



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

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

Status: Approved  
Date: 10/25/2019  
Tracking No.: 218480

**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.:** 42-475-37683      **County:** WARD  
**Well No.:** 6H      **RRC District No.:** 08  
**Lease Name:** UL LEAD KING 344035-16 F      **Field Name:** PHANTOM (WOLFCAMP)  
**RRC Lease No.:** 52338      **Field No.:** 71052900  
**Location:** Section: 34, Block: , Survey: FREEMAN, L / DITMAR, MRS C I, Abstract: 1163  
  
**Latitude:**      **Longitude:**  
**This well is located**      2.8      **miles in a**      SW  
**direction from**      PYOTE,  
**which is the nearest town in the county.**

**FILING INFORMATION**

**Purpose of filing:** Well Record Only  
**Type of completion:** New Well  
**Well Type:** Producing      **Completion or Recompletion Date:** 06/25/2019  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen Rule 37 Exception	09/26/2018	845069
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

**COMPLETION INFORMATION**

**Spud date:** 11/01/2018      **Date of first production after rig released:** 06/25/2019  
**Date plug back, deepening, recompletion, or drilling operation commenced:** 11/01/2018      **Date plug back, deepening, recompletion, or drilling operation ended:** 03/12/2019  
**Number of producing wells on this lease in this field (reservoir) including this well:** 7      **Distance to nearest well in lease & reservoir (ft.):** 205.0  
**Total number of acres in lease:** 1067.56      **Elevation (ft.):** 2605 GR  
**Total depth TVD (ft.):** 11398      **Total depth MD (ft.):** 24660  
**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):** 67.0  
**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 :** No  
**of lease on which this well is located:**      558.0 **Feet from the**      West **Line and**  
2789.0 **Feet from the**      North **Line of the**  
UL LEAD KING 344035-16 F **Lease.**

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

**Field & Reservoir**      **Gas ID or Oil Lease No.**      **Well No.**      **Prior Service Type**

W2: N/A

PACKET: N/A

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

<b>GAU Groundwater Protection Determination</b>	<b>Depth (ft.):</b> 1050.0	<b>Date:</b> 06/10/2016
<b>SWR 13 Exception</b>	<b>Depth (ft.):</b> 900.0	

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

<b>Date of test:</b>	<b>Production method:</b>
<b>Number of hours tested:</b> 24	<b>Choke size:</b>
<b>Was swab used during this test?</b> No	<b>Oil produced prior to test:</b>

**PRODUCTION DURING TEST PERIOD:**

<b>Oil (BBLs):</b>	<b>Gas (MCF):</b>
<b>Gas - Oil Ratio:</b> 0	<b>Flowing Tubing Pressure:</b>
<b>Water (BBLs):</b>	

**CALCULATED 24-HOUR RATE**

<b>Oil (BBLs):</b>	<b>Gas (MCF):</b>
<b>Oil Gravity - API - 60.:</b>	<b>Casing Pressure:</b>
<b>Water (BBLs):</b>	

**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	924			C	2405	3802.0	SURFACE	Circulated to Surface
2	Intermediate	10 3/4	12 1/4	5057			ECONOCE M	1190	2711.2	0	Circulated to Surface
3	Intermediate	7 5/8	9 7/8	11190			PREMIUM PLUS	765	1534.6	5203	Calculation
4	Intermediate	7 5/8	9 7/8	11190	5203		PREMIUM PLUS	515	1169.0	0	Circulated to Surface
7	Conventional Production	5 1/2	6 3/4	24655			H	1625	1992.2	5000	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 (ft.)	Packer Depth (ft.)/Type
-----	------------	-------------	-------------------------

N/A

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 11780	24516.0

**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: 12648

Actual maximum pressure (PSIG) during hydraulic fracturing: 12046

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	740,928 BBLS SLK WTR; 37,939,180 LBS PROPPANT	11780	24516

**FORMATION RECORD**

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER	Yes	1728.0	1729.0	Yes	
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	5035.0	5045.0	Yes	
TUBB	No			No	NOT PRESENT
WICHITA ALBANY	No			No	NOT PRESENT
CHERRY CANYON	Yes	5900.0	5912.0	Yes	
WADDELL	No			No	NOT PRESENT
BONE SPRINGS	Yes	8327.0	8341.0	Yes	
WOLFCAMP	Yes	11155.0	11188.0	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 2019-10-16 14:19:45.875] EDL=12700 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well;

take points: 11780-24516 feet

**CASING RECORD :**

KOP @ 11248

SURFACE CMT TOPPED OFF WITH ADDITIONAL 800 SXS CIRC TO SURFACE. 2ND INTERMEDIATE IS SET IN TAPERED HOLE 9 7/8 TO 8916', 8 3/4 TO 11,205.

**TUBING RECORD:**

MORE ECONOMIC TO FLOWBACK UP CASING

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

**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:** 09/20/2019



# CEMENTING REPORT

Operator: Fill in other items.

OPERATOR INFORMATION						
Operator Name:	FELIX ENERGY HOLDINGS		Operator P-5 No.:	265J22		
Cementer Name:	TRANS TEX CEMENTING SERVICES, LLC		Cementer P-5 No.:	864412		
WELL INFORMATION						
District No.:	08		County:	WARD		
Well No.:	6H		API No.:	42-475-37683	Drilling Permit No.:	845069
Lease Name:	UL LEAD KING 344035-16 F		Lease No.:			
Field Name:	Phantom (Wolfcamp)		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.):	17.5	Depth of drilled hole (ft.):	924	Est. % wash-out or hole enlargement:	20	
Size of casing in O.D. (in.):	13.375	Casing weight (lbs/ft) and grade:	54.5 555	No. of centralizers used:	7	
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.):	Top of liner (ft.):		
Hrs. waiting on cement before drill-out:	NA	Calculated top of cement (ft.):	210	Cementing date:		
				Setting depth liner (ft.):		
				924		
				11/2/2018		
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
1	445	class C	SEE REMARKS	592	918	
2	1160	TRANSTEX DIVERSE "C"	SEE REMARKS	2146	3088	
3						
Total	1605			2738	4006	
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 slurry	<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?	YES <input type="checkbox"/> NO <input type="checkbox"/>		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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV	<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?	YES <input type="checkbox"/> NO <input type="checkbox"/>		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						





# 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 HOLDINGS	Operator P-5 No.:	265322
Cementer Name:	TRANS TEX CEMENTING SERVICES, LLC	Cementer P-5 No.:	864412

### WELL INFORMATION

District No.:	58	County:	WARD
Well No.:	6H	API No.:	42-475-37683
Lease Name:	UL LEAD KING 344035-16 F	Drilling Permit No.:	845069
Field Name:	Phantom (Wellcamp)	Lease No.:	
		Field No.:	71052908

### 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.):	924 220	Est. % wash-out or hole enlargement:	20
Size of casing in O.D. (in.):	13 3/8	Casing weight (lbs/ft) and grade:	54.5 355	No. of centralizers used:	7
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):	Top of liner (ft.):	
			924	Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	174	Calculated top of cement (ft.):	0	Cementing date:	
				11/3/2018	

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	800	CLASS C	REMARK 1	1064	1536
2					
3					
Total	800			1064	1536

### 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 sh	<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 <input type="checkbox"/>	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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV	<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 <input type="checkbox"/>	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					

INSTRUCTIONS 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)							

**CLASS C NEAT**  
 cement back to surface 3bbls-12sks

**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.

**CARLOS LAMADRID**  
 Name and title of cementer's representative

**TRANS TEX CEMENTING**  
 Cementing Company

*[Signature]*  
 Signature  
 11/3/2018  
 Date: mo. day yr.

5019 BASIN ST  
 Address MIDLAND, TX 79703  
 City, State, Zip Code

432-694-4900  
 Tel: Area Code Number

**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.

*Fred Hartmann*  
 Typed or printed name of operator's representative

*Drilling Tech*  
 Title

*[Signature]*  
 Signature

1536 16<sup>th</sup> St #500 Denver, CO 80202  
 Address City, State, Zip Code

720-974-2054  
 Tel: Area Code Number

11/3/18  
 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/readac?ext:TacPage?sl=R&app=9&p\\_dlm=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pr=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readac?ext:TacPage?sl=R&app=9&p_dlm=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pr=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

**D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

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

**F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

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



# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

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

## CEMENTING REPORT

### OPERATOR INFORMATION

Operator Name: FELIX ENERGY HOLDINGS II LLC-EBUS	Operator P-5 No.: 265322
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: WARD
Well No.: 6H	API No.: 42-475-37683
Lease Name: UL LEAD KING 344035-16 F	Drilling Permit No.: 845069
Field Name: Phantom (Wolfcamp)	Lease No.:
	Field No.: 71052900

### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production

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:
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	0			0	0

### II. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement shoe  Multiple parallel strings

Drilled hole size (in.): 12.25	Depth of drilled hole (ft.): 5061	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 10.75	Casing weight (lbs/ft) and grade: 45.5 355	No. of centralizers used: 17
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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.): 5057	
Hrs. waiting on cement before drill-out: 28	Calculated top of cement (ft.): 0	Cementing date: 12/23/2018

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	960	ECONOCEM	REMARKS	2400.96	12776.12
2	230	PREMIUM PLUS	REMARKS	310.27	1641.79
3					
Total	1190			2711.23	14417.91

### III. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement/DV tool  Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) 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**

1ST SLURRY: ECONOCEM WITH 3 LB/M KOL-SEAL, 0.125 LB/M POLY-E-FLAKE, 0.55% HR-800  
 2ND SLURRY: PREMIUM PLUS WITH 0.2% HR-800, 3 LB/M KOL-SEAL, 0.125 LB/M POLY-E-FLAKE  
 CIRCULATED 404 SACKS TO SURFACE ON 1ST STAGE  
 SO# 0905361312

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

**ALEXANDER RAMOS SSIII**

**Halliburton**



Name and title of cementer's representative  
 1301 W. Webb St.

Cementing Company  
 Brownfield, Tx, 79316

Signature  
 575-392-0700

12/23/2018

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.

*Fred Hertrmann*

*Drilling Tech*



Typed or printed name of operator's representative

Title

Signature

1536 16th St #500 Denver, CO 80202

720-974-2054

12/23/18

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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

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

- A. What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the 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.
- 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.



# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

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

## CEMENTING REPORT

### OPERATOR INFORMATION

Operator Name: FELIX ENERGY HOLDINGS II	Operator P-5 No.: 265322
Cementer Name: HALLIBURTON ENERGY	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: WARD
Well No.: 6H	API No.: 42-475-37683
Lease Name: UL LEAD KING 344035-16F	Drilling Permit No.: 845069
Field Name: Phantom (Wolf Camp)	Lease No.:
	Field No.: 71052900

### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production

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:
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	0			0	0

### II. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement shoe  Multiple parallel strings

Drilled hole size (in.): 9 7/8" / 8 3/4"	Depth of drilled hole (ft.): 11,205	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 7 5/8"	Casing weight (lbs/ft) and grade: 29.7 HCL80	No. of centralizers used: 31
Tapered string drilled hole size (in.) Upper: 9 7/8" Lower: 8 3/4"	Tapered string depth of drilled hole (ft.) Upper: 8916' Lower: 11,205"	
Tapered string size of casing in O.D. (in.) Upper: 7 5/8" Lower: 7 5/8"	Tapered string casing weight (lbs/ft) and grade Upper: 29.7 HCL-80 Lower: 29.7 HCL-80	Tapered string no. of centralizers used Upper: 31 Lower: 0
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.): 11190	
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): 5203	Cementing date: 1-1-19

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	690 SKS	PREMIUM PLUS	N/A	1444.86	7506.39
2	75 SKS	PREMIUM	N/A	89.7	693.29
3					
Total	765			1534.56	8199.68

### III. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement/DV tool  Multiple parallel strings

Drilled hole size (in.): 9 7/8"	Depth of drilled hole (ft.): DV Tool / 5,200'	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 7 5/8"	Casing weight (lbs/ft) and grade: 29.7 H-80	No. of centralizers used: 31
Tapered string drilled hole size (in.) Upper: 9.875 Lower: 8.75	Tapered string depth of drilled hole (ft.) Upper: 8916 Lower: 11205	
Tapered string size of casing in O.D. (in.) Upper: 7.625 Lower: 7.625	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: 31 Lower: 0
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.): 5203	
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): Surface	Cementing date: 1/1/2019

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	425	PREMIUM PLUS	N/A	1048.9	4705.28
2	90	PREMIUM PLUS	N/A	120.06	544.23
3					
Total	515			1168.96	5249.51

**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**

DV Tool Set @ 5,203'.  
Circulated out and got back 80 bbls. Cement on first circulation after opening DV tool.

**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.

**JOSHUA BUCHANAN**

Halliburton

Name and title of cementer's representative  
2311 S. First St.

Cementing Company  
Artesia, NM, 88210

*Joshua Buchanan*  
Signature  
575-392-0700

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr. 01 02 2018

**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.

*Larremy P. HS*  
Typed or printed name of operator's representative

DSM  
Title

*Larremy P. HS*  
Signature

1530 16th St, Suite 500 Denver  
Address

City, State, Zip Code CO 80202

Tel: Area Code Number 601-381-3087

Date: mo. day yr. 1-2-19

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

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

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
*The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.*
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
*To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&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_rloc=&p_tloc=&p_ploc=&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.



# 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	Operator P-5 No.: 265311
Cementer Name: JOSHUA SELDENRIGHT	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: WARD	
Well No.: 6H	API No.: 42-475-37683	Drilling Permit No.: 845069
Lease Name: UL LEAD KING 344035-16 F	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field 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.): 6.75	Depth of drilled hole (ft.): 24660	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 5.5	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.): 24655	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): 5000	Cementing date: 3/11/2019

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1625	H	SEE REMARKS	1992.25	22731.6
2					
3					
<b>Total</b>	1625			1992.25	22731.6

### 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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):		
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>	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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):		
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

### SLURRY

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



CHRISTI CRADDICK, CHAIRMAN  
RYAN SITTON, COMMISSIONER  
WAYNE CHRISTIAN, COMMISSIONER



DANNY SORRELLS  
DIRECTOR, OIL AND GAS DIVISION  
JEFFREY MORGAN  
DISTRICT DIRECTOR

## RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

**OPERATOR Name:** FELIX ENERGY HOLDINGS II, LLC      **RE: Lease:** UL LEAD KING 344035-16 F  
**Address1:** FELIX ENERGY      **Well No:** 6H  
**Address2:** 1530 16TH ST SUITE 500      **Sec:** 34      **Block:**  
**City:** DENVER      **County:** WARD  
**State:** CO      **Survey Name:** FREEMAN, L / DITMAR,  
MRS C I  
**SWR13EX Application Number:** 40801      **Drilling Permit No:** 845069

### SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UL LEAD KING 344035-16 F ;  
**WELL NUMBER:** 6H has been approved by the Railroad Commission of Texas District Office.

- a. A copy of this approved letter must be kept on location during all phases of drilling and/or plugging operations. Once approved, changes CANNOT be made to the Proposed Casing Program on the original application without additional approval from the Railroad Commission of Texas District Office.
- b. Any substantive modifications to the cement program require prior approval from the Railroad Commission of Texas District Office, and may require re-submission of the SWR 13 (Statewide Rule 13) Alternate Surface Casing Application. Contact the Railroad Commission of Texas District Office for more information.
- c. The tail slurry must be sufficient to fill the Zone of Critical Cement as described in Statewide Rule 13(b)(1)(H)(i). In addition, all cement slurries must be mixed on location as described in Application for Alternate Surface Casing Program.
- d. The casing and cement program shall adhere to the following specifications:

Set 900 feet of surface casing and set 5050 feet of intermediate casing. A multistage tool must be set at a depth of not less than 2000 feet in the intermediate casing. Circulate cement from the multistage tool to the ground surface. If cement does not circulate to surface during the first stage, the multistage tool MUST be opened and cement be circulated from the tool to the surface.

Please notify the Midland District Office immediately if any gas, H<sub>2</sub>S or otherwise, is encountered before surface casing is set. Operator must not drill into or set casing in the Delaware formation.

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(b)(1)(H)(iii) OR AS REQUIRED BY THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE.

You must comply with all other provisions of SWR 13 (Statewide Rule 13) and a representative of the cementing company who performs the cementing job for the protection of usable quality water strata must sign the Form W-15 attesting to the information regarding cementing operations performed; including circulation of cement. (Note: If surface casing is set below the approved depth, this can result in denial of future Statewide Rule 13(b)(1)(H)(i) requests.) A condition of the approved drilling permit requires notification to the Railroad Commission of Texas District Office eight (8) hours prior to the time casing is to be set/cemented in the well. If your exception request was submitted after the subject well has been drilled and completed, the operator may be referred for enforcement action.

This authorization shall expire within five (5) years from the date the Groundwater Protection Determination was issued, or at the expiration of the drilling permit (if the well is not spudded prior to expiration) for the referenced well, whichever occurs first. Furthermore, this authorization supersedes any prior authorizations issued for the referenced well.

This exception is based on information provided when the application was submitted on 10/15/2018 .  
If any information has changed, you must contact the appropriate Railroad Commission of Texas District Office, and submit a new application if applicable. If you have questions, please contact the appropriate Oil and Gas District office.

RRC APPROVAL BY: Kolby Durham

DATE: 10/17/2018

JEFFREY MORGAN

DISTRICT DIRECTOR

Tracking No.: 218480

*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: 06/25/2019
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 845069	
Lease Name UL LEAD KING 344035-16 F	Lease/ID No. 52338	Well No. 6H
County WARD	API No. 42- 475-37683	

**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

07/26/2019

Date

-FOR RAILROAD COMMISSION USE ONLY-

1in/100ft Measured Depth  
Recorded Mode, Composite Log

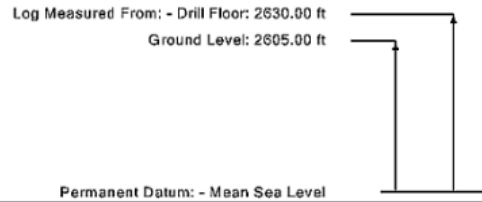


Company: Felix Energy Holdings II, LLC

Well: UL Lead King 344035-16 F 6 H  
Field: PHANTOM (WOLFCAMP)  
County: Ward  
State: Texas  
Country: United States of America

Latitude: 31° 30' 44.483" N	UWID: 42-475-37683
Longitude: 103° 9' 54.595" W	Rig Name: Cactus 137
	Rig Type: Land - Top drive

FL: NAD 27 Texas State Plane, Central Zone, US Feet  
FL1: Northing: 682491.68ft US  
FL2: Easting: 1117617.68ft US



Acquisition Dates:	15-Feb-2019 -- 08-Mar-2019	Other Services:
Log Interval:	383.67(ft) -- 24661.42(ft)	Directional Drilling
Index Types:	Measured Depth	Direction and Inclination (Surveys)
Index Scales:	1:1200 1" / 100'	Rotary Steerable
Depth Source:	Driller's Depth	
Depth Sensor:	3rd Party Depth	
Print Type:	Final	
Spud Date:	17-DEC-2018	



Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Contents

1. Header
2. Disclaimer

**CERTIFICATE OF COMPLIANCE  
 AND TRANSPORTATION AUTHORITY**

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

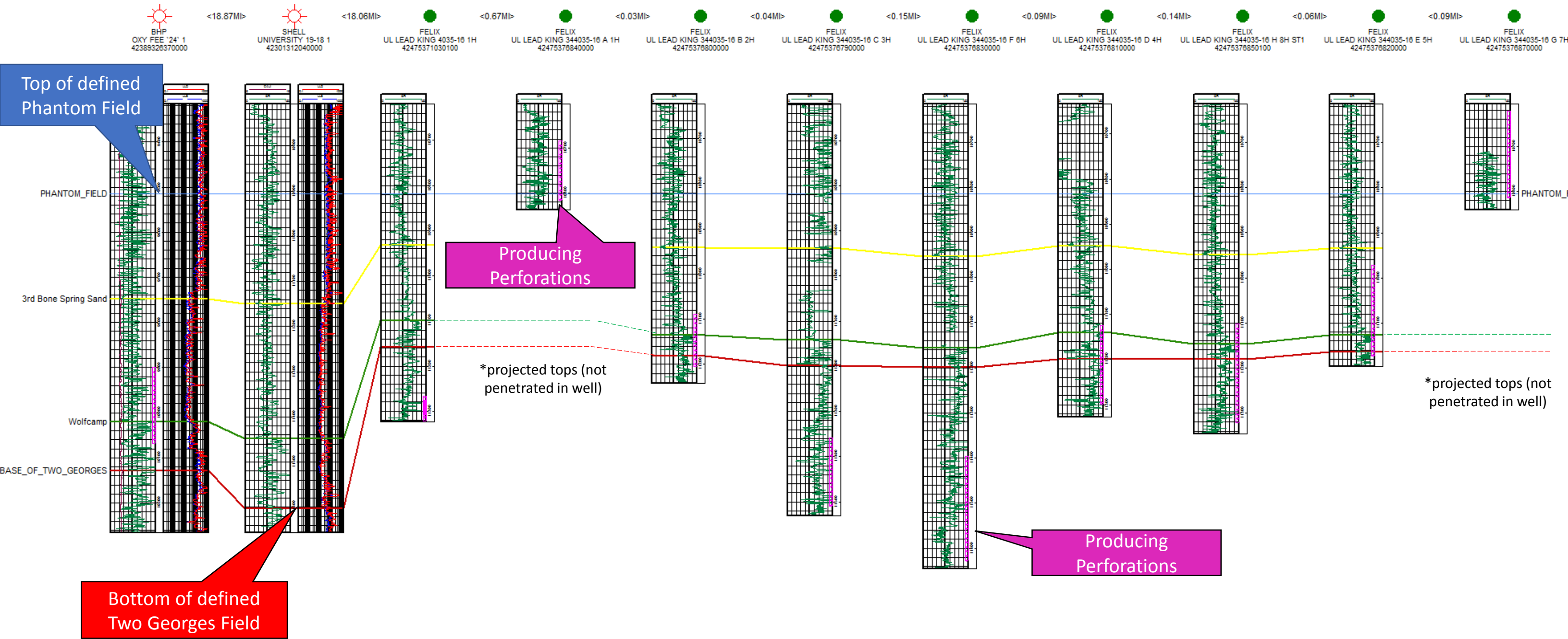
Tracking No.: 218480

1. Field name exactly as shown on proration schedule <b>PHANTOM (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UL LEAD KING 344035-16 F</b>							
3. Current operator name exactly as shown on P-5 Organization Report <b>FELIX ENERGY HOLDINGS II, LLC</b>		4. Operator P-5 no. <b>265322</b>	5. Oil Lse/Gas ID no. <b>52338</b>	6. County <b>WARD</b>	7. RRC district <b>08</b>				
8. Operator address including city, state, and zip code <b>FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202</b>		9. Well no(s) (see instruction E) <b>6H</b>			11. Effective Date <b>06/25/2019</b>				
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)							
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)									
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 <input type="checkbox"/> other well (specify) _____ 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"/> consolidation, unitization, or subdivision (oil lease only)									
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).									
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream		
X	X	TARGA DELAWARE LLC(836022)			0001	100.0			
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).									
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take			
FELIX MIDSTREAM, LLC(265324)						98.0			
ROCKY MOUNTAIN CRUDE OIL LLC(723523)						1.0			
CONCORD CRUDE OIL MARKETING LLC(170262)						1.0			
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>10/25/2019</u>									
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.									
Name of Previous Operator _____				Signature _____					
Name (print) _____				<input type="checkbox"/> <b>Authorized Employee of previous operator</b>		<input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>			
Title _____				Date _____		Phone with area code _____			
<b>16. CURRENT OPERATOR CERTIFICATION.</b> By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.									
<u>FELIX ENERGY HOLDINGS II, LLC</u> Name (print) _____ <u>Felix Admin Services</u> Title _____ <u>heatherd@felix-energy.com</u> E-mail Address (optional) _____				<u>Heather Dahlgren</u> Signature _____ <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b>				<input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>	
				<u>07/26/2019</u> Date _____		<u>(720) 974-2069</u> Phone with area code _____			





# Felix - UL Lead King - Producing Fields



## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 10 June 2016      **GAU Number:** 156003

<b>Attention:</b>	FELIX ENERGY HOLDINGS II, FELIX ENERGY DENVER, CO 80202	<b>API Number:</b>	
<b>Operator No.:</b>	265322	<b>County:</b>	WARD
		<b>Lease Name:</b>	UL Lead King 4035-16
		<b>Lease Number:</b>	
		<b>Well Number:</b>	1H
		<b>Total Vertical Depth:</b>	13000
		<b>Latitude:</b>	31.520299
		<b>Longitude:</b>	-103.157856
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-16; Section-40

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 1050 feet must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

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 06/09/2016. 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

Form GW-2      P.O. Box 12967 Austin, Texas 78771-2967      512-463-2741      Internet address: www.rrc.texas.gov  
Rev. 02/2014

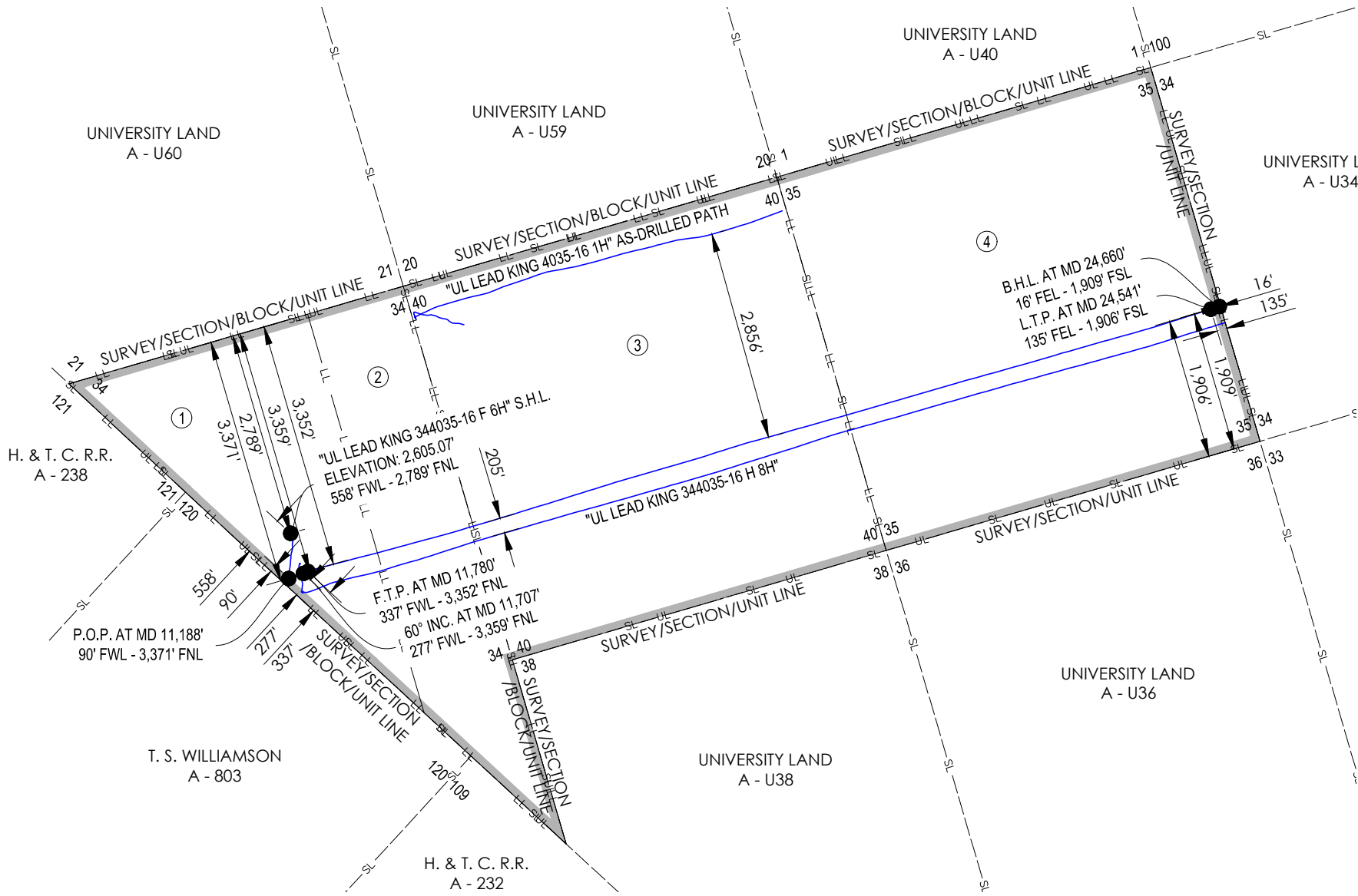
**FELIX ENERGY HOLDINGS II, LLC**  
**WARD COUNTY, TEXAS**  
**S.H.L. 558' FWL - 2,789' FNL, SECTION 34**

**LEGEND**

- UL — UNIT LINE
- - - SL - - - SECTION LINE
- - - LL - - - LEASE LINE
- - - - - PROPOSED WELL PATH
- - - - - NEAREST PROPOSED WELL PATH
- 100' UNIT OFFSET
- S.H.L. SURFACE HOLE LOCATION
- P.O.P. POINT OF PENETRATION
- F.T.P. FIRST TAKE POINT
- T.P. TURNING POINT
- L.T.P. LAST TAKE POINT
- B.H.L. BOTTOM HOLE LOCATION

GRID NORTH (NAD 83)  
 TEXAS - CENTRAL ZONE

- ① PART OF SEC. 34  
219.69 ACRES  
L.F. FREEMAN  
A - 746  
"WHITEHEAD LEASE"
- ② PART OF SEC. 34  
208 ACRES  
MRS. C.J. DITMAR  
A - 1163  
"WHITEHEAD LEASE"
- ③ SEC. 40  
639.67 ACRES  
UNIVERSITY LAND  
A - U39  
"UL LEASE 112219"
- ④ SEC. 35  
640.20 ACRES  
UNIVERSITY LAND  
A - U35  
"UL LEASE 111441"



**OPERATOR:** FELIX ENERGY HOLDINGS II, LLC

**WELL NAME:** UL LEAD KING 344035-16 **WELL NO:** F 6H

**TOPOGRAPHIC & VEGETATION:** FLAT LOCATION WITH LOW LYING BRUSH

**GOOD DRILL SITE:** YES **REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET:** NONE

**BEST ACCESSIBILITY TO LOCATION:** FROM SOUTH

**DISTANCE & DIRECTION**

**FROM HWY JCT OR TOWN:** ±2.8 MILES SOUTHWEST OF PYOTE, TX  
 FROM THE INTERSECTION OF PYOTE STREET AND 3RD STREET, HEAD EAST ON 3RD STREET FOR ±0.3 MILES, TURN RIGHT ONTO ROGERS STREET AND HEAD SOUTH FOR ±0.5 MILES, TURN RIGHT ONTO AVENUE EAST AND HEAD WEST FOR ±0.7 MILES, CONTINUE ONTO INTERSTATE 20 SERVICE ROAD AND CONTINUE WEST FOR ±1.8 MILES, TURN LEFT ONTO EXISTING LEASE ROAD AND HEAD SOUTH FOR ±0.6 MILES, TURN RIGHT AND HEAD WEST FOR ±0.4 MILES AND LOCATION IS ON THE RIGHT.

**SURFACE HOLE LOCATION:**

558' FWL & 2,789' FNL (SEC. 34)  
 GROUND ELEVATION: 2,605.07'  
**NAD 27 TEXAS CENTRAL ZONE**  
 NORTHING: 682491.68, EASTING: 1117617.66  
 LATITUDE: N 31.51235635°, LONGITUDE: W 103.16516520°  
**NAD 83 TEXAS CENTRAL ZONE**  
 NORTHING: 10525067.01, EASTING: 1414083.68  
 LATITUDE: N 31.51248993°, LONGITUDE: W 103.16560534°

**POINT OF PENETRATION:**

90' FWL & 3,371' FNL (SEC. 34)  
**NAD 27 TEXAS CENTRAL ZONE**  
 NORTHING: 681878.21, EASTING: 1117592.21  
 LATITUDE: N 31.51066853°, LONGITUDE: W 103.16519676°

**FIRST TAKE POINT:**

337' FWL & 3,352' FNL (SEC. 34)  
**NAD 27 TEXAS CENTRAL ZONE**  
 NORTHING: 681973.71, EASTING: 1117852.43  
 LATITUDE: N 31.51094921°, LONGITUDE: W 103.16436980°

**LAST TAKE POINT:**

135' FEL & 1,906' FSL (SEC. 35)  
**NAD 27 TEXAS CENTRAL ZONE**  
 NORTHING: 685532.42, EASTING: 1130097.65  
 LATITUDE: N 31.52158070°, LONGITUDE: W 103.12537499°

**BOTTOM HOLE LOCATION:**

16' FEL & 1,909' FSL (SEC. 35)  
**NAD 27 TEXAS CENTRAL ZONE**  
 NORTHING: 685568.06, EASTING: 1130211.18  
 LATITUDE: N 31.52168650°, LONGITUDE: W 103.12501363°

**UNIT CORNERS**

LOCATION	NAD27	
	STATE PLANE TEXAS CENTRAL (32039)	GEOGRAPHIC (4267)
W CORNER SEC.34	N = 684519.41 E = 1114611.45	LAT: 31.51771858° LONG: -103.17497508°
NE CORNER SEC.35 BLK.16	N = 688809.03 E = 1129281.07	LAT: 31.53052976° LONG: -103.12825896°
SE CORNER SEC.35 BLK.16	N = 683740.28 E = 1130761.47	LAT: 31.51670097° LONG: -103.12310105°
SW CORNER SEC.40 BLK.16	N = 680775.95 E = 1120624.22	LAT: 31.50785089° LONG: -103.15538073°
S CORNER SEC.34	N = 678279.10 E = 1121353.40	LAT: 31.50103939° LONG: -103.15283866°



**CONTACT INFORMATION:**  
 Shannon D. Ozment  
 Crafton Tull (10193715)  
 1000 LedgeLawn Dr.  
 Conway, AR 72034

**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. - 0.99979682
- 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.

1000 LedgeLawn Dr  
 Conway, Arkansas 72034



501.328.3316 t 501.328.3325 f  
 www.craftontull.com

REVISION

**"UL LEAD KING 344035-16 F 6H"**

SECTION 34 - 427.69 ACRES  
 SECTION 40, BLOCK 16 - 639.67 ACRES  
 SECTION 35, BLOCK 16 - 640.20 ACRES  
 FINAL AS-DRILLED  
 WARD COUNTY, TEXAS



SCALE: 1" = 2000'  
 PLOT DATE: 07-16-2019  
 CHECKED BY: J.PARKER  
 DRAWN BY: L.DOW  
 APPROVED BY: JWB  
 SHEET NO.: 1 OF 1