



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Approved  
Date: 01/14/2021  
Tracking No.: 244695

**OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,**

**OPERATOR INFORMATION**

**Operator** LIME ROCK RESOURCES IV-A, L.P. **Operator** 500794  
**Operator** 1111 BAGBY STREET SUITE 4600 HOUSTON, TX 77002-0000

**WELL INFORMATION**

**API** 42-003-46897 **County:** ANDREWS  
**Well No.:** 3421H **RRC District** 08  
**Lease** UL 14 CONWAY **Field** SHAFTER LAKE, N. (SAN ANDRES)  
**RRC Lease** 45866 **Field No.:** 82572666  
**Location** Section: 21, Block: 14, Survey: UL, Abstract: U461  
  
**Latitude** 32.414119 **Longitud** -102.708815  
**This well is** 11.6 **miles in a** NW  
**direction from** ANDREWS,  
**which is the nearest town in the**

**FILING INFORMATION**

**Purpose of** Well Record Only  
**Type of** Other/Recompletion  
**Well Type:** Shut-In Producer **Completion or Recompletion** 12/07/2020  
  
Type of Permit Date Permit No.  
**Permit to Drill, Plug Back, or** 10/24/2014 798775  
**Rule 37 Exception**  
**Fluid Injection**  
**O&G Waste Disposal**  
**Other:**

**COMPLETION INFORMATION**

**Spud** 11/15/2014 **Date of first production after rig** 12/07/2020  
**Date plug back, deepening, drilling operation** 12/03/2020 **Date plug back, deepening, recompletion, drilling operation** 12/07/2020  
**Number of producing wells on this lease this field (reservoir) including this** 4 **Distance to nearest well in lease & reservoir** 762.0  
**Total number of acres in** 642.30 **Elevation** 3251 GR  
**Total depth TVD** 4735 **Total depth MD** 9380  
**Plug back depth TVD** **Plug back depth MD**  
**Was directional survey made other inclination (Form W-** Yes **Rotation time within surface casing Is Cementing Affidavit (Form W-15)** 264.0 Yes  
**Recompletion or** Yes **Multiple** No  
**Type(s) of electric or other log(s)** None  
**Electric Log Other Description:**  
**Location of well, relative to nearest lease of lease on which this well is** 205.0 **Feet from the** South **Off Lease :** No  
2090.0 **Feet from the** East **Line and**  
UL 14 CONWAY **Lease.** **Line of the**

**FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.**

| <u>Field &amp; Reservoir</u> | <u>Gas ID or Oil Lease</u> | <u>Well No.</u> | <u>Prior Service Type</u> |
|------------------------------|----------------------------|-----------------|---------------------------|
| W2:                          | N/A                        |                 |                           |

PACKET: N/A

**FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:**

|   |              |        |             |            |
|---|--------------|--------|-------------|------------|
| <b>GAU Groundwater Protection Determination</b> | <b>Depth</b> | 1700.0 | <b>Date</b> | 10/22/2014 |
| <b>SWR 13 Exception</b>                         | <b>Depth</b> |        |             |            |

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

|                                  |    |                              |
|----------------------------------|----|------------------------------|
| <b>Date of</b>                   |    | <b>Production</b>            |
| <b>Number of hours</b>           | 24 | <b>Choke</b>                 |
| <b>Was swab used during this</b> | No | <b>Oil produced prior to</b> |

**PRODUCTION DURING TEST PERIOD:**

|                  |   |                       |
|------------------|---|-----------------------|
| <b>Oil</b>       |   | <b>Gas</b>            |
| <b>Gas - Oil</b> | 0 | <b>Flowing Tubing</b> |
| <b>Water</b>     |   |                       |

**CALCULATED 24-HOUR RATE**

|                                 |  |               |
|---------------------------------|--|---------------|
| <b>Oil</b>                      |  | <b>Gas</b>    |
| <b>Oil Gravity - API - 60.:</b> |  | <b>Casing</b> |
| <b>Water</b>                    |  |               |

**CASING RECORD**

| <u>Ro</u> | <u>Type of Casing</u>   | <u>Casing Size (in.)</u> | <u>Hole Size</u> | <u>Setting Depth</u> | <u>Multi - Stage Tool</u> | <u>Multi - Stage Shoe</u> | <u>Cement Class</u> | <u>Cement Amoun</u> | <u>Slurry Volume (cu.)</u> | <u>Top of Cement (ft.)</u> | <u>TOC Determined By</u> |
|-----------|-------------------------|--------------------------|------------------|----------------------|---------------------------|---------------------------|---------------------|---------------------|----------------------------|----------------------------|--------------------------|
| 1         | Surface                 | 9 6/10                   | 12 1/4           | 1843                 |                           |                           | ECONOCE M           | 880                 | 1529.4                     | 0                          | Circulated to Surface    |
| 2         | Conventional Production | 5 1/2                    | 7 3/4            | 9226                 |                           |                           | C                   | 2075                | 3644.9                     | 0                          | Circulated to Surface    |

**LINER RECORD**

| <u>Ro</u> | <u>Liner Size</u> | <u>Hole Size</u> | <u>Liner Top</u> | <u>Liner Bottom</u> | <u>Cement Class</u> | <u>Cement Amoun</u> | <u>Slurry Volume (cu.)</u> | <u>Top of Cement (ft.)</u> | <u>TOC Determined</u> |
|-----------|-------------------|------------------|------------------|---------------------|---------------------|---------------------|----------------------------|----------------------------|-----------------------|
| N/A       |                   |                  |                  |                     |                     |                     |                            |                            |                       |

**TUBING RECORD**

| <u>Ro</u> | <u>Size (in.)</u> | <u>Depth</u> | <u>Size (ft.)</u> | <u>Packer Depth (ft.)/Type</u> |
|-----------|-------------------|--------------|-------------------|--------------------------------|
| N/A       |                   |              |                   |                                |

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

| <u>Ro</u> | <u>Open hole?</u> | <u>From (ft.)</u> | <u>To (ft.)</u> |
|-----------|-------------------|-------------------|-----------------|
| 1         | Yes               | L1 8638           | 9227.0          |
| 2         | Yes               | L1 7903           | 8492.0          |
| 3         | Yes               | L1 7168           | 7757.0          |
| 4         | Yes               | L1 6433           | 7022.0          |
| 5         | Yes               | L1 5698           | 6287.0          |
| 6         | Yes               | L1 4963           | 5552.0          |

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.**

Was hydraulic fracturing treatment No

Is well equipped with a downhole sleeve? No If yes, actuation pressure

Production casing test pressure (PSIG) during hydraulic fracturing Actual maximum pressure (PSIG) during fracturin

Has the hydraulic fracturing fluid disclosure been No

|           |                          |   |                             |
|-----------|--------------------------|---|-----------------------------|
| <u>Ro</u> | <u>Type of Operation</u> | <u>Amount and Kind of Material Used</u> | <u>Depth Interval (ft.)</u> |
|-----------|--------------------------|---|-----------------------------|

N/A

**FORMATION RECORD**

| <u>Formations</u> | <u>Encountere</u> | <u>Depth TVD</u> | <u>Depth MD</u> | <u>Is formation</u> | <u>Remarks</u> |
|-------------------|-------------------|------------------|-----------------|---------------------|----------------|
| YATES             | Yes               | 3025.0           | 3025.0          | Yes                 |                |
| SEVEN RIVERS      | Yes               | 3210.0           | 3210.0          | Yes                 |                |
| QUEEN             | Yes               | 3548.0           | 3548.0          | Yes                 |                |
| GRAYBURG          | Yes               | 4320.0           | 4330.0          | Yes                 |                |
| SAN ANDRES        | Yes               | 4602.0           | 4742.0          | No                  |                |

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm No

Is the completion being downhole commingled No

**REMARKS**

FILING WRO COMPLETION PKG TO CHANGE THE WELL STATUS TO TA. ALL DOWN HOLE EQUIPMENT HAS BEEN REMOVED & WELLHEAD VLV CLOSED IN ANTICIPATION OF P&A'ING (DID NOT SET CIBP OR CMT). OA PERFS 4963'-9227'. KOP=4024'

**RRC REMARKS**

**PUBLIC COMMENTS:**

[RRC Staff 2021-01-08 14:41:51.138] EDL=4250 feet, max acres=200, SHAFTER LAKE, N. (SAN ANDRES) oil well;

take points: 8638-9227; 7903-8492; 7168-7757; 6433-7022; 5698-6287; 4963-5552 feet

**CASING RECORD :**

**TUBING RECORD:**

ALL DOWNHOLE EQUIPMENT HAS BEEN REMOVED & THE WELL IS CURRENTLY TA.

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :**

**POTENTIAL TEST DATA:**

**OPERATOR'S CERTIFICATION**

|                  |                |               |            |
|------------------|----------------|---------------|------------|
| <b>Printed</b>   | Carla Martin   | <b>Title:</b> |            |
| <b>Telephone</b> | (713) 292-9510 | <b>Date</b>   | 01/13/2021 |



# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

## Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

### CEMENTING REPORT

#### OPERATOR INFORMATION

|   |                          |
|---|--------------------------|
| Operator Name: Forge Energy, LLC          | Operator P-5 No.: 276868 |
| Cementer Name: HALLBURTON ENERGY SERVICES | Cementer P-5 No.: 347151 |

#### WELL INFORMATION

|   |                       |                             |
|---|-----------------------|-----------------------------|
| District No.: 08                          | County: Andrews       | Drilling Permit No.: 198975 |
| Well No.: 3421H                           | API No.: 42-003-46897 |                             |
| Lease Name: UL 14 Conway                  | Lease No.:            |                             |
| Field Name: Shafter Lake, N. (San Andres) | Field No.:            |                             |

#### I. CASING CEMENTING DATA

|   |                                   |                                   |  |
|---|-----------------------------------|-----------------------------------|--|
| Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production | Drilled hole size (in.): 12 1/4   | Depth of drilled hole (ft.): 1843 | Est. % wash-out or hole enlargement: 20% |
| Size of casing in O.D. (in.): 9 6/10  | Casing weight (lbs/ft) and grade: | No. of centralizers used: 22      |  |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.         | Setting depth shoe (ft.):         | Top of liner (ft.): N/A           | Setting depth liner (ft.): N/A           |
| Hrs. waiting on cement before drill-out: 21   | Calculated top of cement (ft.): 0 | Cementing date: 11/17/2014        |  |

#### SLURRY

| Slurry No.   | No. of Sacks | Class        | Additives | Volume (cu. ft.) | Height (ft.)   |
|--------------|--------------|--------------|-----------|------------------|----------------|
| 1            | 750          | ECONOCEM     | REMARKS   | 353.75           | 4319           |
| 2            | 130          | PREMIUM PLUS | REMARKS   | 175.63           | 555.56         |
| 3            |              |              |           |                  |                |
| <b>Total</b> | <b>880</b>   |              |           | <b>529.38</b>    | <b>4874.56</b> |

#### II. CASING CEMENTING DATA

|  |  |  |                                      |
|--|--|--|--------------------------------------|
| Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings | Drilled hole size (in.):   | Depth of drilled hole (ft.):                             | Est. % wash-out or hole enlargement: |
| Size of casing in O.D. (in.):  | Casing weight (lbs/ft) and grade:                                | No. of centralizers used:                                |                                      |
| Tapered string drilled hole size (in.)<br>Upper: Lower:  | Tapered string depth of drilled hole (ft.)<br>Upper: Lower:      |  |                                      |
| Tapered string size of casing in O.D. (in.)<br>Upper: Lower:   | Tapered string casing weight (lbs/ft) and grade<br>Upper: Lower: | Tapered string no. of centralizers used<br>Upper: Lower: |                                      |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO   | Setting depth shoe (ft.):  |  |                                      |
| Hrs. waiting on cement before drill-out:   | Calculated top of cement (ft.):                                  | Cementing date:  |                                      |

#### SLURRY

| Slurry No.   | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
|--------------|--------------|-------|-----------|------------------|--------------|
| 1            |              |       |           |                  |              |
| 2            |              |       |           |                  |              |
| 3            |              |       |           |                  |              |
| <b>Total</b> | <b>0</b>     |       |           | <b>0</b>         | <b>0</b>     |

#### III. CASING CEMENTING DATA

|   |  |  |                                      |
|---|--|--|--------------------------------------|
| Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings | Drilled hole size (in.):   | Depth of drilled hole (ft.):                             | Est. % wash-out or hole enlargement: |
| Size of casing in O.D. (in.):   | Casing weight (lbs/ft) and grade:                                | No. of centralizers used:                                |                                      |
| Tapered string drilled hole size (in.)<br>Upper: Lower:   | Tapered string depth of drilled hole (ft.)<br>Upper: Lower:      |  |                                      |
| Tapered string size of casing in O.D. (in.)<br>Upper: Lower:  | Tapered string casing weight (lbs/ft) and grade<br>Upper: Lower: | Tapered string no. of centralizers used<br>Upper: Lower: |                                      |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO  | Setting depth tool (ft.):  |  |                                      |
| Hrs. waiting on cement before drill-out:  | Calculated top of cement (ft.):                                  | Cementing date:  |                                      |

#### SLURRY

| Slurry No.   | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
|--------------|--------------|-------|-----------|------------------|--------------|
| 1            |              |       |           |                  |              |
| 2            |              |       |           |                  |              |
| 3            |              |       |           |                  |              |
| <b>Total</b> | <b>0</b>     |       |           | <b>0</b>         | <b>0</b>     |

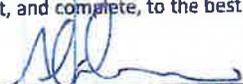
W15-Surface (backside)

| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON  |         |         |         |         |         |         |         |
|--|---------|---------|---------|---------|---------|---------|---------|
|  | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date   |         |         |         |         |         |         |         |
| Size of hole or pipe (in.)   |         |         |         |         |         |         |         |
| Depth to bottom of tubing or drill pipe (ft.)  |         |         |         |         |         |         |         |
| Cement retainer setting depth (ft.)  |         |         |         |         |         |         |         |
| CIBP setting depth (ft.)   |         |         |         |         |         |         |         |
| Amount of cement on top of CIBP (ft.)  |         |         |         |         |         |         |         |
| Sacks of cement used   |         |         |         |         |         |         |         |
| Slurry volume pumped (cu. ft.)   |         |         |         |         |         |         |         |
| Calculated top of plug (ft.)   |         |         |         |         |         |         |         |
| Measured top of plug, if tagged (ft.)  |         |         |         |         |         |         |         |
| Slurry weight (lbs/gal)  |         |         |         |         |         |         |         |
| Class/type of cement   |         |         |         |         |         |         |         |
| Perforate and squeeze (YES/NO)   |         |         |         |         |         |         |         |
| <b>REMARKS</b>   |         |         |         |         |         |         |         |
| <small>1ST SLURRY: ECONOCEDA WITH 3 LBM KOL-SEAL<br/>                 2ND SLURRY: PREMIUM PLUS WITH 3 LBM KOL-SEAL, 1% CALCIUM CHLORIDE<br/>                 ORIGINATED 230 SACKS TO SURFACE</small> |         |         |         |         |         |         |         |

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**ALEXANDER RAMOS SS I**

Halliburton

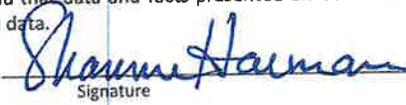


|   |                       |                       |                   |
|---|-----------------------|-----------------------|-------------------|
| Name and title of cementer's representative | Cementing Company     | Signature             |                   |
| 1301 Webb St.                               | Brownfield, TX, 79316 | 806-637-4126          | 11/17/2014        |
| Address                                     | City, State, Zip Code | Tel: Area Code Number | Date: mo. day yr. |

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Shannon Harman

Regulatory Specialist



|  |                       |                       |                   |
|--|-----------------------|-----------------------|-------------------|
| Typed or printed name of operator's representative | Title                 | Signature             |                   |
| 10999 IH-10 West, Ste. 900, San Antonio, TX 78230  |                       | (210) 478-5981        | 02/09/2015        |
| Address  | City, State, Zip Code | Tel: Area Code Number | Date: mo. day yr. |

**Instructions for Form W-15, Cementing Report**

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

CEMENTING REPORT

OPERATOR INFORMATION

Operator Name: Forge Energy, LLC
Operator P-5 No.: 276868
Cementer Name: William Rogers
Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08
County: Andrews
Well No.: 3421H
API No.: 42-003-46897
Drilling Permit No.: 798775
Lease Name: UJ. 14 Conway
Lease No.:
Field Name: Shafter Lake, N. (San Andres)
Field No.:

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner Production
Drilled hole size (in.): 7 3/4
Depth of drilled hole (ft.): 9226
Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 5 1/2
Casing weight (lbs/ft) and grade: 17
No. of centralizers used: 22
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES NO
Setting depth shoe (ft.): 9408
Top of liner (ft.): N/A
Setting depth liner (ft.): N/A
Hrs. waiting on cement before drill-out: N/A
Calculated top of cement (ft.): 0
Cementing date: 11/27/2014

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

II. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement shoe Multiple parallel strings
Drilled hole size (in.):
Depth of drilled hole (ft.):
Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):
Casing weight (lbs/ft) and grade:
No. of centralizers used:
Tapered string drilled hole size (in.):
Tapered string depth of drilled hole (ft.):
Upper: Lower:
Upper: Lower:
Tapered string size of casing in O.D. (in.):
Tapered string casing weight(lbs/ft) and grade:
Tapered string no. of centralizers used:
Upper: Lower:
Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES NO
Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date:

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

III. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement/DV tool Multiple parallel strings
Drilled hole size (in.):
Depth of drilled hole (ft.):
Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):
Casing weight (lbs/ft) and grade:
No. of centralizers used:
Tapered string drilled hole size (in.):
Tapered string depth of drilled hole (ft.):
Upper: Lower:
Upper: Lower:
Tapered string size of casing in O.D. (in.):
Tapered string casing weight(lbs/ft) and grade:
Tapered string no. of centralizers used:
Upper: Lower:
Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES NO
Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date:

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

W15-Production (backside)

| CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON |         |         |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|---------|---------|
|   | PLUG #1 | PLUG #2 | PLUG #3 | PLUG #4 | PLUG #5 | PLUG #6 | PLUG #7 |
| Cementing Date                                      |         |         |         |         |         |         |         |
| Size of hole or pipe (in.)                          |         |         |         |         |         |         |         |
| Depth to bottom of tubing or drill pipe (ft.)       |         |         |         |         |         |         |         |
| Cement retainer setting depth (ft.)                 |         |         |         |         |         |         |         |
| CIBP setting depth (ft.)                            |         |         |         |         |         |         |         |
| Amount of cement on top of CIBP (ft.)               |         |         |         |         |         |         |         |
| Sacks of cement used                                |         |         |         |         |         |         |         |
| Slurry volume pumped (cu. ft.)                      |         |         |         |         |         |         |         |
| Calculated top of plug (ft.)                        |         |         |         |         |         |         |         |
| Measured top of plug, if tagged (ft.)               |         |         |         |         |         |         |         |
| Slurry weight (lbs/gal)                             |         |         |         |         |         |         |         |
| Class/type of cement                                |         |         |         |         |         |         |         |
| Perforate and squeeze (YES/NO)                      |         |         |         |         |         |         |         |

**REMARKS**  
 Slurry#1 additives 3 lbm Kalseal, 0.25 lbm D-Air 500, 0.50% HR-808  
 Slurry#2 additives 0.40% CPR-3, 5 lbm Kalseal, 3 lbm salt, 0.10% HR-601, 0.50% Kalad (R)-344  
 Slurry#3 additives 0.10% SA-1015, 5% Potassium chloride, 0.20% Euxonite, 0.50% Kalad(R)-9

**CEMENTER'S CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

William Rodgers supervisor Halliburton Cementing Company  Signature  
5801 N. Louington Hwy Address Hobbs City, NM State, 88240 Zip Code 807 416 6081 Tel: Area Code Number 11/26/14 Date: mo. day yr.

**OPERATOR'S CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Shannon Harman Regulatory Specialist  Signature  
10999 IH-10 West, Ste. 900 Address San Antonio, TX 78230 City, State, Zip Code (210) 478-5981 Tel: Area Code Number 02/09/2015 Date: mo. day yr.

**Instructions for Form W-15, Cementing Report**

**NOTICE:** The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form  
 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
 To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=RR&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=RR&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash out was obtained
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4 Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box

Tracking No.: 244695

**Instructions**

**When to File Form L-1:**

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

**When is Form L-1 NOT required:**

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

**Where to File Form L-1:**

- with the appropriate Commission district office

**Filling out Form L-1:**

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

**Type of log required:**

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

**SECTION I. IDENTIFICATION**

|   |                            |                             |
|---|----------------------------|-----------------------------|
| Operator Name: LIME ROCK RESOURCES IV-A, L.P. | District No. 08            | Completion Date: 12/07/2020 |
| Field Name SHAFTER LAKE, N. (SAN ANDRES)      | Drilling Permit No. 798775 |                             |
| Lease Name UL 14 CONWAY                       | Lease/ID No. 45866         | Well No. 3421H              |
| County ANDREWS                                | API No. 42- 003-46897      |                             |

**SECTION II. LOG STATUS (Complete either A or B)**

A. BASIC ELECTRIC LOG NOT RUN

B. BASIC ELECTRIC LOG RUN. (Select one)

- 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- 4. Log attached to (select one):

(a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: \_\_\_\_\_

Check here if attached log is being submitted after being held confidential.

(b) Form P-7, Application for Discovery Allowable and New Field Designation.

(c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). \_\_\_\_\_

Well No(s). \_\_\_\_\_

Carla Martin

Signature

LIME ROCK RESOURCES IV-A, L.P.

Name (print)

Title

(713) 292-9510 EXT 5720

Phone

12/30/2020

Date

-FOR RAILROAD COMMISSION USE ONLY-

CERTIFICATE OF COMPLIANCE  
 AND TRANSPORTATION AUTHORITY

This facsimile P-4 was generated electronically from data submitted to the RRC.  
 A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 244695

|   |           |   |                                       |  |   |   |                  |
|---|-----------|---|---------------------------------------|--|---|---|------------------|
| 1. Field name exactly as shown on proration schedule<br><b>SHAFTER LAKE, N. (SAN ANDRES)</b>  |           | 2. Lease name as shown on proration schedule<br><b>UL 14 CONWAY</b>   |                                       |  |   |   |                  |
| 3. Current operator name exactly as shown on P-5 Organization Report<br><b>LIME ROCK RESOURCES IV-A, L.P.</b>   |           | 4. Operator P-5 no.<br><b>500794</b>  | 5. Oil Lse/Gas ID no.<br><b>45866</b> | 6. County<br><b>ANDREWS</b>  | 7. RRC district<br><b>08</b>            |   |                  |
| 8. Operator address including city, state, and zip code<br><b>1111 BAGBY STREET SUITE 4600<br/>HOUSTON, TX 77002</b>  |           | 9. Well no(s) (see instruction E)<br><b>3421H</b>   |                                       |  | 11. Effective Date<br><b>12/07/2020</b> |   |                  |
|   |           | 10. Classification<br><input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)                                 |                                       |  |   |   |                  |
| 12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)  |           |   |                                       |  |   |   |                  |
| <b>a. Change of:</b> <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code<br><input type="checkbox"/> field name from _____<br><input type="checkbox"/> lease name from _____  |           |   |                                       |  |   |   |                  |
| - - - OR - - -  |           |   |                                       |  |   |   |                  |
| <b>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____ <b>Due to:</b> <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil<br><input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)  |           |   |                                       |  |   |   |                  |
| 13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).   |           |   |                                       |  |   |   |                  |
| Gatherer  | Purchaser | Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left<br>(Attach an additional sheet in same format if more space is needed) |                                       |  | Purchaser's RRC Assigned System Code    | Percent of Take   | Full-well stream |
| X   | X         | DCP OPERATING COMPANY, LP(195959)   |                                       |  | 0001                                    | 100.0   |                  |
|   |           |   |                                       |  |   |   |                  |
|   |           |   |                                       |  |   |   |                  |
|   |           |   |                                       |  |   |   |                  |
|   |           |   |                                       |  |   |   |                  |
| 14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).  |           |   |                                       |  |   |   |                  |
| Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First<br>(Attach an additional sheet in same format if more space is needed)   |           |   |                                       |  |   | Percent of Take   |                  |
| PHILLIPS 66 PIPELINE LLC(663865)  |           |   |                                       |  |   | 50.0  |                  |
| SENTINEL TRANSPORTATION, LLC(767500)  |           |   |                                       |  |   | 50.0  |                  |
| <b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>01/14/2021</u>   |           |   |                                       |  |   |   |                  |
| <b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.  |           |   |                                       |  |   |   |                  |
| Name of Previous Operator _____   |           |   |                                       | Signature _____  |   |   |                  |
| Name (print) _____  |           |   |                                       | <input type="checkbox"/> <b>Authorized Employee of previous operator</b>           |   | <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b> |                  |
| Title _____   |           |   |                                       | Date _____   |   | Phone with area code _____  |                  |
| <b>16. CURRENT OPERATOR CERTIFICATION.</b> By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission. |           |   |                                       |  |   |   |                  |
| LIME ROCK RESOURCES IV-A, L.P.  |           |   |                                       | Carla Martin   |   |   |                  |
| Name (print) _____  |           |   |                                       | <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> |   | <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>  |                  |
| Title _____   |           |   |                                       | Date <u>12/30/2020</u>   |   | Phone with area code <u>(713) 292-9510 EXT 5720</u>                                       |                  |
| E-mail Address (optional) <u>cmartin@limerockresources.com</u>  |           |   |                                       | Date _____   |   | Phone with area code _____  |                  |



Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date **October 22, 2014**

GAU File No.: **17034**

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number **00300000**

Attention: **SHANNON HARMAN**

RRC Lease No. **000000**

**SC\_276868\_00300000\_000000\_17034.pdf**

**FORGE ENERGY LLC  
10999 IH10 W  
STE 900  
SAN ANTONIO TX 78230  
P-5# 276868**

--Measured--

**2090 ft FEL**

**205 ft FSL**

**MRL:SECTION**

Digital Map Location:

X-coord/Long **102.70882**

Y-coord/Lat **32.41412**

Datum **27** Zone

County **ANDREWS**

Lease & Well No. **UL 14 CONWAY #3421H&ALL**

Purpose **ND**

Location **SUR-UL, BLK-14, SEC-21, -- [TD=4900], [RRC 8],**

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 300 feet and the ZONE from 1175 feet to 1700 feet must be protected.

This recommendation is applicable to all wells drilled in this SESECTION 21 ON THIS LEASE.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-483-2741 [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

*George Dunfield*  
Digitally signed by George Dunfield  
DN: c=US, st=TEXAS, l=Austin, o=Railroad  
Commission of Texas, cn=George Dunfield,  
email=george.dunfield@rrc.state.tx.us  
Date: 2014.10.22 14:34:06 -05'00'

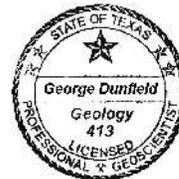
**George Dunfield, P.G.**

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

Form GW-2  
Rev. 02/2014

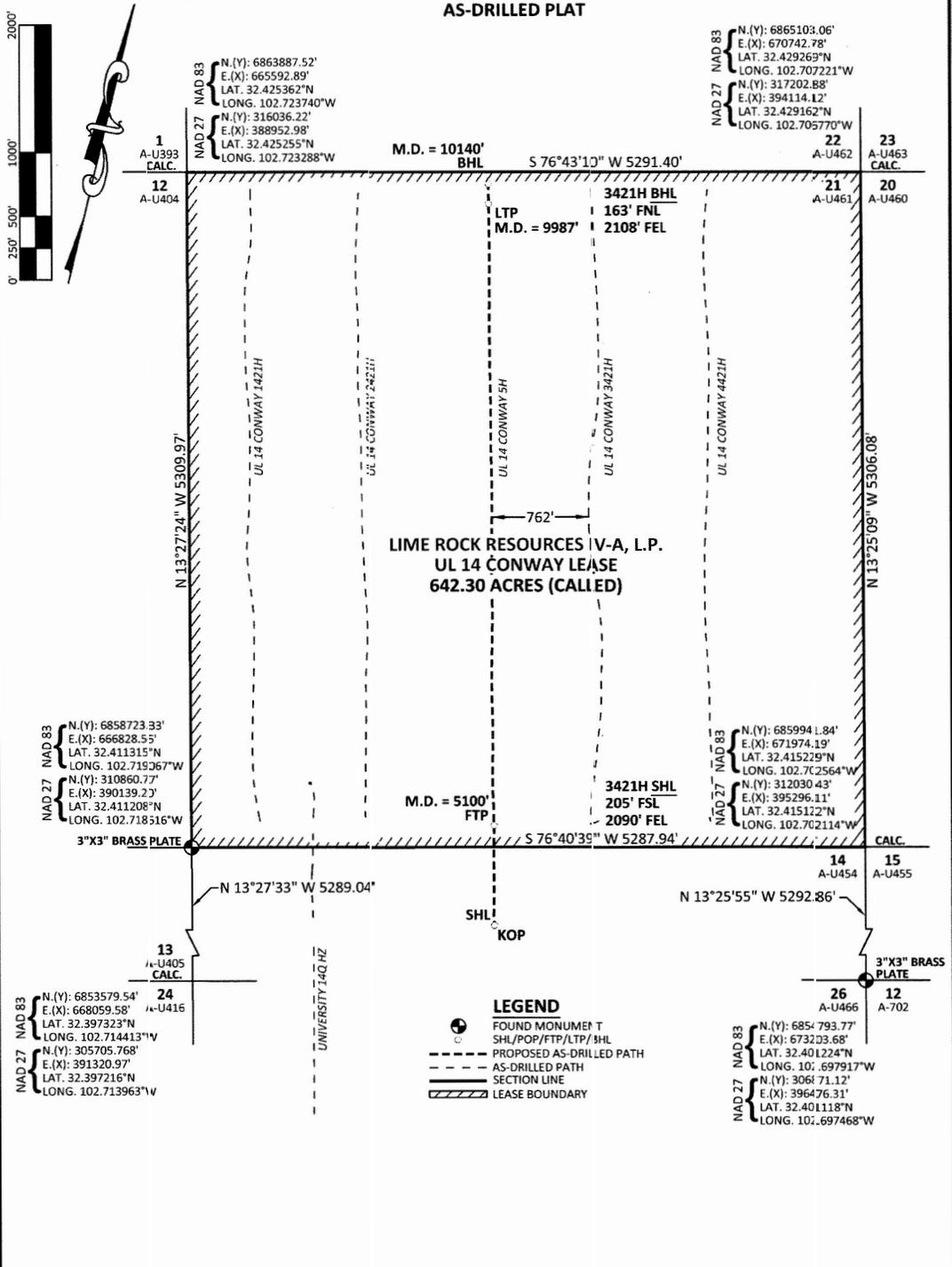
P.O. Box 12967 Austin, Texas 78711-2967 512-483-2741 Internet address: [www.rrc.state.tx.us](http://www.rrc.state.tx.us)

GEOLOGIST SEAL



The seal appearing on this document was authorized by George Dunfield on 10/22/2014  
Note: Alteration of this electronic document will invalidate the digital signature.

AS-DRILLED PLAT



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY. IF ANY ALTERATIONS ARE MADE, (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

|                   |                   |                    |            |
|-------------------|-------------------|--------------------|------------|
| ALBERT R. DEHOYOS |                   | TXAS RPLS No. 6725 | DATE       |
| DRAWN BY: CED     | CHECKED BY: ARD   | SURVEY DATE        | 07/02/2018 |
| SCALE: 1"=1000'   | JOB NUMBER: 18012 | SHEET 1 OF 1       |            |

**WHS**  
 ENGINEERING • SURVEYING • PLANNING  
 550 EAST 2ND NORTH, GREEN RIVER, WY 82935 PHONE: 307-875-3638  
 www.whsrpl.com  
 TEXAS FIRM REGISTRATION No. 10193907

**LIME ROCK RESOURCES**  
 IV-A, LP  
**UL 14 CONWAY LEASE**  
 SHL LOCATED 617' F.W.L. AND 2378' F.W.L.  
 SEC. 14, BLOCK 14, UNIVERSITY LANDS SURVEY,  
 ANDREWS COUNTY, TEXAS