

API No. <u>42-495-33880</u> Drilling Permit # <u>828344</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>562560</u>		2. Operator's Name (as shown on form P-5, Organization Report) <u>MEWBOURNE OIL COMPANY</u>			3. Operator Address (include street, city, state, zip): <u>BOX 7698</u> <u>TYLER, TX 75711-0000</u>		
4. Lease Name <u>UNIVERSITY B21 8</u>		5. Well No. <u>W101CN</u>					
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <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; margin-top: 5px;"> <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; margin-top: 5px;"> <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>13000</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. <u>08</u>		12. County <u>WINKLER</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>6.2</u> miles in a <u>W</u> direction from <u>Wink</u> which is the nearest town in the county of the well site.							
15. Section <u>8</u>		16. Block <u>21</u>		17. Survey <u>UL</u>		18. Abstract No. <u>A-</u>	
				19. Distance to nearest lease line: <u>200</u> ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>640.7</u>	
21. Lease Perpendiculars: <u>185</u> ft from the <u>NORTH</u> line and <u>1660</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>185</u> ft from the <u>NORTH</u> line and <u>1660</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	
<u>08</u>	<u>71052900</u>	<u>PHANTOM (WOLFCAMP)</u>		<u>Oil or Gas Well</u>	<u>13000</u>	<u>1498.00</u>	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks 				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>Rebecca Dunn, Consultant</u> Name of filer <u>(806)665-0338</u> Phone </div> <div> <u>Jun 28, 2017</u> Date submitted <u>radunn@cableone.net</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only Data Validation Time Stamp: <u>Jul 6, 2017 8:58 AM(Current Version)</u>							

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 # **828344**

Approved Date: **Jul 05, 2017**

1. RRC Operator No. 562560	2. Operator's Name (exactly as shown on form P-5, Organization Report) MEWBOURNE OIL COMPANY	3. Lease Name UNIVERSITY B21 8	4. Well No. W101CN
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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 8	7. Block 21	8. Survey UL	9. Abstract	10. County of BHL WINKLER
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11. Terminus Lease Line Perpendiculars
200 ft. from the **South** line. and **1980** ft. from the **West** line

12. Terminus Survey Line Perpendiculars
200 ft. from the **South** line. and **1980** ft. from the **West** line

13. Penetration Point Lease Line Perpendiculars
185 ft. from the **North** line. and **1660** 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 828344	DATE PERMIT ISSUED OR AMENDED Jul 05, 2017	DISTRICT * 08
API NUMBER 42-495-33880	FORM W-1 RECEIVED Jun 28, 2017	COUNTY WINKLER
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 640.7
OPERATOR MEWBOURNE OIL COMPANY BOX 7698 TYLER, TX 75711-0000		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 B21 8		WELL NUMBER W101CN
LOCATION 6.2 miles W direction from WINK		TOTAL DEPTH 13000
Section, Block and/or Survey SECTION 8 BLOCK 21 ABSTRACT SURVEY UL		
DISTANCE TO SURVEY LINES 185 ft. NORTH 1660 ft. WEST		DISTANCE TO NEAREST LEASE LINE 200 ft.
DISTANCE TO LEASE LINES 185 ft. NORTH 1660 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
PHANTOM (WOLFCAMP) UNIVERSITY B21 8	640.70 200	13,000 1498
WELLBORE PROFILE(s) FOR FIELD: Horizontal		
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: 185.0 F NORTH L 1660.0 F WEST L Terminus Location BH County: WINKLER Section: 8 Block: 21 Abstract: Survey: UL Lease Lines: 200.0 F SOUTH L 1980.0 F WEST L Survey Lines: 200.0 F SOUTH L 1980.0 F WEST L		
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS		

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FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>			
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE
<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> <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> The designated interval for one or more of the fields approved in this permit appears to overlap with the designated interval of another field or fields in this district. In the case of conflicting designated intervals you will be required to be consistent in field designation on this lease. Further, if the designated interval overlap of wells on this lease results in an actual or potential double assignment of reservoir and the applicant cannot conclusively demonstrate that there is no double assignment, the permitted well may not be assigned an allowable until the conflict is resolved. Because of the overlapping designated intervals in this area, issuance of this permit does not guarantee that the completion of the well will be approved or that the well will receive an allowable in any given field, even if that field is listed on the approved permit application. </p>			

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data**

WINKLER (495) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	725	725	possible flow; possible usable quality water	1	12/17/2013
COLBY-QUEEN	2,900	3,200		2	12/17/2013
YATES	2,280	3,200		3	12/17/2013
QUEEN-SEVEN RIVERS	2,700	3,400		4	12/17/2013
SAN ANDRES	3,600	4,400	high flows, H2S, corrosive	5	12/17/2013
HOLT	4,500	4,800		6	12/17/2013
DELAWARE	4,300	5,000		7	12/17/2013
GLORIETA	4,900	5,600		8	12/17/2013
CLEARFORK	4,750	6,200		9	12/17/2013
WICHITA ALBANY	6,600	6,850		10	12/17/2013
BRUSHY CANYON	7,300	7,300		11	12/17/2013
CHERRY CANYON	6,000	7,800		12	12/17/2013
CANYON	8,400	8,400		13	12/17/2013
BONE SPRINGS	9,000	9,800		14	12/17/2013
MONTOYA	10,300	10,300		15	12/17/2013
WADDELL	11,000	11,000		16	12/17/2013
WOLFCAMP	7,600	12,400		17	12/17/2013
ATOKA	12,900	12,900		18	12/17/2013
STRAWN	8,100	14,800		19	12/17/2013
PENNSYLVANIAN	8,000	15,500		20	12/17/2013
MISSISSIPPIAN	10,200	17,300		21	12/17/2013
DEVONIAN	7,900	17,800		22	12/17/2013
SILURIAN	8,500	18,000		23	12/17/2013
FUSSELMAN	9,700	18,800		24	12/17/2013
ELLENBURGER	9,500	21,400		25	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>

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date issued: 27 July 2016**GAU Number:** 157958**Attention:** MEWBOURNE OIL COMPANY
BOX 7698
TYLER, TX 75711**Operator No.:** 562560**API Number:**
County: WINKLER
Lease Name: University B21 8
Lease Number:
Well Number: W202DM
Total Vertical Depth: 13000
Latitude: 31.752436
Longitude: -103.263229
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-21; Section-8

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 Allurosa, which is estimated to occur at a depth of 950 feet, must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

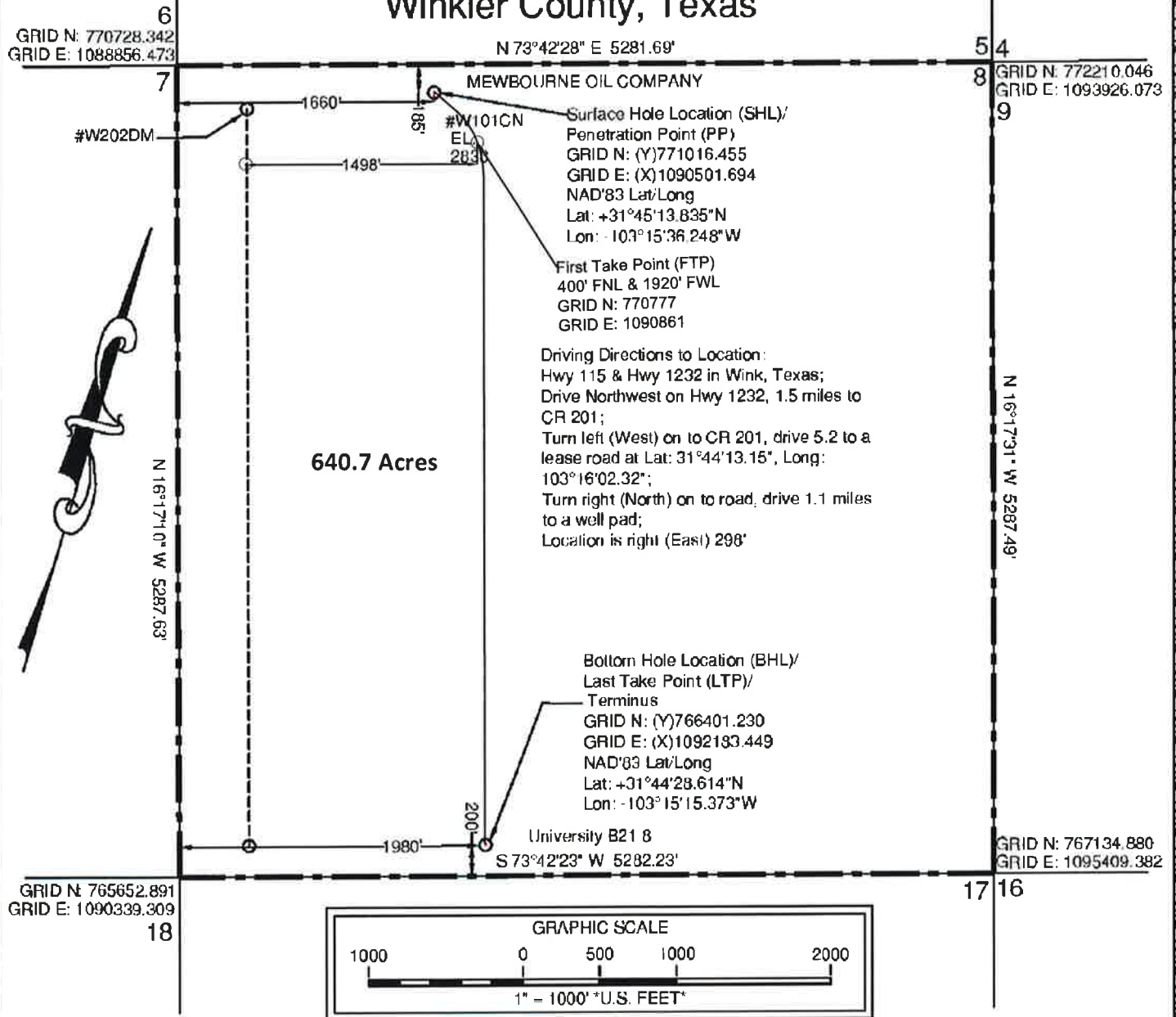
This recommendation is applicable for all wells drilled in this Section 8 on this Lease.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 07/26/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Block 21, University Lands Survey Winkler County, Texas



Note: Well is located 6.2 miles West of the city of Wink, Texas.

Note: Survey Reconstruction filed in the Office of Pennell & Marlowe Land Surveyors, Inc.

Note: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.

Note: Coordinates shown herein are on The Texas Coordinate System of 1927, Central Zone. USGS Quadrangle Sheet: Cheyenne Draw SE, Tex. & Soda Lake NE, Tex.

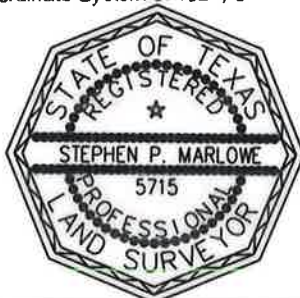
Railroad Commission Permit Plat

MEWBOURNE OIL COMPANY
University B21 8 #W101CN
185' FROM NORTH LINE
1660' FROM WEST LINE
University B21 8 Lease
640.7 Acres being all of
Section 8, Block 21
University Lands Survey
Winkler County, Texas

Scale: 1" = 1000'



Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715



June 07, 2017

170607D-BCL

P.O. Box 51887, Midland, Texas 79710 (432) 262-0901 Fax (432) 262-0679 Firm #100201-00