



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	
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:		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) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
PACKET:	N/A		

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 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 Hole		Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size (in.)	Size (in.)	Depth (ft.)	Stage Tool	Stage Shoe		Amount (sacks)	Volume (cu. ft.)	Cement (ft.)	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.)

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W	Yes	707.0	707.0	Yes	
COLBY-QUEEN	Yes	3200.0	3200.0	Yes	ESTIMATE, NOT LOGGED
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	Yes	4400.0	4400.0	Yes	ESTIMATE, NOT LOGGED
HOLT	Yes	4800.0	4800.0	Yes	ESTIMATE, NOT LOGGED
DELAWARE	Yes	5000.0	5000.0	Yes	ESTIMATE, NOT LOGGED
GLORIETA	Yes	5600.0	5600.0	Yes	ESTIMATE, NOT LOGGED
CLEARFORK	Yes	6200.0	6200.0	Yes	ESTIMATE, NOT LOGGED
WICHITA ALBANY	Yes	6850.0	6850.0	Yes	ESTIMATE, NOT LOGGED
BRUSHY CANYON	Yes	7300.0	7300.0	Yes	ESTIMATE, NOT LOGGED
CHERRY CANYON	Yes	5980.0	5982.0	Yes	
CANYON	Yes	7412.0	7414.0	Yes	
BONE SPRINGS	Yes	11748.0	11807.0	Yes	
MONTOYA	Yes	10300.0	10300.0	Yes	ESTIMATE, NOT LOGGED
WADDELL	Yes	11000.0	11000.0	Yes	ESTIMATE, NOT LOGGED
WOLFCAMP	Yes	11759.0	11822.0	Yes	
ATOKA	No			No	BELOW TVD
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	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2017-07-19 12:15:00.17] EDL=9512 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b> 6 MONTH EXCEPTION PER FIELD RULES	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b> KOP 11315'	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Katrina Boyd	<b>Title:</b> Operations Assistant
<b>Telephone No.:</b> (432) 524-1301	<b>Date Certified:</b> 10/25/2017





# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

### OPERATOR INFORMATION

Operator Name: 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 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: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production  
Drilled hole size (in.): 17 1/2 Depth of drilled hole (ft.): 835 Est. % wash-out or hole enlargement: 25  
Size of casing in O.D. (in.): 13 3/8 Casing weight (lbs/ft) and grade: No. of centralizers used: 7  
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.): 835 Top of liner (ft.):  
Setting depth liner (ft.):  
Hrs. waiting on cement before drill-out: 0 Calculated top of cement (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: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings  
Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:  
Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:  
Tapered string drilled hole size (in.) Tapered string depth of drilled hole (ft.)  
Upper: Lower: Upper: Lower:  
Tapered string size of casing in O.D. (in.) Tapered string casing weight (lbs/ft) and grade Tapered string no. of centralizers used  
Upper: Lower: Upper: Lower:  
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO Setting depth shoe (ft.):  
Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

#### SLURRY

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:  
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

S.O.# 09093821942 CEMENT TO SURFACE 205 SKS 69 BBLS

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

*Gustavo Garza*

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

2/3/2017

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

*Katrina Boyd*

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.

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





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Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

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

District No.: 08		County: WINKLER	
Well No.: 1H		API No.: 495-33769	
Lease Name: UL 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 type="checkbox"/> Surface	<input checked="" type="checkbox"/> Intermediate
	<input type="checkbox"/> Liner	<input type="checkbox"/> Production	
Drilled hole size (in.):	12 1/4	Depth of drilled hole (ft.):	5080
Size of casing in O.D. (in.):	9 5/8	Casing weight (lbs/ft) and grade:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		No. of centralizers used: 37	
If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):	5070
Hrs. waiting on cement before drill-out: 10		Calculated top of cement (ft.):	0
		Top of liner (ft.):	
		Setting depth liner (ft.):	
		Cementing date:	2/7/2017

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
3					
Total	1315			3464.9	5080.13005

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

Odessa, TX, 79763

Signature

432-571-8600

2/7/2017

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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*Katrina Boyd*

*Ops Assistant*

*Katrina Boyd*

Typed or printed name of operator's representative

Title

Signature

15727 Anthem Pkwy #501

San Antonio

432-219-3638

10/18/17

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.

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
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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.





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

### SLURRY

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

### III. CASING CEMENTING DATA

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

### SLURRY

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



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

REMARKS
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

*Gustavo Garza*

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

*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

7/18/17

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

## CEMENTING REPORT

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

### 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: ☐ Conductor ☐ Surface ☐ Intermediate ☒ Liner ☐ 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? ☐ YES ☒ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.):

Top of liner (ft.): 10797

21832

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: ☐ 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

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

Phone

07/18/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-





# CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

# P-4

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>
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>		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date <b>04/23/2017</b>
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)				
<b>a. Change of:</b> <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____				
-- OR --				
<b>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____ <b>Due to:</b> <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <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
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"/> <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.				
FORGE ENERGY, LLC		Katrina Boyd		
Name (print)		Signature		
Operations Assistant		<input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b>		
Title		Date		
kboyd@forenergy.com		07/18/2017		
E-mail Address (optional)		Phone with area code		
		(432) 524-1301		

432	524-1301	4/25/2017
Tel: Area Code	Number	Date: mo. day yr.



## 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.

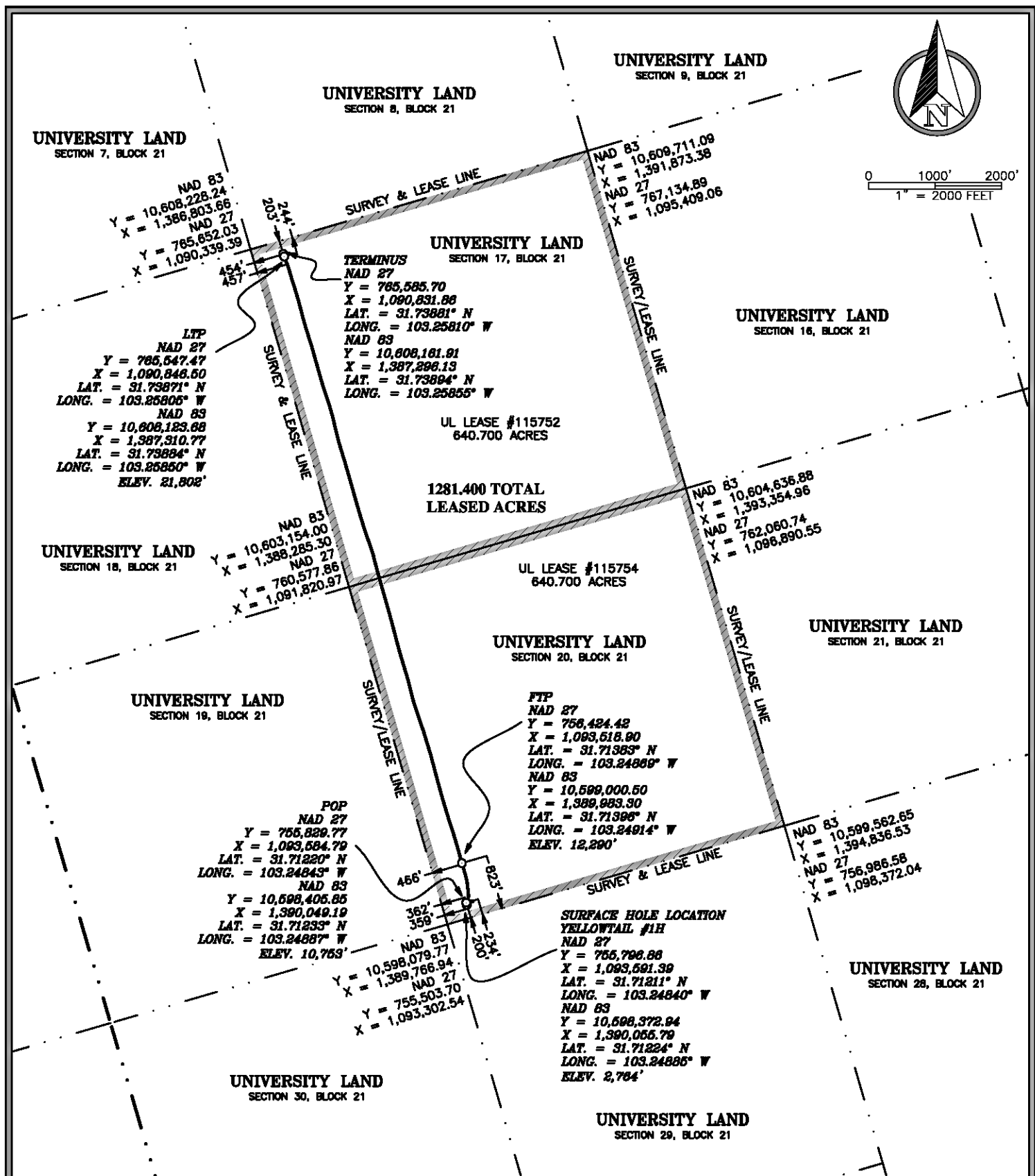
Please send Gamma/Porosity log of this well when it is available.

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



#### 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".

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.

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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