

API No. <u>42-475-35065</u> Drilling Permit # <u>615464</u> SWR Exception Case/Docket No. <u>0246643</u> (R37)		<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>147715</u>		2. Operator's Name (as shown on form P-5, Organization Report) <b>CHESAPEAKE OPERATING, INC.</b>		3. Operator Address (include street, city, state, zip):		
4. Lease Name <u>UNIVERSITY 17-18</u>		5. Well No. <u>1H</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 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 <u>15000</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 <u>WARD</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>2.4</u> miles in a <u>W</u> direction from <u>Pyote</u> which is the nearest town in the county of the well site.						
15. Section <u>18</u>	16. Block <u>17</u>	17. Survey <u>UL</u>	18. Abstract No. <u>A-</u>	19. Distance to nearest lease line: <u>511.8</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>640.7</u>	
21. Lease Perpendiculars: <u>1320</u> ft from the <u>E</u> line and <u>1435</u> ft from the <u>S</u> line.						
22. Survey Perpendiculars: <u>1320</u> ft from the <u>E</u> line and <u>1435</u> ft from the <u>S</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    List all fields of anticipated completion including Wildcat. List one zone per line.</b>						
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	74050166	R. O. C. (ATOKA)	Oil or Gas Well	12264	0.00	
08	77830700	RODGERS (WOLFCAMP)	Gas Well	12264	0.00	
08	09288500	BLOCK 17, SOUTHEAST (DELAWARE)	Oil or Gas Well	12264	0.00	
08	15499380	CAPRITO (DELAWARE MIDDLE)	Oil or Gas Well	12264	0.00	
<b>BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)</b>						
<b>Remarks</b> [FILER Oct 19, 2009 3:16 PM]: This the bottomhole is the same as what was originally permitted so no notice should be required. Amended to add the sidetrack lateral; [RRC STAFF Oct 20, 2009 10:52 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Oct 20, 2009 1:38 PM]: Problems identified with this permit are resolved.; [RRC STAFF Oct 21, 2009 9:25 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 12, 2009 1:30 PM]: Problems identified with this permit are resolved.			<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>Bill Spencer</u>            Name of filer         </div> <div> <u>Oct 19, 2009</u>            Date submitted         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(512)9181062</u>            Phone         </div> <div> <u>bgsaustin@sbcglobal.net</u>            E-mail Address (OPTIONAL)         </div> </div>			
<b>RRC Use Only</b> Data Validation Time Stamp:    Apr 30, 2010 2:52 PM( Current Version )						

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**

**W-1 Supplemental Field Data**  
07/2004

**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 #	615464
Approved Date:	Nov 12, 2009

1. RRC Operator No. 147715	2. Operator's Name (exactly as shown on form P-5, Organization Report) CHESAPEAKE OPERATING, INC.	3. Lease Name UNIVERSITY 17-18	4. County WARD
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**ADDITIONAL FIELD INFORMATION ( continued from Page 1 )**

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	00392037	ABRAXAS (BONE SPRING)	Oil Well	12264	0.00	1

Permit Status: **Approved**

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**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**

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**Form W-1H** 07/2004  
**Supplemental Horizontal Well Information**

Permit # **615464**

Approved Date: **Nov 12, 2009**

1. RRC Operator No. <b>147715</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>CHESAPEAKE OPERATING, INC.</b>	3. Lease Name <b>UNIVERSITY 17-18</b>	4. Well No. <b>1H</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **RODGERS (WOLFCAMP) (Field # 77830700, RRC District 08)**

6. Section <b>18</b>	7. Block <b>17</b>	8. Survey <b>UL</b>	9. Abstract	10. County of BHL <b>WARD</b>
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11. Terminus Lease Line Perpendiculars  
**2426** ft. from the **S** line. and **1111** ft. from the **E** line

12. Terminus Survey Line Perpendiculars  
**2426** ft. from the **S** line. and **1111** ft. from the **E** line

13. Penetration Point Lease Line Perpendiculars  
**1504** ft. from the **S** line. and **1335** ft. from the **E** line

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5. Field as shown on Form W-1 **BLOCK 17, SOUTHEAST (DELAWARE) (Field # 09288500, RRC District 08)**

6. Section <b>18</b>	7. Block <b>17</b>	8. Survey <b>UL</b>	9. Abstract	10. County of BHL <b>WARD</b>
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OIL & GAS DIVISION**

**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**

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**Form W-1H** 07/2004  
**Supplemental Horizontal Well Information**

Permit # **615464**

Approved Date: **Nov 12, 2009**

1. RRC Operator No. <b>147715</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>CHESAPEAKE OPERATING, INC.</b>	3. Lease Name <b>UNIVERSITY 17-18</b>	4. Well No. <b>1H</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **BLOCK 17, SOUTHEAST (DELAWARE) (Field # 09288500, RRC District 08)**

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5. Field as shown on Form W-1 **CAPRITO (DELAWARE MIDDLE) (Field # 15499380, RRC District 08)**

6. Section <b>18</b>	7. Block <b>17</b>	8. Survey <b>UL</b>	9. Abstract	10. County of BHL <b>WARD</b>
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Permit Status: **Approved**

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# 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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Permit # **615464**  
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### Lateral Drainhole Location Information

5. Field as shown on Form W-1 **R. O. C. (ATOKA) (Field # 74050166, RRC District 08)**

6. Section <b>18</b>	7. Block <b>17</b>	8. Survey <b>UL</b>	9. Abstract	10. County of BHL <b>WARD</b>
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5. Field as shown on Form W-1 **ABRAXAS (BONE SPRING) (Field # 00392037, RRC District 08)**

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Permit Status: **Approved**

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**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

**Form W-1H** 07/2004  
**Supplemental Horizontal Well Information**

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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **ABRAXAS (BONE SPRING) (Field # 00392037, RRC District 08)**

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**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>615464</b>	DATE PERMIT ISSUED OR AMENDED (AMENDED) <b>Nov 12, 2009</b>	DISTRICT <b>* 08</b>																																								
API NUMBER <b>42-475-35065</b>	FORM W-1 RECEIVED <b>Oct 19, 2009</b>	COUNTY <b>WARD</b>																																								
TYPE OF OPERATION <b>NEW DRILL</b>	WELLBORE PROFILE(S) <b>Horizontal</b>	ACRES <b>640.7</b>																																								
OPERATOR <b>CHESAPEAKE OPERATING, INC.</b>		147715 <b>NOTICE</b> 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 17-18</b>		WELL NUMBER <b>1H</b>																																								
LOCATION <b>2.4 miles W direction from PYOTE</b>		TOTAL DEPTH <b>15000</b>																																								
Section, Block and/or Survey SECTION ◀ <b>18</b> BLOCK ◀ <b>17</b> ABSTRACT ◀ SURVEY ◀ <b>UL</b>																																										
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FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p> <p align="center">** THIS PERMIT IS GRANTED PURSUANT TO STATEWIDE RULE 37(h)(2)(B) **</p> <p align="center">CASE NO. 0246643</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">FIELD NAME LEASE NAME</th> <th style="text-align: center;">ACRES NEAREST LEASE</th> <th style="text-align: center;">DEPTH NEAREST LEASE</th> <th style="text-align: center;">WELL # NEAREST WE</th> <th style="text-align: center;">DIST</th> </tr> </thead> <tbody> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td><b>** R. O. C. (ATOKA)</b></td> <td align="center"><b>640.70</b></td> <td align="center"><b>12,264</b></td> <td align="center"><b>1H</b></td> <td align="center"><b>08</b></td> </tr> <tr> <td><b>UNIVERSITY 17-18</b></td> <td align="center"><b>511.8</b></td> <td></td> <td align="center"><b>0</b></td> <td></td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td colspan="5"><b>WELLBORE PROFILE(s) FOR FIELD: Horizontal</b></td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td colspan="5"> <b>RESTRICTIONS:</b>    Lateral: TH1  Penetration Point Location  Lease Lines:            1504.0 F S L                                1335.0 F E L  Terminus Location  BH County: WARD  Section: 18                      Block: 17                      Abstract:  Survey: UL  Lease Lines:                511.8 F N L                                       784.9 F E L  Survey Lines:               511.8 F N L                                       784.9 F E L  Lateral: TH2  Penetration Point Location  Lease Lines:            1504.0 F S L                                1335.0 F E L  Terminus Location  BH County: WARD  Section: 18                      Block: 17                      Abstract:  Survey: UL  Lease Lines:               2426.0 F S L </td> </tr> </tbody> </table>			FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST	<hr/>					<b>** R. O. C. (ATOKA)</b>	<b>640.70</b>	<b>12,264</b>	<b>1H</b>	<b>08</b>	<b>UNIVERSITY 17-18</b>	<b>511.8</b>		<b>0</b>		<hr/>					<b>WELLBORE PROFILE(s) FOR FIELD: Horizontal</b>					<hr/>					<b>RESTRICTIONS:</b> Lateral: TH1 Penetration Point Location Lease Lines:            1504.0 F S L 1335.0 F E L Terminus Location BH County: WARD Section: 18                      Block: 17                      Abstract: Survey: UL Lease Lines:                511.8 F N L 784.9 F E L Survey Lines:               511.8 F N L 784.9 F E L Lateral: TH2 Penetration Point Location Lease Lines:            1504.0 F S L 1335.0 F E L Terminus Location BH County: WARD Section: 18                      Block: 17                      Abstract: Survey: UL Lease Lines:               2426.0 F S L				
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PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

**Data Validation Time Stamp:** Apr 30, 2010 2:52 PM( Current Version )



**RAILROAD COMMISSION OF TEXAS**  
**OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

<b>PERMIT NUMBER</b> <div style="text-align: right;"><b>615464</b></div>	<b>DATE PERMIT ISSUED OR AMENDED (AMENDED)</b> <div style="text-align: right;">Nov 12, 2009</div>	<b>DISTRICT</b> <div style="text-align: right;">* 08</div>																																														
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<b>OPERATOR</b> <div style="text-align: right;"><b>CHESAPEAKE OPERATING, INC.</b></div>		<div style="text-align: right;"><b>147715</b></div>	<b>NOTICE</b> 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> <div style="text-align: right;">(432) 684-5581</div>																																													
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**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

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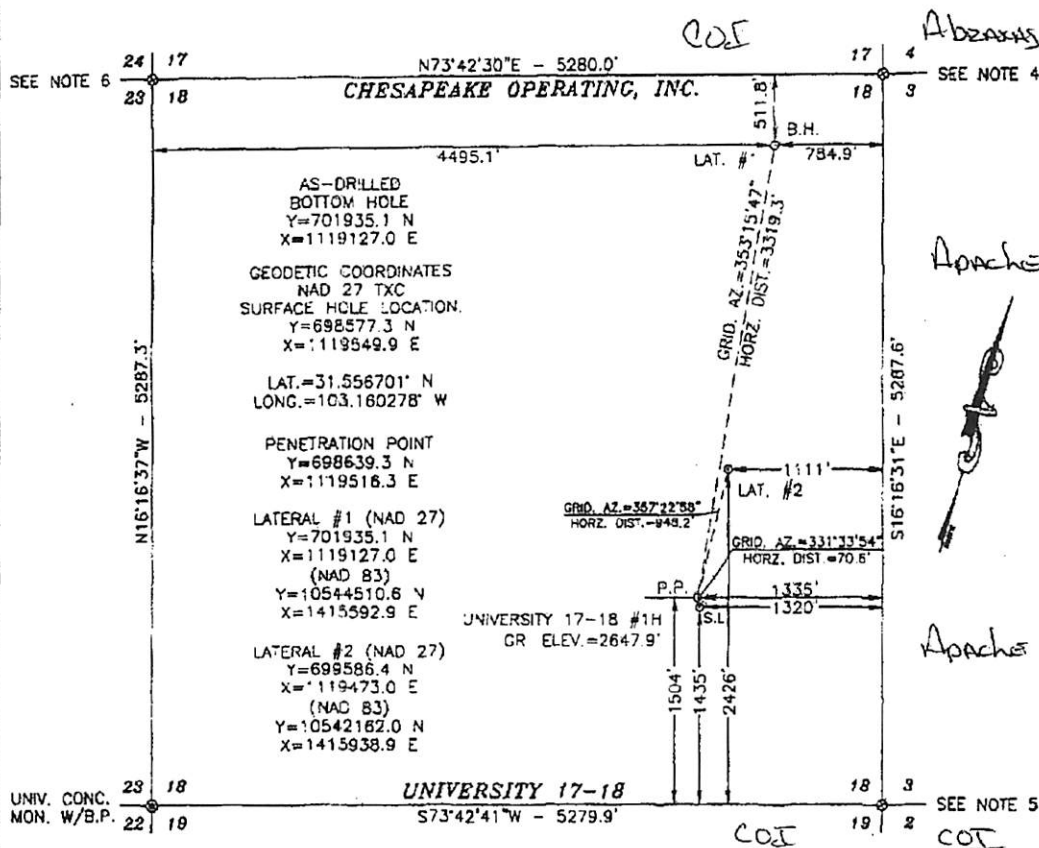
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**SECTION 18, BLOCK 17, UNIVERSITY LAND SURVEY**  
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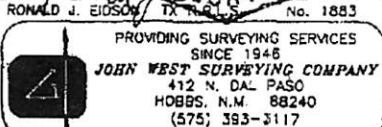
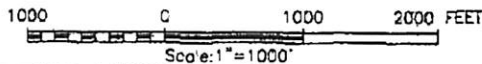
**LEGEND**

- DENOTES PROPOSED WELL LOCATION
- DENOTES FOUND MONUMENT AS NOTED
- ⊙ DENOTES CALCULATED CORNER
- DENOTES B.H. LATERAL NO. 1 ABANDONED DUE TO OBSTRUCTION IN THE HOLE

**NOTES:**

1. THIS LOCATION IS APPROXIMATELY 2.4 MILES NORTHWEST OF PYOTE, TEXAS.
2. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE, WHICH DESCRIBES THE RECONSTRUCTION OF THIS SECTION.
3. BEARINGS SHOWN HEREON ARE LAMBERT GRID AND CONFORM TO THE "TEXAS COORDINATE SYSTEM" TEXAS CENTRAL ZONE, NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
4. CALC. CORNER FROM WHICH A UNIV. MON. AT THE NEc 4 BRS. N16°16'31"W 5287.6' AND N73°42'18"E 5280.2'.
5. CALC. CORNER FROM WHICH A UNIV. MON. AT THE SEc 3 BRS. N73°42'41"E 5279.9'.
6. CALC. CORNER FROM WHICH A UNIV. MON. AT THE NWc 7 BRS. N16°16'37"W 5287.3'.

NOTE: AS-DRILLED BOTTOM HOLE LOCATION & PENETRATION POINT PLOTTED FROM SURVEY REPORT PREPARED BY SCHLUMBERGER



**CHESAPEAKE OPERATING, INC.**

UNIVERSITY 17-18 #1H  
LOCATED 1435 FEET FROM THE SOUTH LINE  
AND 1320 FEET FROM EAST LINE OF  
SECTION 18, BLOCK 17,  
UNIVERSITY LAND SURVEY,  
WARD COUNTY, TEXAS

Survey Date: 2/17/06	Sheet 1 of 1 Sheets
W.O. Number: 09.13.0936	Drawn By: LA REV:10/16/09
Date: 12/11/08 REL:08132101	09130936 Scale: 1"=1000'