



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 05/07/2018
Tracking No.: 184608

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.: 42-475-37120		County: WARD	
Well No.: 1H		RRC District No.: 08	
Lease Name: UL 20 TENSLEEP		Field Name: PHANTOM (WOLFCAMP)	
RRC Lease No.: 49659		Field No.: 71052900	
Location: Section: 47, Block: 20, Survey: UNIVERSITY LANDS, Abstract:			
Latitude: 31.643533		Longitude: -103.275684	
This well is located 9 miles in a SW direction from WINK, which is the nearest town in the county.			

FILING INFORMATION			
Purpose of filing: Initial Potential			
Type of completion: New Well			
Well Type: Producing		Completion or Recompletion Date: 09/06/2017	
Type of Permit		Date	Permit No.
Permit to Drill, Plug Back, or Deepen		05/02/2017	817618
Rule 37 Exception			
Fluid Injection Permit			
O&G Waste Disposal Permit			
Other:			

COMPLETION INFORMATION			
Spud date: 09/09/2016		Date of first production after rig released: 09/06/2017	
Date plug back, deepening, recompletion, or drilling operation commenced: 09/09/2016		Date plug back, deepening, recompletion, or drilling operation ended: 07/18/2017	
Number of producing wells on this lease in this field (reservoir) including this well: 7		Distance to nearest well in lease & reservoir (ft.): 137.0	
Total number of acres in lease: 1281.40		Elevation (ft.): 2760 GR	
Total depth TVD (ft.): 11976		Total depth MD (ft.): 16515	
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): 214.2	
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:		495.0 Feet from the West Line and 190.0 Feet from the South Line of the UL 20 TENSLEEP Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
W2:	N/A		

PACKET:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth (ft.):	300.0	Date: 08/10/2016
SWR 13 Exception	Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 10/09/2017		Production method: Flowing
Number of hours tested: 24		Choke size: 18/64
Was swab used during this test? No		Oil produced prior to test: 7357.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 452.00		Gas (MCF): 449
Gas - Oil Ratio: 993		Flowing Tubing Pressure: 0.00
Water (BBLS): 2578		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 452.0		Gas (MCF): 449
Oil Gravity - API - 60.: 44.0		Casing Pressure: 3179.00
Water (BBLS): 2578		

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.)
1	Surface	13 3/8	17 1/2	520				C	540	732.0	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5076				C	1350	3762.3	25	Calculation
3	Intermediate	7	8 3/4	11758				C/H	900	1662.0	5050	Calculation

LINER RECORD										
Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By	
1	4 1/2	6	11073	16508	H	380	457.0	11073	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 12477	16282.0

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): 9470.0			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 7576			
Actual maximum pressure (PSIG) during hydraulic fracturing: 9821			
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	Yes	798.0	798.0	Yes	ESTIMATE
BELL CANYON	Yes	5092.0	5093.0	Yes	
YATES	No			No	NOT PRESENT IN DELAWARE BASIN
SEVEN RIVERS	No			No	NOT PRESENT IN DELAWARE BASIN
QUEEN	No			No	NOT PRESENT IN DELAWARE BASIN
GLORIETA	No			No	NOT PRESENT IN DELAWARE BASIN
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	No			No	NOT PRESENT IN DELAWARE BASIN
HOLT	No			No	NOT PRESENT IN DELAWARE BASIN
CLEARFORK	No			No	NOT PRESENT IN DELAWARE BASIN
DELAWARE	No			No	NOT PRESENT IN DELAWARE BASIN
TUBB	No			No	NOT PRESENT IN DELAWARE BASIN
WICHITA ALBANY	No			No	NOT PRESENT IN DELAWARE BASIN
CHERRY CANYON	Yes	6008.0	6009.0	Yes	
BRUSHY CANYON	Yes	7403.0	7405.0	Yes	
WADDELL	No			No	BELOW TVD
BONE SPRINGS	Yes	8465.0	8467.0	Yes	
FIRST BONE SPRING CARBONATE	Yes	8652.0	8654.0	Yes	
FIRST BONE SPRING SAND	Yes	9536.0	9539.0	Yes	
SECOND BONE SPRING	Yes	10040.0	10043.0	Yes	
SECOND BONE SPRING SAND	Yes	10291.0	10294.0	Yes	
THIRD BONE SPRING CARBONATE	Yes	10452.0	10455.0	Yes	
THIRD BONE SPRING SHALE	Yes	10927.0	10930.0	Yes	
THIRD BONE SPRING SAND	Yes	11201.0	11205.0	Yes	
WOLFCAMP	Yes	11453.0	11469.0	Yes	
MONTOYA	No			No	BELOW TVD
PENNSYLVANIAN	No			No	BELOW TVD
ATOKA	No			No	BELOW TVD
FUSSELMAN	No			No	BELOW TVD
DEVONIAN	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)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2018-01-23 15:34:18.321] EDL=3805 feet, max acres=640, PHANTOM (WOLFCAMP) oil or gas well	
CASING RECORD :	
TUBING RECORD: 6 MONTH FIELD EXCEPTION	
PRODUCING/INJECTION/DISPOSAL INTERVAL : KOP IS 11,178'	
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :	
POTENTIAL TEST DATA:	

OPERATOR'S CERTIFICATION	
Printed Name: Katrina Boyd	Title: Operations Assistant
Telephone No.: (432) 524-1301	Date Certified: 03/20/2018



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: FORGE ENERGY			Operator P-5 No.: 276868		
Cementer Name: HALLIBURTON ENERGY SERVICES			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08		County: WARD			
Well No.: 1H		API No.: 475-37120		Drilling Permit No.: 817618	
Lease Name: UL 20 TENSLEEP		Lease No.:			
Field Name: Phantom (Wolfcamp)		Field No.: 71052900			
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 17 1/2		Depth of drilled hole (ft.): 520		Est. % wash-out or hole enlargement: 25%	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.5 J-55		No. of centralizers used: 5	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 520		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 0		Calculated top of cement (ft.): 0		Cementing date: 9-10-16	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	540	C	SEE REMARKS	732	999
2					
3					
Total	540			732	999
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:		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:		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

CEMENT= CALCIUM CHLORIDE, KOL-SEAL CEMENT TO SURFACE 60 BBLS 248 SACKS

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

LOUIS GENOVESI SERVICE SUPERVISOR

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

9-10-16

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

Operations Assistant II

Katrina Boyd

Typed or printed name of operator's representative

Title

Signature

15727 ANTHEM PARKWAY, SUITE 501 SAN ANTONIO, TX 78249

432-219-3638

01/09/2018

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.



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Rev. 08/2014

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

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

WELL INFORMATION		
District No.: 08	County: WARD	
Well No.: 1H	API No.: 475-37120	Drilling Permit No.: 817618
Lease Name: UL 20 TENSLEEP	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.): 12 1/4	Depth of drilled hole (ft.): 5088	Est. % wash-out or hole enlargement: 25%
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40 HCL-80	No. of centralizers used: 39
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 5076	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 4	Calculated top of cement (ft.): 25	Cementing date: 6-6-17

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1195	C	SEE COMMENT	3555.56	4488
2	155	C	SEE COMMENT	206.77	599
3					
Total	1350			3762.33	5087

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

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

FORGE ENERGY LLC-EBUS UL 20 Tensleep 1H SO# 0904079467
LEAD NEOCEM TAIL .15%HR-800 91 BBLS 182 SKS 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.

ERNIE BALDERAS

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

6-6-17

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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Katrina Boyel

Operations Assistant II

Katrina Boyel

Typed or printed name of operator's representative

Title

Signature

15727 ANTHEM PARKWAY, SUITE 501 SAN ANTONIO, TX 78249

432-219-3638

01/09/2018

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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- 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).
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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=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	Operator P-5 No.: 276868
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: WARD	
Well No.: 1H	API No.: 475-37120	Drilling Permit No.: 817618
Lease Name: UL 20 TENSLEEP	Lease No.:	
Field Name: Phantom (Wolfacmp)	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.): 11777	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: 25
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.): 11758	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 24	Calculated top of cement (ft.): 5050	Cementing date: 6/16/17

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	355	C	NEOCEM TM	1010	6366
2	545	H	HALAD(R)-9/SA-1015/HR-601	652	4328
3					
Total	900			1662	10694

II. CASING CEMENTING DATA

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

SLURRY

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

III. CASING CEMENTING DATA

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

SLURRY

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

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

REMARKS
SO: 904087904

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.

Christopher Peacock - Service Supervisor

Halliburton

Name and title of cementer's representative

Cementing Company

6155 W. Murphy St.

Odessa, TX, 79763

Christopher Peacock
Signature

432-571-8600

6/16/17

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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

Katrina Boyd

Operations Assistant II

Katrina Boyd
Signature

Typed or printed name of operator's representative

Title

Signature

15727 ANTHEM PARKWAY, SUITE 501 SAN ANTONIO, TX 78249

432-219-3638

01/09/2018

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

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



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION	
Operator Name: 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: WARD	
Well No.: 1H	API No.: 475-37120	Drilling Permit No.: 817618
Lease Name: UL 20 TENSLEEP	Lease No.:	
Field Name: Phantom (Wolfacmp)	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.): 16515	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 p-110	No. of centralizers used: 17	
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.): 16510	Top of liner (ft.): 11073	
		Setting depth liner (ft.): 16508	
Hrs. waiting on cement before drill-out: 0	Calculated top of cement (ft.): 11073	Cementing date: 7/16/2017	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	380	H	40% HALAD-344/ 0250%SA-1015/ 35%HR-601	457	5276
2					
3					
Total	380			457	5276

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.# 0904109969

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

7/16/2017

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

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

Katrina Boyd

Operations Assistant II

Katrina Boyd

Typed or printed name of operator's representative

Title

Signature

15727 ANTHEM PARKWAY, SUITE 501 SAN ANTONIO, TX 78249

432-219-3638

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.: 184608

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: FORGE ENERGY, LLC	District No. 08	Completion Date: 09/06/2017
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 817618	
Lease Name UL 20 TENSLEEP	Lease/ID No. 49659	Well No. 1H
County WARD	API No. 42- 475-37120	

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

01/09/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-

**RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36**

FORM H-9
12/12/77

FILE WITH
DISTRICT OFFICE
IN TRIPLICATE

1. Operator FORGE ENERGY, LLC				2. Operator Number (See Instruction 13) 276868		3. RRC Dist. 08	
4. Street or P.O. Box No. 10999 IH 10 WEST, SUITE 900				5. City SAN ANTONIO		6. State TX	
7. Zip Code 78230				8. Name of Lease, Facility or Operation UL 20 TENSLEEP		9. Field or Area Name PHANTOM (WOLFCAMP)	
10. County WINKLER				11. General Operation Type - Circle One: <div style="display: flex; justify-content: space-between;"> <div> A - Oil Field Production C - Pipeline or Gathering Sys. E - Drilling or Workover G - Combination (explain) </div> <div> B - Gas Field Production D - Gasoline Plant F - Sweetening Unit H - Other (explain) </div> </div>			
12. RRC ID# of Operation(s) to be Covered by This Certificate 817618		Type ID Code (See Instruction 12) 5		Indicate if Filing for Storage Facility Only YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Other Explanation NEW DRILL	
13. Hydrogen Sulfide Concentration 25000 PPM		14. Maximum Escape Volume 20 MCF/Day		15. 100 PPM Radius of Exposure (ROE) 65 Ft.		16. 500 PPM Radius of Exposure (ROE) 30 Ft.	
17. Operation is Existing <input type="checkbox"/> New <input checked="" type="checkbox"/>		18. Modification Resulting in Certificate Change Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		19. Workover or Drilling Well with 100 PPM ROE Greater than 3000' feet on Rule 36 Certified Well/Lease Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
20. Previous Certificate Number if Available (For Amended Certificates)							
21. The 100 PPM ROE includes any part of a public area except a public road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
22. The 500 PPM ROE includes any part of a public road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 Mo 300 Day 300 Year 19 Depth of Compliance for Drilling Operation Ft. from Surface 300							
25. Contingency Plan Location of Plan (See Instruction 15)				Has been prepared Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
26. Location of data used to prepare this certificate (See Instruction 15) SAME AS ABOVE							
CERTIFICATE							
I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.							
<i>Kathleen Boyer</i> Representative of Company		OPERATIONS ASSISTANT		(432) 524-1301		08/15/16	
		Title		Phone No.		Date	

RAILROAD COMMISSION USE ONLY

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: _____

DATE: _____

REMARKS:

CERTIFICATION NUMBER: _____

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.: 184608

1. Field name exactly as shown on proration schedule PHANTOM (WOLFCAMP)		2. Lease name as shown on proration schedule UL 20 TENSLEEP				
3. Current operator name exactly as shown on P-5 Organization Report FORGE ENERGY, LLC		4. Operator P-5 no. 276868	5. Oil Lse/Gas ID no 49659	6. County WARD	7. RRC district 08	
8. Operator address including city, state, and zip code 15727 ANTHEM PKWY STE 501 SAN ANTONIO, TX 78249		9. Well no(s) (see instruction E) 1H				
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 Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 09/06/2017		
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
TARGA DELAWARE LLC(836022)						100.0
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>05/07/2018</u>						
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.						
Name of Previous Operator _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ Date _____ Phone with area code _____		
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.						
FORGE ENERGY, LLC Name (print) <u>Operations Assistant</u> Title <u>kboyd@forgeenergy.com</u> E-mail Address (optional)				Katrina Boyd Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) <u>01/09/2018</u> Date <u>(432) 524-1301</u> 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:	Operator P-5 No.:
Operator Address:	

SECTION II. WELL INFORMATION

District No.:	County:	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.:	API No.:	
Total Lease Acres:	Drilling Permit No.:	
Lease Name:	Lease No.:	
Field Name:	Field No.:	

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. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown 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

[illegible]

Total Well Count >		< A. Total Assigned Horiz. Acreage		< C. Total Assigned Acreage
		< Total Remaining Horiz. Acreage		< Total Remaining Acreage
		< B. Total Assigned Vert./Dir. Acreage		
		< Total Remaining Vert./Dir. Acreage		

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

--

Attach Additional Pages As Needed. ☐ 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.

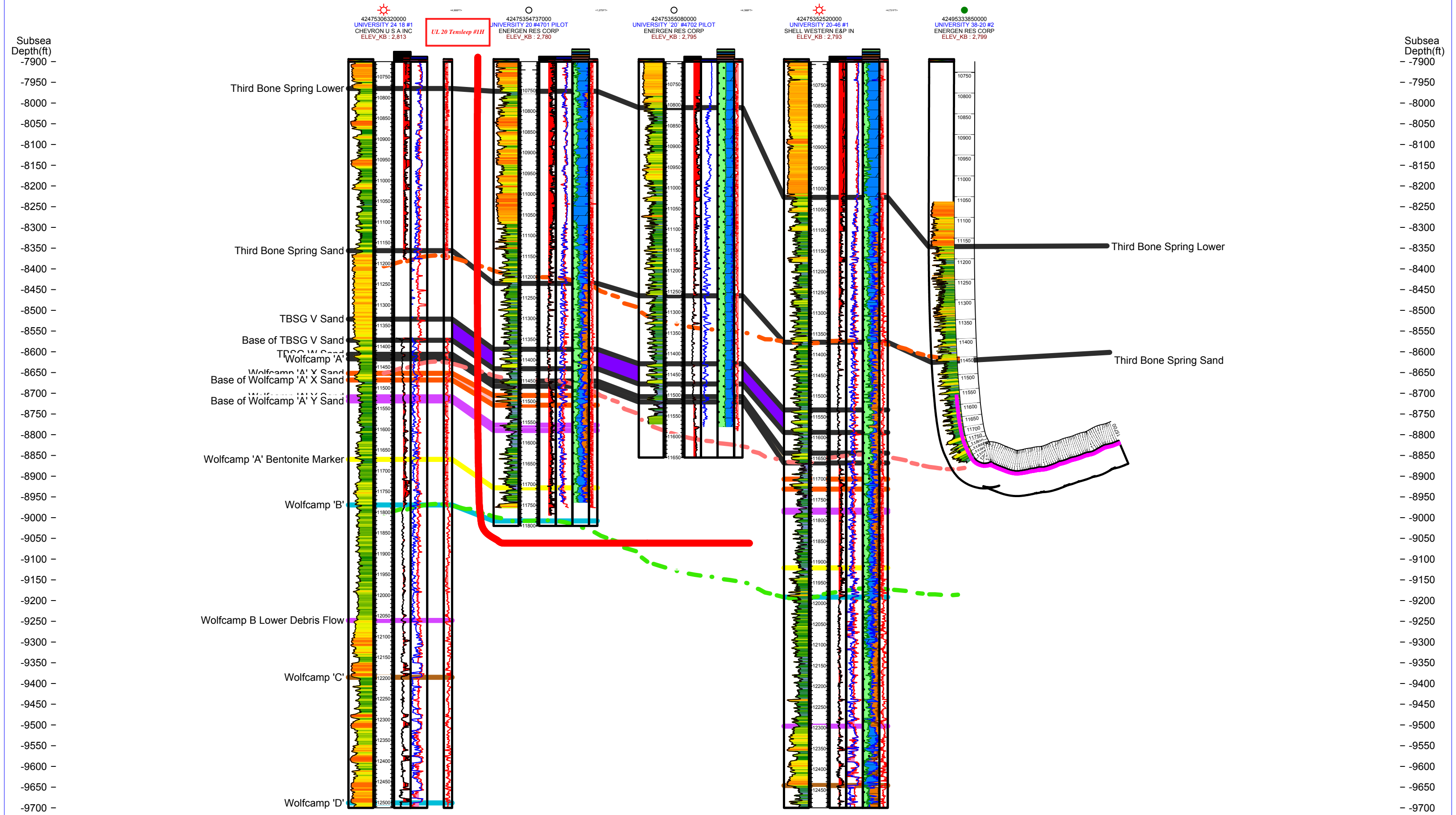
Signature	Name and title (type or print)	Email (include email address <i>only</i> if you affirmatively consent to its public release)
-----------	--------------------------------	--

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

A

A



GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 10 August 2016**GAU Number:** 158518**Attention:** FORGE ENERGY, LLC
10999 IH 10 WEST SUITE 900
SAN ANTONIO, TX 78230**Operator No.:** 276868**API Number:**
County: WARD
Lease Name: UL 20 TENSLEEP
Lease Number:
Well Number: 1H
Total Vertical Depth: 12900
Latitude: 31.643533
Longitude: -103.275684
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-20; Section-47

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

The interval from the land surface to the base of the Alluvium, which is estimated to occur at a depth of 300 feet, must be protected.

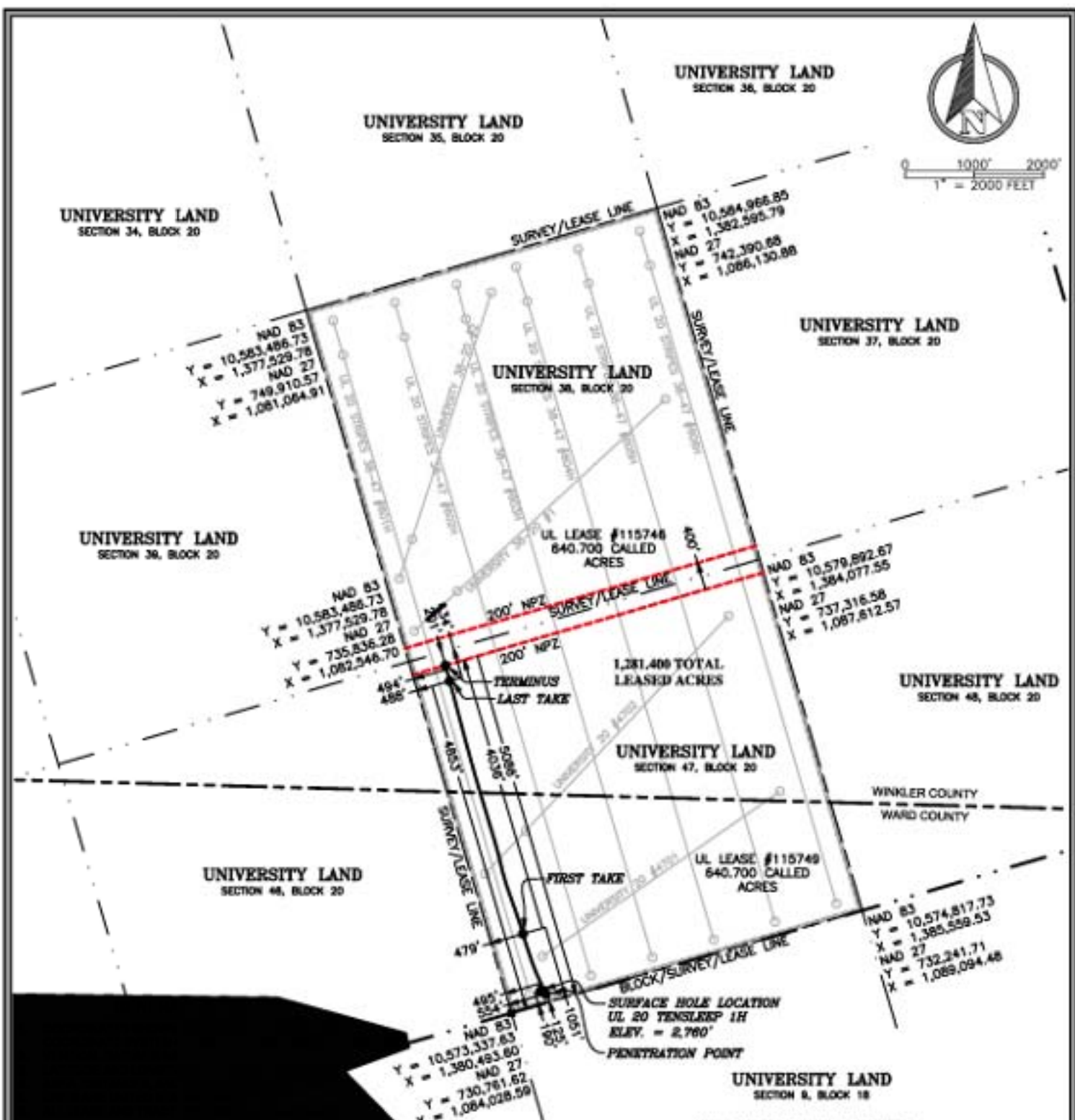
Please send Gamma Ray/Porosity log of this well when it is available.

This recommendation is applicable for all wells drilled in this Section 47 on this Lease.

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 08/09/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division



LEGEND

- SURVEY LINE
- - - LEASE LINE
- - - COUNTY LINE
- - - 200' NO PERF ZONE
- - - EXISTING ENERGEN LATERALS

DRIVING DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF STATE HIGHWAY 115 AND FM 1232 IN WINK, HEAD SOUTH ON STATE HIGHWAY 115 FOR 5.1 MILES. TURN RIGHT (SOUTHWEST) ONTO LITTLE JOE ROAD FOR 2.8 MILES AND TURN LEFT (WEST) ON A LEASE ROAD. HEAD WEST ON LEASE ROAD FOR 5.5 MILES AND THE LOCATION WILL BE APPROXIMATELY 0.3 MILES ON THE RIGHT (NORTHWEST).

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

[Signature]

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



WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION:		BOTTOM PERF LOCATION:	
NAD 83, TEXAS CENTRAL ZONE COORD'S		NAD 83, TEXAS CENTRAL ZONE COORD'S	
Y = 10,573,658.63, X = 1,380,915.04		Y = 10,578,132.48, X = 1,379,601.06	
LAT: N 31.64366°, LONG: W 103.27613°		LAT: N 31.65585°, LONG: W 103.28073°	
SHL: 495' FWL & 130' FSL		BP: 485' FSL & 488' FWL	
NAD 22, TEXAS CENTRAL ZONE COORD'S		NAD 22, TEXAS CENTRAL ZONE COORD'S	
Y = 731,082.82, X = 1,084,450.47		Y = 735,556.61, X = 1,083,136.55	
LAT: N 31.64353°, LONG: W 103.27568°		LAT: N 31.65573°, LONG: W 103.28029°	
PENETRATION POINT:		BOTTOM HOLE LOCATION:	
NAD 83, TEXAS CENTRAL ZONE COORD'S		NAD 83, TEXAS CENTRAL ZONE COORD'S	
Y = 10,571,612.93, X = 1,380,989.36		Y = 10,578,357.60, X = 1,379,541.54	
LAT: N 31.64354°, LONG: W 103.27589°		LAT: N 31.65648°, LONG: W 103.28094°	
PP: 554' FWL & 125' FSL		SHL: 508' FSL & 894' FWL	
NAD 22, TEXAS CENTRAL ZONE COORD'S		NAD 22, TEXAS CENTRAL ZONE COORD'S	
Y = 731,087.12, X = 1,084,524.79		Y = 735,781.73, X = 1,083,077.03	
LAT: N 31.64341°, LONG: W 103.27544°		LAT: N 31.65635°, LONG: W 103.28050°	
TOP PERF LOCATION:			
NAD 83, TEXAS CENTRAL ZONE COORD'S			
Y = 10,574,480.55, X = 1,380,658.66			
LAT: N 31.64587°, LONG: W 103.27705°			
TP: 479' FWL & 305' FSL			
NAD 22, TEXAS CENTRAL ZONE COORD'S			
Y = 731,904.73, X = 1,084,154.10			
LAT: N 31.64577°, LONG: W 103.27658°			

PLAT OF: AN AS-DRILL WELL LOCATION FOR: **FORCE ENERGY** **UL 20 TENSLEEP 1H**

SITUATED IN THE UNIVERSITY LAND, SECTION 47, BLOCK 20, AND BEING APPROXIMATELY 9.0 MILES SOUTHWEST OF WINK IN WINKLER AND WARD COUNTIES, TEXAS.

F8C INC
SURVEYORS+ENGINEERS

550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBP: Firm 17957 | TBP: Firm 10193887
www.f8cinc.net

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DATE: 10-24-2017
DRAWN BY: AP/MP/CH/AL
CHECKED BY: CH
FIELD CRW: BK
PROJECT NO: 2016080628
SCALE: 1" = 2000'
SHEET: 1 OF 1
REVISION: 3

