

API No. <u>42-301-33048</u>	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION				FORM W-1 07/2004	
Drilling Permit # <u>819356</u>	APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER				Permit Status: Approved	
SWR Exception Case/Docket No. _____		<i>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.</i>				
1. RRC Operator No. 774719	2. Operator's Name (as shown on form P-5, Organization Report) SHELL WESTERN E&P			3. Operator Address (include street, city, state, zip): PO BOX 576 HOUSTON, TX 77001-0000		
4. Lease Name UNIVERSITY 19 UNIT			5. Well No. 2504			
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 checked="" 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 12200	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 08	12. County LOVING		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>13.5</u> miles in a <u>SE</u> direction from <u>Mentone</u> which is the nearest town in the county of the well site.						
15. Section 25	16. Block 19	17. Survey UNIVERSITY LAND		18. Abstract No. A-	19. Distance to nearest lease line: 200 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 673.92
21. Lease Perpendiculars: <u>2366</u> ft from the <u>NE</u> line and <u>2379</u> ft from the <u>SE</u> line.						
22. Survey Perpendiculars: <u>2366</u> ft from the <u>NE</u> line and <u>2379</u> ft from the <u>SE</u> line.						
23. Is this a pooled unit? <input checked="" type="checkbox"/> Yes <input 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
08	71052900	PHANTOM (WOLFCAMP)		Oil Well	11800	1050.00
08	92100050	TWO GEORGES (BONE SPRING)		Oil Well	11800	1050.00
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [FILER May 19, 2017 2:32 PM]: Amended Permit needed to add Two Georges (Bone Spring) field. Shell is offset Operator and grants itself a waiver. A SWR 10 Exception will be filed on this well to downhole commingle the Phantom (Wolfcamp) and Two Georges (Bone Spring) fields.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. George Mullen, Sr. Regulatory Specialist Name of filer _____ Date submitted May 19, 2017 (832)337-0549 george.mullen@shell.com Phone E-mail Address (OPTIONAL)		
RRC Use Only Data Validation Time Stamp: Jun 5, 2017 2:36 PM('As Approved' Version)						

**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

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A certification of the automated data is available in the RRC's Austin office.*

Permit # **819356**
Approved Date: **Jun 05, 2017**

1. RRC Operator No. 774719	2. Operator's Name (exactly as shown on form P-5, Organization Report) SHELL WESTERN E&P	3. Lease Name UNIVERSITY 19 UNIT	4. Well No. 2504
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)**

6. Section 22	7. Block 19	8. Survey UNIVERSITY LAND	9. Abstract	10. County of BHL LOVING
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11. Terminus Lease Line Perpendiculars 1993 ft. from the NE line. and 200 ft. from the NW line
12. Terminus Survey Line Perpendiculars 1993 ft. from the NE line. and 200 ft. from the NW line
13. Penetration Point Lease Line Perpendiculars 1993 ft. from the NE line. and 2489 ft. from the NW line

5. Field as shown on Form W-1 **TWO GEORGES (BONE SPRING) (Field # 92100050, RRC District 08)**

6. Section 22	7. Block 19	8. Survey UNIVERSITY LAND	9. Abstract	10. County of BHL LOVING
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11. Terminus Lease Line Perpendiculars 1993 ft. from the NE line. and 200 ft. from the NW line
12. Terminus Survey Line Perpendiculars 1993 ft. from the NE line. and 200 ft. from the NW line
13. Penetration Point Lease Line Perpendiculars 1993 ft. from the NE line. and 2489 ft. from the NW line

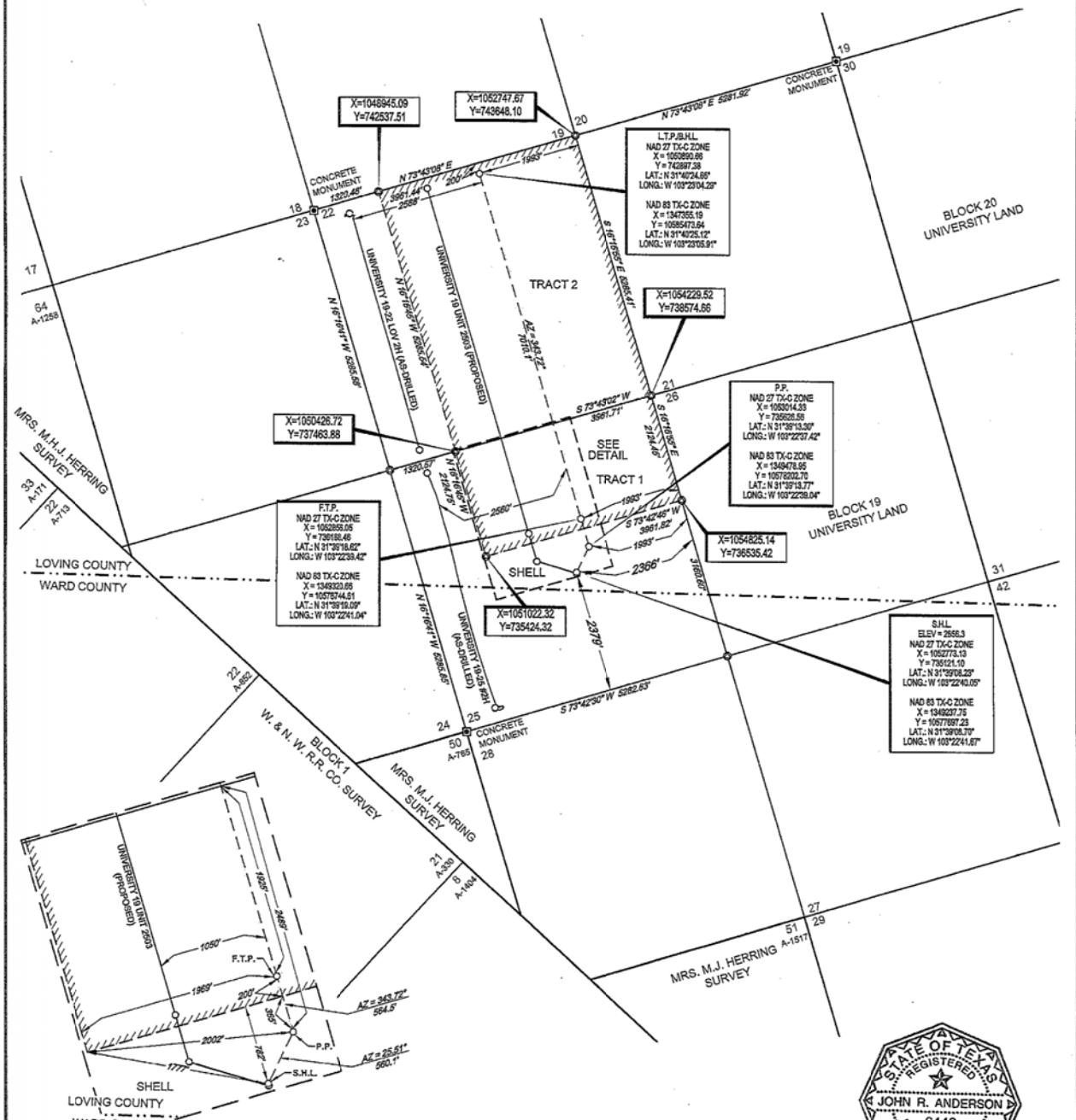
UNIVERSITY 19 UNIT 2504
 673.92 ACRES (MEASURED)
 SECTIONS 22 & 25, BLOCK 19, UNIVERSITY LAND
 LOVING COUNTY, TEXAS
 UNIT LOCATION

**SHELL WESTERN
 E&P**



LEGEND

- UNIT BOUNDARY
- APPROXIMATE LOCATION COUNTY LINE
- BLOCK/TOWNSHIP LINE
- SURVEY/SECTION LINE
- PROPOSED WELL PATH
- EXISTING/PERMITTED WELL PATH
- CONCRETE MONUMENT
- CALCULATED CORNER
- WELL POINT



F.T.P.
 NAD 27 TX-C ZONE
 X = 1050426.72
 Y = 737463.88
 LAT: N 31°39'18.62"
 LONG: W 103°22'38.42"
 NAD 83 TX-C ZONE
 X = 1349202.69
 Y = 1057874.61
 LAT: N 31°39'18.09"
 LONG: W 103°22'24.04"

L.T.P./B.H.L.
 NAD 27 TX-C ZONE
 X = 1050992.89
 Y = 740997.39
 LAT: N 31°40'24.69"
 LONG: W 103°23'04.29"
 NAD 83 TX-C ZONE
 X = 1347355.19
 Y = 10585473.64
 LAT: N 31°40'25.42"
 LONG: W 103°23'05.91"

P.P.
 NAD 27 TX-C ZONE
 X = 1053014.33
 Y = 739528.59
 LAT: N 31°39'18.39"
 LONG: W 103°22'37.42"
 NAD 83 TX-C ZONE
 X = 1349478.65
 Y = 10578202.70
 LAT: N 31°39'18.77"
 LONG: W 103°22'39.94"

S.H.L.
 ELEV = 2566.3
 NAD 27 TX-C ZONE
 X = 1052778.13
 Y = 739521.19
 LAT: N 31°39'18.29"
 LONG: W 103°22'43.09"
 NAD 83 TX-C ZONE
 X = 1349237.25
 Y = 10577897.23
 LAT: N 31°39'08.79"
 LONG: W 103°22'41.67"

TIES TABLE

POINT	UNIT	SURVEY/SECTION
S.H.L.	782' FSEL	2396' FNEL & 2379' FSEL
P.P.	365' FSEL	1993' FNEL & 2002' FSWC
F.T.P.	1985' FSWL	1993' FNEL & 2002' FSWC
L.T.P./S.H.L.	1993' FSEL	1993' FSEL & 200' FSWL

OWNERSHIP TABLE

#	MINERAL TRACT	ACREAGE
1	UNIVERSITY LAND	153.23
2	UNIVERSITY LAND	490.69
---	TOTAL ACREAGE	673.92

TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 197 - FT. WORTH, TEXAS 76140
 TELEPHONE (817) 744-7912 • FAX (817) 744-7548
 TEXAS FIRM REGISTRATION NO. 10042694
 WWW.TOPOGRAPHIC.COM



John R. Anderson
 John R. Anderson, R.P.L.S. No. 6442
 OCTOBER 11, 2016

UNIVERSITY 19 UNIT 2504	REVISION:		NOTES:	NOTES CONT'D:
	INT	DATE		
	O.M.	10/11/2016	1. ORIGINAL DOCUMENT SIZE: 11" X 17" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983, UNLESS OTHERWISE NOTED. 3. THIS LOCATION AND/OR UTILIZATION BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY SHELL WESTERN E&P. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.P.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY. 4. ALL ELEVATION VALUES CONTAINED HEREIN ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD 89), U.S. SURVEY FEET. 5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHELL WESTERN E&P OR ITS SUBSIDIARIES & AFFILIATES.	8. THE LEASE AND WELL SHOWN HEREON ARE LOCATED APPROXIMATELY 1.3 MILES SOUTH-EAST OF THE CITY/TOWNSHIP/JURISDICTIONALITY OF MENTON WITHIN THE COUNTY OF LOVING IN THE STATE OF TEXAS, AND LOCATED APPROXIMATELY 41.1 MILES NORTH-EAST OF THE CITY/TOWNSHIP/JURISDICTIONALITY OF BARSTOW WITHIN THE COUNTY OF WARD IN THE STATE OF TEXAS. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF JUNE 1, 2016, AT A GROUND LEVEL ELEVATION OF 2886.5 SURVEY FEET. 9. S.H.L. = SURFACE HOLE LOCATION 10. F.T.P. = FIRST TAKE POINT 11. L.T.P. = LAST TAKE POINT 12. B.H.L. = BOTTOM HOLE LOCATION
DATE:	10/03/2016			
FILE:	UNIVERSITY_19_UNIT_2504_OPT_2_REV1			
DRAWN BY:	O.M.			
SHEET:	1 OF 1			