Water Station #1
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan





### Legend



- Sample Location



- Release Flow Path



Date: 06/11/2013

Scale: 1" = 1500'

Drawn By: TJS

West Red Lake Water Station #1
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

### **NM OIL CONSERVATION**

ARTESIA DISTRICT

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

State of New Mexico
Bnergy Minerals and Natural Resources JUN 0 3 2014

Form C-141 Revised October 10, 2003

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

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

| NAME OF THE PARTY | Fe, NM 87505   |  |  |  |  |  |
|---|--|--|--|--|--|--|
|   | on 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.: 575-623-8424  |  |  |  |  |  |
| Facility Name: West Red Lake #41  | Facility Type: West Red Lake Unit Water Station #1   |  |  |  |  |  |
| Surface Owner; BLM Mineral Owner  | r; BLM Lease No.: API #30-015-28443  |  |  |  |  |  |
| LOCATIO   | ON OF RELEASE  |  |  |  |  |  |
| Unit Letter Section Township Range Feet from the Nor B 7 18S 27B 330' FNI   | th/South Line   Feet from the   East/West Line   County Eddy   FEL   |  |  |  |  |  |
| Latitude 32,76852 N   | Longitude -104,31437 W   |  |  |  |  |  |
| NATUR   | E OF RELEASE   |  |  |  |  |  |
| Type of Release; Produced Fluids (70% PW & 30% OIL)   | Volume of Release: 1685 bbls  Volume Recovered: 560 bbls recovered from containment & 1200 bbls recovered from Pecos River on 5/27/13  |  |  |  |  |  |
| Source of Release : Alarm malfunction & secondary containment failure   |  |  |  |  |  |  |
| Was Immediate Notice Given?  ☑ Yes ☐ No ☐ Not Require   | If YES, To Whom?   |  |  |  |  |  |
| By Whom? Mike Barrett w/LRR   | Date and Hour: 5/27/13 @ 7:00 am   |  |  |  |  |  |
| Was a Watercourse Reached?  | If YES, Volume Impacting the Watercourse. 563 bbls   |  |  |  |  |  |
| If a Watercourse was Impacted, Describe Fully.* Produced fluids exited miles.   | l location and flowed down the draw into the Pecos River for approximately 3   |  |  |  |  |  |
| secondary containment failed causing the release of produced fluids to favas replaced and the impacted flow path in the draw was flushed with fit to the location on 5/27/13. A berm was constructed at the bottom of the Describe Area Affected and Cleanup Action Taken.* Talon/LPE was at the river, the draw and the tank battery location. A detailed closure of I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release multiple health or the confirmant. The acceptance of a C-141 report by   | contracted for the correction of this release. Remediation activities were completed eport is attached, the best of my knowledge and understand that pursuant to NMOCD rules and enotifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability |  |  |  |  |  |
| should their operations have failed to adequately investigate and remedi-<br>or the environment. In addition, NMOCD acceptance of a C-141 report<br>federal, state, or local laws and/or regulations.   | ate contamination that pose a threat to ground water, surface water, human health<br>does not relieve the operator of responsibility for compliance with any other   |  |  |  |  |  |
| Signature: Muly &   | OIL CONSERVATION DIVISION  Signed By Mile Semules  Approved by District Supervisor:  |  |  |  |  |  |
| Printed Name: Michael Barrett   | Apparent of Marine Department  |  |  |  |  |  |
| Title: Production Supervisor  | Approval Date: 6/17/14 Expiration Date: N  |  |  |  |  |  |
| E-mail Address: mbarrett@limerockresources.com  | Conditions of Approval:  |  |  |  |  |  |
| Date: 9/27/2013 Phone: 575-623-8424 Attach Additional Sheets If Necessary   | Thy  |  |  |  |  |  |

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

|  |  |   |  |   |                                     | <b>OPERA</b>                                       | ГOR  |   | M Initi   | al Report   |  | Final Rep  |
|--|--|---|--|---|-------------------------------------|--|--|---|---|---|--|--|
|  |  | IME ROCK I  |  |   |                                     | Contact: Mike Barrett                              |  |   |   |   |  |  |
|  |  |   |  | on ,TX 77002  |                                     |  | No.: 575-623-8   |   |   |   |  |  |
| Facility Na  | me : West I  | Red Lake #41  |  |   |                                     | Facility Type: West Red Lake Unit Water Station #1 |  |   |   |   |  |  |
| Surface Ow   | mer : BLM  |   |  | Mineral (   | Owner:                              | er: BLM Lease No. : API #30-015-2844               |  |   |   |   | 5-28443                                  |  |
|  |  |   |  | LOCA  | ATIO                                | OF REI   | LEASE  |   |   |   |  |  |
| Unit Letter  | Section  | Township  | Range  | Feet from the   | -                                   | South Line   | Feet from the  | East/V  | Vest Line   | County E  | ddy                                      |  |
| В  | 7  | 18S   | 27E  | 330'  | FNL                                 |  | 1800'  | FEL   |   |   |  |  |
|  |  |   | Latitu   | de 32.76852   | N                                   | _ Longitud   | e104.31437   | W   | -   |   |  |  |
|  |  |   |  | NAT   | URE                                 | OF RELI  | EASE   |   |   |   |  |  |
| Type of Rele   | ase : Produc   | ced Fluids (70  | % PW & :   | 30% OIL)  |                                     | Volume of  | Release: 1685 b  | obls  | from cont   | Recovered: 5 ainment & 1 os River on 1                        | 200 ы                                    | ols recovered  |
| Source of Re   | lease : Aları  | n malfunction   | & second   | lary containment  | failure                             | Date and H<br>5/26/13 an                           | our of Occurrence  | e:  | CONTRACTOR OF THE PARTY OF THE | Hour of Dis   |  | Andrew Company of the |
| Was Immedia  | ate Notice C   | -   | Yes  | No Not R  | equired                             | If YES, To   |  | EPA   | 7,00 477  |   |  | ***************************************  |
| By Whom?   | Mike Barret  | t w/LRR   |  |   |                                     | Date and H   | our: 5/27/13 @ 1   | 7:00 am   | l   |   |  | ····   |
| Was a Water  | course Reac  |   | ** -   | .,  |                                     |  | lume Impacting t   | he Wate   | ercourse,   |   |  |  |
|  |  |   | Yes [  |   |                                     | 563 bbls   | owed down the di   |   |   |   |  |  |
| secondary cor<br>was replaced                                  | ntainment fa<br>and the imp  | iled causing t<br>acted flow pa   | he release<br>th in the d                          | of produced flui<br>raw was flushed                             | ds to flow<br>with fres             | w 1/2 mile dow<br>h water into l                   | nusing tanks to over the draw into the draw into the draw into the bound of the bou | he Peco   | s River. A  | ll wells wer  | e shut i                                 | in, the alann  |
|  |  |   |  | ted at the bottom   |                                     |  | oximately 3 mile   | s of the  | Pecos Rive  | er was effect   | ed V                                     | ac trucke  |
| were called to<br>and impacted                                 | the location   | n and west sid  | le of river.                                       | Sorbent boons v   | were stre                           | tched across t                                     | the river in 4 place   | es, oil s                                       | kimmers w   | ere used to   | ecover                                   | free produc  |
| I hereby certifications all<br>public health<br>should their o | fy that the in<br>l operators a<br>or the environ<br>perations ha<br>ment. In ac | onment. The average failed to a dition, NMO   | report and<br>acceptance<br>dequately<br>CD accept | d/or file certain re<br>e of a C-141 repo<br>investigate and re | elease no<br>ort by the<br>emediate | tifications an<br>NMOCD ma<br>contamination        | knowledge and und perform correctived as "Final Resont that pose a three the operator of r   | tive acti<br>eport" de<br>eat to gre<br>esponsi | ons for rele<br>oes not reli<br>ound water<br>bility for co   | eases which eve the oper surface was surface was simpliance w | may en<br>ator of<br>ter, hui<br>ith any | danger<br>liability<br>nan health  |
| Signature: MM B  |  |   |  |   |                                     | OIL CONSERVATION DIVISION                          |  |   |   |   |  |  |
| Printed Name   | Michael E  | Barrett   |  |   | A                                   | approved by I                                      | District Superviso   | or:   | 0   |   |  | ***************************************  |
| Title: Produc  | tion Superv  | isor  |  |   | A                                   | pproval Date                                       | 2  | E   | Expiration I  | Date:   |  |  |
| E-mail Addres  | ss: mbarrett   | @limerockre   | sources.co   | m   |                                     | Conditions of Approval:  Attached                  |  |   |   |   |  |  |
| Date: 5/29/2<br>Attach Additi                                  | Property and the second second second second                                     | THE RESERVE AND ADDRESS OF THE PARTY OF THE | e: 575-623<br>ry                                   | 3-8424  |                                     |  |  |   |   |   |  |  |