

Spud: 9-30-07 Serial#: 3078 W-1# 3802 104381 = N/GSW/A

API No. <u>42-475-35281</u> Drilling Permit # <u>646044</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. <u>153429</u>	2. Operator's Name (as shown on form P-5, Organization Report) <b>CIMAREX ENERGY CO. OF COLORADO</b>	3. Operator Address (include street, city, state, zip): _____				
4. Lease Name <b>CIMAREX UNIVERSITY '18-38'</b>	5. Well No. <u>2H</u>					
<b>GENERAL INFORMATION</b>						
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 <u>12200</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				
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <u>08</u>	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 <u>25.4</u> miles in a <u>NW</u> direction from <u>Monohans</u> which is the nearest town in the county of the well site.						
15. Section <u>38</u>	16. Block <u>18</u>	17. Survey <b>UNIVERSITY LANDS</b>				
18. Abstract No. <u>A-</u>	19. Distance to nearest lease line: <u>660</u> ft	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>480</u>				
21. Lease Perpendiculars: <u>660</u> ft from the <u>NORTH</u> line and <u>1210</u> ft from the <u>EAST</u> line. 22. Survey Perpendiculars: <u>660</u> ft from the <u>NORTH</u> line and <u>1210</u> ft from the <u>EAST</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						
<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	32. Number of Wells on this lease in this Reservoir
08	92100050	TWO GEORGES (BONE SPRING)	Oil Well	11650	0.00	1
08	95130900	WAR-WINK, W. (WOLFCAMP)	Oil Well	11650	0.00	1
08	00018001	WILDCAT	Oil or Gas Well	11650	0.00	1
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
<b>Remarks</b> [FILER Sep 13, 2007 11:19 AM]: Drill new horizontal oil well in Two Georges Field.				<b>Certificate:</b> 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>Zeno Farris</u>            Name of filer         </div> <div> <u>Sep 13, 2007</u>            Date submitted         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(972)4436489</u>            Phone         </div> <div> <u>zfarris@cimarex.com</u>            E-mail Address (OPTIONAL)         </div> </div>		
<b>RRC Use Only</b> Data Validation Time Stamp: <u>Sep 17, 2007 5:27 PM ('As Approved' 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**

*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 # **646044**

Approved Date: **Sep 17, 2007**

1. RRC Operator No. <b>153429</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>CIMAREX ENERGY CO. OF COLORADO</b>	3. Lease Name <b>CIMAREX UNIVERSITY '18-38'</b>	4. Well No. <b>2H</b>
--------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------	--------------------------

**Lateral Drainhole Location Information**

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

6. Section <b>38</b>	7. Block <b>18</b>	8. Survey <b>UNIVERSITY LANDS</b>	9. Abstract	10. County of BHL <b>WARD</b>
-------------------------	-----------------------	--------------------------------------	-------------	----------------------------------

11. Terminus Lease Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 12. Terminus Survey Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 13. Penetration Point Lease Line Perpendiculars  
**660** ft. from the **North** line, and **1210** ft. from the **East** line

5. Field as shown on Form W-1 **WAR-WINK, W. (WOLFCAMP) (Field # 95130900, RRC District 08)**

6. Section <b>38</b>	7. Block <b>18</b>	8. Survey <b>UNIVERSITY LANDS</b>	9. Abstract	10. County of BHL <b>WARD</b>
-------------------------	-----------------------	--------------------------------------	-------------	----------------------------------

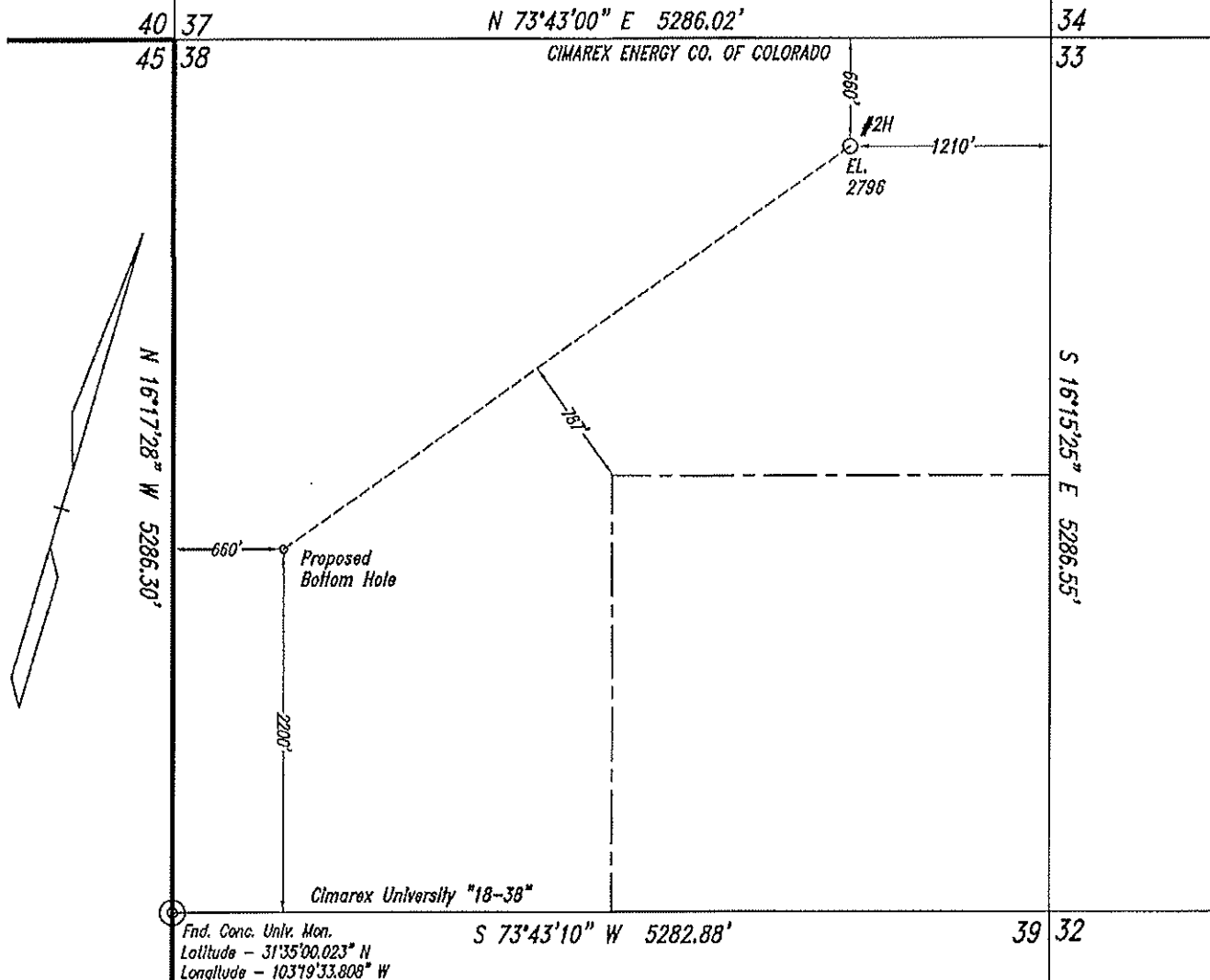
11. Terminus Lease Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 12. Terminus Survey Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 13. Penetration Point Lease Line Perpendiculars  
**660** ft. from the **North** line, and **1210** ft. from the **East** line

5. Field as shown on Form W-1 **WILDCAT (Field # 00018001, RRC District 08)**

6. Section <b>38</b>	7. Block <b>18</b>	8. Survey <b>UNIVERSITY LANDS</b>	9. Abstract	10. County of BHL <b>WARD</b>
-------------------------	-----------------------	--------------------------------------	-------------	----------------------------------

11. Terminus Lease Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 12. Terminus Survey Line Perpendiculars  
**660** ft. from the **West** line, and **2200** ft. from the **South** line  
 13. Penetration Point Lease Line Perpendiculars  
**660** ft. from the **North** line, and **1210** ft. from the **East** line

# Block 18 University Lands



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.

Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.

A combined grid factor of 0.9998018 must be divided into Section Line distances to obtain a true horizontal distance.

Note: Example: (S-99999) indicates General Land Office file number.

Note: NAD '27 Coordinates & Latitude/Longitude on well location in Section 38.

Note: Well location is approximately 25.4 miles west-northwest of Monahans.

#2H (Surface Location)

X: 1070805.16 Latitude - 31°35'55.957" N  
Y: 715197.40 Longitude - 103°19'05.326" W

Proposed Bottom Hole

X: 1068207.13 Latitude - 31°35'22.750" N  
Y: 711910.76 Longitude - 103°19'34.333" W

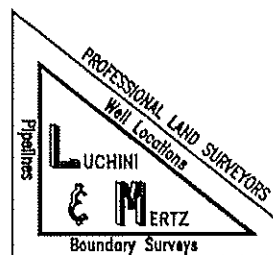
Railroad Commission Permit Plat



*Steven L. Prewit*

September 7, 2007

07090701



CIMAREX ENERGY CO. OF COLORADO  
Cimarex University "18-38" Lease  
W/2 & NE/4 of  
Section 38, Block 18,  
University Lands  
Ward County, Texas

Scale: 1" = 1000'

**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 646044	DATE PERMIT ISSUED OR AMENDED Sep 17, 2007	DISTRICT * 08																																													
API NUMBER 42-475-35281	FORM W-1 RECEIVED Sep 13, 2007	COUNTY WARD																																													
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 480																																													
OPERATOR CIMAREX ENERGY CO. OF COLORADO 153429		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 CIMAREX UNIVERSITY '18-38'		WELL NUMBER 2H																																													
LOCATION 25.4 miles NW direction from MONOHANS		TOTAL DEPTH 12200																																													
Section, Block and/or Survey SECTION ◀ 38                      BLOCK ◀ 18                      ABSTRACT ◀ SURVEY ◀ UNIVERSITY LANDS																																															
DISTANCE TO SURVEY LINES 660 ft. NORTH    1210 ft. EAST		DISTANCE TO NEAREST LEASE LINE 660 ft.																																													
DISTANCE TO LEASE LINES 660 ft. NORTH    1210 ft. EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below																																													
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *																																															
<table style="width:100%; border: none;"> <thead> <tr> <th style="text-align: left;">FIELD NAME LEASE NAME</th> <th style="text-align: left;">ACRES NEAREST LEASE</th> <th style="text-align: left;">DEPTH NEAREST WE</th> <th style="text-align: left;">WELL # NEAREST WE</th> <th style="text-align: left;">DIST</th> </tr> </thead> <tbody> <tr> <td> Lease Lines:                      660.0 F NORTH L                                           1210.0 F EAST L  Terminus Location  BH County: WARD  Section: 38                      Block: 18                      Abstract:  Survey: UNIVERSITY LANDS  Lease Lines:                      660.0 F WEST L                                           2200.0 F SOUTH L  Survey Lines:                      660.0 F WEST L                                           2200.0 F SOUTH L </td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td>WAR-WINK, W. (WOLFCAMP)</td> <td>480.00</td> <td>11,650</td> <td>2H</td> <td>08</td> </tr> <tr> <td>CIMAREX UNIVERSITY '18-38'</td> <td>660</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td colspan="5">WELLBORE PROFILE(s) FOR FIELD: Horizontal</td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td colspan="5"> RESTRICTIONS:    Lateral: TH1  Penetration Point Location  Lease Lines:                      660.0 F NORTH L                                           1210.0 F EAST L  Terminus Location  BH County: WARD  Section: 38                      Block: 18                      Abstract:  Survey: UNIVERSITY LANDS  Lease Lines:                      660.0 F WEST L                                           2200.0 F SOUTH L  Survey Lines:                      660.0 F WEST L                                           2200.0 F SOUTH L </td> </tr> </tbody> </table>			FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE	WELL # NEAREST WE	DIST	Lease Lines:                      660.0 F NORTH L 1210.0 F EAST L Terminus Location BH County: WARD Section: 38                      Block: 18                      Abstract: Survey: UNIVERSITY LANDS Lease Lines:                      660.0 F WEST L 2200.0 F SOUTH L Survey Lines:                      660.0 F WEST L 2200.0 F SOUTH L					<hr/>					WAR-WINK, W. (WOLFCAMP)	480.00	11,650	2H	08	CIMAREX UNIVERSITY '18-38'	660	0			<hr/>					WELLBORE PROFILE(s) FOR FIELD: Horizontal					<hr/>					RESTRICTIONS:    Lateral: TH1 Penetration Point Location Lease Lines:                      660.0 F NORTH L 1210.0 F EAST L Terminus Location BH County: WARD Section: 38                      Block: 18                      Abstract: Survey: UNIVERSITY LANDS Lease Lines:                      660.0 F WEST L 2200.0 F SOUTH L Survey Lines:                      660.0 F WEST L 2200.0 F SOUTH L				
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE	WELL # NEAREST WE	DIST																																											
Lease Lines:                      660.0 F NORTH L 1210.0 F EAST L Terminus Location BH County: WARD Section: 38                      Block: 18                      Abstract: Survey: UNIVERSITY LANDS Lease Lines:                      660.0 F WEST L 2200.0 F SOUTH L Survey Lines:                      660.0 F WEST L 2200.0 F SOUTH L																																															
<hr/>																																															
WAR-WINK, W. (WOLFCAMP)	480.00	11,650	2H	08																																											
CIMAREX UNIVERSITY '18-38'	660	0																																													
<hr/>																																															
WELLBORE PROFILE(s) FOR FIELD: Horizontal																																															
<hr/>																																															
RESTRICTIONS:    Lateral: TH1 Penetration Point Location Lease Lines:                      660.0 F NORTH L 1210.0 F EAST L Terminus Location BH County: WARD Section: 38                      Block: 18                      Abstract: Survey: UNIVERSITY LANDS Lease Lines:                      660.0 F WEST L 2200.0 F SOUTH L Survey Lines:                      660.0 F WEST L 2200.0 F SOUTH L																																															