

API No. <u>42-475-37120</u> Drilling Permit # <u>817618</u> SWR Exception Case/Docket No. _____	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	FORM W-1 07/2004 Permit Status: Approved
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1. RRC Operator No. 276868	2. Operator's Name (as shown on form P-5, Organization Report) FORGE ENERGY, LLC	3. Operator Address (include street, city, state, zip): 10999 IH 10 WEST SUITE 900 SAN ANTONIO, TX 78230-0000
4. Lease Name UL 20 TENSLEEP		5. Well No. 1H

GENERAL INFORMATION					
6. Purpose of filing (mark ALL appropriate boxes):					
<input checked="" type="checkbox"/> New Drill		<input type="checkbox"/> Recompletion		<input type="checkbox"/> Reclass	
<input type="checkbox"/> Amended		<input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)		<input type="checkbox"/> Field Transfer	
<input type="checkbox"/> Vertical		<input checked="" type="checkbox"/> Horizontal (Also File Form W-1H)		<input type="checkbox"/> Directional (Also File Form W-1D)	
<input type="checkbox"/> Sidetrack					
8. Total Depth 12900	9. Do you have the right to develop the minerals under any right-of-way ?		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)?		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

SURFACE LOCATION AND ACREAGE INFORMATION					
11. RRC District No. 08	12. County WARD		13. Surface Location		
<input checked="" type="checkbox"/> Land		<input type="checkbox"/> Bay/Estuary		<input type="checkbox"/> Inland Waterway	
<input type="checkbox"/> Offshore					
14. This well is to be located <u>9</u> miles in a <u>SW</u> direction from <u>Wink</u> which is the nearest town in the county of the well site.					
15. Section 47	16. Block 20	17. Survey UNIVERSITY LANDS		18. Abstract No. A-	19. Distance to nearest lease line: 200 ft.
20. Number of contiguous acres in lease, pooled unit, or unitized tract: 640.7					
21. Lease Perpendiculars: <u>495</u> ft from the <u>WEST</u> line and <u>190</u> ft from the <u>SOUTH</u> line.					
22. Survey Perpendiculars: <u>495</u> ft from the <u>WEST</u> line and <u>190</u> ft from the <u>SOUTH</u> line.					
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No	

FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	71052900	PHANTOM (WOLFCAMP)	Oil or Gas Well	12900	0.00	1

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)	
Remarks [RRC STAFF Aug 10, 2016 7:47 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Aug 10, 2016 8:27 AM]: Changed SHL survey information to match plat and RRC GIS.; [RRC STAFF Aug 10, 2016 8:27 AM]: Problems identified with this permit are resolved.; [RRC STAFF Aug 10, 2016 8:28 AM]: Legible plat attached.	Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Katrina Boyd, Operations Assistant</u> <u>Aug 09, 2016</u> Name of filer Date submitted <u>(432)5241301</u> <u>kboyd@forgenergy.com</u> Phone E-mail Address (OPTIONAL)
RRC Use Only Data Validation Time Stamp: Aug 10, 2016 4:12 PM(Current Version)	

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

Form W-1H 07/2004
Supplemental Horizontal Well Information

Permit Status: **Approved**
The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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A certification of the automated data is available in the RRC's Austin office.*

Permit # **817618**
Approved Date: **Aug 10, 2016**

1. RRC Operator No. 276868	2. Operator's Name (exactly as shown on form P-5, Organization Report) FORGE ENERGY, LLC	3. Lease Name UL 20 TENSLEEP	4. Well No. 1H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)**

6. Section 47	7. Block 20	8. Survey UNIVERSITY LANDS	9. Abstract	10. County of BHL WINKLER
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11. Terminus Lease Line Perpendiculars 467 ft. from the WEST line. and 200 ft. from the NORTH line
12. Terminus Survey Line Perpendiculars 467 ft. from the WEST line. and 200 ft. from the NORTH line
13. Penetration Point Lease Line Perpendiculars 495 ft. from the WEST line. and 190 ft. from the SOUTH line

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data**

WARD (475) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	1,700	1,700		1	12/17/2013
YATES	2,000	2,800		2	12/17/2013
SEVEN RIVERS	2,375	2,375		3	12/17/2013
QUEEN	2,200	3,200		4	12/17/2013
GLORIETA	3,900	4,000		5	12/17/2013
SAN ANDRES	2,000	4,500	high flows, H2S, corrosive	6	12/17/2013
HOLT	4,600	4,800		7	12/17/2013
CLEARFORK	4,500	5,000		8	12/17/2013
DELAWARE	2,300	5,000		9	12/17/2013
TUBB	4,600	5,300		10	12/17/2013
WICHITA ALBANY	6,000	6,200		11	12/17/2013
CHERRY CANYON	4,800	7,800		12	12/17/2013
WADDELL	7,600	9,700		13	12/17/2013
BONE SPRINGS	4,700	9,800		14	12/17/2013
WOLFCAMP	6,000	12,750		15	12/17/2013
MONTOYA	14,500	14,500		16	12/17/2013
PENNSYLVANIAN	7,500	14,900		17	12/17/2013
ATOKA	12,000	15,000		18	12/17/2013
FUSSELMAN	6,400	17,500		19	12/17/2013
DEVONIAN	6,200	17,800		20	12/17/2013
ELLENBURGER	7,900	20,800		21	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.
<http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

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	API Number:	
Operator No.:	276868	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.

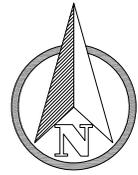
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

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.

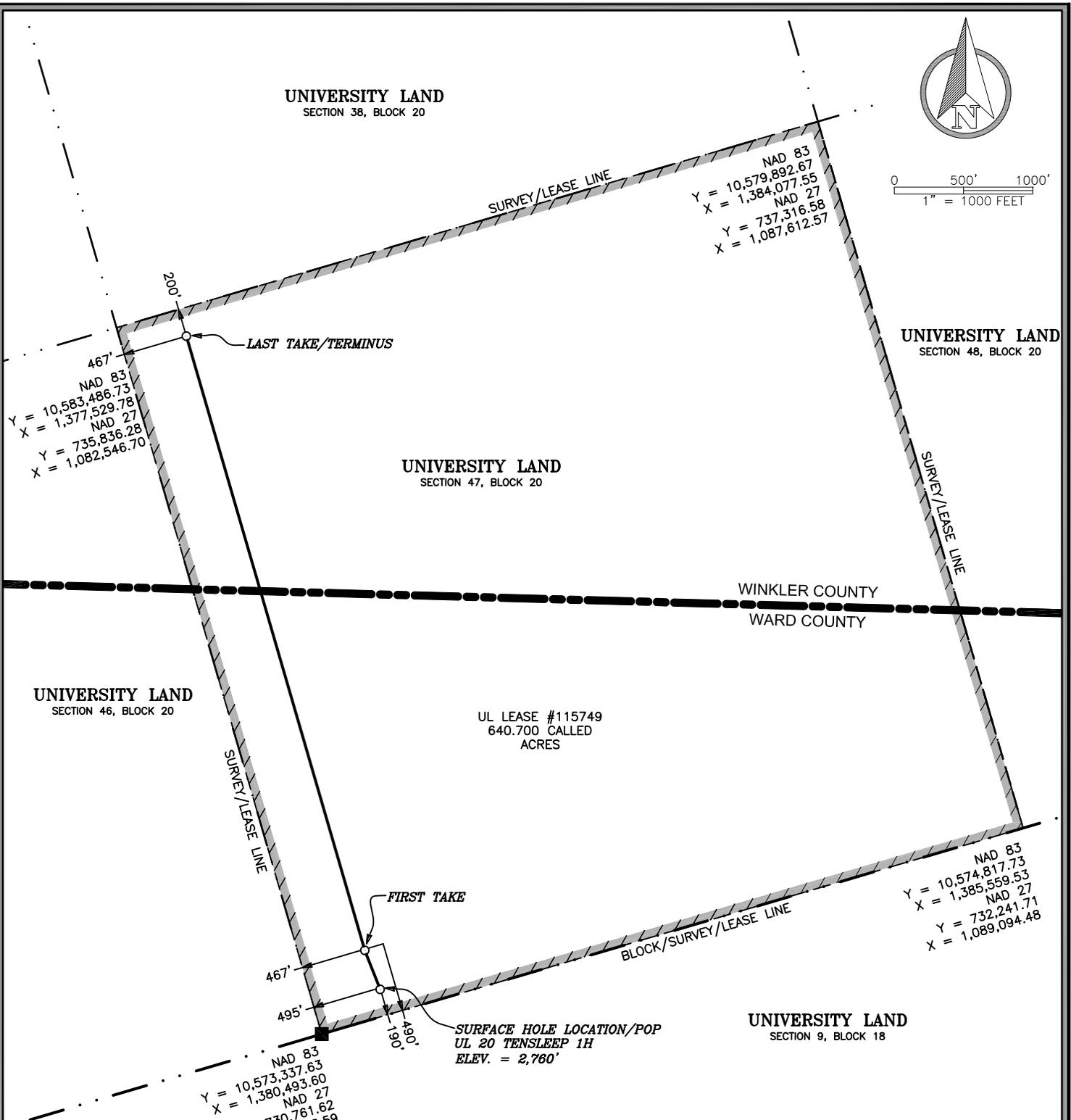
Groundwater Advisory Unit, Oil and Gas Division

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

UNIVERSITY LAND
SECTION 38, BLOCK 20



0 500' 1000'
1" = 1000 FEET



UNIVERSITY LAND
SECTION 46, BLOCK 20

UNIVERSITY LAND
SECTION 47, BLOCK 20

UNIVERSITY LAND
SECTION 48, BLOCK 20

UL LEASE #115749
640.700 CALLED
ACRES

WINKLER COUNTY
WARD COUNTY

UNIVERSITY LAND
SECTION 9, BLOCK 18

SURFACE HOLE LOCATION/POP
UL 20 TENSLEEP 1H
ELEV. = 2,760'

LEGEND

- SURVEY LINE
- - - - LEASE LINE
- COUNTY LINE

WELL LOCATION INFORMATION:

<p>SURFACE HOLE LOCATION/PP: NAD 83, TEXAS CENTRAL ZONE COORD'S Y = 10,573,658.83, X = 1,380,915.48 LAT: N 31.643663°, LONG: W 103.276130° SHL: 495' FWL & 190' FSL SHL: 495' FWLL & 190' FSLL</p>	<p>LAST TAKE/TERMINUS LOCATION: NAD 83, TEXAS CENTRAL ZONE COORD'S Y = 10,578,351.37, X = 1,379,515.96 LAT: N 31.656457°, LONG: W 103.281026° LT/TERMINUS: 467' FWL & 200' FNL LT/TERMINUS: 467' FWLL & 200' FNLL</p>
<p>NAD 27, TEXAS CENTRAL ZONE COORD'S Y = 731,082.82, X = 1,084,450.47 LAT: N 31.643533°, LONG: W 103.275684°</p>	<p>NAD 27, TEXAS CENTRAL ZONE COORD'S Y = 735,775.29, X = 1,083,051.01 LAT: N 31.656326°, LONG: W 103.280579°</p>
<p>FIRST TAKE LOCATION: NAD 83, TEXAS CENTRAL ZONE COORD'S Y = 10,573,938.97, X = 1,380,804.51 LAT: N 31.644425°, LONG: W 103.276511° FT: 467' FWLL & 490' FSLL</p>	
<p>NAD 27, TEXAS CENTRAL ZONE COORD'S Y = 731,362.95, X = 1,084,339.50 LAT: N 31.644294°, LONG: W 103.276064°</p>	

GENERAL NOTES

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

DRIVING DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF 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 6.0 MILES AND TURN LEFT (WEST) ON A LEASE ROAD. HEAD WEST ON LEASE ROAD FOR 2.0 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.

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT

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

PLAT OF:
A PROPOSED WELL LOCATION FOR:
FORGE 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 COUNTY, TEXAS.

DATE: 08/05/2016
DRAWN BY: AP/RP
CHECKED BY: DH
FIELD CREW: BK
PROJECT NO: 2016080607
SCALE: 1" = 1000'
SHEET: 1
REVISION: 1



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