



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 03/06/2018
Tracking No.: 183143

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

| OPERATOR INFORMATION | |
|---|----------------------|
| Operator Name: FELIX ENERGY HOLDINGS II, LLC | Operator No.: 265322 |
| Operator Address: FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202-0000 | |

| WELL INFORMATION | |
|--|--------------------------------|
| API No.: 42-475-37142 | County: WARD |
| Well No.: 2H | RRC District No.: 08 |
| Lease Name: UL ECHO CANYON 20-17 | Field Name: PHANTOM (WOLFCAMP) |
| RRC Lease No.: 48943 | Field No.: 71052900 |
| Location: Section: 21, Block: 17, Survey: UL, Abstract: U60 | |
| Latitude: | Longitude: |
| This well is located 2.4 miles in a W direction from PYOTE, which is the nearest town in the county. | |

| FILING INFORMATION | | |
|---------------------------------------|----------------------------------|------------|
| Purpose of filing: Initial Potential | | |
| Type of completion: New Well | | |
| Well Type: Producing | Completion or Recompletion Date: | 05/20/2017 |
| Type of Permit | Date | Permit No. |
| Permit to Drill, Plug Back, or Deepen | 10/27/2017 | 819007 |
| Rule 37 Exception | | |
| Fluid Injection Permit | | |
| O&G Waste Disposal Permit | | |
| Other: | | |

| COMPLETION INFORMATION | | | |
|--|---|------------|--------------------|
| Spud date: 03/23/2017 | Date of first production after rig released: | 05/20/2017 | |
| Date plug back, deepening, recompletion, or drilling operation commenced: 03/23/2017 | Date plug back, deepening, recompletion, or drilling operation ended: | 04/17/2017 | |
| Number of producing wells on this lease in this field (reservoir) including this well: 1 | Distance to nearest well in lease & reservoir (ft.): | 0.0 | |
| Total number of acres in lease: 326.46 | Elevation (ft.): | 2619 | GR |
| Total depth TVD (ft.): 11318 | Total depth MD (ft.): | 16544 | |
| Plug back depth TVD (ft.): | Plug back depth MD (ft.): | | |
| Was directional survey made other than inclination (Form W-12)? Yes | Rotation time within surface casing (hours): | 43.5 | |
| Recompletion or reclass? No | Is Cementing Affidavit (Form W-15) attached? | Yes | |
| Type(s) of electric or other log(s) run: Gamma Ray (MWD) | Multiple completion? | No | |
| Electric Log Other Description: | | | |
| Location of well, relative to nearest lease boundaries | Off Lease : | Yes | |
| of lease on which this well is located: | 190.0 Feet from the North Line and | | |
| | 525.0 Feet from the East Line of the | | |
| | UL ECHO CANYON 20-17 Lease. | | |
| FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO. | | | |
| Field & Reservoir | Gas ID or Oil Lease No. | Well No. | Prior Service Type |
| PACKET: | N/A | | |

| | | | | |
|--|-----|--------------|--------|------------------|
| W2: | N/A | | | |
| FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY: | | | | |
| GAU Groundwater Protection Determination | | Depth (ft.): | 1075.0 | Date: 10/04/2016 |
| SWR 13 Exception | | Depth (ft.): | | |

| INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION | | |
|--|------|-------------------------------------|
| Date of test: 06/10/2017 | | Production method: Flowing |
| Number of hours tested: 24 | | Choke size: 19 |
| Was swab used during this test? | No | Oil produced prior to test: 6332.00 |
| PRODUCTION DURING TEST PERIOD: | | |
| Oil (BBLS): 614.00 | | Gas (MCF): 730 |
| Gas - Oil Ratio: 1188 | | Flowing Tubing Pressure: 3050.00 |
| Water (BBLS): 1964 | | |
| CALCULATED 24-HOUR RATE | | |
| Oil (BBLS): 614.0 | | Gas (MCF): 730 |
| Oil Gravity - API - 60.: | 40.1 | Casing Pressure: 0.00 |
| Water (BBLS): 1964 | | |

| CASING RECORD | | | | | | | | | | | |
|---------------|-------------------------|-------------------|-----------------|---------------------|---------------------------|--------------------------------|--------------|-----------------------|-------------------------|---------------------|-----------------------|
| Row | Type of Casing | Casing Size (in.) | Hole Size (in.) | Setting Depth (ft.) | Multi - Stage Depth (ft.) | Multi - Stage Shoe Depth (ft.) | Cement Class | Cement Amount (sacks) | Slurry Volume (cu. ft.) | Top of Cement (ft.) | TOC Determined By |
| 1 | Surface | 13 3/8 | 17 1/2 | 1181 | | | C | 1415 | 2459.0 | SURF ACE | Calculation |
| 2 | Intermediate | 10 3/4 | 12 1/4 | 5045 | | | C | 850 | 2097.0 | SURF ACE | Circulated to Surface |
| 3 | Intermediate | 7 5/8 | 9 7/8 | 10443 | 4697 | | C, NEOCEM | 665 | 1592.3 | 4697 | Circulated to Surface |
| 4 | Intermediate | 7 5/8 | 9 7/8 | 10443 | | | C, NEOCEM | 460 | 1157.9 | 0 | Circulated to Surface |
| 5 | Conventional Production | 5 1/2 | 6 3/4 | 16544 | | | H | 2390 | 3783.0 | 3301 | Calculation |

| LINER RECORD | | | | | | | | | |
|--------------|------------------|-----------------|-----------------|--------------------|--------------|-----------------------|-------------------------|---------------------|-------------------|
| Row | Liner Size (in.) | Hole Size (in.) | Liner Top (ft.) | Liner Bottom (ft.) | Cement Class | Cement Amount (sacks) | Slurry Volume (cu. ft.) | Top of Cement (ft.) | TOC Determined By |
| N/A | | | | | | | | | |

| TUBING RECORD | | | | |
|---------------|------------|-------|------------|-------------------------|
| Row | Size (in.) | Depth | Size (ft.) | Packer Depth (ft.)/Type |
| 1 | 2 7/8 | 10770 | | 10755 / AS1-X |

| PRODUCING/INJECTION/DISPOSAL INTERVAL | | | |
|---------------------------------------|------------|------------|----------|
| Row | Open hole? | From (ft.) | To (ft.) |
| 1 | No | L1 11354 | 16395.0 |

| ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. | | | |
|---|-------------------|--|----------------------|
| Was hydraulic fracturing treatment performed? | | Yes | |
| Is well equipped with a downhole actuation sleeve? | | No | |
| If yes, actuation pressure (PSIG): | | | |
| Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: | | 13540 | |
| Actual maximum pressure (PSIG) during hydraulic fracturing: | | 12079 | |
| Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? | | Yes | |
| Row | Type of Operation | Amount and Kind of Material Used | Depth Interval (ft.) |
| 1 | Fracture | 403,164 BBLS SLICKWTR, 14,357,129 LBS PROPPANT | 11583 16343 |

| FORMATION RECORD | | | | | |
|--|-------------|-----------------|----------------|------------------------|----------------|
| Formations | Encountered | Depth TVD (ft.) | Depth MD (ft.) | Is formation isolated? | Remarks |
| RUSTLER | Yes | 1722.0 | 1722.0 | Yes | EST NOT LOGGED |
| YATES | No | | | No | NOT PRESENT |
| SEVEN RIVERS | No | | | No | NOT PRESENT |
| QUEEN | No | | | No | NOT PRESENT |
| GLORIETA | No | | | No | NOT PRESENT |
| SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT | No | | | No | NOT PRESENT |
| CLEARFORK | No | | | No | NOT PRESENT |
| DELAWARE | Yes | 5033.0 | 5033.0 | Yes | EST NO LOGGED |
| TUBB | No | | | No | NOT PRESENT |
| WICHITA ALBANY | No | | | No | NOT PRESENT |
| CHERRY CANYON | Yes | 5921.0 | 5954.0 | Yes | |
| WADDELL | No | | | No | NOT PRESENT |
| BONE SPRINGS | Yes | 8295.0 | 8333.0 | Yes | |
| WOLFCAMP | Yes | 11168.0 | 11257.0 | Yes | |
| MONTOYA | No | | | No | NOT PENETRATED |
| PENNSYLVANIAN | No | | | No | NOT PENETRATED |
| ATOKA | No | | | No | NOT PENETRATED |
| FUSSELMAN | No | | | No | NOT PENETRATED |
| DEVONIAN | No | | | No | NOT PENETRATED |
| ELLENBURGER | No | | | No | NOT PENETRATED |
| Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? | | | | | No |
| Is the completion being downhole commingled (SWR 10)? | | | | | No |

| REMARKS |
|---------|
| |

| RRC REMARKS | |
|--|--|
| PUBLIC COMMENTS: [RRC Staff 2017-11-21 15:03:43.669] EDL=5041 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well | |
| CASING RECORD : | |
| TUBING RECORD: | |
| PRODUCING/INJECTION/DISPOSAL INTERVAL : KOP: 10,929' PLEASE SEE TRACKING # 175794 FOR REQUIRED ATTACHMENTS THE FTP ON THE PRODUCING INTERVAL IS CORRECTED FROM 11277 ON #175794 TO 11354 BASED ON THE AD PLAT. | |
| ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. : | |
| POTENTIAL TEST DATA: | |

| OPERATOR'S CERTIFICATION | |
|---------------------------------------|------------------------------------|
| Printed Name: Heather Dahlgren | Title: Felix Admin Services |
| Telephone No.: (720) 974-2069 | Date Certified: 03/03/2018 |



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

Cementor: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

| | |
|--|--------------------------|
| Operator Name: FELIX ENERGY Holdings II, LLC | Operator P-5 No.: 265322 |
| Cementor Name: HALLIBURTON ENERGY SERVICES | Cementor P-5 No.: 347151 |

WELL INFORMATION

| | | |
|---------------------------------|-----------------------|-----------------------------|
| District No.: 08 | County: WARD | |
| Well No.: 2H | API No.: 42-475-37142 | Drilling Permit No.: 819007 |
| Lease Name: ULECHO CANYON 20-17 | Lease No.: | |
| Field Name: Phantom (Wellcamp) | Field No.: 71052900 | |

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.): 17 1/2" | Depth of drilled hole (ft.): 1200 | Est. % wash-out or hole enlargement: 20% |
| Size of casing in O.D. (in.): 13 3/8" | Casing weight (lbs/ft) and grade: 54.5 J55 | No. of centralizers used: 8 |
| 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.): 1181 | Top of liner (ft.): |
| | | Setting depth liner (ft.): |
| Hrs. waiting on cement before drill-out: 21 | Calculated top of cement (ft.): Surface | Cementing date: 3-24-17 |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
|------------|--------------|-------|-------------|------------------|--------------|
| 1 | 915 | C | SEE REMARKS | 1793 | 2582 |
| 2 | 500 | C | SEE REMARKS | 666 | 899 |
| 3 | | | | | |
| Total | 1415 | | | 2459 | 3481 |

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.) Upper: Lower: | Tapered string depth of drilled hole (ft.) Upper: Lower: | |
| Tapered string size of casing in O.D. (in.) Upper: Lower: | Tapered string casing weight (lbs/ft) and grade Upper: Lower: | Tapered string no. of centralizers used 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 | | | | | |
| Total | 0 | | | 0 | 0 |

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.) Upper: Lower: | Tapered string depth of drilled hole (ft.) Upper: Lower: | |
| Tapered string size of casing in O.D. (in.) Upper: Lower: | Tapered string casing weight (lbs/ft) and grade Upper: Lower: | Tapered string no. of centralizers used 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 | | | | | |
| Total | 0 | | | 0 | 0 |

| 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

LEAD = KOL-SEAL, POLY-E-FLAKE CEMENT TO SURFACE = 216BBLs/619SKS

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.

LOUIS GENOVESI SERVICE SUPERVISOR

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

03-24-17

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.

Typed or printed name of operator's representative

Title

Signature

1530 16th St. Ste 500 Denver CO 80202

City, State, Zip Code

Tel: Area Code

Number

6-26-17

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.

- 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.
- 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).
- 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=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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

| | |
|---|---------------------------------|
| Operator Name: FELIX <u>Energy Holdings II, LLC</u> | Operator P-5 No.: <u>265322</u> |
| Cementer Name: <u>Halliburton Energy Services</u> | Cementer P-5 No.: <u>347151</u> |

WELL INFORMATION

| | |
|---|---|
| District No.: <u>08</u> | County: <u>WARD</u> |
| Well No.: <u>2H</u> | API No.: <u>42-475-37142</u> Drilling Permit No.: <u>819007</u> |
| Lease Name: <u>UL ECHO CANYON 20-17</u> | Lease No.: |
| Field Name: <u>Phantom (Wolfcamp)</u> | Field No.: <u>71052900</u> |

I. CASING CEMENTING DATA

| | | |
|---|---|---|
| Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production | | |
| Drilled hole size (in.): <u>12 1/2</u> | Depth of drilled hole (ft.): <u>5060</u> | Est. % wash-out or hole enlargement: <u>20%</u> |
| Size of casing in O.D. (in.): <u>10 3/4</u> | Casing weight (lbs/ft) and grade: <u>45.5 J55</u> | No. of centralizers used: <u>19</u> |
| 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.): <u>5045</u> | Top of liner (ft.): |
| | Setting depth liner (ft.): | |
| Hrs. waiting on cement before drill-out: <u>13</u> | Calculated top of cement (ft.): <u>Surface</u> | Cementing date: <u>3/28/17</u> |

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
|------------|--------------|-------|------------|------------------|--------------|
| 1 | 655 | C | N/A | 1837 | 9763 |
| 2 | 195 | C | .1% HR 800 | 260 | 1382 |
| 3 | | | | | |
| Total | 850 | | | 2097 | 11145 |

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.) Upper: Lower: | Tapered string depth of drilled hole (ft.) Upper: Lower: | |
| Tapered string size of casing in O.D. (in.) Upper: Lower: | Tapered string casing weight (lbs/ft) and grade Upper: Lower: | Tapered string no. of centralizers used 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 | | | | | |
| Total | 0 | | | 0 | 0 |

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.) Upper: Lower: | Tapered string depth of drilled hole (ft.) Upper: Lower: | |
| Tapered string size of casing in O.D. (in.) Upper: Lower: | Tapered string casing weight (lbs/ft) and grade Upper: Lower: | Tapered string no. of centralizers used 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 | | | | | |
| Total | 0 | | | 0 | 0 |

| 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 |
|--|
| SO# 0903918018 CIRCULATED 71 BBL 142 SKS OF CEMENT TO SURFACE |

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.

QUINCY EDWARDS SERVICE SUPERVISOR

Halliburton

Quincy Edwards
Signature

Name and title of cementer's representative

Cementing Company

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

3/28/17

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.

Alex Edwards
Types or printed name of operator's representative

Drilling Mgr.
Title

W. C.
Signature

1530 16th St. Ste 500

Denver CO 80202

720-974-2071

6-26-17

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 well bore.

- 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.
- 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).
- 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=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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

| OPERATOR INFORMATION | | | | | |
|--|--------------|--|--|---|---------------|
| Operator Name: FELIX ENERGY <u>Holding II, LLC</u> | | | Operator P-5 No.: <u>265322</u> | | |
| Cementer Name: HALLIBURTON ENERGY SERVICES | | | Cementer P-5 No.: <u>347151</u> | | |
| WELL INFORMATION | | | | | |
| District No.: <u>08</u> | | | County: <u>WARD</u> | | |
| Well No.: <u>2H</u> | | | API No.: <u>42-475-3742</u> Drilling Permit No.: <u>819007</u> | | |
| Lease Name: <u>ULECHO CANYON 20-17</u> | | | Lease No.: <u></u> | | |
| Field Name: <u>Phantom (Wellcamp)</u> | | | Field No.: <u>71052900</u> | | |
| I. CASING CEMENTING DATA | | | | | |
| Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production | | | | | |
| Drilled hole size (in.): | | Depth of drilled hole (ft.): | | Est. % wash-out or hole enlargement: <u>20%</u> | |
| Size of casing in O.D. (in.): | | Casing weight (lbs/ft) and grade: | | No. of centralizers used: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks. | | | | Setting depth shoe (ft.): | |
| Hrs. waiting on cement before drill-out: | | | | Top of liner (ft.): | |
| Calculated top of cement (ft.): | | | | Setting depth liner (ft.): | |
| Cementing date: <u>3-21-17</u> | | | | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| Total | <u>0</u> | | | <u>0</u> | <u>0</u> |
| 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 checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings | | | | | |
| Drilled hole size (in.): <u>9 7/8</u> | | Depth of drilled hole (ft.): <u>10,456</u> | | Est. % wash-out or hole enlargement: <u>20%</u> | |
| Size of casing in O.D. (in.): <u>7 5/8</u> | | Casing weight (lbs/ft) and grade: <u>29.7 P110</u> | | No. of centralizers used: <u>81</u> | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | |
| 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: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | | Setting depth shoe (ft.): <u>10443</u> | |
| Hrs. waiting on cement before drill-out: | | | | Cementing date: <u>4-5-17</u> | |
| Calculated top of cement (ft.): <u>4697</u> | | | | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | <u>460</u> | <u>NEOCEM TM</u> | | <u>1292.14</u> | <u>5946</u> |
| 2 | <u>205</u> | <u>NEOCEM TM</u> | | <u>300.12</u> | <u>1398</u> |
| 3 | | | | | |
| Total | <u>665</u> | | | <u>1592.26</u> | <u>7344</u> |
| 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 checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings | | | | | |
| Drilled hole size (in.): <u>9 7/8</u> | | Depth of drilled hole (ft.): <u>10,456</u> | | Est. % wash-out or hole enlargement: <u>20%</u> | |
| Size of casing in O.D. (in.): <u>7 5/8</u> | | Casing weight (lbs/ft) and grade: <u>29.7 P110</u> | | No. of centralizers used: <u>81</u> | |
| Tapered string drilled hole size (in.) | | Tapered string depth of drilled hole (ft.) | | | |
| 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: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | | Setting depth tool (ft.): <u>4697</u> | |
| Hrs. waiting on cement before drill-out: <u>18</u> | | | | Cementing date: <u>4-5-17</u> | |
| Calculated top of cement (ft.): <u>Surface</u> | | | | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | <u>370</u> | <u>NEOCEM TM</u> | | <u>1038.22</u> | <u>4160.9</u> |
| 2 | <u>90</u> | <u>C</u> | <u>0.10% HR-800</u> | <u>119.7</u> | <u>536.5</u> |
| 3 | | | | | |
| Total | <u>460</u> | | | <u>1157.92</u> | <u>4697.4</u> |

| 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 |
|---|
| SALES ORDER # 0903917822 CIRCULATED 15 BBLs / 30 SKs OF LEAD CEMENT ON 2ND STAGE |

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.

BRANDON MACHADO SERVICE SUPERVISOR

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

1301 W. Webb St.

Brownfield, Tx, 79316

575-392-0700

4-5-17

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.

Alex Earhardt

Drilling Mgr.

[Signature]

Typed or printed name of operator's representative

Title

Signature

1560 16th St. Ste 400 Denver CO 80202 720-974-2071

6-26-17

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.

- 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.
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- 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=R&app=9&p_dir=&p_rloc=&poloc=&p_loc=&ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&url=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&poloc=&p_loc=&ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&url=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.
- 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.
- 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.
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- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

| OPERATOR INFORMATION | | | | | |
|---|--|--|--------------------------|--|--|
| Operator Name: FELIX ENERGY HOLDING II LLC EBUS | | | Operator P-5 No.: 265322 | | |
| Cementer Name: HALLIBURTON | | | Cementer P-5 No.: 347151 | | |

| WELL INFORMATION | | | | | |
|----------------------------------|--|--|-----------------------------|--|--|
| District No.: 08 | | | County: WARD | | |
| Well No.: 2H | | | API No.: 42-475-37142 | | |
| Lease Name: UL ECHO CANYON 20-17 | | | Drilling Permit No.: 819007 | | |
| Field Name: Phantom (Wolfcamp) | | | Lease No.: 71052900 | | |

| I. CASING CEMENTING DATA | | | | | |
|---|--|---|--|--|--|
| Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production | | | | | |
| Drilled hole size (in.): 6 3/4 | | Depth of drilled hole (ft.): 16,544 | | Est. % wash-out or hole enlargement: 20% | |
| Size of casing in O.D. (in.): 5 1/2 | | Casing weight (lbs/ft) and grade: 23 # P110 | | No. of centralizers used: 0 | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks. | | | | Setting depth shoe (ft.): 16,544 | |
| | | | | Top of liner (ft.): | |
| | | | | Setting depth liner (ft.): | |
| Hrs. waiting on cement before drill-out: | | Calculated top of cement (ft.): 3301 | | Cementing date: 04/16/2017 | |

| SLURRY | | | | | |
|------------|--------------|-------|-------------|------------------|--------------|
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | 310 | H | SEE REMARKS | 871.1 | 3340.51 |
| 2 | 2080 | H | SEE REMARKS | 2912 | 9327.58 |
| 3 | | | | | |
| Total | 2390 | | | 3783.1 | 12668.09 |

| 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.) | | 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: | | 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 | | | | | |
| Total | 0 | | | 0 | 0 |

| 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.) | | 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: | | 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 | | | | | |
| Total | 0 | | | 0 | 0 |

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

LEAD ADDITIVES: 0.40 % HALAD(R)-344, 0.35% HR-601, 0.25 LBM D-AIR 5000.

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RUBEN MEDINA SERVICE SUPERVISOR

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

04/16/2017

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.

Freddie Harverson JR

Co-man

Freddie Harverson JR

Typed or printed name of operator's representative

Title

Signature

1530 16th St. Ste 400 Denver CO 80202

720-944-2071

4/16/2017

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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- 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.
- 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.
- 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.
- 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.: 183143

This facsimile L-1 was generated electronically from data submitted to the RRC.

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: FELIX ENERGY HOLDINGS II, LLC | District No. 08 | Completion Date: 05/20/2017 |
| Field Name PHANTOM (WOLFCAMP) | Drilling Permit No. 819007 | |
| Lease Name UL ECHO CANYON 20-17 | Lease/ID No. 48943 | Well No. 2H |
| County WARD | API No. 42- 475-37142 | |

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). _____

Heather Dahlgren

Signature

FELIX ENERGY HOLDINGS II, LLC

Name (print)

Felix Admin Services

Title

(720) 974-2069

Phone

02/16/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-

**RATE OF PENETRATION
TEMPERATURE
GAMMA RAY**



**1" / 5" TVD LOG
1:1200 / 1:240**

| | | | | | | | | | | | |
|--------------------------------------|--------------------------|--|--------------------------------|------------------------|------------------|--------------------------------|--|--------------------------------|--|--|--------------------------------|
| County : Ward County, Texas | Field : Phantom Wolfcamp | Location : Lat: 31° 32' 5.46" North Long: 103° 10' 2.04" West | Well : UL Echo Canyon 20-17 2H | Company : Felix Energy | Rig : Cactus 139 | Company : Felix Energy | Rig : Cactus 139 | Well : UL Echo Canyon 20-17 2H | Field : Phantom Wolfcamp | County : Ward County, Texas | API Number : 42-475-37142-0000 |
| | | | | | | LOCATION | Latitude : 31° 32' 5.46" North Longitude : 103° 10' 2.04" West | | Other Services Directional Drilling | | |
| | | | | | | | StatePlane X = 1,117,181.690 usft StatePlane Y = 690,687.050 usft | | | | |
| Permanent Datum : Ground Level | | | | | | Elevation : 2619.00 ft | | | | Elev. KB N/A DF 2644.00 ft GL 2619.00 ft WD N/A | |
| Log Measured From : Drill Floor | | | | | | 25.00 ft Above Permanent Datum | | | | | |
| Drilling Measured From : Drill Floor | | | | | | TVD LOG | | | | | |
| | | | | | | | | | | | |

| | | |
|---|-----------------------|----------------------------|
| Depth Logged : 5,032.91 ft To 11,317.93 ft | Unit No. : 11498526 | Job No. : MO-XX-0903889493 |
| Date Logged : 21-Mar-17 To 14-Apr-17 | Plot Type : Final | |
| Total Depth MD : 16,544.00 ft TVD: 11,317.93 ft | Plot Date : 13-Apr-17 | |
| Spud Date : 22-Mar-17 | | |

| Run No. | Borehole Record (TVD) | | | Size | Casing Record (TVD) | | |
|---------|-----------------------|--------------|--------------|-----------|---------------------|---------|--------------|
| | Size | From | To | | Weight | From | To |
| 0400 | 9.875 in | 5,032.91 ft | 8,434.01 ft | 20.000 in | 120.00 lbpf | SURFACE | 80.00 ft |
| 0500 | 9.875 in | 8,434.01 ft | 8,861.90 ft | 13.375 in | 68.00 lbpf | SURFACE | 1,199.26 ft |
| 0600 | 9.875 in | 8,861.90 ft | 10,417.49 ft | 10.750 in | 45.50 lbpf | SURFACE | 5,016.02 ft |
| 0700 | 6.750 in | 10,417.49 ft | 10,856.62 ft | 7.625 in | 29.70 lbpf | SURFACE | 10,404.49 ft |
| 0800 | 6.750 in | 10,856.62 ft | 11,382.45 ft | | | | |
| 0900 | 6.750 in | 11,382.45 ft | 11,393.55 ft | | | | |
| 1000 | 6.750 in | 11,393.55 ft | 11,344.07 ft | | | | |
| 1100 | 6.750 in | 11,344.07 ft | 11,317.93 ft | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | | | | |
|--|-----------|---|--------------------------------------|---|---|--------------------|---------------------|
| 1. Field name exactly as shown on proration schedule PHANTOM (WOLFCAMP) | | 2. Lease name as shown on proration schedule UL ECHO CANYON 20-17 | | | | | |
| 3. Current operator name exactly as shown on P-5 Organization Report FELIX ENERGY HOLDINGS II, LLC | | 4. Operator P-5 no. 265322 | 5. Oil Lse/Gas ID no 48943 | 6. County WARD | 7. RRC district 08 | | |
| 8. Operator address including city, state, and zip code FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202 | | 9. Well no(s) <i>(see instruction E)</i> 2H | | | | | |
| | | 10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other <i>(see instruction A)</i> | | 11. Effective Date 05/20/2017 | | | |
| 12. Purpose of Filing. (Complete section a or b below.) <i>(See instructions B and G)</i> a. Change of: <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 <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ ----- OR ----- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only) | | | | | | | |
| 13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). <i>(See instruction G).</i> | | | | | | | |
| Gatherer | Purchaser | Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left <i>(Attach an additional sheet in same format if more space is needed)</i> | | | Purchaser's RRC Assigned System Code | Percent of Take | Full-well stream |
| X | X | TARGA DELAWARE LLC(836022) | | | 0001 | 100.0 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 14. Authorized OIL or CONDENSATE Gatherer(s). <i>(See instruction G).</i> | | | | | | | |
| Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First <i>(Attach an additional sheet in same format if more space is needed)</i> | | | | | | Percent of Take | |
| LION OIL TRADING & TRANS, LLC(501751) | | | | | | 100.0 | |
| | | | | | | | |
| | | | | | | | |
| RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>11/06/2017</u> | | | | | | | |
| 15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. 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 _____ Name (print) _____ Title _____ | | | | Signature _____ <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator <i>(see instruction G)</i> _____ Date Phone with area code | | | |
| 16. CURRENT OPERATOR CERTIFICATION. 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. | | | | | | | |
| FELIX ENERGY HOLDINGS II, LLC Name (print) Felix Admin Services Title heatherd@felix-energy.com E-mail Address (optional) | | | | Heather Dahlgren Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator <i>(see instruction G)</i> 06/26/2017 (720) 974-2069 Date Phone with area code | | | |

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 04 October 2016**GAU Number:** 161077**Attention:** FELIX ENERGY HOLDINGS II,
FELIX ENERGY
DENVER, CO 80202**Operator No.:** 265322**API Number:**
County: WARD
Lease Name: UL Loveland 1902-17
Lease Number:
Well Number: 1H
Total Vertical Depth: 14000
Latitude: 31.534915
Longitude: -103.167257
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-17; Section-21

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

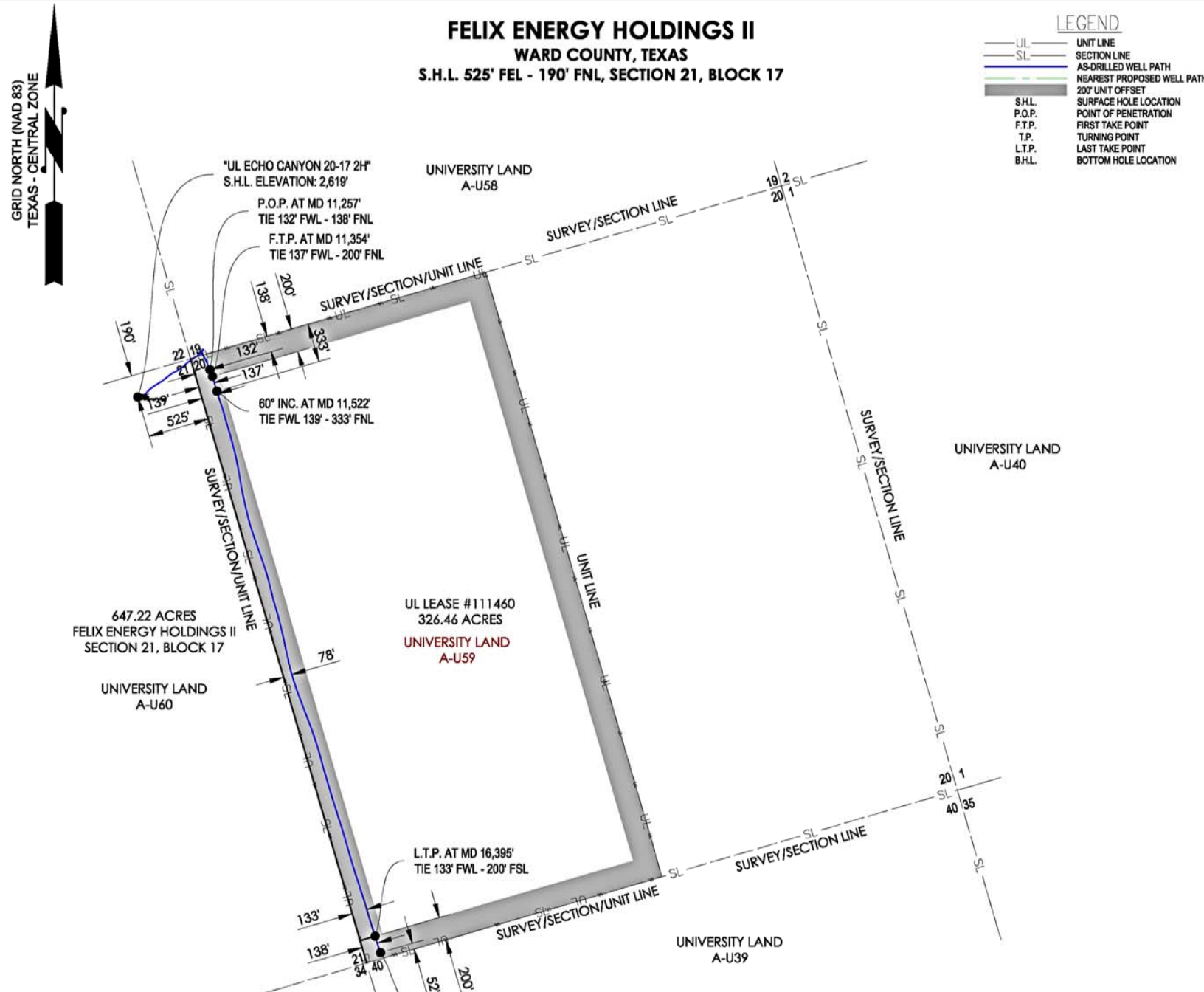
The interval from the land surface to a depth of 1075 feet must be protected.

This recommendation is applicable to all wells within a radius of 500 feet of this location.

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

This determination is based on information provided when the application was submitted on 10/03/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division



OPERATOR: FELIX ENERGY, LLC

WELL NAME: UL ECHO CANYON 20-17 **WELL NO:** 2H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

GOOD DRILL SITE: YES

BEST ACCESSIBILITY TO LOCATION: FROM WEST

DISTANCE & DIRECTION
FROM HWY JCT OR TOWN: ±2.4 MILES WEST OF PYOTE, TX
FROM THE INTERSECTION OF WALL STREET AND HWY 2355 TRAVEL WEST ±0.52 MILES TO A LEASE ROAD, TURN LEFT AND TRAVEL ±2.29 MILES, TURN RIGHT ON LEASE ROAD AND TRAVEL ±0.41 MILES TO PROPOSED LEASE ROAD TRAVEL ±0.50 MILES TO PAD.

SURFACE HOLE LOCATION:
525' FEL & 190' FNL (SEC. 21)
GROUND ELEVATION: 2,619'
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 690687.1, EASTING: 1117181.7
LATITUDE: N 31.5348498°, LONGITUDE: W 103.1672338°
NAD 83 TEXAS CENTRAL ZONE
NORTHING: 10533262.5, EASTING: 1413647.6
LATITUDE: N 31.5349828°, LONGITUDE: W 103.1676744°

POINT OF PENETRATION:
132' FWL & 138' FNL (SEC. 20)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 690921.93, EASTING: 1117798.39
LATITUDE: N 31.53553845°, LONGITUDE: W 103.16527407°

FIRST TAKE POINT:
137' FWL & 200' FNL (SEC. 20)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 690863.53, EASTING: 1117820.60
LATITUDE: N 31.53537951°, LONGITUDE: W 103.16519803°

LAST TAKE POINT:
133' FWL & 200' FSL (SEC. 20)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 686072.48, EASTING: 1119215.85
LATITUDE: N 31.52230949°, LONGITUDE: W 103.16033035°

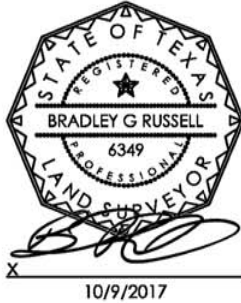
BOTTOM HOLE LOCATION:
138' FWL & 52' FSL (SEC. 20)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 685931.76, EASTING: 1119262.46
LATITUDE: N 31.52192599°, LONGITUDE: W 103.16016934°

NOTE: DATA PROVIDED BY FELIX ENERGY

GENERAL NOTES

- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
- BASIS OF BEARINGS: TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
- COMBINED SCALE FACTOR AT S.H.L. - 0.999799724
- VERTICAL DATUM IS NAVD 88
- AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

| LOCATION | NAD27 | |
|-----------------|-----------------------------------|---|
| | STATE PLANE TEXAS CENTRAL (32039) | GEOGRAPHIC (4267) |
| NW CORNER 20-17 | N = 691017.10 E = 1117632.88 | LAT: 31.53578843° LONG: -103.16581356° |
| NE CORNER UNIT | N = 691755.14 E = 1120166.41 | LAT: 31.53799393° LONG: -103.15774370° |
| SE CORNER UNIT | N = 688582.83 E = 1121676.74 | LAT: 31.52388381° LONG: -103.15247687° |
| SW CORNER 20-17 | N = 685843.25 E = 1119144.36 | LAT: 31.52167448° LONG: -103.16054100° |



CONTACT INFORMATION:
Bradley G. Russell
Crafton Tull (10193715)
1000 Ledgelawn Dr.
Conway, AR 72034

1000 Ledgelawn Dr
Conway, Arkansas 72034

Crafton Tull
surveying

501.328.3316 f 501.328.3325 f
www.craftontull.com

| REVISION |
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| |

"UL ECHO CANYON 20-17 2H"

SECTION 20, BLOCK 17
326.46 ACRES
AS-DRILLED PLAT
WARD COUNTY, TEXAS

SCALE: 1" = 1000'
PLOT DATE: 10-09-2017

CHECKED BY:
DRAWN BY:

J.PARKER
JWB

APPROVED BY:
SHEET NO.: 1 OF 1

NGUYEN