

API No. <u>42-383-39278</u> Drilling Permit # <u>800105</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 48-9 WEST		5. Well No. 5H				
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>8.82</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 9		16. Block 48		17. Survey UL		
		18. Abstract No. A-U321		19. Distance to nearest lease line: 100 ft.		
20. Number of contiguous acres in lease, pooled unit, or unitized tract: 503.55						
21. Lease Perpendiculars: <u>150</u> ft from the <u>NORTH</u> line and <u>499</u> ft from the <u>EAST</u> line.						
22. Survey Perpendiculars: <u>150</u> ft from the <u>NORTH</u> line and <u>2254</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	
7C	53613750	LIN (WOLFCAMP)	Oil or Gas Well	7400	0.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks 			<u>Certificate:</u> I certify that information stated in this application is true and complete, to the best of my knowledge.			
			Annette Raines, Regulatory Specialist Nov 12, 2014 Name of filer Date submitted			
RRC Use Only Data Validation Time Stamp: Nov 13, 2014 10:28 AM(Current Version)			<u>(405)2288217</u> <u>annette.raines@dvn.com</u> Phone E-mail Address (OPTIONAL)			

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 #	800105
Approved Date:	Nov 13, 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 48-9 WEST	4. Well No. 5H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 12	7. Block 48	8. Survey UL	9. Abstract
		10. County of BHL REAGAN	
11. Terminus Lease Line Perpendiculars 100 ft. from the South line. and 499 ft. from the East line			
12. Terminus Survey Line Perpendiculars 2566 ft. from the North line. and 2254 ft. from the West line			
13. Penetration Point Lease Line Perpendiculars 250 ft. from the North line. and 499 ft. from the East 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 800105	DATE PERMIT ISSUED OR AMENDED Nov 13, 2014	DISTRICT * 7C	
API NUMBER 42-383-39278	FORM W-1 RECEIVED Nov 12, 2014	COUNTY REAGAN	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 503.55	
OPERATOR DEVON ENERGY PRODUCTION CO, L.P. ATTN VICTORIA SANCHEZ 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102-5010		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 48-9 WEST		WELL NUMBER 5H	
LOCATION 8.82 miles SE direction from BIG LAKE		TOTAL DEPTH 9000	
Section, Block and/or Survey SECTION 9 BLOCK 48 ABSTRACT U321 SURVEY UL			
DISTANCE TO SURVEY LINES 150 ft. NORTH 2254 ft. WEST		DISTANCE TO NEAREST LEASE LINE 100 ft.	
DISTANCE TO LEASE LINES 150 ft. NORTH 499 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
-----		-----	-----
LIN (WOLFCAMP)		503.55	7,400
UNIVERSITY 48-9 WEST		100	0
-----		-----	-----
WELLBORE PROFILE(s) FOR FIELD: Horizontal			

RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 250.0 F NORTH L 499.0 F EAST L Terminus Location BH County: REAGAN Section: 12 Block: 48 Abstract: Survey: UL Lease Lines: 100.0 F SOUTH L 499.0 F EAST L Survey Lines: 2566.0 F NORTH L 2254.0 F WEST 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.			

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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 48-9 WEST		WELL NUMBER 5H										
LOCATION 8.82 miles SE direction from BIG LAKE		TOTAL DEPTH 9000										
Section, Block and/or Survey SECTION ◀ 9 BLOCK ◀ 48 ABSTRACT ◀ U321 SURVEY ◀ UL												
DISTANCE TO SURVEY LINES 150 ft. NORTH 2254 ft. WEST		DISTANCE TO NEAREST LEASE LINE 100 ft.										
DISTANCE TO LEASE LINES 150 ft. NORTH 499 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>												
<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">FIELD NAME</td> <td style="width: 10%;">ACRES</td> <td style="width: 10%;">DEPTH</td> <td style="width: 10%;">WELL #</td> <td style="width: 10%;">DIST</td> </tr> <tr> <td>LEASE NAME</td> <td>NEAREST LEASE</td> <td></td> <td>NEAREST WE</td> <td></td> </tr> </table> <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>			FIELD NAME	ACRES	DEPTH	WELL #	DIST	LEASE NAME	NEAREST LEASE		NEAREST WE	
FIELD NAME	ACRES	DEPTH	WELL #	DIST								
LEASE NAME	NEAREST LEASE		NEAREST WE									

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 **November 12, 2014**

GAU File No.: **12127**

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

API Number **38300000**

Attention: **ANNETTE RAINES**

RRC Lease No. **000000**

SC_216378_38300000_000000_12127.pdf

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

--Measured--

2254 ft FWL

150 ft FNL

MRL:SECTION

P-5# 216378

Digital Map Location:

X-coord/Long **101.32988**

Y-coord/Lat **31.13159**

Datum **83**

Zone

County **REAGAN**

Lease & Well No. **UNIVERSITY 48-9 WEST #5H**

Purpose **ND**

Location **SUR-UL,BLK-48,SEC-9,-- [TD=7300] , [RRC 7C] ,**

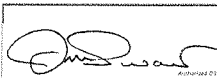
To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

**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).

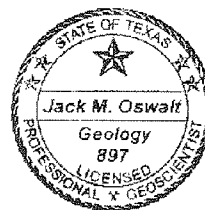
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

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: 2014.11.12 14:09:57 -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 11/12/2014
Note: Alteration of this electronic document will invalidate the digital signature.

SECTION 3
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 2
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 1
BLOCK 48
UNIVERSITY LAND
SURVEY

NOTE:
COMBINED SCALE FACTOR: 0.999758933
SHL IS APPROXIMATELY 8.82 MILES S 60°46'38" E OF THE
COURTHOUSE IN BIG LAKE, REAGAN COUNTY, TEXAS.



SECTION 8
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 9
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 10
BLOCK 48
UNIVERSITY LAND
SURVEY

PERMIT PLAT OF
DEVON ENERGY PRODUCTION COMPANY, L.P.
UNIVERSITY 48-9 WEST #5H
LIN (WOLFCAMP) FIELD
(503.55 ACRES)
UNIVERSITY LEASE
SURVEY LINES

DRILLABLE
11/11/14
TB

SHL: 150' FNL & 2254' FWL
PP & FTP: 250' FNL & 2254' FWL
SECTION 9, BLOCK 48
UNIVERSITY LAND SURVEY
LTP & BHL: 2566' FNL & 2254' FWL
SECTION 12, BLOCK 48
UNIVERSITY LAND SURVEY

LEASE LINES

SHL: 150' FNL & 499' FEL
PP & FTP: 250' FNL & 499' FEL
LTP & BHL: 100' FSL & 499' FEL
REAGAN COUNTY, TEXAS



#5H SHL
N:10376685.41
E:1984800.33
ELEV:2700
LAT:31°07'53.7247"
LON:-101°19'47.5833"
LAT:31.13159021
LON:-101.32988425
NAD 83, US TX
CENTRAL ZONE

#5H PP & FTP
N:10376685.41
E:1984800.05
LAT:31°07'52.7350"
LON:-101°19'47.5762"
LAT:31.13131527
LON:-101.32988228
NAD 83, US TX
CENTRAL ZONE

LINE	BEARING	DISTANCE
L1	S 00°09'40" W	100.00'
L2	S 00°09'40" W	7611.57'

#5H LTP & BHL
N:10368973.87
E:1984778.66
LAT:31°06'37.3968"
LON:-101°19'47.0379"
LAT:31.11038801
LON:-101.32973274
NAD 83, US TX
CENTRAL ZONE

(167.525 ACRES)
UNIVERSITY LEASE
#109042

(167.525 ACRES)
UNIVERSITY LEASE
#109041

(168.500 ACRES)
UNIVERSITY LEASE
#73633

SECTION 13
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 12
BLOCK 48
UNIVERSITY LAND
SURVEY

SECTION 11
BLOCK 48
UNIVERSITY LAND
SURVEY



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

SHL SURFACE HOLE LOCATION
PP PENETRATION POINT
FTP FIRST TAKE POINT
LTP LAST TAKE POINT
BHL BOTTOM HOLE LOCATION
RRC RAILROAD COMMISSION

LEGEND

POINT PROPOSED WELL LOCATION SET
EXISTING WELLHEAD SURFACE LOCATION OBTAINED FROM RRC

SURVEY LINE
SUBJECT PROPOSED LATERAL
PROPOSED LATERAL
ASDRILLED LATERAL

LEASE BOUNDARY



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.

REGISTERED PROFESSIONAL LAND SURVEYOR

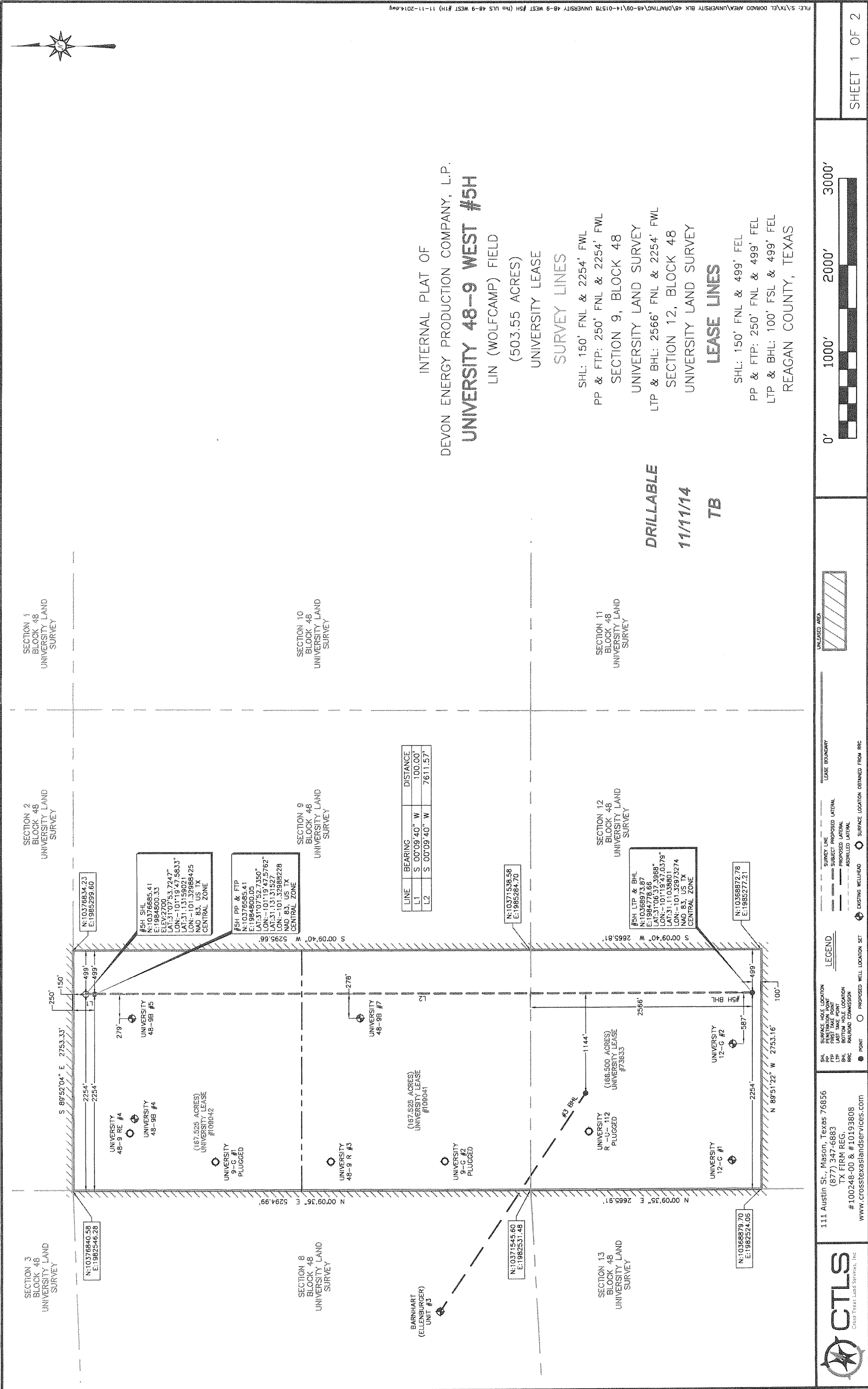
11-11-2014
DATE

ORIGINALLY STAKED: 10-28-2014
NAME CHANGE: 11-03-2014
NAME CHANGE & CORRECTIONS: 11-06-2014
REVISED BHL LOCATION: 11-10-2014

REV: 3 JOB NO.: 14-01578 DRAWN BY: JTL/LLF

SHEET 1 OF 1

FILE: S:\TX\L DORADO AREA\UNIVERSITY BLK 48\DRABTING48-00\14-01578 UNIVERSITY 48-9 WEST #5H (16c) ULS 48-9 WEST #1H) 11-11-2014.dwg



FILE: S:\TX\EL DORADO AREA\UNIVERSITY BLK 48\DRAWING\48-09\14-01578 UNIVERSITY 48-9 WEST #5H (140 ULS 48-9 WEST #5H) 11-11-2014.dwg

CTLS Cross Texas Land Services, Inc. 111 Austin St., Mason, Texas 76856 (877) 347-6883 TX FIRM REG. #100248-00 & #10193808 www.cross-texas-land-services.com

LEGEND: SURFACE HOLE LOCATION, PENETRATION POINT, FIRST TAKE POINT, BOTTOM HOLE LOCATION, RAILROAD COMMISSION, POINT, PROPOSED WELL LOCATION SET, EXISTING WELLHEAD, SURFACE LOCATION OBTAINED FROM RRC, SURVEY LINE, LEASE BOUNDARY, SUBJECT PROPOSED LATERAL, PROPOSED LATERAL, ASKILLED LATERAL.

0' 1000' 2000' 3000'

SHEET 1 OF 2