

**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 # **797056**
Approved Date: **Oct 07, 2014**

1. RRC Operator No. 017996	2. Operator's Name (exactly as shown on form P-5, Organization Report) AMERICAN ENERGY-PERM BASIN, LLC	3. Lease Name UNIVERSITY 09	4. Well No. 0806H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)**

6. Section 5	7. Block 9	8. Survey UL	9. Abstract	10. County of BHL REAGAN
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11.	Terminus Lease Line Perpendiculars	_____ 50 _____ ft. from the _____ N _____ line. and _____ 330 _____ ft. from the _____ E _____ line
12.	Terminus Survey Line Perpendiculars	_____ 50 _____ ft. from the _____ N _____ line. and _____ 2969 _____ ft. from the _____ E _____ line
13.	Penetration Point Lease Line Perpendiculars	_____ 7095 _____ ft. from the _____ N _____ line. and _____ 7588.9 _____ ft. from the _____ W _____ line

Permit Status: **Approved**

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

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

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W-1 Comments

Permit # **797056**

Approved Date: **Oct 07, 2014**

[FILER Sep 25, 2014 10:38 AM]: Stacked Lateral Well with the 0802H; Permit # 749882 cancelled and well count adjusted; [RRC STAFF Sep 30, 2014 11:23 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Sep 30, 2014 11:41 AM]: Change nearest town distance per plat. Update SHL/BHL abstract/survey info per GIS.; [RRC STAFF Oct 1, 2014 8:58 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Oct 2, 2014 1:49 PM]: Attached revised P12 sent in by Chris Spencer.; [RRC STAFF Oct 2, 2014 4:23 PM]: Per Cameron: I have confirmed that the well count is 52 prior to filing any of the permit applications listed below.

Please find the well count for each application.

- University 09 0802H (53)
- University 09 0806H (53)
- University 09 0804H (54)
- University 09 0813H (54)
- University 09 0812H (55)
- University 09 0811H (55); [RRC STAFF Oct 2, 2014 4:24 PM]: Changed well count per email.; [RRC STAFF Oct 2, 2014 4:24 PM]: Problems identified with this permit are resolved.; [RRC STAFF Oct 3, 2014 12:49 PM]: All of these (6) P12s have district 3 instead of the required 7C on the permit. Please resubmit all (can be in same email) in .TIF.; [RRC STAFF Oct 3, 2014 1:00 PM]: Attached Revised P12.

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

REAGAN (383) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
GRAYBURG	1,500	2,500		1	12/17/2013
QUEEN	1,900	2,500		2	12/17/2013
SAN ANDRES	2,000	5,000	saltwater flow, possibly heavy	3	12/17/2013
CLEARFORK	3,300	4,000		4	12/17/2013
SPRABERRY	3,300	10,000		5	12/17/2013
STRAWN	9,300	10,200		6	12/17/2013
FUSSELMAN	8,800	11,000		7	12/17/2013
ELLENBURGER	8,700	10,500		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

GAU File No.:

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

API Number

Attention:

RRC Lease No.

SC_017996_38300000_000000_12079.pdf

AMERICAN ENERGY PERM BASIN LLC
P O BOX 13710
OKLAHOMA CITY TX 73113

P-5# 017996

--Measured--

2103 ft FWL

1864 ft FNL

MRL:SECTION

Digital Map Location:	
X-coord/Long	<input type="text" value="1606035"/>
Y-coord/Lat	<input type="text" value="590061"/>
Datum	<input type="text" value="27"/>
Zone	<input type="text" value="N"/>

County

Lease & Well No.

Purpose

Location

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 525 feet must be protected.

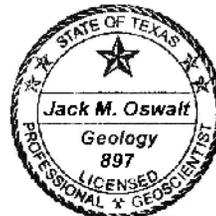
This recommendation is applicable to all wells drilled on this pad.

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.

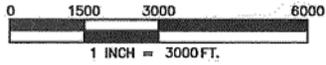
Sincerely,

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 10/2/2014
Note: Alteration of this electronic document will invalidate the digital signature.



LINE	BEARING	DISTANCE
L1	N 60°52'22" E	198.29'



9/23/2014

THIS MAP WAS PREPARED FROM AN ACTUAL ON THE GROUND SURVEY PERFORMED UNDER MY SUPERVISION ON SEPTEMBER 10, 2014.

LARRY W. SMITH
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 4279

BEARINGS AND COORDINATES SHOWN ON THIS MAP ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 27.

LATITUDES AND LONGITUDES SHOWN ON THIS MAP ARE BASED ON WGS 84.

THIS MAP WAS PREPARED FOR AREA COMPUTATIONS OF MINERAL OWNERSHIP AND DOES NOT REPRESENT A CURRENT OWNERSHIP BOUNDARY SURVEY.

RECORDS RESEARCH WAS PROVIDED BY THE CLIENT OR CLIENT'S REPRESENTATIVES. CLIENTS REPRESENTATIVE DIRECT THE SURVEYOR TO EXTEND THE MINERAL DEEDS TO THE CENTERLINE OF THE RIGHT-OF-WAY WHEN MINERAL DEEDS ARE NOT PROVIDED, THE SURVEYOR PERFORMED NO ADDITIONAL RESEARCH.

LESSOR NAMES ARE PROVIDED BY THE CLIENTS REPRESENTATIVE AND NOT BY THE SURVEYOR.

UNIVERSITY 09, #0806H SURFACE HOLE LOCATION BEARS N 53°11' W 11.2 MILES FROM BIG LAKE, TX.
 FTP = FIRST TAKE POINT
 LTP = LAST TAKE POINT
 LL = LEASE LINE
 BH = BOTTOM HOLE LOCATION
 \$ = APPROXIMATE SURVEY ABSTRACT LINE
 SL = SURVEY LINE

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.
UNIVERSITY 09,
#0806H WELL
BOTTOM HOLE LOCATION
X=1,606,386.13
Y=597,200.29
LAT=31°18'09.93"
LON=101°35'38.67"

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.
UNIVERSITY 09,
#0806H WELL
LAST TAKE POINT
X=1,606,385.12
Y=597,150.31
LAT=31°18'09.44"
LON=101°35'38.67"

TRACT	LEASE #	CALLED ACREAGE	MEASURED ACREAGE	MEASURED PCT.
1	UNIVERSITY LANDS 113331	322.90 ACRES	322.994 ACRES	7.142
2	UNIVERSITY LANDS 113333	645.80 ACRES	645.988 ACRES	14.285
3	UNIVERSITY LANDS 113334	484.35 ACRES	484.491 ACRES	10.713
4	UNIVERSITY LANDS 113335	565.075 ACRES	565.399 ACRES	12.503
5	UNIVERSITY LANDS 113337	322.90 ACRES	323.079 ACRES	7.144
6	UNIVERSITY LANDS 113338	322.90 ACRES	322.985 ACRES	7.142
7	UNIVERSITY LANDS 113339	565.075 ACRES	565.270 ACRES	12.500
8	UNIVERSITY LANDS 113340	322.90 ACRES	323.031 ACRES	7.143
9	UNIVERSITY LANDS 78414	161.45 ACRES	161.487 ACRES	3.971
10	UNIVERSITY LANDS 111020	322.90 ACRES	323.071 ACRES	7.144
11	UNIVERSITY LANDS 111021	322.90 ACRES	322.998 ACRES	7.142
12	UNIVERSITY LANDS 107981	80.725 ACRES	80.774 ACRES	1.786
13	UNIVERSITY LANDS 108484	80.725 ACRES	80.708 ACRES	1.785
TOTAL			4522.285 ACRES	100.000

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.
UNIVERSITY 09,
#0806H WELL
PENETRATION POINT/FTP
X=1,606,243.63
Y=590,158.47
LAT=31°17'00.23"
LON=101°35'39.39"

AMERICAN ENERGY-PERMIAN BASIN, L.L.C.
UNIVERSITY 09,
#0806H WELL
SURFACE HOLE LOCATION
X=1,606,070.46
Y=590,061.98
LAT=31°16'59.25"
LON=101°35'41.37"
SURFACE ELEVATION=2671.06'

FINAL
AMERICAN ENERGY-PERMIAN BASIN, L.L.C.
UNIVERSITY 09,
#0806H WELL
4522.285 ACRES
REAGAN COUNTY, TEXAS
PERCHERON
SURVEY, L.L.C.
15411 Vantage Pkwy West
Suite 205
Houston, Texas 77032
(281) 447-6230
Texas Surveying Firm License
No. 10020700
SEPTEMBER 23, 2014
PROJECT 140.0006.003