

API No. <u>42-475-35473</u> Drilling Permit # <u>848736</u> SWR Exception Case/Docket No. _____		<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <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>				<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>	
1. RRC Operator No. <b>252002</b>		2. Operator's Name (as shown on form P-5, Organization Report) <b>ENERGEN RESOURCES CORPORATION</b>		3. Operator Address (include street, city, state, zip): <b>3510 N A ST BLDGS A AND B MIDLAND, TX 79705-0000</b>			
4. Lease Name <b>UNIVERSITY 20</b>		5. Well No. <b>4701</b>					
<b>GENERAL INFORMATION</b>							
6. Purpose of filing (mark ALL appropriate boxes): <input type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input checked="" 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 <b>12000</b>		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			
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>							
11. RRC District No. <b>08</b>		12. County <b>WARD</b>		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 <b>12</b> miles in a <b>NW</b> direction from <b>Pyote</b> which is the nearest town in the county of the well site.							
15. Section <b>47</b>	16. Block <b>20</b>	17. Survey <b>UL</b>		18. Abstract No. <b>A-</b>	19. Distance to nearest lease line: <b>640</b> ft.	20. Number of contiguous acres-in lease, pooled unit, or unitized tract: <b>640</b>	
21. Lease Perpendiculars: <b>660</b> ft from the <b>SOUTHEAST</b> line and <b>660</b> ft from the <b>SOUTHWEST</b> line.							
22. Survey Perpendiculars: <b>660</b> ft from the <b>SOUTHEAST</b> line and <b>660</b> ft from the <b>SOUTHWEST</b> 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			
<b>FIELD INFORMATION</b> 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	
<b>08</b>	<b>92100050</b>	<b>TWO GEORGES (BONE SPRING)</b>		<b>Oil Well</b>	<b>12000</b>	<b>0.00</b>	
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS-DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks See W1 Comments attached				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Jenifer Sorley, Sr. Regulatory Specialist</u> <u>Jan 15, 2019</u> Name of filer    Date submitted  <u>(432)8181732</u> <u>jsorley@diamondbackenergy.com</u> Phone    E-mail Address (OPTIONAL)			
<b>RRC Use Only</b> Data Validation Time Stamp: <b>Jul 8, 2019 7:49 AM( Current Version )</b>							

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**

*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 #	848736
Approved Date:	Jul 02, 2019

1. RRC Operator No. 252002	2. Operator's Name (exactly as shown on form P-5, Organization Report) ENERGEN RESOURCES CORPORATION	3. Lease Name UNIVERSITY 20	4. Well No. 4701
<b>Lateral/Drainhole Location Information</b>			
5. Field as shown on Form W-1 TWO GEORGES (BONE SPRING) (Field # 92100050, RRC District 08)			
6. Section 47	7. Block 20	8. Survey UL	9. Abstract
			10. County of BHL WINKLER
11. Terminus Lease Line Perpendiculars 2008 ft. from the SE line, and 675 ft. from the NE line			
12. Terminus Survey Line Perpendiculars 2008 ft. from the SE line, and 675 ft. from the NE line			
13. Penetration Point Lease Line Perpendiculars 638 ft. from the SE line, and 816 ft. from the SW line			

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**

**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.*

**W-1 Comments**

Permit #                      **848736**

Approved Date:    **Jul 02, 2019**

[FILER Jan 14, 2019 3:12 PM]: Permit being filed to change field from War-Wink, S. (Wolfcamp) per attached letter.; [RRC STAFF Jan 15, 2019 4:16 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Feb 5, 2019 1:35 PM]: Problems identified with this permit are resolved.; [RRC STAFF Feb 5, 2019 1:35 PM]: Per Jenifer Sorley, the terminus location is in Winkler County. Plat is correct.; [RRC STAFF Feb 5, 2019 3:50 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Feb 26, 2019 12:22 PM]: Revised plat attached.; [RRC STAFF Feb 26, 2019 12:23 PM]: Problems identified with this permit are resolved.; [RRC STAFF Feb 26, 2019 12:27 PM]: Corrected GPS coordinates to reflect revised plat.; [RRC STAFF Feb 26, 2019 12:30 PM]: Corrected SHL survey and lease line calls to reflect revised plat. Previous values 660 S & 660 W, corrected to 660 SE & 660 SW.; [RRC STAFF Feb 26, 2019 12:41 PM]: Corrected PP lease line calls to reflect revised plat. Previous values 660 S & 660 W, corrected to 638 SE & 816 SW.; [RRC STAFF Feb 26, 2019 12:42 PM]: Corrected FTP lease line calls to reflect revised plat. Previous values 660 S & 660 W, corrected to 640 SE & 846 SW.; [RRC STAFF Feb 26, 2019 12:43 PM]: Corrected LTP lease line calls to reflect revised plat. Previous values 1984 S & 660 E, corrected to 1329 SE & 2511 NE.; [RRC STAFF Feb 26, 2019 2:11 PM]: Corrected BHL survey and lease line calls to reflect revised plat. Previous values 1984 S & 660 E, corrected to 2008 SE & 675 NE.; [RRC STAFF Feb 26, 2019 2:11 PM]: Corrected Distance to Nearest Lease Line to reflect revised plat. Previous value 660, corrected to 640.; [RRC STAFF Mar 1, 2019 3:53 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Apr 2, 2019 11:06 AM]: Problems identified with this permit are resolved.; [RRC STAFF Apr 2, 2019 11:07 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Jul 2, 2019 3:50 PM]: Problems identified with this permit are resolved.

**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 <b>848736</b>	DATE PERMIT ISSUED OR AMENDED <b>Jul 02, 2019</b>	DISTRICT <b>* 08</b>
API NUMBER <b>42-475-35473</b>	FORM W-1 RECEIVED <b>Jan 15, 2019</b>	COUNTY <b>WARD</b>
TYPE OF OPERATION <b>FIELD TRANSFER</b>	WELLBORE PROFILE(S) <b>Horizontal</b>	ACRES <b>640</b>
OPERATOR <b>ENERGEN RESOURCES CORPORATION</b> <b>3510 N A ST BLDGS A AND B</b> <b>MIDLAND, TX 79705-0000</b>		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. <b>District Office Telephone No:</b> <b>(432) 684-5581</b>
LEASE NAME <b>UNIVERSITY 20</b>		WELL NUMBER <b>4701</b>
LOCATION <b>12 miles NW direction from PYOTE</b>		TOTAL DEPTH <b>12000</b>
Section, Block and/or Survey SECTION ◀ <b>47</b> BLOCK ◀ <b>20</b> ABSTRACT ◀ SURVEY ◀ <b>UL</b>		
DISTANCE TO SURVEY LINES <b>660 ft. SOUTHEAST    660 ft. SOUTHWEST</b>		DISTANCE TO NEAREST LEASE LINE <b>640 ft.</b>
DISTANCE TO LEASE LINES <b>660 ft. SOUTHEAST    660 ft. SOUTHWEST</b>		DISTANCE TO NEAREST WELL ON LEASE <b>See FIELD(s) Below</b>
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
-----	-----	-----
<b>TWO GEORGES (BONE SPRING)</b>	<b>640.00</b>	<b>12,000</b>
<b>UNIVERSITY 20</b>	<b>640</b>	<b>4701    08</b>
-----		
WELLBORE PROFILE(s) FOR FIELD: <b>Horizontal</b>		
-----		
RESTRICTIONS:    This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.		
Lateral: TH1		
Penetration Point Location		
Lease Lines:            638.0 F SE L		
816.0 F SW L		
Terminus Location		
BH County: WINKLER		
Section: 47                      Block: 20                      Abstract:		
Survey: UL		
Lease Lines:            2008.0 F SE L		
675.0 F NE L		
Survey Lines:            2008.0 F SE L		
675.0 F NE L		
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p>		

**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 848736	DATE PERMIT ISSUED OR AMENDED Jul 02, 2019	DISTRICT * 08
API NUMBER 42-475-35473	FORM W-1 RECEIVED Jan 15, 2019	COUNTY WARD
TYPE OF OPERATION FIELD TRANSFER	WELLBORE PROFILE(S) Horizontal	ACRES 640
OPERATOR ENERGEN RESOURCES CORPORATION 3510 N A ST BLDGS A AND B MIDLAND, TX 79705-0000		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: (432) 684-5581
LEASE NAME UNIVERSITY 20		WELL NUMBER 4701
LOCATION 12 miles NW direction from PYOTE		TOTAL DEPTH 12000
Section, Block and/or Survey SECTION ◀ 47                      BLOCK ◀ 20                      ABSTRACT ◀ SURVEY ◀ UL		
DISTANCE TO SURVEY LINES 660 ft. SOUTHEAST    660 ft. SOUTHWEST		DISTANCE TO NEAREST LEASE LINE 640 ft.
DISTANCE TO LEASE LINES 660 ft. SOUTHEAST    660 ft. SOUTHWEST		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
WELL # NEAREST WE		
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. 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**

**WARD (475) County**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	1,700	1,700		1	12/17/2013
YATES	2,000	2,800		2	12/17/2013
SEVEN RIVERS	2,375	2,375		3	12/17/2013
QUEEN	2,200	3,200		4	12/17/2013
GLORIETA	3,900	4,000		5	12/17/2013
SAN ANDRES	2,000	4,500	high flows, H2S, corrosive	6	12/17/2013
HOLT	4,600	4,800		7	12/17/2013
CLEARFORK	4,500	5,000		8	12/17/2013
DELAWARE	2,300	5,000		9	12/17/2013
TUBB	4,600	5,300		10	12/17/2013
WICHITA ALBANY	6,000	6,200		11	12/17/2013
CHERRY CANYON	4,800	7,800		12	12/17/2013
WADDELL	7,600	9,700		13	12/17/2013
BONE SPRINGS	4,700	9,800		14	12/17/2013
WOLFCAMP	6,000	12,750		15	12/17/2013
MONTOYA	14,500	14,500		16	12/17/2013
PENNSYLVANIAN	7,500	14,900		17	12/17/2013
ATOKA	12,000	15,000		18	12/17/2013
FUSSELMAN	6,400	17,500		19	12/17/2013
DEVONIAN	6,200	17,800		20	12/17/2013
ELLENBURGER	7,900	20,800		21	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.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>