

API No. <u>42-383-39292</u> Drilling Permit # <u>801665</u> SWR Exception Case/Docket No. _____	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <small>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.</small>	FORM W-1 07/2004 Permit Status: Approved				
1. RRC Operator No. 216378	2. Operator's Name (as shown on form P-5, Organization Report) DEVON ENERGY PRODUCTION CO, L.P.	3. Operator Address (include street, city, state, zip): ATTN VICTORIA SANCHEZ 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102-5010				
4. Lease Name UNIVERSITY 48-1 WEST	5. Well No. 3H					
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"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <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 9000	9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 7C	12. County REAGAN	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>9.6</u> miles in a <u>SE</u> direction from <u>Big Lake</u> which is the nearest town in the county of the well site.						
15. Section 1	16. Block 48	17. Survey UNIVERSITY LAND				
18. Abstract No. A-	19. Distance to nearest lease line: 100 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 163.24				
21. Lease Perpendiculars: <u>352</u> ft from the <u>NORTH</u> line and <u>571</u> ft from the <u>EAST</u> line.						
22. Survey Perpendiculars: <u>352</u> ft from the <u>NORTH</u> line and <u>1948</u> ft from the <u>EAST</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
7C	53613750	LIN (WOLFCAMP)	Oil or Gas Well	7600	0.00	1
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
<u>Remarks</u> 				<u>Certificate:</u> I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Annette Raines, Regulatory Specialist</u> <u>Dec 12, 2014</u> Name of filer Date submitted <u>(405)2288217</u> <u>annette.raines@dvn.com</u> Phone E-mail Address (OPTIONAL)		
RRC Use Only Data Validation Time Stamp: Dec 12, 2014 10:56 AM ('As Approved' Version)						

Permit Status: **Approved**

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

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

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

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 # **801665**
Approved Date: **Dec 12, 2014**

1. RRC Operator No. 216378	2. Operator's Name (exactly as shown on form P-5, Organization Report) DEVON ENERGY PRODUCTION CO, L.P.	3. Lease Name UNIVERSITY 48-1 WEST	4. Well No. 3H
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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 1	7. Block 48	8. Survey UNIVERSITY LAND	9. Abstract	10. County of BHL REAGAN
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11. Terminus Lease Line Perpendiculars _____ 100 _____ ft. from the _____ South _____ line. and _____ 653 _____ ft. from the _____ West _____ line
12. Terminus Survey Line Perpendiculars _____ 100 _____ ft. from the _____ South _____ line. and _____ 2100 _____ ft. from the _____ East _____ line
13. Penetration Point Lease Line Perpendiculars _____ 352 _____ ft. from the _____ North _____ line. and _____ 653 _____ ft. from the _____ West _____ line

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 801665	DATE PERMIT ISSUED OR AMENDED Dec 12, 2014	DISTRICT * 7C		
API NUMBER 42-383-39292	FORM W-1 RECEIVED Dec 12, 2014	COUNTY REAGAN		
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 163.24		
OPERATOR DEVON ENERGY PRODUCTION CO, L.P. ATTN VICTORIA SANCHEZ 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102-5010		216378 NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (325) 657-7450		
LEASE NAME UNIVERSITY 48-1 WEST		WELL NUMBER 3H		
LOCATION 9.6 miles SE direction from BIG LAKE		TOTAL DEPTH 9000		
Section, Block and/or Survey SECTION ◀ 1 BLOCK ◀ 48 ABSTRACT ◀ SURVEY ◀ UNIVERSITY LAND				
DISTANCE TO SURVEY LINES 352 ft. NORTH 1948 ft. EAST		DISTANCE TO NEAREST LEASE LINE 100 ft.		
DISTANCE TO LEASE LINES 352 ft. NORTH 571 ft. EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIELD(s) and LIMITATIONS: <p style="text-align: center;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>				
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST
----- LIN (WOLFCAMP) UNIVERSITY 48-1 WEST	163.24 100	7,600 0	3H 0	7C
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----				
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 352.0 F NORTH L 653.0 F WEST L Terminus Location BH County: REAGAN Section: 1 Block: 48 Abstract: Survey: UNIVERSITY LAND Lease Lines: 100.0 F SOUTH L 653.0 F WEST L Survey Lines: 100.0 F SOUTH L 2100.0 F EAST L				
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS				
This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.				

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

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LEASE NAME UNIVERSITY 48-1 WEST		WELL NUMBER 3H
LOCATION 9.6 miles SE direction from BIG LAKE		TOTAL DEPTH 9000
Section, Block and/or Survey SECTION ← 1 BLOCK ← 48 ABSTRACT ← SURVEY ← UNIVERSITY LAND		
DISTANCE TO SURVEY LINES 352 ft. NORTH 1948 ft. EAST		DISTANCE TO NEAREST LEASE LINE 100 ft.
DISTANCE TO LEASE LINES 352 ft. NORTH 571 ft. EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: <p style="text-align: center;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
WELL # NEAREST WE		
DIST		
This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.		

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 December 11, 2014

GAU File No.: 12146

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

API Number 38300000

Attention: ANNETTE RAINES

RRC Lease No. 000000

SC_216378_38300000_000000_12146.pdf

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY OK 73102

--Measured--

1948 ft FEL

352 ft FNL

MRL:SECTION

P-5# 216378

Digital Map Location:

X-coord/Long 101.30821

Y-coord/Lat 31.14563

Datum 83

Zone

County REAGAN

Lease & Well No. UNIVERSITY 48-1 WEST #3H

Purpose ND

Location SUR-UL, BLK-48, SEC-1, -- [TD=7300], [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 the base of the SANTA ROSA, which is estimated to occur at a depth of 800 feet, must be protected.

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).

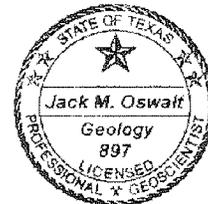
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin, o=Railroad
Commission of Texas, cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2014.12.11 15:32:11 -06'00'

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 12/11/2014
Note: Alteration of this electronic document will invalidate the digital signature.

Form GW-2
Rev. 02/2014

P.O. Box 12967 Austin, Texas 78711-2967 512-463-2741 Internet address: www.rrc.state.tx.us

NOTE:
 COMBINED SCALE FACTOR: 0.999759830
 SHL IS APPROXIMATELY 9.60 MILES S 69°33'43" E OF THE
 COURTHOUSE IN BIG LAKE, REAGAN COUNTY, TEXAS.

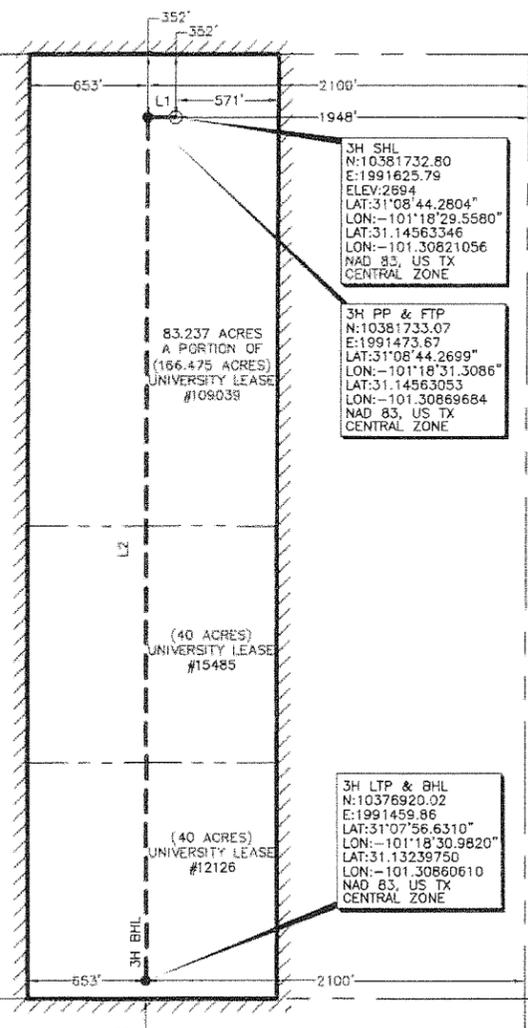


SECTION 5
 H. E. & W. T. RR. CO.
 SURVEY
 A-218

SECTION 6
 H. E. & W. T. RR. CO.
 SURVEY
 A-864

DRILLABLE
12/09/14
AO

LINE	BEARING	DISTANCE
L1	N 89°53'56" W	152.12'
L2	S 00°09'52" W	4813.07'



3H SHL
 N:10381732.80
 E:1991625.79
 ELEV:2694
 LAT:31°08'44.2804"
 LON:-101°18'29.5580"
 LAT:31.14563346
 LON:-101.30821056
 NAD 83, US TX
 CENTRAL ZONE

3H PP & FTP
 N:10381733.07
 E:1991473.67
 LAT:31°08'44.2699"
 LON:-101°18'31.3086"
 LAT:31.14563053
 LON:-101.30869684
 NAD 83, US TX
 CENTRAL ZONE

3H LTP & BHL
 N:10376920.02
 E:1991459.86
 LAT:31°07'56.6310"
 LON:-101°18'30.9820"
 LAT:31.13239750
 LON:-101.30860610
 NAD 83, US TX
 CENTRAL ZONE

PERMIT PLAT OF
 DEVON ENERGY PRODUCTION COMPANY, L.P.
UNIVERSITY 48-1 WEST 3H
 LIN (WOLFCAMP) FIELD
 (163.237 ACRES)
 UNIVERSITY LEASE
 SURVEY LINES
 SHL: 352' FNL & 1948' FEL
 PP & FTP: 352' FNL & 2100' FEL
 LTP & BHL: 100' FSL & 2100' FEL
 SECTION 1, BLOCK 48
 UNIVERSITY LAND SURVEY
LEASE LINES
 SHL: 352' FNL & 571' FEL
 PP & FTP: 352' FNL & 653' FWL
 LTP & BHL: 100' FSL & 653' FWL
 REAGAN COUNTY, TEXAS



NOTE:
 1. BEARINGS, DISTANCES & ACRES ARE GRID, NAD 83 US TX CENTRAL ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.
 2. ELEVATIONS ARE BASED ON NAVD 88.
 3. THIS SURVEY IS FOR AN OIL & GAS SURFACE LEASE AND THEREFORE THIS IS NOT A BOUNDARY SURVEY.
 4. LOCATION OF ADJOINING WELLS OUTSIDE LEASE BOUNDARY ARE APPROXIMATED FROM TEXAS RAILROAD COMMISSION DATA.
 5. DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.
 I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Phillip J. Sublett
 REGISTERED PROFESSIONAL LAND SURVEYOR
 12-09-2014
 DATE

ORIGINALLY STAKED: 12-05-2014
 REV: 0 JOB NO.: 14-01684 DRAWN BY: JTL
SHEET 1 OF 1



111 Austin St., Mason, Texas 76856
 (877) 347-6883
 TX FIRM REG.
 #100248-00 & #10193808
 www.crosstexaslandservices.com

LEGEND

SHL	SURFACE HOLE LOCATION	---	SURVEY LINE	---	LEASE BOUNDARY	---	UNLEASED AREA
PP	PENETRATION POINT	- - - -	SUBJECT PROPOSED LATERAL	---	---	---	---
FTP	FIRST TAKE POINT	---	PROPOSED LATERAL	---	---	---	---
LTP	LAST TAKE POINT	---	ASORILLED LATERAL	---	---	---	---
BHL	BOTTOM HOLE LOCATION	---	---	---	---	---	---
RRC	RAILROAD COMMISSION	---	---	---	---	---	---

● POINT ○ PROPOSED WELL LOCATION SET ⊕ EXISTING WELLHEAD ⊙ SURFACE LOCATION OBTAINED FROM RRC

FILE: S:\PA\EL 009400 AREA\UNIVERSITY_BLK 48\DRAWING\48-1\14-01684 UNIVERSITY 48-1 WEST 3H 12-08-2014.dwg



SECTION 5
H. E. & W. T. RR. CO.
SURVEY
A-218

SECTION 6
H. E. & W. T. RR. CO.
SURVEY
A-884

LINE	BEARING	DISTANCE
L1	N 89°53'56" W	152.12'
L2	S 00°09'52" W	4813.07'

N:10382086.32
E:1990821.25

S 89°53'56" E
1376.71'

352'

N:10382083.89
E:1992197.96

N 00°09'48" E 5264.81'

L2

S 00°09'50" W 5265.56'

3H SHL
N:10381732.80
E:1991625.79
ELEV:2694
LAT:31°08'44.2604"
LON:-101°18'29.5580"
LAT:31.14563346
LGN:-101.30821056
NAD 83, US TX
CENTRAL ZONE

3H PP & FTP
N:10381733.07
E:1991473.67
LAT:31°08'44.2699"
LON:-101°18'31.3066"
LAT:31.14563053
LGN:-101.30869684
NAD 83, US TX
CENTRAL ZONE

3H LTP & BHL
N:10376920.02
E:1991459.86
LAT:31°07'58.6310"
LON:-101°18'30.9820"
LAT:31.13239750
LGN:-101.30860610
NAD 83, US TX
CENTRAL ZONE

N:10376621.91
E:1990806.24

N 89°52'04" W
1376.86'

N:10376818.35
E:1992182.90

SECTION 2
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 1
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 5
BLOCK 43
UNIVERSITY LAND
SURVEY

SECTION 9
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 10
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 6
BLOCK 43
UNIVERSITY LAND
SURVEY

INTERNAL PLAT OF
DEVON ENERGY PRODUCTION COMPANY, L.P.
UNIVERSITY 48-1 WEST 3H
LIN (WOLFCAMP) FIELD
(163.237 ACRES)
UNIVERSITY LEASE
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UNIVERSITY LAND SURVEY

LEASE LINES

SHL: 352' FNL & 571' FEL
PP & FTP: 352' FNL & 653' FWL
LTP & BHL: 100' FSL & 653' FWL
REAGAN COUNTY, TEXAS

DRILLABLE
12/09/14
AO

FILE: S:\TX\EL_D09ADD AREA\UNIVERSITY_BLK_48\DRAWING\48-1\14-01684 UNIVERSITY 48-1 WEST 3H 12-08-2014.dwg



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LEGEND

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PP	PENETRATION POINT	---	SUBJECT PROPOSED LATERAL	---	
FTP	FIRST TAKE POINT	---	PROPOSED LATERAL	---	
LTP	LAST TAKE POINT	---	ASDRILLED LATERAL	---	
BHL	BOTTOM HOLE LOCATION	---			
RR	RAILROAD COMMISSION				
●	POINT	○	PROPOSED WELL LOCATION SET	○	EXISTING WELLHEAD
		○	SURFACE LOCATION OBTAINED FROM RRC		

