

API No. <u>42-383-38645</u> Drilling Permit # <u>779034</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	
1. RRC Operator No. <u>216378</u>		2. Operator's Name (as shown on form P-5, Organization Report) <u>DEVON ENERGY PRODUCTION CO, L.P.</u>		3. Operator Address (include street, city, state, zip): 		
4. Lease Name <u>UNIVERSITY 48-11</u>		5. Well No. <u>2H</u>				
GENERAL INFORMATION						
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D) </div>						
7. Wellbore Profile (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between;"> <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 </div>						
8. Total Depth <u>9000</u>		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. <u>7C</u>		12. County <u>REAGAN</u>		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>10.52</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 <u>11</u>	16. Block <u>48</u>	17. Survey <u>UL</u>	18. Abstract No. <u>A-</u>	19. Distance to nearest lease line: <u>100</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>337</u>	
21. Lease Perpendiculars: <u>200</u> ft from the <u>SOUTH</u> line and <u>878</u> ft from the <u>WEST</u> line.		22. Survey Perpendiculars: <u>200</u> ft from the <u>SOUTH</u> line and <u>878</u> ft from the <u>WEST</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	6500	940.00	2
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [RRC STAFF Feb 26, 2014 8:55 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Feb 26, 2014 10:03 AM]: Per Annette Raines, "337.00 acres is the correct acreage total for this lease. The University 48-11 #1WW well was permitted as a water supply well only. It will not be drilled - the lease has been reformed and will now hold 337.00 acres."; [RRC STAFF Feb 26, 2014 10:03 AM]: Problems identified with this permit are resolved.			Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="display: flex; justify-content: space-between;"> <div> <u>Annette Raines, Regulatory Specialist</u> Name of filer </div> <div> <u>Feb 05, 2014</u> Date submitted </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(405)2288217</u> Phone </div> <div> <u>annette.raines@dvn.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only Data Validation Time Stamp: Feb 28, 2014 2:31 PM('As Approved' Version)						

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

**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 #	779034
Approved Date:	Feb 28, 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 48-11	4. Well No. 2H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 11	7. Block 48	8. Survey UL	9. Abstract 10. County of BHL REAGAN
11. Terminus Lease Line Perpendiculars 100 ft. from the North line, and 1320 ft. from the West line 12. Terminus Survey Line Perpendiculars 100 ft. from the North line, and 1320 ft. from the West line 13. Penetration Point Lease Line Perpendiculars 200 ft. from the South line, and 1320 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 779034	DATE PERMIT ISSUED OR AMENDED Feb 28, 2014	DISTRICT * 7C
API NUMBER 42-383-38645	FORM W-1 RECEIVED Feb 05, 2014	COUNTY REAGAN
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 337
OPERATOR DEVON ENERGY PRODUCTION CO, L.P.		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 48-11		WELL NUMBER 2H
LOCATION 10.52 miles SE direction from BIG LAKE		TOTAL DEPTH 9000
Section, Block and/or Survey SECTION ◀ 11 BLOCK ◀ 48 ABSTRACT ◀ SURVEY ◀ UL		
DISTANCE TO SURVEY LINES 200 ft. SOUTH 878 ft. WEST		DISTANCE TO NEAREST LEASE LINE 100 ft.
DISTANCE TO LEASE LINES 200 ft. SOUTH 878 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
-----	-----	-----
LIN (WOLFCAMP)	337.00	6,500
UNIVERSITY 48-11	100	2H 7C
		940

WELLBORE PROFILE(s) FOR FIELD: Horizontal		

RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 200.0 F SOUTH L 1320.0 F WEST L Terminus Location BH County: REAGAN Section: 11 Block: 48 Abstract: Survey: UL Lease Lines: 100.0 F NORTH L 1320.0 F WEST L Survey Lines: 100.0 F NORTH L 1320.0 F WEST L		
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <p>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.</p>		

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DISTANCE TO LEASE LINES 200 ft. SOUTH 878 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
WELL # NEAREST WE		
DIST		
<p>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.</p> <p>If the University 48-11 #1WW well is ever completed, the lease name and acreage issue must be addressed.</p>		

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **February 18, 2014**

GAU File No.: SC- **11695**

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

API Number **38300000**

Attention: **ANNETTE RAINES**

RRC Lease No. **000000**

SC_216378_38300000_000000_11695.pdf

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

--Measured--

838 ft FWL

200 ft FSL

MRL: SECTION

P-5# 216378

Digital Map Location:

X-coord/Long **101.31661**

Y-coord/Lat **31.10341**

Datum **83**

Zone

County **REAGAN**

Lease & Well No. **UNIVERSITY 48-11 #1H&PAD**

Purpose **ND**

Location **SUR-UL, BLK-48, SEC-11, -- [TD=6800] , [RRC 7C] ,**

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

The interval from the land surface to the base of the SANTA ROSA, which is estimated to occur at a depth of 850 feet, must be protected.

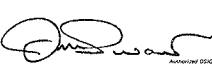
This recommendation is applicable to all wells drilled on this pad.

University 48-11 #2H

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: cn=US, st=TEXAS, l=Austin, o=Railroad
Commission of Texas, ou=Groundwater
Advisory Unit, cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2014.02.18 11:20:20 -05'00'

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 2/18/2014
Note: Alteration of this electronic document will invalidate the digital signature.



SECTION 9
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 10
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 6
BLOCK 43
UNIVERSITY LAND
SURVEY

SECTION 12
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 11
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 15
BLOCK 43
UNIVERSITY LAND
SURVEY

SECTION 16
BLOCK 43
UNIVERSITY LAND
SURVEY

SECTION 20
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 19
BLOCK 48
UNIVERSITY LAND
SURVEY

2H LTP & BHL
N:10371428.20
E:1989357.63
LAT:31°07'02.0919"
LON:-101°19'05.6127"
LAT:31.11723134
LON:-101.3181737
NAD 83, TX CENTRAL

(337.000)
(W/2 SECTION
11 BLOCK 48)
UNIVERSITY
LANDS LEASE

University 48-11
337 Acres

2H SHL
N:10366398.01
E:1988901.29
ELEV:2684
LAT:31°06'12.2649"
LON:-101°18'59.3512"
LAT:31.10340892
LON:-101.3164865
NAD 83, TX CENTRAL

2H PP & FTP
N:10366396.90
E:1989343.36
LAT:31°06'12.2926"
LON:-101°19'05.2661"
LAT:31.10339817
LON:-101.3180774
NAD 83, TX CENTRAL

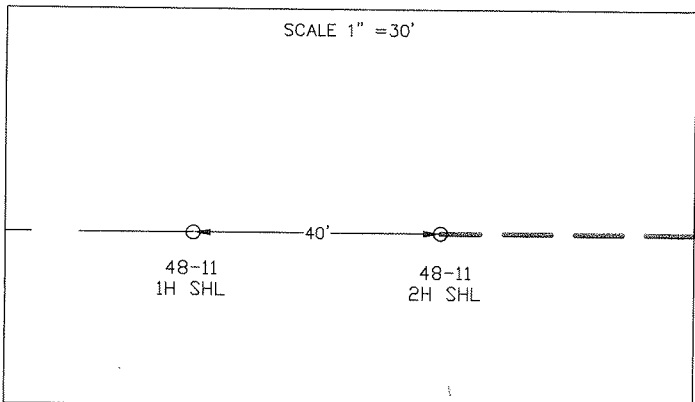
LINE	BEARING	DISTANCE
L1	S 89°51'23" E	442.08'
L2	N 00°09'45" E	5031.32'

SEE INSERT

NOTE:			
Combined Scale Factor: 0.999758702			
SHL IS APPROXIMATELY 10.52 MILES S 53°33'05" E OF THE			
COURTHOUSE IN BIG LAKE, REAGAN COUNTY, TEXAS.			

INSERT

SCALE 1" = 30'



PERMIT PLAT OF
DEVON ENERGY PRODUCTION COMPANY, L.P.

UNIVERSITY 48-11 2H

LIN (WOLFCAMP) FIELD

SURVEY LINES

SHL: 200' FSL & 878' FWL

PP & FTP: 200' FSL & 1320' FWL

LTP & BHL: 100' FNL & 1320' FWL

SECTION 11 BLOCK 48
UNIVERSITY LAND SURVEY

LEASE LINES

SHL: 200' FSL & 878' FWL

PP: 200' FSL & 1320' FWL

BHL: 100' FNL & 1320' FWL

REAGAN COUNTY, TEXAS

337.00 Acres



- NOTE:
1. BEARINGS, DISTANCES & ACREAGE 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 SUB-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.

01-30-2014
DATE

ORIGINALLY STAKED: 01-14-2014

REV: - AFE NO.: 101056 JOB NO.: 14-00084 DRAWN BY: TJB



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

SL
KOP
PP
LP
BL
RRC

SURFACE HOLE LOCATION
KICK OFF POINT
PENETRATION POINT
LANDING POINT
BOTTOM HOLE LOCATION
RAILROAD COMMISSION

LEGEND

● POINT

○ PROPOSED WELL LOCATION SET

AS MARKED

○ SURFACE LOCATION OBTAINED FROM RRC

--- SURVEY LINE ---
--- SUBJECT PROPOSED LATERAL ---
--- PROPOSED LATERAL ---
--- ASDRILLED LATERAL ---

UNIT BOUNDARY

UNLEASED AREA

R.C.O.G.L.R. REAGAN COUNTY OIL AND GAS
LEASE RECORDS
R.C.O.P.R. REAGAN COUNTY OFFICIAL PUBLIC RECORDS

SHEET 1 OF 1

red plat 2-4-14



SECTION 9
BLOCK 48
UNIVERSITY LAND
SURVEY

2H LTP & BHL
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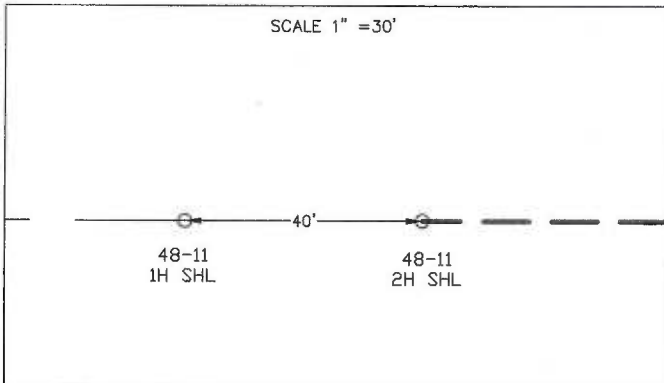
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DEVON ENERGY PRODUCTION COMPANY, L.P.

UNIVERSITY 48-11 2H

LIN (WOLFCAMP) FIELD
SURVEY LINES

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SECTION 11 BLOCK 48
UNIVERSITY LAND SURVEY

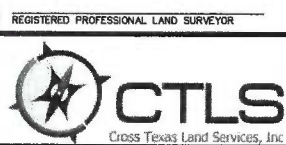
LEASE LINES

SHL: 200' FSL & 878' FWL
PP: 200' FSL & 1320' FWL
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REAGAN COUNTY, TEXAS



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ORIGINALLY STAKED: 01-14-2014



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LEGEND

- SL SURFACE HOLE LOCATION
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- UNIT BOUNDARY
- UNLEASED AREA

● POINT ○ PROPOSED WELL LOCATION SET + AS MARKED ○ SURFACE LOCATION OBTAINED FROM RRC

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LEASE RECORDS
R.C.O.P.R. REAGAN COUNTY OFFICIAL PUBLIC RECORDS

SHEET 1 OF 1