



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 07/18/2018
Tracking No.: 194160

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

OPERATOR INFORMATION

Operator Name: FELIX WATER, LLC
Operator No.: 265326
Operator Address: % FELIX ENERGY 1530 16TH ST STE 500 DENVER, CO 80202-0000

WELL INFORMATION

API No.: 42-475-37414
Well No.: 1D
Lease Name: UNIVERSITY 45-20
RRC Lease No.: 50099
Location: Section: 45, Block: 20, Survey: UL, Abstract: U134
County: WARD
RRC District No.: 08
Field Name: WAR-WINK (CHERRY CANYON)
Field No.: 95122200
Latitude:
Longitude:
This well is located 11 miles in a SW direction from WINK, which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Active UIC
Completion or Recompletion Date: 06/09/2018
Type of Permit
Date
Permit No.
Permit to Drill, Plug Back, or Deepen 05/11/2018 834825
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 05/16/2018
Date of first production after rig released: 06/09/2018
Date plug back, deepening, recompletion, or drilling operation commenced: 05/16/2018
Date plug back, deepening, recompletion, or drilling operation ended: 06/09/2018
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: 640.00
Elevation (ft.): 2770 GL
Total depth TVD (ft.): 7450
Total depth MD (ft.):
Plug back depth TVD (ft.): 7391
Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes
Rotation time within surface casing (hours): 88.5
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No
Multiple completion? No
Type(s) of electric or other log(s) run: Combo of Induction/Neutron/Density
Electric Log Other Description:
Location of well, relative to nearest lease boundaries
Off Lease : No
of lease on which this well is located: 1176.0 Feet from the South Line and 1069.0 Feet from the East Line of the UNIVERSITY 45-20 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.): 300.0 | Date: 12/13/2017 |
| SWR 13 Exception | | Depth (ft.): | |

| INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION | |
|--|-----------------------------|
| Date of test: | Production method: |
| Number of hours tested: 24 | Choke size: |
| Was swab used during this test? No | Oil produced prior to test: |
| PRODUCTION DURING TEST PERIOD: | |
| Oil (BBLs): | Gas (MCF): |
| Gas - Oil Ratio: 0 | Flowing Tubing Pressure: |
| Water (BBLs): | |
| CALCULATED 24-HOUR RATE | |
| Oil (BBLs): | Gas (MCF): |
| Oil Gravity - API - 60.: | Casing Pressure: |
| Water (BBLs): | |

| 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 | 421 | | | TRANS-TEX-LITE | 540 | 864.0 | SURF ACE | Circulated to Surface |
| 2 | Tapered Production | 9 5/8 | 12 1/4 | 7450 | | 7439 | TRANS-TEX-LITE, H | 1170 | 2215.0 | 5169 | Calculation |
| 3 | Tapered Production | 9 5/8 | 12 1/4 | 7450 | 5169 | | TRANS-TEX MULTI C, | 2060 | 4603.0 | SURF ACE | Circulated to Surface |

| 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 | | | |
|---------------|-------------------|-------------------------|--------------------------------|
| <u>Row</u> | <u>Size (in.)</u> | <u>Depth Size (ft.)</u> | <u>Packer Depth (ft.)/Type</u> |
| 1 | 5 1/2 | 5101 | / |

| PRODUCING/INJECTION/DISPOSAL INTERVAL | | | |
|---------------------------------------|------------|------------|----------|
| Row | Open hole? | From (ft.) | To (ft.) |
| 1 | No | L 5166 | 7328.0 |

| ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. | | | |
|---|-------------------|---|----------------------|
| Was hydraulic fracturing treatment performed? | | No | |
| Is well equipped with a downhole actuation sleeve? | | No | |
| If yes, actuation pressure (PSIG): | | | |
| Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: | | Actual maximum pressure (PSIG) during hydraulic fracturing: | |
| Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? | | No | |
| Row | Type of Operation | Amount and Kind of Material Used | Depth Interval (ft.) |
| 1 | Acid | 30,000 GALS 15% HCL | 5166 7328 |

| FORMATION RECORD | | | | | |
|--|-------------|-----------------|----------------|------------------------|-----------------------|
| Formations | Encountered | Depth TVD (ft.) | Depth MD (ft.) | Is formation isolated? | Remarks |
| RUSTLER | Yes | 807.0 | | Yes | |
| SALADO | Yes | 1120.0 | | Yes | |
| CASTILE | Yes | 4774.0 | | Yes | |
| YATES | No | | | No | FORMATION NOT PRESENT |
| SEVEN RIVERS | No | | | No | FORMATION NOT PRESENT |
| QUEEN | No | | | No | FORMATION NOT PRESENT |
| GLORIETA | No | | | No | FORMATION NOT PRESENT |
| SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT | No | | | No | FORMATION NOT PRESENT |
| CLEARFORK | No | | | No | FORMATION NOT PRESENT |
| DELAWARE | Yes | 5154.0 | | Yes | |
| TUBB | No | | | No | FORMATION NOT PRESENT |
| WICHITA ALBANY | No | | | No | FORMATION NOT PRESENT |
| CHERRY CANYON | Yes | 6103.0 | | Yes | |
| BRUSHY CANYON | Yes | 7331.0 | | Yes | |
| WADDELL | No | | | No | NOT DRILLED DEEP |
| BONE SPRINGS | No | | | No | NOT DRILLED DEEP |
| WOLFCAMP | No | | | No | NOT DRILLED DEEP |
| MONTOYA | No | | | No | NOT DRILLED DEEP |
| PENNSYLVANIAN | No | | | No | NOT DRILLED DEEP |
| ATOKA | No | | | No | NOT DRILLED DEEP |
| FUSSELMAN | No | | | No | NOT DRILLED DEEP |
| DEVONIAN | No | | | No | NOT DRILLED DEEP |
| ELLENBURGER | No | | | No | NOT DRILLED DEEP |
| 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 2018-06-15 16:47:30.278] Notification ID: 134232

Caller Information
First Name:

MICHAEL
Last Name:

HOWARD
Company:

FELIX WATER, LLC.
Phone:

(580) 571-7950

Type: *
Industry Activity
Category: *
Testing
Date/Time:

06/06/2018 13:06

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Bill Spencer
Telephone No.: (512) 918-1062

Title: Consultant
Date Certified: 06/14/2018



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 ~~WATER~~ Water LLC Operator P-5 No.: 265326
Cementer Name: TRANS TEX CEMENTING SERVICES, LLC Cementer P-5 No.: 864412

WELL INFORMATION

District No.: 08 County: WARD
Well No.: 1D API No.: 42-475-37414 Drilling Permit No.: 834825
Lease Name: UNIVERSITY 45-20 Lease No.:
Field Name: War-Wink (Cherry Canyon) Field No.: 95122200

I. CASING CEMENTING DATA

Type of Casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production
Drilled hole size (in.): 17.5 Depth of drilled hole (ft.): 436 Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 13.375 Casing weight (lbs/ft) and grade: 54.5 J-55 No. of centralizers used: 6
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.
Setting depth shoe (ft.): 421 Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 24 Calculated top of cement (ft.): Surface Cementing date: 5/16/2018

SLURRY

| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
|------------|--------------|----------------|-------------|------------------|--------------|
| 1 | 540 | TRANS-TEX-LITE | SEE REMARKS | 864 | 1244 |
| 2 | | | | | |
| 3 | | | | | |
| Total | 540 | | | 864 | 1244 |

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement slurry ☐ 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? YES ☐ 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 | | | | | |

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DVT ☐ 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? YES ☐ 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 | | | | | |

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.



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 WATER WATER LLC | | Operator P-5 No.: 265326 | | | |
| Cementor Name: TRANS TEX CEMENTING SERVICES, LLC | | Cementor P-5 No.: 864412 | | | |
| WELL INFORMATION | | | | | |
| District No.: 08 | | County: Ward | | | |
| Well No.: 1D | | API No.: 42-475-37414 | | Drilling Permit No.: 834825 | |
| Lease Name: University 45-20 | | Lease No.: | | | |
| Field Name: War-Wink (Cherry Canyon) | | Field No.: 95122200 | | | |
| 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.): | 12.25 | Depth of drilled hole (ft.): | 7450 | Est. % wash-out or hole enlargement: | |
| Size of casing in O.D. (in.): | 9.625 | Casing weight (lbs/ft) and grade: | 40# | 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.): | Top of liner (ft.): | |
| | | | | Setting depth liner (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 | | | | | |
| II. CASING CEMENTING DATA | | | | | |
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input checked="" type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement slurry <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | 12 1/4" | Depth of drilled hole (ft.): | 7450' | Est. % wash-out or hole enlargement: 20% | |
| Size of casing in O.D. (in.): | 9 5/8" | Casing weight (lbs/ft) and grade: | 40# HCL-80 | No. of centralizers used: 58 | |
| 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: | |
| Lower: | | Lower: | | Lower: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | | | Setting depth shoe (ft.): | 7439 | |
| Hrs. waiting on cement before drill-out: — | | Calculated top of cement (ft.): | | 5169' | |
| Cementing date: | | 5/27/2018 | | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | 760 | TRANS-TEX MULTI "H" | SEE REMARKS | 1732 | 5530 |
| 2 | 410 | CLASS "H" | SEE REMARKS | 483 | 1542 |
| 3 | | | | | |
| Total | 1170 | | | 2215 | 7072 |
| III. CASING CEMENTING DATA | | | | | |
| Type of casing: | <input type="checkbox"/> Surface | <input type="checkbox"/> Intermediate | <input type="checkbox"/> Production | <input checked="" type="checkbox"/> Tapered production | <input type="checkbox"/> Multi-stage cement/DV <input type="checkbox"/> Multiple parallel strings |
| Drilled hole size (in.): | 12 1/4" | Depth of drilled hole (ft.): | 7450' | Est. % wash-out or hole enlargement: 20% | |
| Size of casing in O.D. (in.): | 9 5/8" | Casing weight (lbs/ft) and grade: | 40# HCL-80 | No. of centralizers used: 58 | |
| 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: | |
| Lower: | | Lower: | | Lower: | |
| Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | | | Setting depth shoe (ft.): | 5169' | |
| Hrs. waiting on cement before drill-out: — | | Calculated top of cement (ft.): | | Surface | |
| Cementing date: | | 5/27/2018 | | | |
| SLURRY | | | | | |
| Slurry No. | No. of Sacks | Class | Additives | Volume (cu. ft.) | Height (ft.) |
| 1 | 1710 | TRANS-TEX MULTI "C" | SEE REMARKS | 4138 | 13212 |
| 2 | 350 | CLASS "C" | SEE REMARKS | 465 | 1484 |
| 3 | | | | | |
| Total | 2060 | | | 4603 | 14696 |

| 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

7%GEL + 3%SALT, + .2% CR-1, + .3% CFL-1, + .2% CR-1, + .3% CFL-1, + .1% CFR-1, + 2# GILS, + .25# CF
 3%CFR-1, + .4CFL-1, + .1%CR-1 /// CIRCULATE CEMENT TO SURFACE 18 BBLS OR 44 SKS ON 1ST STG
 10%GEL + 3%SALT, + .25# CELLOFLAKE + .3%CFL-1, + .2%CR-1
 .2%CR-1, + 3%CFR 1, + .3%CFL-1, .25# CELLOFLAKE CIRCULATE CEMENT TO SURFACE ON 2ND STG 281 BBLS OR 651 SKS

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.

Jose Reynoso cementer

Name and title of cementer's representative

TRANS TEX CEMENTING

Cementing Company

Jose L. Reynoso
Signature

5019 BASIN ST

Address

MIDLAND, TX 79703

City, State, Zip Code

432-694-4900

Tel: Area Code Number

5/27/2018

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.

Matt Peterson

Typed or printed name of operator's representative

Operations Manager

Title

[Signature]

Signature

1530 16th St., Suite 500 Denver, CO 80202 (720) 974-2085

Address

City, State, Zip Code

Tel: Area Code Number

5/27/18

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 787112967).

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=R&app=9&p_dir=&p_doc=&p_loc=&p_plac=&pg=1&p_tac=&ti=16&pt=1&ch=3&rt=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_doc=&p_loc=&p_plac=&pg=1&p_tac=&ti=16&pt=1&ch=3&rt=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.

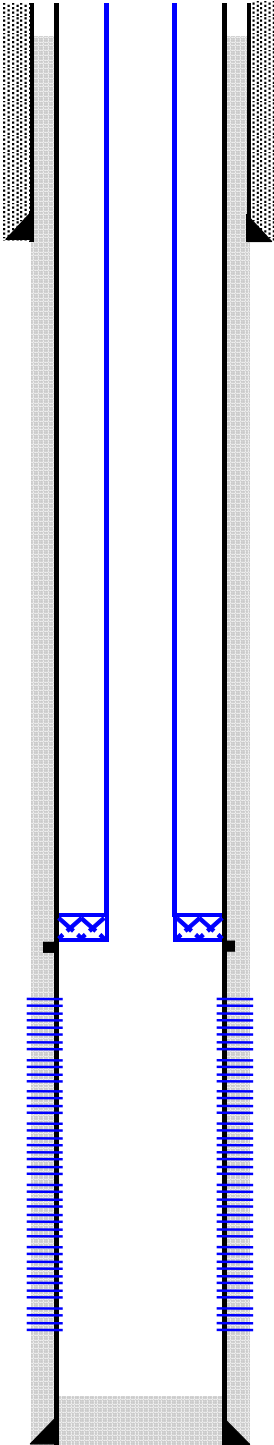
E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage 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.

| | | | | | | |
|---|-----------|--|---|--------------------------------------|---|------------------------------|
| 1. Field name exactly as shown on proration schedule WAR-WINK (CHERRY CANYON) | | | 2. Lease name as shown on proration schedule UNIVERSITY 45-20 | | | |
| 3. Current operator name exactly as shown on P-5 Organization Report FELIX WATER, LLC | | | 4. Operator P-5 no. 265326 | 5. Oil Lse/Gas ID no 50099 | 6. County WARD | 7. RRC district 08 |
| 8. Operator address including city, state, and zip code % FELIX ENERGY 1530 16TH ST STE 500 DENVER, CO 80202 | | | 9. Well no(s) <i>(see instruction E)</i> 1D | | | |
| 10. Classification <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other <i>(see instruction A)</i> | | | | | 11. Effective Date 06/09/2018 | |
| 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 type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input checked="" 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 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 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 | |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>07/18/2018</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. | | | | | | |
| Name (print) <u>Consultant</u> Title <u>bill@spencerconsulting.org</u> E-mail Address (optional) | | | Bill Spencer Signature _____ <input type="checkbox"/> Authorized Employee of current operator <input checked="" type="checkbox"/> Authorized agent of current operator <i>(see instruction G)</i> <u>06/14/2018</u> <u>(512) 918-1062</u> Date Phone with area code | | | |

SWD Wellbore Schematic



TOC (13.375) @ Surf-Circ
TOC (9.625) @ 59' by CBL


13.375 Surf Csg @ 421'

5 1/2" 15.5# J-55 IPC Coated Tbg
Injection Packer @ 5101.29'
DV Tool @ 5169'

Cherry Canyon Top Perf @ 5166'

Cherry Canyon Bottom Perf @ 7328'

PBTD: @ 7391'
9.625 Production Csg @ 7439'

| | | | | | | | | | | | | | | | |
|---|----------|----------|----------|-----------------------------|--------------|-------------|------------|---|-----------|---------------------------------|-------------|--|-----------|--------------|-----------|
|  | | | | WELL NAME: University 45-20 | | | | Well #: 1D | | FIELD: War-Wink (Cherry Canyon) | | Field No. 95122200 | | | |
| | | | | STATE: Texas | | | | COUNTY: Ward | | | | SRF LOC: SE Section 45, Block 20, 1176' FSL, 1069' FEL | | | |
| | | | | API NO: 42-475-37414 | | | | SPUD DATE: 5/16/2018 | | | | BHL: SE Section 45, Block 20, 1176' FSL, 1069' FEL | | | |
| | | | | PBTD: 7391' | | | | TD DATE: 5/24/2018 | | | | FORMATION: Bell-Cherry Canyon | | | |
| | | | | TD: 7,450' | | TVD: 7,450' | | CMPL DATE: 6/9/2018 | | ELEVATION: 2770' GL | | 2,783.00' KB | | | |
| PIPE RECORD | | | | | | | | | HOLE DATA | | CEMENT DATA | | | | |
| | | OD | GRADE | THD | WEIGHT (ppf) | TOP | BTM | # JTS | BIT SIZE | DEPTH | SX | YIELD (cu ft/sk) | Wt. (ppg) | | TOC |
| Surf Csg | | 13.375" | J-55 | STC | 54.5# | 0' | 421' | | 17.500" | 436' | 543 | 1.60 | 13.8 | Lead Class C | Surf-Circ |
| Production Csg | | 9.625" | HCL-80 | BTC | 40# | 0' | 7439' | | 12.250" | 7450' | 1710 | 2.42 | 11.8 | Lead Class C | 59' |
| | | | | | | DV Tool | 5169' | | | | 350 | 1.33 | 14.8 | Tail Class C | |
| | | | | | | | | | | | 760 | 2.28 | 11.9 | Lead Class H | DV |
| | | | | | | | | | | | 410 | 1.18 | 15.6 | Tail Class H | |
| Tubing | | 5 1/2" | J-55 | EUE | 15.50# | 0' | 5101' | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Formation | Top Perf | Btm Perf | Net Feet | JSPF | Holes | Top Perf | Btm Perf | Net Feet | JSPF | Holes | Top Perf | Btm Perf | Net Feet | JSPF | Holes |
| Bell-Cherry Canyon | 5166 | 5176 | 10 | 6 | 60 | 6453 | 6463 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5182 | 5212 | 30 | 6 | 180 | 6470 | 6480 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5220 | 5250 | 30 | 6 | 180 | 6488 | 6498 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5278 | 5308 | 30 | 6 | 180 | 6508 | 6533 | 25 | 6 | 150 | | | | 6 | |
| Bell-Cherry Canyon | 5324 | 5344 | 20 | 6 | 120 | 6546 | 6556 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5360 | 5420 | 60 | 6 | 360 | 6566 | 6596 | 30 | 6 | 180 | | | | 6 | |
| Bell-Cherry Canyon | 5446 | 5471 | 25 | 6 | 150 | 6604 | 6614 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5496 | 5516 | 20 | 6 | 120 | 6626 | 6632 | 6 | 6 | 36 | | | | 6 | |
| Bell-Cherry Canyon | 5544 | 5554 | 10 | 6 | 60 | 6660 | 6670 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5558 | 5588 | 30 | 6 | 180 | 6691 | 6756 | 65 | 6 | 390 | | | | 6 | |
| Bell-Cherry Canyon | 5598 | 5608 | 10 | 6 | 60 | 6782 | 6802 | 20 | 6 | 120 | | | | 6 | |
| Bell-Cherry Canyon | 5630 | 5645 | 15 | 6 | 90 | 6840 | 6850 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5688 | 5728 | 40 | 6 | 240 | 6930 | 6970 | 40 | 6 | 240 | | | | 6 | |
| Bell-Cherry Canyon | 5748 | 5798 | 50 | 6 | 300 | 6988 | 6994 | 6 | 6 | 36 | | | | 6 | |
| Bell-Cherry Canyon | 5822 | 5872 | 50 | 6 | 300 | 7002 | 7012 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5880 | 5910 | 30 | 6 | 180 | 7016 | 7026 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 5954 | 5994 | 40 | 6 | 240 | 7086 | 7106 | 20 | 6 | 120 | | | | 6 | |
| Bell-Cherry Canyon | 5998 | 6008 | 10 | 6 | 60 | 7136 | 7146 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 6074 | 6094 | 20 | 6 | 120 | 7176 | 7196 | 20 | 6 | 120 | | | | 6 | |
| Bell-Cherry Canyon | 6130 | 6136 | 6 | 6 | 36 | 7220 | 7250 | 30 | 6 | 180 | | | | 6 | |
| Bell-Cherry Canyon | 6154 | 6184 | 30 | 6 | 180 | 7280 | 7290 | 10 | 6 | 60 | | | | 6 | |
| Bell-Cherry Canyon | 6208 | 6228 | 20 | 6 | 120 | 7308 | 7328 | 20 | 6 | 120 | | | | 6 | |
| Bell-Cherry Canyon | 6276 | 6306 | 30 | 6 | 180 | | | | 6 | | | | | 6 | |
| Bell-Cherry Canyon | 6332 | 6342 | 10 | 6 | 60 | | | | 6 | | | | | 6 | |
| Bell-Cherry Canyon | 6360 | 6375 | 15 | 6 | 90 | | | | 6 | | | | | 6 | |
| Bell-Cherry Canyon | 6388 | 6418 | 30 | 6 | 180 | | | | 6 | | | | | 6 | 0 |
| Totals = | | | 671 | 4026 | | Totals = | | | 392 | 2352 | | Totals = | | 0 | 0 |
| TUBING/BHA Detail as of TBD | | | ID (in) | OD (in) | Jts | Length (ft) | Depth (ft) | Grand Total Net Ft of Perfs = 1063 | | | | | | | |
| KB Correction | | | | | | 13.00 | 13.00 | Grand Total Number of Perf Holes = 6378 | | | | | | | |
| Tubing Hanger (LTC Box down) | | | | | | 0.5 | 13.50 | | | | | | | | |
| 5 1/2" LTC Pin by 5 1/2" LTC Pin - IPC | | | 4.950 | 5.500 | | 1 | 14.50 | | | | | | | | |
| 5-1/2" 15.5# J-55 IPC LTC Tbg | | | 4.950 | 5.500 | 1 | 42.15 | 56.65 | | | | | | | | |
| 5-1/2" 15.5# J-55 IPC LTC Pups (4', 6', 8', 10') | | | 4.950 | 5.500 | 4 | 28.54 | 85.19 | | | | | | | | |
| 5-1/2" 15.5# J-55 IPC LTC Tbg | | | 4.950 | 5.500 | 119 | 5000 | 5085.19 | | | | | | | | |
| 5 1/2" LTC Box by 4 1/2" EUE Stainless XO | | | 3.958 | 5.500 | | 0.60 | 5085.79 | | | | | | | | |
| 3.812" Baker Model F Stainless Profile Nipple | | | 3.812 | 4.500 | | 1.05 | 5086.84 | | | | | | | | |
| 4-1/2" 12.75# L-80 IPC Coated EUE 8rd | | | 3.958 | 4.500 | | 4.23 | 5091.07 | | | | | | | | |
| 9-5/8" X 4-1/2" T-2 On/Off Tool NC | | | 3.750 | 4.500 | | 2.00 | 5093.07 | | | | | | | | |
| 9-5/8" X 4-1/2" 32.3-43.5# AS1-X NP w/ SS 3.75" Baker F Profile Sti | | | 3.750 | 5.887 | | 8.22 | 5101.29 | | | | | | | | |
| 6 ft. X 4 1/2" EUE Nickel Coated Sub | | | 3.958 | 4.500 | | 6.27 | 5107.56 | | | | | | | | |
| 3.750" Baker R Stainless Profile Nipple | | | 3.750 | | | 1.30 | 5108.86 | | | | | | | | |
| 4 1/2" Aluminum Pump-out plug w/ WL entry guide | | | 2.992 | 4.500 | | 0.62 | 5109.48 | | | | | | | | |
| EOT (KB) | | | | | | | 5108.86 | Updated by: M. Peterson 6/11/18 | | | | | | | |

N-ZONE GUIDANCE LLC.

Railroad Commission of Texas
Oil and Gas Division
PO Box 12967
Capitol Station
Austin, TX 78711

Attention:

Re Felix Energy
University 45-20 #1D
Ward County, Texas
API # 42-475-37414

Enclosed, please find the original and one copy of the survey performed on the referenced well by N-Zone Guidance MWD TECH., a division of N-Zone Guidance LLC. Other information required by your office is as follows:

| <u>Name & Title</u> <u>of Surveyor</u> | <u>Drainhole Number</u> | <u>Surveyed Depths</u> | <u>Dates Performed</u> | <u>Type of Survey</u> |
|---|-------------------------|------------------------|----------------------------------|-----------------------|
| <u>Dennis Scully</u> | <u>#1H</u> | <u>0' to 7540'</u> | <u>05/17/2018' – 05/24/2018'</u> | <u>Gama/MWD</u> |

A certified plat on which the bottom hole is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Enclosures: 2

State of Texas

N-ZONE GUIDANCE LLC.



Felix Energy
University 45-20 #1D
Ward County, Texas
API# : 42-475-37414
Job# : FE-18-1095

Prepared By
Perry Reed
MWD Coordinator
@ N-Zone Guidance



| | | | |
|---------------------------------|---|---|---|
| Job Number FE-18-1095 | Operator Felix Energy | Rig Name Capstar 122 | |
| Start Date 2018-05-15 | Well Name University 45-20 1D | Legal Well Name AFE University 45-20 1D 4249500232D | Well Path Name Vertical Control |
| Play SWD | State TX | County Ward County | Company Man |
| Lat 31.641926 | Lon -103.298188 | Rig Floor Elevation (ft) 12.00 | VS Plane AZI 0.0 |

Surveys

| MD (ft) | INC (°) | AZI (°) | TVD (ft) | North (ft) | East (ft) | VS (ft) | Clos Dist (ft) | Clos Azi (°) | Dogleg (°/100 ft) | B Rate (°/100 ft) | T Rate (°/100 ft) | Bit to Sensor (ft) | Calc TF (°) |
|---------|---------|---------|----------|------------|-----------|---------|----------------|--------------|-------------------|-------------------|-------------------|--------------------|-------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | N/A | N/A | N/A | 58.00 | N/A |
| 168.00 | 0.60 | 194.90 | 168.00 | -0.85 | -0.23 | -0.85 | 0.88 | 194.90 | 0.36 | 0.36 | -98.27 | 58.00 | -165.10 |
| 342.00 | 0.40 | 193.40 | 341.99 | -2.32 | -0.60 | -2.32 | 2.40 | 194.52 | 0.12 | -0.11 | -0.86 | 58.00 | -177.01 |
| 752.00 | 0.20 | 97.50 | 751.99 | -3.81 | -0.22 | -3.81 | 3.81 | 183.36 | 0.11 | -0.05 | -23.39 | 52.00 | -154.68 |
| 1165.00 | 0.30 | 44.00 | 1164.98 | -3.12 | 1.24 | -3.12 | 3.36 | 158.31 | 0.06 | 0.02 | -12.95 | 52.00 | -95.11 |
| 1593.00 | 0.40 | 48.30 | 1592.97 | -1.32 | 3.14 | -1.32 | 3.40 | 112.88 | 0.02 | 0.02 | 1.00 | 52.00 | 16.87 |
| 2022.00 | 0.40 | 98.20 | 2021.97 | -0.54 | 5.74 | -0.54 | 5.76 | 95.39 | 0.08 | 0.00 | 11.63 | 52.00 | 114.95 |
| 2451.00 | 1.80 | 62.30 | 2450.88 | 2.38 | 13.18 | 2.38 | 13.40 | 79.78 | 0.35 | 0.33 | -8.37 | 52.00 | -44.93 |
| 2877.00 | 0.70 | 9.20 | 2876.78 | 8.06 | 19.52 | 8.06 | 21.12 | 67.58 | 0.35 | -0.26 | -12.46 | 52.00 | -157.91 |
| 3304.00 | 0.50 | 58.50 | 3303.76 | 11.61 | 21.53 | 11.61 | 24.46 | 61.67 | 0.12 | -0.05 | 11.55 | 52.00 | 134.61 |
| 3732.00 | 0.30 | 35.20 | 3731.75 | 13.50 | 23.77 | 13.50 | 27.33 | 60.41 | 0.06 | -0.05 | -5.44 | 52.00 | -152.14 |
| 4158.00 | 1.20 | 65.10 | 4157.71 | 16.29 | 28.46 | 16.29 | 32.79 | 60.22 | 0.22 | 0.21 | 7.02 | 52.00 | 38.94 |
| 4543.00 | 1.90 | 75.70 | 4542.57 | 19.56 | 38.30 | 19.56 | 43.00 | 62.95 | 0.20 | 0.18 | 2.75 | 48.00 | 27.63 |
| 4969.00 | 0.70 | 53.90 | 4968.45 | 22.84 | 47.25 | 22.84 | 52.48 | 64.20 | 0.30 | -0.28 | -5.12 | 48.00 | -168.25 |
| 5437.00 | 0.40 | 49.70 | 5436.43 | 25.58 | 50.80 | 25.58 | 56.88 | 63.27 | 0.06 | -0.06 | -0.90 | 48.00 | -174.44 |
| 5864.00 | 0.40 | 38.80 | 5863.42 | 27.70 | 52.87 | 27.70 | 59.69 | 62.35 | 0.02 | 0.00 | -2.55 | 48.00 | -95.45 |
| 6331.00 | 0.30 | 89.70 | 6330.41 | 28.98 | 55.12 | 28.98 | 62.27 | 62.26 | 0.07 | -0.02 | 10.90 | 48.00 | 132.16 |
| 6801.00 | 0.50 | 155.10 | 6800.40 | 27.13 | 57.21 | 27.13 | 63.32 | 64.63 | 0.10 | 0.04 | 13.91 | 48.00 | 101.42 |
| 7270.00 | 0.40 | 162.20 | 7269.39 | 23.71 | 58.57 | 23.71 | 63.19 | 67.96 | 0.02 | -0.02 | 1.51 | 48.00 | 154.37 |
| 7402.00 | 0.30 | 195.20 | 7401.39 | 22.94 | 58.62 | 22.94 | 62.95 | 68.63 | 0.17 | -0.08 | 25.00 | 48.00 | 132.25 |
| 7450.00 | 0.30 | 195.20 | 7449.39 | 22.70 | 58.56 | 22.70 | 62.80 | 68.81 | 0.00 | 0.00 | 0.00 | 0.00 | |

Comments: Projection to BHL

N-ZONE GUIDANCE LLC.

County of Winkler

I, Dennis Scully, certify that; I am employed by N-Zone Guidance LLC.; that I did on the days of 05/17/2018 through 05/24/2018 conduct or supervise the taking of MWD surveys from a depth of 0' feet to a depth of 7450' feet that the data is true, correct, complete and within the limitations of the tool as set forth by N-Zone Guidance MWD, a division of N-Zone Guidance LLC.; that I am authorized and qualified to make this report; that this survey was conducted at the request of Felix Energy , API# 42- 475- 37414 in Ward County, Texas; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by N-Zone Guidance MWD. A division of N-Zone Guidance LLC.

Dennis Scully,
MWD Supervisor



RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

PERMIT TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL AND GAS

PROJECT NO. F-21024 AMENDMENT

FELIX WATER, LLC
% FELIX ENERGY
1530 16TH ST STE 500
DENVER CO 80202

Authority is granted to inject into the well identified herein in accordance with Statewide Rule 46 of the Railroad Commission of Texas and based on the information contained in the application (Forms H-1 and H-1A) dated May 2, 2018 for the permitted interval of the DELAWARE MOUNTAIN GROUP formation and subject to the following terms and special conditions:

UNIVERSITY 45-20 (000000) LEASE
WAR-WINK (CHERRY CANYON) FIELD
WARD COUNTY
DISTRICT 08

WELL IDENTIFICATION AND PERMIT PARAMETERS:

| Well No. | API No. | UIC Number | Permitted Fluids | Top Interval (feet) | Bottom Interval (feet) | Maximum Liquid Daily Injection Volume (BBL/day) | Maximum Gas Daily Injection Volume (MCF/day) | Maximum Surface Injection Pressure for Liquid (PSIG) | Maximum Surface Injection Pressure for Gas (PSIG) |
|----------|----------|------------|---|---------------------|------------------------|---|--|--|---|
| 1D | 47537414 | 000116216 | Salt Water, and Other Non-Hazardous O/G Waste | 5250 | 8575 | 15000 | | 2625 | |

SPECIAL CONDITIONS:

| Well No. | API No. | Special Conditions |
|----------|----------|--|
| 1D | 47537414 | 1. Open hole completions shall have a plug back depth no deeper than the bottom of the permitted injection interval. |

STANDARD CONDITIONS:

1. Injection must be through tubing set on a packer.
2. The District Office must be notified 48 hours prior to:
 - a. running tubing and setting packer;
 - b. beginning any work over or remedial operation;
 - c. conducting any required pressure tests or surveys.
3. The wellhead must be equipped with a pressure observation valve on the tubing and for each annulus.
4. Prior to beginning injection and subsequently after any work over, an annulus pressure test must be performed. The test pressure must equal the maximum authorized injection pressure or 500 psig, whichever is less, but must be at least 200 psig. The test must be performed and the results submitted in accordance with the instructions of Form H-5.
5. The injection pressure and injection volume must be monitored at least monthly and reported annually on Form H-10 to the Commission's Austin office.
6. Within 30 days after completion, conversion to disposal, or any work over which results in a change in well completion, a new Form W-2 or G-1 must be filed to show the current completion status of the well. The date of the disposal well permit and the permit number must be included on the new Form W-2 or G-1.
7. Written notice of intent to transfer the permit to another operator by filing Form P-4 must be submitted to the Commission at least 15 days prior to the date of the transfer.
8. A well herein authorized cannot be converted to a producing well and have an allowable assigned without filing an amended Form W-1 and receiving Commission approval.
9. Unless otherwise required by conditions of the permit, completion and operations of the well shall be in accordance with the information represented on the application (Forms H-1 and H-1A).
10. This permit will expire when the Form W-3, Plugging Record, is filed with the Commission. Furthermore, permits issued for wells to be drilled will expire three (3) years from the date of the permit unless drilling operations have commenced.

Provided further that, should it be determined that such injection fluid is not confined to the approved interval, then the permission given herein is suspended and the fluid injection operation must be stopped until the fluid migration from such interval is eliminated. Failure to comply with all of the conditions of this permit may result in the operator being referred to enforcement to consider assessment of administrative penalties and/or the cancellation of the permit.

APPROVED AND ISSUED ON May 8, 2018.



Sean Avitt, Manager
Injection-Storage Permits Unit

Amendment Comments:

| Well No. | API No. | Amendment Comments |
|----------|----------|--|
| 1D | 47537414 | 1. Changes operator from OLIFANT ENERGY LLC (#621479) to FELIX WATER, LLC (#265326). |

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 13 December 2017**GAU Number:** 185137**Attention:** OLIFANT ENERGY LLC
15 W 6TH ST SUITE 2200
TULSA, OK 74119**Operator No.:** 621479**API Number:** 47500000**County:** WARD**Lease Name:** St Sec No. 45, Blk 20, SWD**Lease Number:****Well Number:** 1**Total Vertical Depth:** 8900**Latitude:** 31.641924**Longitude:** -103.298188**Datum:** NAD27**Purpose:** Injection into Producing Zone (H1)**Location:** Survey-UL; Abstract-U134; Block-20; Section-45

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 the base of the Alluvium, which is estimated to occur at a depth of 300 feet, must be protected.

The BASE OF UNDERGROUND SOURCES OF DRINKING WATER (USDW) is estimated to occur at a depth of 1150 feet at the site of the referenced well.

This recommendation is applicable to all wells within a radius of 200 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 12/06/2017. 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

WARD COUNTY, TEXAS

WINKLER COUNTY
WARD COUNTY

SECTION LINE
N 73°42'05" E 5283.64'

641.02 ACRE
LEASE UNIT

University 45-20 #1D
WELL LOCATION
TX-CENTRAL ZONE 4203
NAD 27 N:730684.85
NAD 27 E:1077434.02
NAD 27 LAT:31.641926
NAD 27 LON:-103.298188
NAD 83 N:10573260.86
NAD 83 E:1373898.98
NAD 83 LAT:31.642057
NAD 83 LON:-103.298635
ELEVATION: 2770'

WELL LOCATION DETAIL
N.T.S.

SECTION 45, BLOCK 20
UNIVERSITY LANDS SURVEY,
ABSTRACT NO. U134
WARD COUNTY, TEXAS

S 73°42'24" W 5282.15'
SECTION LINE



I HEREBY STATE THAT THIS PLAT WAS MADE
FROM NOTES TAKEN IN THE FIELD IN A BONA
FIDE SURVEY MADE UNDER MY SUPERVISION

W. E. WILSON
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS # 4662

LEGEND

- SURVEY LINE
- OVERHEAD ELECTRIC
- EXISTING PIPELINE
- FENCE LINE
- PROPOSED WELL PAD LOCATION
- PROPOSED LEASE AREA
- ★ PROPOSED WELL LOCATION
- APPROXIMATE DRY HOLE LOCATION
- EXISTING WELL
- POWER POLE
- FOUND MONUMENT
- CALCULATED CORNER

THE STATE SECTION NO. 45, BLOCK 20 SWD #1 IS
LOCATED APPROXIMATELY 11.08 MILES SOUTHWEST OF
THE TOWN OF WINK, TEXAS

1000' 0' 1000' 2000'
SCALE: 1" = 1000'

NOTES:

- 1.) THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY. THE REGISTRANT DOES NOT CLAIM HEREIN ADHERENCE TO THE T.B.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS.
- 2.) OWNERSHIP INFORMATION WAS SUPPLIED BY OTHERS.
- 3.) COORDINATES AND BEARINGS AS SHOWN ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE TEXAS CENTRAL ZONE 4203 NAD 83
- 4.) THIS PLAT IS PREPARED FOR TEXAS RAILROAD COMMISSION PERMITTING PURPOSES ONLY.
- 5.) THIS PLAT AND THE SURVEY IT IS BASED ON DOES NOT CONSTITUTE AN:
 - A.) ENVIRONMENTAL ASSESSMENT
 - B.) WETLANDS DETERMINATION
 - C.) SUBSURFACE DETERMINATION



Felix Water, LLC

University 45-20 #1D

1069' FEL & 1776' FSL

SITUATED IN THE
SECTION 45, BLOCK 20, UNIVERSITY LANDS SURVEY,
ABSTRACT NO. U134
WARD COUNTY, TEXAS

| | | | | |
|------|----------|-----|----------------------------------|-----|
| | | | | |
| #1 | 11/20/17 | JLW | UPDATED PAD AND SURFACE LOCATION | JAH |
| REV. | DATE | BY: | DESCRIPTION | CHK |

PROJECT NO. 1711010



8205 Camp Bowie West - Suite 204
Fort Worth, Texas 76116
Phone: 817-386-0362
TBPLS # 10193740

| | | | |
|-----------------|------------------|---|------|
| DRAWN BY: JLW | DATE: 01-03-2018 | DWG. NO. | REV. |
| CHECKED BY: JAH | DATE: 01-03-2018 | (Title Resources/Title Resources Team Feller/Officer/SWD) | 1 |
| SCALE: 1"=1000' | AFE. # | | |