

API No. <u>42-405-30408</u> Drilling Permit # <u>708227</u> SWR Exception Case/Docket No. <u>0269038</u> (R37)		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>806668</u>		2. Operator's Name (as shown on form P-5, Organization Report) SOUTHWESTERN ENERGY PROD. CO.		3. Operator Address (include street, city, state, zip):			
4. Lease Name HIGGINBOTHAM U UNIT		5. Well No. 1H					
GENERAL INFORMATION							
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 13500		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			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. 06		12. County SAN AUGUSTINE		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>5.7</u> miles in a <u>NE</u> direction from <u>SAN AUGUSTINE</u> which is the nearest town in the county of the well site.							
15. Section	16. Block	17. Survey HIGGINBOTHAM, J		18. Abstract No. A-525	19. Distance to nearest lease line: 1 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 902.65	
21. Lease Perpendiculars: <u>333</u> ft from the <u>S, SE</u> line and <u>1059</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>606</u> ft from the <u>NORTH</u> line and <u>1059</u> ft from the <u>WEST</u> line.							
23. Is this a pooled unit? <input checked="" type="checkbox"/> Yes <input 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	
06	16032300	CARTHAGE (HAYNESVILLE SHALE)		Gas Well	13300	0.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [RRC STAFF Jan 18, 2011 1:09 PM]: Engineering: SWR 37 due to non-pooled interests.; [RRC STAFF Jan 19, 2011 11:17 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Jan 19, 2011 3:14 PM]: Problems identified with this permit are resolved.				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>Martha Howard</u> Name of filer <u>(281)6184887</u> Phone </div> <div> <u>Jan 10, 2011</u> Date submitted <u>Martha_Howard@SWN.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only							
Data Validation Time Stamp: Jan 19, 2011 3:40 PM('As Approved' 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**

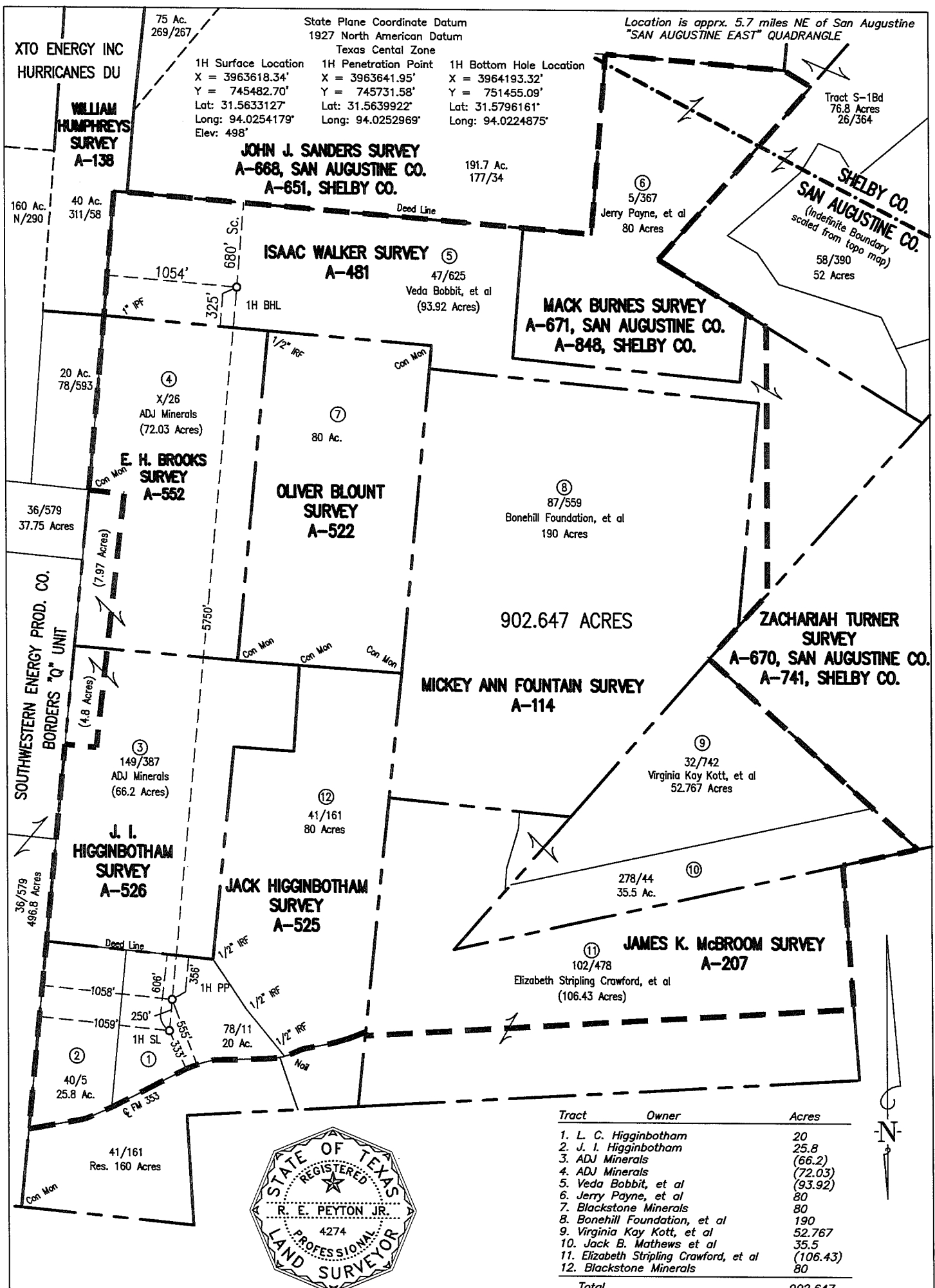
Form W-1H 07/2004
Supplemental Horizontal Well Information

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

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Permit #	708227
Approved Date:	Jan 19, 2011

1. RRC Operator No. 806668	2. Operator's Name (exactly as shown on form P-5, Organization Report) SOUTHWESTERN ENERGY PROD. CO.	3. Lease Name HIGGINBOTHAM U UNIT	4. Well No. 1H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 CARTHAGE (HAYNESVILLE SHALE) (Field # 16032300, RRC District 06)			
6. Section	7. Block	8. Survey WALKER, I	9. Abstract 481
		10. County of BHL SAN AUGUSTINE	
11. Terminus Lease Line Perpendiculars 1054 ft. from the WEST line. and 680 ft. from the NORTH line			
12. Terminus Survey Line Perpendiculars 1054 ft. from the WEST line. and 325 ft. from the SOUTH line			
13. Penetration Point Lease Line Perpendiculars 1058 ft. from the WEST line. and 555 ft. from the S,SE line			



Tract	Owner	Acres
1.	L. C. Higginbotham	20
2.	J. I. Higginbotham	25.8
3.	ADJ Minerals	(66.2)
4.	ADJ Minerals	(72.03)
5.	Veda Bobbit, et al	(93.92)
6.	Jerry Payne, et al	80
7.	Blackstone Minerals	80
8.	Bonehill Foundation, et al	190
9.	Virginia Kay Kott, et al	52.767
10.	Jack B. Mathews et al	35.5
11.	Elizabeth Stripling Crawford, et al	(106.43)
12.	Blackstone Minerals	80
Total		902.647

FOR THE EXCLUSIVE USE OF
SOUTHWESTERN ENERGY PRODUCTION COMPANY

I, R. E. Peyton, Jr., Registered Professional Land Surveyor, do hereby certify the above plat to be true and correct to best of my knowledge.
Date: December 30, 2010 Tyler, Texas

R. E. Peyton Jr.

Registered Professional Land Surveyor No. 4274

NOTE: This plat does not represent a boundary survey. Location is staked from tract lines as evidenced by occupation, distances shown are not intended to be definitive in establishing actual title boundaries.

WELL LOCATION PLAT
SOUTHWESTERN ENERGY PRODUCTION COMPANY
HIGGINBOTHAM U UNIT WELL NO. 1H
JACK HIGGINBOTHAM SURVEY, A-525 1H SL
ISAAC WALKER SURVEY, A-481 1H BHL
SAN AUGUSTINE COUNTY, TEXAS

0' 1000' 2000' 3000'



From the Office of E.L.S. Surveying & Mapping, Inc. /
Harry L. Johnson & Associates
2004 W. Grande Blvd. - Tyler, Texas 903-581-7759