

**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

This facsimile W-1 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

Permit #	802221
Approved Date:	Dec 30, 2014

1. RRC Operator No. 028625	2. Operator's Name (exactly as shown on form P-5, Organization Report) APPROACH OPERATING LLC	3. Lease Name UNIVERSITY 42	4. Well No. 1216HC
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **HOLT RANCH (CONSOLIDATED) (Field # 42341300, RRC District 7C)**

6. Section 24	7. Block 42	8. Survey UL	9. Abstract	10. County of BHL CROCKETT
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11.	Terminus Lease Line Perpendiculars	_____ 20 _____ ft. from the _____ S _____ line. and _____ 1380 _____ ft. from the _____ W _____ line
12.	Terminus Survey Line Perpendiculars	_____ 20 _____ ft. from the _____ S _____ line. and _____ 1380 _____ ft. from the _____ W _____ line
13.	Penetration Point Lease Line Perpendiculars	_____ 10547 _____ ft. from the _____ N _____ line. and _____ 1380 _____ ft. from the _____ W _____ line

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

CROCKETT (105) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
QUEEN	1,000	2,300		1	12/17/2013
SAN ANDRES	1,000	3,700		2	12/17/2013
LEONARD	3,100	4,200		3	12/17/2013
WOLFCAMP	3,400	6,300		4	12/17/2013
CANYON	4,000	8,800		5	12/17/2013
STRAWN	7,100	11,600		6	12/17/2013
DEVONIAN	8,900	11,900		7	12/17/2013
ELLENBURGER	6,500	13,400		8	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.state.tx.us/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date **December 22, 2014**

GAU File No.: **15787**

***** EXPEDITED APPLICATION *****

API Number **10542185**

Attention: **CAROL ADLER**

RRC Lease No. **000000**

SC_028625_10542185_000000_15787.pdf

APPROACH OPERATING LLC
6500 W FWY
STE 800
FORT WORTH TX 76116

--Measured--

1240 ft FWL

330 ft FSL

MRL:SECTION

P-5# 028625

Digital Map Location:

X-coord/Long **101.20870**

Y-coord/Lat **30.94060**

Datum **27**

Zone

County **CROCKETT**

Lease & Well No. **UNIVERSITY 42 #1215HC&RAD**

Purpose **ND**

Location **SUR-UL, A-U362, BLK-42, SEC-12, -- [TD=7800] , [RRC 7C] ,**

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

The interval from the land surface to a depth of 750 feet must be protected.

This recommendation is applicable to all wells within a radius of 300 feet of this location.

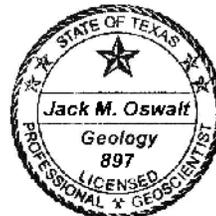
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form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

If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,

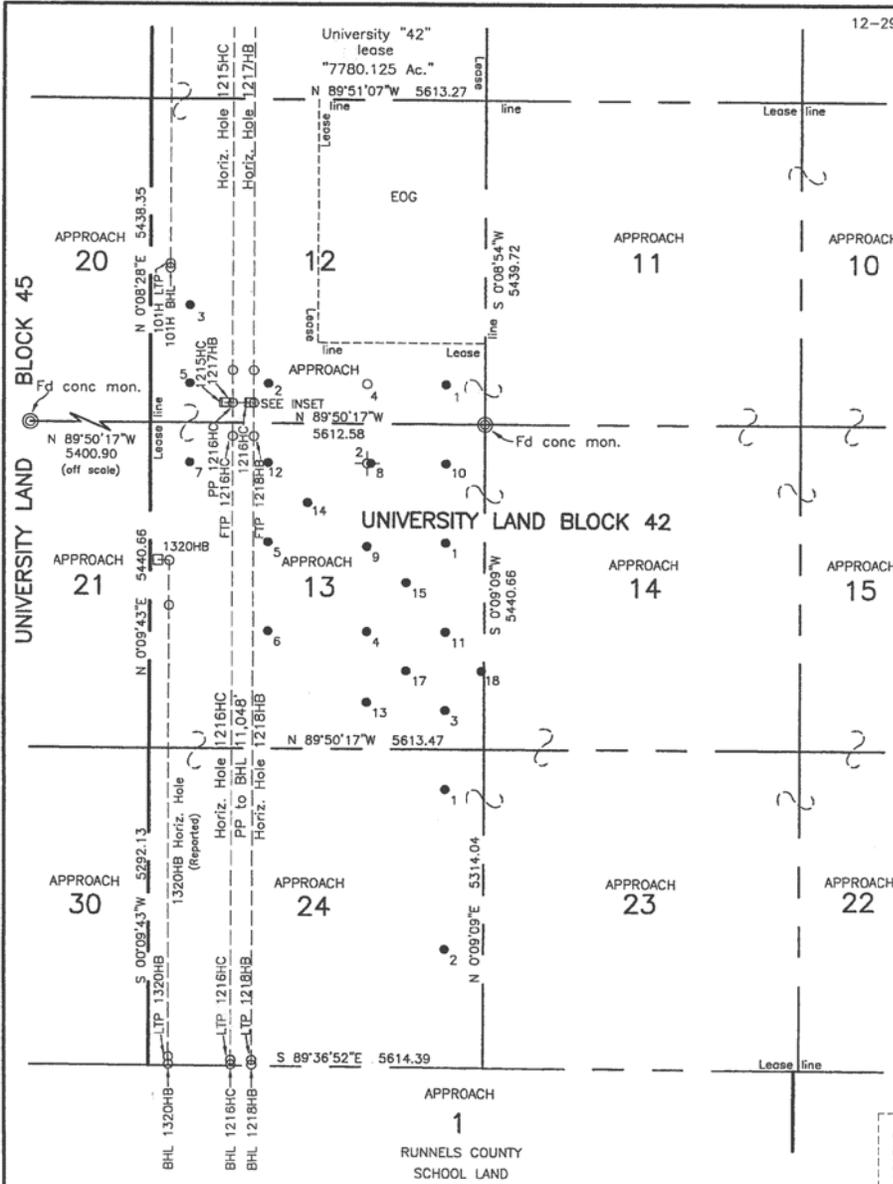
Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 12/22/2014
Note: Alteration of this electronic document will invalidate the digital signature.



LEGEND

- = Surface Location (S.L.)
- PP = Penetration Point
- = Surface well (as drilled)
- FTP = 1st Take Point
- LTP = Last Take Point
- BHL = Bottom Hole Location

SURFACE LOCATION

Y = 464,398 ft.
 X = 1,725,990 ft.
 Latitude : 30.9406° N.
 Longitude : 101.2074° W.
 330 ft. FSL and 1650 ft. FWL
 University Land Survey 12, Block 42
 10,547 ft. FNL and 1650 ft. FWL of lease

PROPOSED PENETRATION POINT

270 ft. from Surf. 1216HC
 Y = 464,398 ft.
 X = 1,725,720 ft.
 Latitude : 30.9406° N.
 Longitude : 101.2082° W.
 330 ft. FSL and 1380 ft. FWL
 University Land Survey 12, Block 42
 10,547 ft. FNL and 1380 ft. FWL of lease

PROPOSED 1st TAKE POINT

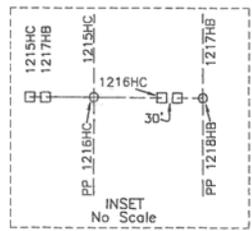
550 ft. from PP 1216HC
 10,518 ft. FSL and 1380 ft. FWL of lease
 220 ft. FNL and 1380 ft. FWL
 University Land Survey 13, Block 42
 Y = 463,848 ft.
 X = 1,725,719 ft.
 Latitude : 30.9391° N.
 Longitude : 101.2082° W.

PROPOSED LAST TAKE POINT

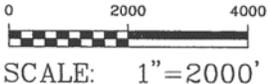
80 ft. from BHL 1216HC
 100 ft. FSL and 1380 ft. FWL of lease
 100 ft. FSL and 1380 ft. FWL
 University Land Survey 24, Block 42
 Y = 453,430 ft.
 X = 1,725,689 ft.
 Latitude : 30.9105° N.
 Longitude : 101.2081° W.

PROPOSED BOTTOMHOLE LOC.

Y = 453,350 ft.
 X = 1,725,689 ft.
 Latitude : 30.9103° N.
 Longitude : 101.2081° W.
 20 ft. FSL and 1380 ft. FWL
 University Land Survey 24, Block 42
 20 ft. FSL and 1380 ft. FWL of lease



Located: N 10°W 18 miles from Ozona, Texas.
 " Ac " = Acreage claimed by operator to be in lease.



FIELD COUNTY : Crockett
 OPERATOR : Approach Operating, LLC
 LEASE : University "42"
 WELL NO. : 1216HC
 ELEVATION : 2593 ft. grd.
 LOCATION : 330 ft. FSL and 1650 ft. FWL of University Land Survey 12, Block 42, Crockett County, Texas.

Perpendicular distances off 1216HC Univ. "42" horizontal hole

- FTP 1218HB (proposed) = 350'
- LTP 1218HB (proposed) = 350'
- BHL 1218HB (proposed) = 350'
- Well 5 = 600'
- Well 6 = 600'
- Well 12 = 600'

NOTES

Courses, distances and coordinates shown hereon are of the Texas Coordinate System of 1927 - Central Zone.

The survey construction shown hereon is sufficient for staking this location and no other purpose.

The lease information shown hereon is based on information provided by operator or its representatives and was relied upon by surveyor for the purpose of staking this location. Said surveyor was not requested to verify lease and accepts no responsibility for the accuracy or status of this information.

Position of surveys shown hereon is based on Frank Friends survey of University Lands Blocks 38 to 57 dated July 24, 1937 on file in the General Land Office.

The above sketch represents the location as staked on the ground and is for permit purposes only.

Staked the 2nd day of December, 2014.

Thomas J. Houston
 Thomas J. Houston
 Registered Professional Land Surveyor No. 4261
 FIRM NO. 10045600



OFFICE OF
WILSON LAND SURVEYING, INC.
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