



## RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 12/11/2017  
Tracking No.: 173806

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

## OPERATOR INFORMATION

Operator Name: FORGE ENERGY, LLC Operator No.: 276868  
Operator Address: 15727 ANTHEM PKWY STE 501 SAN ANTONIO, TX 78249-0000

## WELL INFORMATION

API No.: 42-495-33769 County: WINKLER  
Well No.: 1H RRC District No.: 08  
Lease Name: UL 21 YELLOWTAIL Field Name: PHANTOM (WOLFCAMP)  
RRC Lease No.: 49015 Field No.: 71052900  
Location: Section: 20, Block: 21, Survey: UNIVERSITY LANDS, Abstract:  
  
Latitude: 31.71211 Longitude: -103.24840  
This well is located 5.8 miles in a SW  
direction from WINK,  
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: 04/23/2017  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	12/01/2016	820434
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

## COMPLETION INFORMATION

Spud date: 02/02/2017 Date of first production after rig released: 04/23/2017  
Date plug back, deepening, recompletion, or drilling operation commenced: 02/02/2017 Date plug back, deepening, recompletion, or drilling operation ended: 03/16/2017  
Number of producing wells on this lease in this field (reservoir) including this well: 1 Distance to nearest well in lease & reservoir (ft.): 0.0  
Total number of acres in lease: 1281.40 Elevation (ft.): 2764 GR  
Total depth TVD (ft.): 12002 Total depth MD (ft.): 21834 21843  
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): 348.6  
Is Cementing Affidavit (Form W-15) attached? Yes  
Recompletion or reclass? No Multiple completion? No  
Type(s) of electric or other log(s) run: Gamma Ray (MWD)  
Electric Log Other Description:  
Location of well, relative to nearest lease boundaries Off Lease : No  
of lease on which this well is located: 359.0 Feet from the West Line and  
200.0 Feet from the South Line of the  
UL 21 YELLOWTAIL Lease.

## FORMER FIELD (WITH RESERVOIR) &amp; GAS ID OR OIL LEASE NO.

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
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PACKET: N/A

W2: N/A

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

**GAU Groundwater Protection Determination**      **Depth (ft.):** 700.0      **Date:** 11/28/2016  
**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	835			C	690	1204.0	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5070			C	1315	3464.9	0	Circulated to Surface
3	Intermediate	7	8 3/4	12211			H	830	1661.0	5070	Cement Evaluation Log

**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
1	4 1/2	6	10797	21832	H	790	966.0	10797	Cement Evaluation Log

**TUBING RECORD**

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
N/A			/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 12290	21802.0

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

**Was hydraulic fracturing treatment performed?** Yes  
**Is well equipped with a downhole actuation sleeve?** Yes      **If yes, actuation pressure (PSIG):** 4400.0  
**Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:** 6600      **Actual maximum pressure (PSIG) during hydraulic fracturing:** 9903  
**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.)
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## FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W COLBY-QUEEN	Yes	707.0	707.0	Yes	
YATES	Yes	3200.0	3200.0	Yes	ESTIMATE, NOT LOGGED
QUEEN-SEVEN RIVERS	Yes	3400.0	3400.0	Yes	ESTIMATE, NOT LOGGED
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT	Yes	4400.0	4400.0	Yes	ESTIMATE, NOT LOGGED
DELAWARE	Yes	4800.0	4800.0	Yes	ESTIMATE, NOT LOGGED
GLORIETA	Yes	5000.0	5000.0	Yes	ESTIMATE, NOT LOGGED
CLEARFORK	Yes	5600.0	5600.0	Yes	ESTIMATE, NOT LOGGED
WICHITA ALBANY	Yes	6200.0	6200.0	Yes	ESTIMATE, NOT LOGGED
BRUSHY CANYON	Yes	6850.0	6850.0	Yes	ESTIMATE, NOT LOGGED
CHERRY CANYON	Yes	7300.0	7300.0	Yes	ESTIMATE, NOT LOGGED
CANYON	Yes	5980.0	5982.0	Yes	
BONE SPRINGS	Yes	7412.0	7414.0	Yes	
MONTOYA	Yes	11748.0	11807.0	Yes	
WADDELL	Yes	10300.0	10300.0	Yes	ESTIMATE, NOT LOGGED
WOLFCAMP	Yes	11000.0	11000.0	Yes	ESTIMATE, NOT LOGGED
ATOKA	Yes	11759.0	11822.0	Yes	
STRAWN	No			No	BELOW TVD
PENNSYLVANIAN	No			No	BELOW TVD
MISSISSIPPIAN	No			No	BELOW TVD
DEVONIAN	No			No	BELOW TVD
SILURIAN	No			No	BELOW TVD
FUSSELMAN	No			No	BELOW TVD
ELLENBURGER	No			No	BELOW TVD

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? Yes

Is the completion being downhole commingled (SWR 10)? No

## REMARKS

**RRC REMARKS**

**PUBLIC COMMENTS:**

[RRC Staff 2017-07-19 12:15:00.17] EDL=9512 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well

**CASING RECORD :**

**TUBING RECORD:**

6 MONTH EXCEPTION PER FIELD RULES

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

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

KOP 11315'

**POTENTIAL TEST DATA:**

**OPERATOR'S CERTIFICATION**

**Printed Name:** Katrina Boyd

**Title:** Operations Assistant

**Telephone No.:** (432) 524-1301

**Date Certified:** 10/25/2017



# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

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

## CEMENTING REPORT

OPERATOR INFORMATION	
Operator Name: FORGE ENERGY LLC-EBUS-	Operator P-5 No.: 276868
Cementor Name: HALLIBURTON ENERGY SERVICES	Cementor P-5 No.: 347151

WELL INFORMATION	
District No.: 08	County: WINKLER
Well No.: # 1H	API No.: 495-33769
Lease Name: UL 21 YELLOWTAIL	Drilling Permit No.: 820434
Field Name: PHANTOM (WOLFCAMP)	Lease No.:
	Field No.: 71052900

I. CASING CEMENTING DATA			
Type of casing:	<input type="checkbox"/> Conductor	<input checked="" type="checkbox"/> Surface	<input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production
Drilled hole size (in.):	17 1/2	Depth of drilled hole (ft.):	835
Size of casing in O.D. (in.):	13 3/8	Casing weight (lbs/ft) and grade:	Est. % wash-out or hole enlargement: 25
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.):	No. of centralizers used: 7
	If no for surface casing, explain in Remarks.	835	Top of liner (ft.):
Hrs. waiting on cement before drill-out:	0	Calculated top of cement (ft.):	Setting depth liner (ft.):
		SURFACE	Cementing date: 2/3/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	505	C	3 LBM KOL-SEAL	956	1376
2	185	C	1 % CALCIUM CHLORIDE	248	298
3					
Total	690			1204	1674

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:		
Tapered string size of casing in O.D. (in.)	Tapered string casing weight (lbs/ft) and grade	Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

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





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## CEMENTING REPORT

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

### OPERATOR INFORMATION

Operator Name: FORGE ENERGY LLC-EBUS	Operator P-5 No.: 276868
Cementor Name: HALLIBURTON	Cementor P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: 1H	API No.: 495-33769	Drilling Permit No.: 820434
Lease Name: UL YELLOWTAIL	Lease No.:	
Field Name: PHANTOM (WOLFCAMP)	Field No.: 71052900	

### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production

Drilled hole size (in.): 12 1/4      Depth of drilled hole (ft.): 5080      Est. % wash-out or hole enlargement: 25

Size of casing in O.D. (in.): 9 5/8      Casing weight (lbs/ft) and grade:      No. of centralizers used: 37

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.): 5070      Top of liner (ft.):

Hrs. waiting on cement before drill-out: 10      Calculated top of cement (ft.): 0      Setting depth liner (ft.):

Cementing date: 2/7/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1160	c	SEE REMARKS	3258.44	4484.0007
2	155	c	SEE REMARKS	206.46	596.12935
Total	1315			3464.9	5080.13005

### II. CASING CEMENTING DATA

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

Drilled hole size (in.):      Depth of drilled hole (ft.):      Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):      Casing weight (lbs/ft) and grade:      No. of centralizers used:

Tapered string drilled hole size (in.)      Tapered string depth of drilled hole (ft.)

Upper:      Lower:      Upper:      Lower:

Tapered string size of casing in O.D. (in.)      Tapered string casing weight (lbs/ft) and grade      Tapered string no. of centralizers used

Upper:      Lower:      Upper:      Lower:      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	0			0	0

### III. CASING CEMENTING DATA

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

Drilled hole size (in.):      Depth of drilled hole (ft.):      Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):      Casing weight (lbs/ft) and grade:      No. of centralizers used:

Tapered string drilled hole size (in.)      Tapered string depth of drilled hole (ft.)

Upper:      Lower:      Upper:      Lower:

Tapered string size of casing in O.D. (in.)      Tapered string casing weight (lbs/ft) and grade      Tapered string no. of centralizers used

Upper:      Lower:      Upper:      Lower:      Upper:      Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?  YES  NO      Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:      Calculated top of cement (ft.):      Cementing date:

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

**CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON**

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

**REMARKS**

SO# 0903825457 CEMENT SLURRY ADDITIVES: SLURRY #1: CA-661 5%, SA-1015 0.10%, FE-2 0.10%, D-AIR 5000 0.25 LBM. SLURRY #2: NO ADDITIVES. CIRCULATED 131 BBLs / 262 SKS OF CEMENT TO SURFACE.

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

**STAN DURHAM / SERVICE SUPERVISOR**

Halliburton

Name and title of cementer's representative  
6155 W. Murphy St.

Cementing Company

Signature

Odessa, TX, 79763

432-571-8600

2/7/2017

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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

Typical or printed name of operator's representative  
Katrina Boyd

Ops Assistant

Katrina Boyd

Address  
15727 Anthem Pkwy # 501

San Antonio

432-219-3038

10/18/17

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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

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

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



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Rev. 08/2014

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

### CEMENTING REPORT

#### OPERATOR INFORMATION

Operator Name: FORGE ENERGY LLC-EBUS-	Operator P-5 No.: 276868
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

#### WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: 1H	API No.: 495-33769	Drilling Permit No.: 820434
Lease Name: UL 21 YELLOWTAIL	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 checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production		
Drilled hole size (in.): 8 3/4	Depth of drilled hole (ft.): 12241	Est. % wash-out or hole enlargement: 25
Size of casing in O.D. (in.): 7	Casing weight (lbs/ft) and grade: 32# HCP-110	No. of centralizers used: 63
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.): 12211	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 24	Calculated top of cement (ft.):	Cementing date: 2/20/2017

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	360	H	0.70 LBM HR-601	1099	7119
2	470	H	0.30% HALAD (R) 9 0.0250% SA-1015 0.20%HR-601	562	3621
3					
<b>Total</b>	830			1661	10740

#### II. CASING CEMENTING DATA

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

#### SLURRY

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

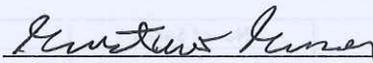
**REMARKS**

S.O.# 0903838287

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.

**GUSTAVO GARZA SERVICE SUPERVISOR**

Halliburton



Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

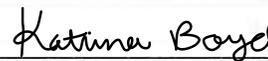
2/20/2017

Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

KATRINA BOYD

OPS ASSISTANT



Typed or printed name of operator's representative

Title

Signature

10999 IH 10 WEST, SUITE 900

SAN ANTONIO, TX 78230

210-478-5950

7/18/17

Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

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

- 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: FORGE ENERGY LLC	Operator P-5 No.: 276868
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

#### WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: 1H	API No.: 495-33769	Drilling Permit No.: 820434
Lease Name: UL 21 YELLOWTAIL	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 checked="" type="checkbox"/> Liner <input type="checkbox"/> Production		
Drilled hole size (in.): 6	Depth of drilled hole (ft.): 21843	Est. % wash-out or hole enlargement: 25
Size of casing in O.D. (in.): 4 1/2	Casing weight (lbs/ft) and grade: 13.5# HCP-110	No. of centralizers used: 23
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.): 21832	Top of liner (ft.): 10797
		Setting depth liner (ft.): 21832
Hrs. waiting on cement before drill-out: 0	Calculated top of cement (ft.):	Cementing date: 03/14/2017

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	790	H	SEE REMARKS	966	10703
2					
3					
Total	790			966	10703

#### II. CASING CEMENTING DATA

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

#### SLURRY

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

#### III. CASING CEMENTING DATA

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

#### SLURRY

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

**CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON**

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

**REMARKS**

CEMENT ADDS.- .40% HALAD-344, .45% HR-601

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.

**Richard Jones - Service Supervisor**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

03/14/2017

Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

**KATRINA BOYD**

**OPS ASSISTANT**

*Katrina Boyd*

Typed or printed name of operator's representative

Title

Signature

10999 IH 10 WEST, SUITE 900

SAN ANTONIO, TX 78230

210 478 5950

7/18/2017

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.

Tracking No.: 173806

*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: <b>FORGE ENERGY, LLC</b>	District No. <b>08</b>	Completion Date: <b>04/23/2017</b>
Field Name <b>PHANTOM (WOLFCAMP)</b>	Drilling Permit No. <b>820434</b>	
Lease Name <b>UL 21 YELLOWTAIL</b>	Lease/ID No. <b>49015</b>	Well No. <b>1H</b>
County <b>WINKLER</b>	API No. <b>42- 495-33769</b>	

**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). \_\_\_\_\_

Katrina Boyd  
 Signature  
FORGE ENERGY, LLC  
 Name (print)

Operations Assistant  
 Title  
(432) 524-1301      07/18/2017  
 Phone      Date

-FOR RAILROAD COMMISSION USE ONLY-



# Gamma Ray

## Final Print

LWD

Recorded  
MD

1:240

Company : <b>Forge Energy</b> Well : <b>UL 21 Yellowtail 1H</b> Field : <b>Phatom (Wolfcamp)</b> County : <b>Winkler</b> State : <b>Texas</b> Country : <b>United States</b>	Company : <b>Forge Energy</b> Well : <b>UL 21 Yellowtail 1H</b> Field : <b>Phatom (Wolfcamp)</b> Rig : <b>H&amp;P 602</b> County : <b>Winkler</b> State : <b>Texas</b> Country : <b>United States</b> API # : <b>42-495-33769</b>					
	Location	Latitude : <b>31° 42' .6" N</b>				
		Longitude : <b>103° 14' .25" W</b>				
		+N / -S : <b>755,796.86 ft</b>				
	+E / -W : <b>1,093,591.39 ft</b>					
Other Services : <b>Directional, Temperature, Short Radius Inclination and Rotary Steerable System.</b>						
Permanent Datum : <b>Mean Sea Level</b>	Elevation : <b>0 ft</b>	<b>above Mean Sea Level</b>	Elevation	K.B. : <b>Top Drive</b>		
Log Measured From : <b>Drill Floor</b>	Elevation : <b>2789 ft</b>	<b>above Perm. Datum</b>		D.F. : <b>2789 ft</b>		
Depth Reference : <b>Driller's Pipe Tally</b>				G.L. : <b>2764 ft</b>		
Depth Logged : <b>5070 ft</b>	To : <b>21817 ft</b>	Total Depth MD : <b>21843 ft</b>		W.D. : <b>N / A</b>		
Date Logged : <b>08-Feb-17</b>	To : <b>11-Mar-17</b>	Total Depth TVD : <b>11963 ft</b>				
Borehole Record			Casing Record			
Hole Size (in.)	From (MD, ft)	To (MD, ft)	Casing Size (in.)	Weight (lbm/ft)	From (MD, ft)	To (MD, ft)
24.000	0	105	13.375	68.00	0	835
17.500	105	835	9.625	40.00	0	5070
12.250	835	5080	7.000	32.00	0	12211
8.750	5080	12231				
6.000	12231	21843				
WFT Job Number	<b>12297762</b>	WFT Base	<b>Midland</b>			

### DISCLAIMER

In interpreting, communicating or providing information and/or making recommendations, either written or oral, based upon data, samples or information, or upon inferences from measurements and empirical relationships and assumptions (collectively "Analytical Services"), Contractor will give Company the benefit of Contractor's best judgment based on its experience and will perform all such Analytical Service in accordance with standard industry practices. Contractor makes no other warranty with respect to the Analytical Services, hereby disclaiming any warranty as to the adequacy, sufficiency or completeness of any data, reports, estimates, analyses, interpretations, modeling, predictions, opinions or recommendations provided in connection with the Analytical Services, all of which shall be considered advisory only. Any interpretation or test or other data, and any recommendations or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ.

**ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE ANALYTICAL SERVICES WILL BE AT THE SOLE RISK OF COMPANY. THE ANALYTICAL SERVICES, THEREFORE, SHOULD NOT BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION, OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS BASED ON THE ANALYTICAL SERVICES.**

### RUN SUMMARY

Run Number	02	03	04	05	06
Bit Type	PDC	PDC	Tricone	PDC	PDC
Bit Size	8.750	8.750	8.750	8.750	8.750
	in.				

**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.: 173806

1. Field name exactly as shown on proration schedule <b>PHANTOM (WOLFCAMP)</b>		2. Lease name as shown on proration schedule <b>UL 21 YELLOWTAIL</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>FORGE ENERGY, LLC</b>		4. Operator P-5 no. <b>276868</b>	5. Oil Lse/Gas ID no. <b>49015</b>	6. County <b>WINKLER</b>	7. RRC district <b>08</b>		
8. Operator address including city, state, and zip code <b>15727 ANTHEM PKWY STE 501 SAN ANTONIO, TX 78249</b>		9. Well no(s) (see instruction E) <b>1H</b>			11. Effective Date <b>04/23/2017</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	
WESTERN REFINING COMPANY, L.P.(912206)						50.0	
TARGA DELAWARE LLC(836022)						50.0	
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>12/11/2017</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"/> Authorized Employee of previous operator		<input type="checkbox"/> Authorized agent of previous operator (see instruction G)	
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.							
FORGE ENERGY, LLC				Katrina Boyd			
Name (print) _____				Signature _____			
Operations Assistant				<input checked="" type="checkbox"/> Authorized Employee of current operator		<input type="checkbox"/> Authorized agent of current operator (see instruction G)	
Title _____				Date <u>07/18/2017</u>		Phone with area code <u>(432) 524-1301</u>	
E-mail Address (optional) <u>kboyd@forgeenergy.com</u>				Date _____		Phone with area code _____	



RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name: Forge Energy, LLC
Operator P-5 No.: 276868
Operator Address: 10999 IH 10 West, Suite 900; San Antonio, TX 78230

SECTION II. WELL INFORMATION

Table with well information: District No., Well No., Total Lease Acres, Lease Name, Field Name, County, API No., Drilling Permit No., Lease No., Field No., and Purpose of Filing (Drilling Permit Application or Completion Report).

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below.

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

Table listing wells with columns: RRC ID No. or Lease No., Well No., H-Directional/D-Directional/V-Vertical, Lease Name, API No., Acres Assigned, SWR 38 Except. (Y/N), and Operator Name and Operator No.

Summary table for Section III: Total Well Count, Total Assigned Horiz. Acreage, Total Remaining Horiz. Acreage, Total Assigned Vert./Dir. Acreage, Total Remaining Vert./Dir. Acreage, and Total Assigned Acreage.

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

Empty box for remarks or purpose of filing.

Attach Additional Pages As Needed. [X] No additional pages [ ] Additional Pages: \_\_\_\_ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature: K. Boyd
Name and title: Katrina Boyd Operations Assistant
Email: kboyd@forgenergy.com
Address: 10999 IH 10 West, Suite 900 San Antonio TX 78230
Tel: 524-1301
Date: 4/25/2017

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 28 November 2016      **GAU Number:** 163687

**Attention:** FORGE ENERGY, LLC  
10999 IH 10 WEST SUITE 900  
SAN ANTONIO, TX 78230

**Operator No.:** 276868

**API Number:**  
**County:** WINKLER  
**Lease Name:** UL 21 YELLOWTAIL  
**Lease Number:**  
**Well Number:** 1H  
**Total Vertical Depth:** 12500  
**Latitude:** 31.712112  
**Longitude:** -103.248402  
**Datum:** NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-21; Section-20

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 Santa Rosa, which is estimated to occur at a depth of 700 feet, must be protected.

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

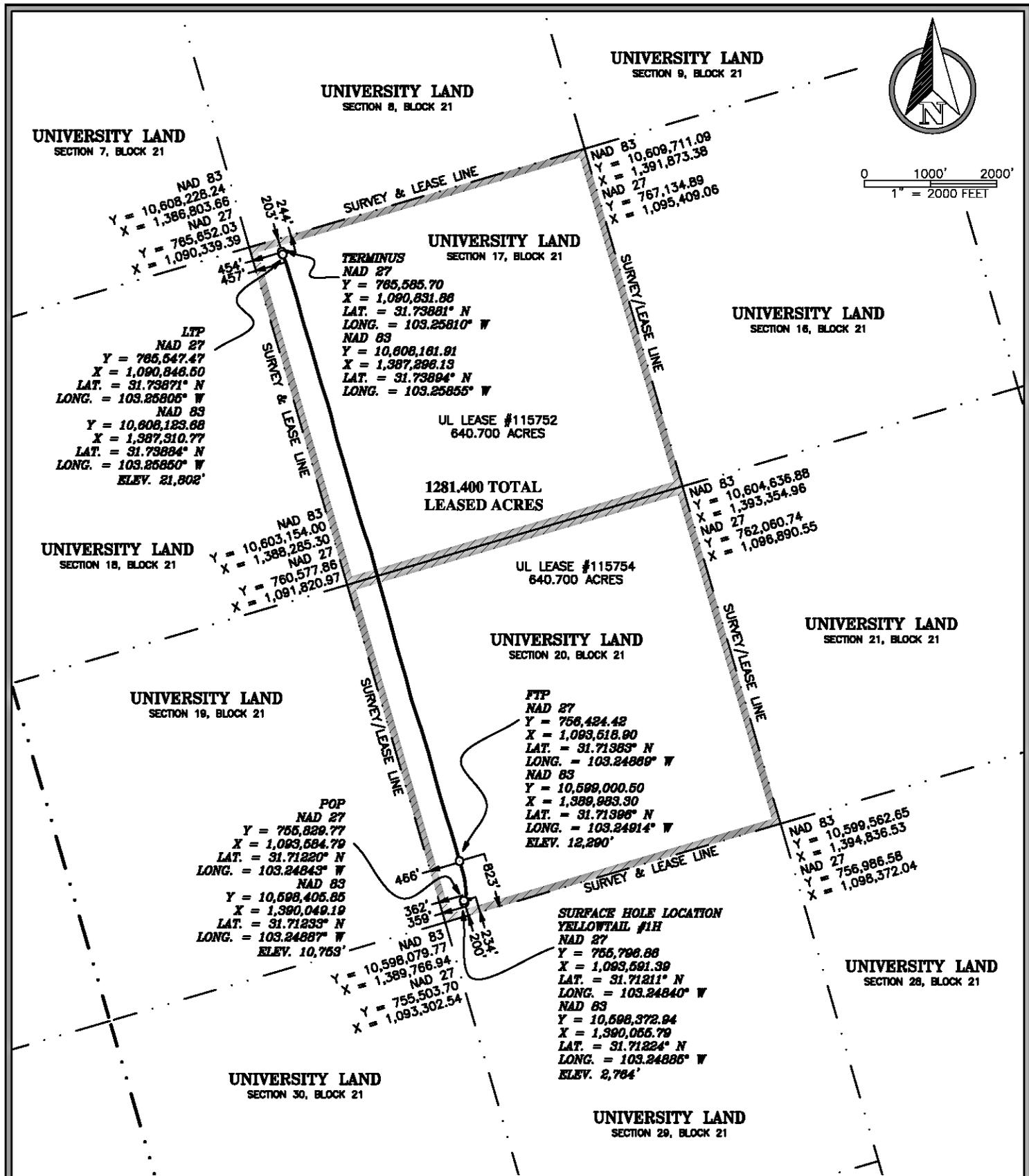
This recommendation is applicable for all wells drilled in this Sec 20.

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 11/22/2016. 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



**GENERAL NOTES**

- COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE 4203
- VERTICAL DATUM IS NAVD 88
- LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
- AREA, DISTANCES, AND COORDINATES ARE "GRID".
- UNITS ARE UNITED STATES SURVEY FOOT.
- ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

**DRIVING DIRECTIONS TO LOCATION:**

FROM THE INTERSECTION OF FARM TO MARKET 1232 AND FM 201, HEAD SOUTHWEST ON FM 201 FOR 4.7 MILES THEN TURN LEFT (SOUTH) ONTO LEASE ROAD FOR 1.1 MILES. LOCATION WILL BE SOUTH APPROX 0.85 MILES IN FIELD.

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT SURFACE LOCATION AS STAKED ON THE GROUND.

MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF TEXAS NO. 6445



**PLAT OF:**  
**AN AS-DRILLED WELL LOCATION FOR:**  
**FORGE ENERGY**

**UL 21 YELLOWTAIL 1H**

SITUATED IN THE UNIVERSITY LAND, SECTION 20, BLOCK 21, THE UNIVERSITY LAND, SECTION 17, BLOCK 21, AND BEING APPROXIMATELY 5.8 MILES SOUTHWEST OF WINK IN WINKLER COUNTY, TEXAS.

DATE: 5-5-2017  
DRAWN BY: AP/RP/CH/AI  
CHECKED BY: DH/CH  
FIELD CREW: BK/DN  
PROJECT NO: 2016100923  
SCALE: 1" = 2000'  
SHEET: 1 OF 1  
REVISION: NO

**FSC INC**  
SURVEYORS+ENGINEERS  
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