

API No. <u>42-003-40714</u> Drilling Permit # <u>794191</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> <small>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.</small>				<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>	
1. RRC Operator No. <b>172232</b>		2. Operator's Name (as shown on form P-5, Organization Report) <b>CONOCOPHILLIPS COMPANY</b>			3. Operator Address (include street, city, state, zip): <b>ATTN JUDITH CLIFFORD</b> <b>600 N DAIRY ASHFORD P10 03 3004</b> <b>HOUSTON, TX 77079-0000</b>		
4. Lease Name <b>UNIVERSITY ANDREWS</b>		5. Well No. <b>161</b>					
<b>GENERAL INFORMATION</b>							
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span><input type="checkbox"/> New Drill</span> <span><input checked="" type="checkbox"/> Recompletion</span> <span><input type="checkbox"/> Reclass</span> <span><input type="checkbox"/> Field Transfer</span> <span><input type="checkbox"/> Re-Enter</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span><input type="checkbox"/> Amended</span> <span><input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)</span> </div>							
7. Wellbore Profile (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span><input checked="" type="checkbox"/> Vertical</span> <span><input type="checkbox"/> Horizontal (Also File Form W-1H)</span> <span><input type="checkbox"/> Directional (Also File Form W-1D)</span> <span><input type="checkbox"/> Sidetrack</span> </div>							
8. Total Depth <b>7095</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>ANDREWS</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>16</u> miles in a <u>SW</u> direction from <u>Andrews</u> which is the nearest town in the county of the well site.							
15. Section <b>19</b>	16. Block <b>10</b>	17. Survey <b>UL</b>		18. Abstract No. <b>A-U303</b>	19. Distance to nearest lease line: <b>660</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>3891.32</b>	
21. Lease Perpendiculars: <u>660</u> ft from the <u>NORTH</u> line and <u>3372</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>660</u> ft from the <u>NORTH</u> line and <u>660</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			
<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	
08	28843666	EMBAR (PERMIAN)		Oil or Gas Well	5300	1341.00	
08	35654664	GOLDSMITH, N. (SAN ANDRES, CON.)		Oil or Gas Well	4600	1341.00	
<b>BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS</b>							
Remarks    				<u>Certificate:</u> 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>Colleen Reda, Regulatory Specialist</u>            Name of filer  <u>(281)2065219</u>            Phone         </div> <div> <u>Aug 14, 2014</u>            Date submitted  <u>Colleen.Redata@contractor.cop.com</u>            E-mail Address (OPTIONAL)         </div> </div>			
				RRC Use Only    Data Validation Time Stamp:    Jan 27, 2015 1:23 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

PERMIT NUMBER <div style="text-align: right;">794191</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Sep 10, 2014</div>	DISTRICT <div style="text-align: center;">* 08</div>			
API NUMBER <div style="text-align: right;">42-003-40714</div>	FORM W-1 RECEIVED <div style="text-align: center;">Aug 14, 2014</div>	COUNTY <div style="text-align: center;">ANDREWS</div>			
TYPE OF OPERATION <div style="text-align: center;">RECOMPLETION</div>	WELLBORE PROFILE(S) <div style="text-align: center;">Vertical</div>	ACRES <div style="text-align: center;">3891.32</div>			
OPERATOR <div style="text-align: right;">172232</div> <div style="text-align: center;">CONOCOPHILLIPS COMPANY</div> ATTN JUDITH CLIFFORD 600 N DAIRY ASHFORD P10 03 3004 HOUSTON, TX 77079-0000		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: <div style="text-align: center;">(432) 684-5581</div>			
LEASE NAME <div style="text-align: center;">UNIVERSITY ANDREWS</div>		WELL NUMBER <div style="text-align: center;">161</div>			
LOCATION <div style="text-align: center;">16 miles SW direction from ANDREWS</div>		TOTAL DEPTH <div style="text-align: center;">7095</div>			
Section, Block and/or Survey <div style="display: flex; justify-content: space-between;"> <div>SECTION ◀ 19</div> <div>BLOCK ◀ 10</div> <div>ABSTRACT ◀ U303</div> </div> <div style="display: flex; justify-content: space-between;"> <div>SURVEY ◀ UL</div> <div></div> <div></div> </div>					
DISTANCE TO SURVEY LINES <div style="text-align: center;">660 ft. NORTH    660 ft. WEST</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">660 ft.</div>			
DISTANCE TO LEASE LINES <div style="text-align: center;">660 ft. NORTH    3372 ft. WEST</div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: center;">See FIELD(s) Below</div>			
FIELD(s) and LIMITATIONS: <div style="text-align: center;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div>					
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST
----- EMBAR (PERMIAN) UNIVERSITY ANDREWS		3891.32 660	5,300 1341	161 1341	08
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.					
----- GOLDSMITH, N. (SAN ANDRES, CON.) UNIVERSITY ANDREWS		3891.32 660	4,600 1341	161 1341	08
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.					
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS					

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TYPE OF OPERATION <div style="text-align: center;"><b>RECOMPLETION</b></div>	WELLBORE PROFILE(S) <div style="text-align: center;"><b>Vertical</b></div>	ACRES <div style="text-align: center;"><b>3891.32</b></div>										
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LEASE NAME <div style="text-align: center;"><b>UNIVERSITY ANDREWS</b></div>		WELL NUMBER <div style="text-align: center;"><b>161</b></div>										
LOCATION <div style="text-align: center;"><b>16 miles SW direction from ANDREWS</b></div>		TOTAL DEPTH <div style="text-align: center;"><b>7095</b></div>										
Section, Block and/or Survey <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">           SECTION  <b>19</b>            SURVEY  <b>UL</b> </div> <div style="width: 30%;">           BLOCK  <b>10</b> </div> <div style="width: 30%;">           ABSTRACT  <b>U303</b> </div> </div>												
DISTANCE TO SURVEY LINES <div style="text-align: center;"><b>660 ft. NORTH 660 ft. WEST</b></div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;"><b>660 ft.</b></div>										
DISTANCE TO LEASE LINES <div style="text-align: center;"><b>660 ft. NORTH 3372 ft. WEST</b></div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: center;"><b>See FIELD(s) Below</b></div>										
FIELD(s) and LIMITATIONS: <div style="text-align: center; margin-top: 10px;"><b>* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</b></div> <div style="margin-top: 20px;"> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">FIELD NAME</td> <td style="width: 10%;">ACRES</td> <td style="width: 10%;">DEPTH</td> <td style="width: 10%;">WELL #</td> <td style="width: 10%;">DIST</td> </tr> <tr> <td>LEASE NAME</td> <td>NEAREST LEASE</td> <td></td> <td>NEAREST WE</td> <td></td> </tr> </table> </div> <div style="margin-top: 20px;"> <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> </div>			FIELD NAME	ACRES	DEPTH	WELL #	DIST	LEASE NAME	NEAREST LEASE		NEAREST WE	
FIELD NAME	ACRES	DEPTH	WELL #	DIST								
LEASE NAME	NEAREST LEASE		NEAREST WE									

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

ANDREWS (003) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
YATES	2,500	3,200		1	12/17/2013
SEVEN RIVERS	3,000	3,000		2	12/17/2013
QUEEN	3,600	4,800		3	12/17/2013
GRAYBURG	3,100	5,000		4	12/17/2013
SAN ANDRES	3,700	5,300	CO2 flood, high flows, H2S, corrosive	5	12/17/2013
HOLT	5,000	5,500		6	12/17/2013
GLORIETA	5,100	6,000		7	12/17/2013
TUBB	6,100	6,300		8	12/17/2013
CLEARFORK	5,600	7,600		9	12/17/2013
PERMIAN DETRITAL	7,800	7,900		10	12/17/2013
LEON	7,900	7,900		11	12/17/2013
WICHITA ALBANY	6,500	8,100		12	12/17/2013
SPRABERRY	7,300	8,600		13	12/17/2013
DEAN	9,200	9,500		14	12/17/2013
WOLFCAMP	7,500	9,900		15	12/17/2013
CANYON	8,600	10,200		16	12/17/2013
PENNSYLVANIAN	8,700	10,200		17	12/17/2013
MCKEE	8,300	10,600		18	12/17/2013
STRAWN	8,800	11,000		19	12/17/2013
FUSSELMAN	8,400	11,900		20	12/17/2013
DEVONIAN	7,600	12,500		21	12/17/2013
SILURIAN	8,000	12,500		22	12/17/2013
ELLENBURGER	7,900	13,900		23	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.state.tx.us/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>



- 1) Plane Coordinates and Bearings shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas North Central Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866). Reference Stations - "ROSWELL" - CORS (DG6517), "SUMMERFIELD 1" - CORS (AJ1814) and "JAYTON" - CORS (AF9637).
- 3) See information filed in the office of this Surveyor which describes the reconstruction of this Section.

I HEREBY CERTIFY THAT THIS MAP WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.

J. FRANK NEWMAN	TEXAS R.P.L.S. No. 5011
MACON McDONALD	TEXAS R.P.L.S. No. 4398
R. CRAIG ALDERMAN	TEXAS R.P.L.S. No. 5285

**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX

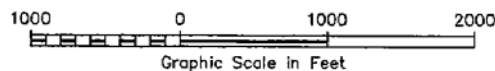
From the intersection of Hwy. 181 and C.R. 7000, go North on Hwy. 181 for 2.6 mi. to cattle guard #13. Then go East on lease road for 0.2 mi. Then turn North on lease road and go 0.3 mi to a point located approximately 400 feet west of location.

### LEGEND

- - Denotes Proposed Well Location
- - Denotes Producing Well Location
- - Denotes Calculated Corner this Survey
- == - Denotes Unit Boundary Line

The University Andrews #161 is located approximately 16 miles Southwest of Andrews, Texas.

Geodetic Coordinate  
Latitude = 32°08'53.76" N  
Longitude = 102°44'00.52" W



CONOCOPHILLIPS

Location of the  
UNIVERSITY ANDREWS #161

660' FNL & 660' FWL  
Section 19, Block 10,  
University Land Survey  
Andrews County, Texas

Drawn By: ALC

Scale: 1"=1000'

Revision Date:

W.O. No: 2008-0745

Date: July 14, 2008

Field Book: 405/ 44-47

Quadrangle: North Cowden NW

Dwg. No.: 2008-0745