

API No. <u>42-003-42695</u> Drilling Permit # <u>710822</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>748011</u>		2. Operator's Name (as shown on form P-5, Organization Report) SANDRIDGE EXPL. AND PROD., LLC		3. Operator Address (include street, city, state, zip):		
4. Lease Name SOUTH FUHRMAN MASCHO UNIT		5. Well No. <u>1658R</u>				
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 checked="" type="checkbox"/> Vertical <input type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth 4900		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>ANDREWS</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>18</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 <u>16</u>	16. Block <u>10</u>	17. Survey <u>UL</u>	18. Abstract No. <u>A-U300</u>	19. Distance to nearest lease line: <u>401</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>1600</u>	
21. Lease Perpendiculars: <u>401</u> ft from the <u>S</u> line and <u>1216</u> ft from the <u>E</u> line.						
22. Survey Perpendiculars: <u>2142</u> ft from the <u>N</u> line and <u>1216</u> ft from the <u>E</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	
08	33176001	FUHRMAN-MASCHO	Oil Well	4900	10.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS						
Remarks [RRC STAFF Feb 25, 2011 1:08 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent: [RRC STAFF Mar 1, 2011 11:42 AM]: Problems identified with this permit are resolved.; [RRC STAFF Mar 1, 2011 11:43 AM]: Nearest well distance and count corrected per Dana. Corrected plat attached.			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>Dana Alaniz, Drlg Engineering Tech II</u> Name of filer </div> <div> <u>Feb 23, 2011</u> Date submitted </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(432)5239993</u> Phone </div> <div> <u>dalaniz1@sdrge.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only Data Validation Time Stamp: <u>Mar 1, 2011 11:58 AM (Current Version)</u>						

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 710822	DATE PERMIT ISSUED OR AMENDED Mar 01, 2011	DISTRICT * 08		
API NUMBER 42-003-42695	FORM W-1 RECEIVED Feb 23, 2011	COUNTY ANDREWS		
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Vertical	ACRES 1600		
OPERATOR SANDRIDGE EXPL. AND PROD., LLC		748011 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 SOUTH FUHRMAN MASCHO UNIT		WELL NUMBER 1658R		
LOCATION 18 miles SW direction from ANDREWS		TOTAL DEPTH 4900		
Section, Block and/or Survey SECTION ◀ 16 BLOCK ◀ 10 ABSTRACT ◀ U300 SURVEY ◀ UL				
DISTANCE TO SURVEY LINES 2142 ft. N 1216 ft. E		DISTANCE TO NEAREST LEASE LINE 401 ft.		
DISTANCE TO LEASE LINES 401 ft. S 1216 ft. E		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *				
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE
FUHRMAN-MASCHO		1600.00	4,900	1658R
SOUTH FUHRMAN MASCHO UNIT		401	10	08
RESTRICTIONS: This is a hydrogen sulfide field. This well shall be drilled in accordance with SWR 36.				
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <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>				

Jan. 29. 2008 9:18AM No. 1840 P. 8/15

DEPTH OF USABLE-QUALITY GROUND WATER TO BE PROTECTED

PLEASE READ ALL INSTRUCTIONS

The information requested is essential in order for this agency to provide an appropriate response. Please allow for receipt of this form in our offices at least two weeks before your operation begins. Due to the volume of these requests, at times, it may be difficult for us to handle telephone inquiries. Complete, keep the bottom sheet (goldenrod) for your files, and mail the top 3 sheets of the 4-sheet set of carbon-backed forms with a map to the address below. One sheet bearing our response will be returned to you. Another will be sent to the appropriate district office of the Railroad Commission. Individuals are entitled to request and review their personal information that the agency gathers on its forms. If you have questions on how to fill out this form or about the Surface Casing program, please contact us at 512/239-0515.

Surface Casing - MC 151
TCEQ
P.O. Box 13087
Austin, TX 78711-3087

Date 12-18-07

TCEQ File No.: SC-

12490

Ed Holloway
Name of person preparing this request & phone No. (with area code)
OK Arena Operating Company
Company (operator's name as on RRC form W-1)
6535 S. Lewis
Mailing Address
Tulsa, Ok 74136
City and State ZIP Code

FOR TCEQ USE ONLY

ALWAYS INCLUDE A MAP SHOWING YOUR WELL SITE AND ALL SURROUNDING SURVEYS

COUNTY Andrews Survey Name University Lands
Block No. 10 Township _____ Section or Survey No. 16 (or) Lot No. _____
Abstract No. A- _____ LEASE Name A11 Well No. A11
Distances, in feet, and directions measured at right angles from each of two intersecting ☐ Section or ☐ Survey lines
(NOT LEASE LINES) _____ feet from _____ line and _____ feet from _____ line.
Distance (in miles) and direction from a nearby town in this County (name the town) 15 miles West of Andrews
THE ABOVE INFORMATION IN THIS BLOCK MUST BE COMPLETE AND CORRECT
API# _____ RRC Lease No. 21365 RRC Dist. No. 8
GPS Coord. (long/lat or X-Y state plane) _____ NAD _____

Elevation VARIOUS Total Depth VARIOUS Geologic Fm. at T.D. SAN ANDRES
Purpose of the Request: ☒ New Drill ☐ Re-entry ☐ Plug & Abandon ☐ Other (specify) _____
Is this an amended request? ☐ Yes ☒ No Previous File No. for this well: SC- _____

☒ Log included of same or nearby well (The applicable type of well log that shows the aquifers.) Please provide a location map or API# for attached log.

ALWAYS attach the electric log of any well that is to be reentered.

Additional remarks: _____

To protect usable-quality ground water at this location, the TEXAS COMMISSION ON ENVIRONMENTAL QUALITY recommends:

CO-ANDREWS, SUR-UL, BLK-10, SEC-16, LSE-ALL, #11, 39, 5/275, ZONE, 1000, 1600; SECTION 16 ...

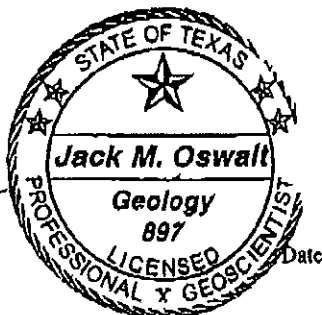
The interval from the land surface to a depth of 275 feet, and the ZONE from 1000 to 1600 feet must be protected.

This recommendation is applicable for all wells drilled in this SECTION 16.

Thank you for the log you sent.

Very truly yours,

Jack M. Oswalt, P.G.



January 4, 2008

typed by TCEQ

Geologist, Surface Casing, TCEQ

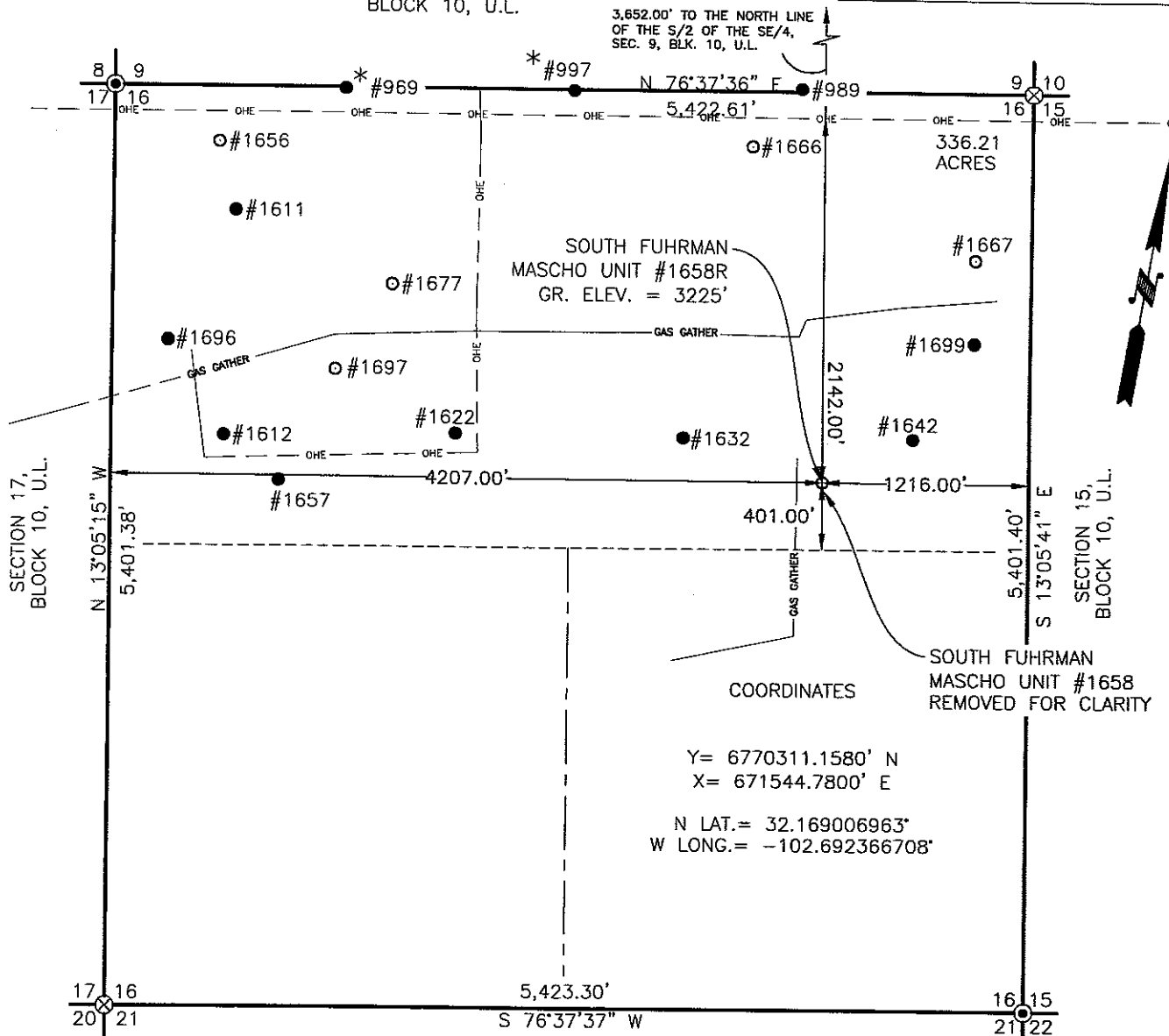
NOTE: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operations into a nonproductive zone (RRC Form W-14).

TCEQ-0051 (Rev. 05-10-2006)

SECTION 16, BLOCK 10, U.L.
ANDREWS COUNTY, TEXAS

SECTION 9,
BLOCK 10, U.L.

NOTE: NOT A POOLED UNIT LEASE.

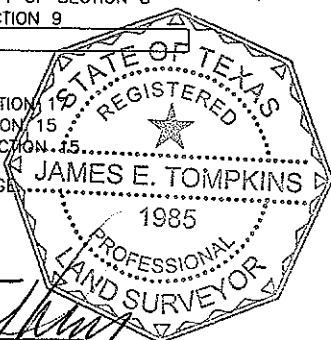


ADJACENT WELLS/ FEATURES

NAME:	DISTANCE:	NAME:	DISTANCE:
SOUTH FUHRMAN MASCHO UNIT #969	3645.00'	SOUTH FUHRMAN MASCHO UNIT #1658	10.00'
SOUTH FUHRMAN MASCHO UNIT #989	2320.00'	SOUTH FUHRMAN MASCHO UNIT #1666	2015.00'
SOUTH FUHRMAN MASCHO UNIT #997	2731.00'	SOUTH FUHRMAN MASCHO UNIT #1667	1585.00'
SOUTH FUHRMAN MASCHO UNIT #1611	3816.00'	SOUTH FUHRMAN MASCHO UNIT #1677	2796.00'
SOUTH FUHRMAN MASCHO UNIT #1612	3550.00'	SOUTH FUHRMAN MASCHO UNIT #1696	3957.00'
SOUTH FUHRMAN MASCHO UNIT #1622	2189.00'	SOUTH FUHRMAN MASCHO UNIT #1697	2956.00'
SOUTH FUHRMAN MASCHO UNIT #1632	863.00'	SOUTH FUHRMAN MASCHO UNIT #1699	1217.00'
SOUTH FUHRMAN MASCHO UNIT #1642	593.00'	NEAREST PIPELINE	150.00'
SOUTH FUHRMAN MASCHO UNIT #1658	4084.00'	NEAREST POWERLINE	2046.00'
SOUTH FUHRMAN MASCHO UNIT #1657	3217.00'		

NOTES:

- THIS LOCATION IS APPROXIMATELY 18.0 MILES WEST/SOUTHWEST OF ANDREWS, TEXAS.
- SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE, WHICH DESCRIBE THE RECONSTRUCTION OF THIS SECTION.
- BEARING DISTANCES AND COORDINATES ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, 1983 NORTH AMERICAN DATUM.
- LEASE = TRACTS WITHIN UNIT LEASE
TRACT 1 - NE/4 OF SECTION 5
TRACT 2 - SE/4 OF SECTION 5
TRACT 3 - S/2 OF SW/4, NE/4 OF SW/4 OF SECTION 5
TRACT 4 - N/2 OF NW/4, SE/4 OF NW/4 OF SECTION 8
TRACT 5 - NE/4 OF SECTION 8
TRACT 6 - SE/4, NE/4 OF THE SW/4 OF SECTION 8
TRACT 7 - SW/4, S/2 OF SE/4 SECTION 9
TRACT 8 - NE/4 OF SECTION 16
TRACT 9 - NW/4 OF SECTION 16
TRACT 10 - N/A
TRACT 11 - NW/4 OF NE/4 OF SECTION 15
TRACT 12 - N/2 OF SW/4 OF SECTION 15
NOT IN UNIT - S/2 OF SW/4 OF SECTION 15
- NAMES TAKEN FROM FIELD SIGNAGE.

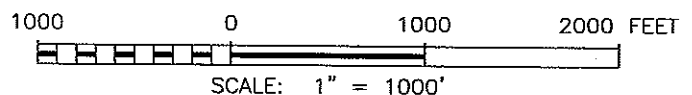


James E. Tompkins, RPLS, No. 1985 February 28, 2011

WT WEST TEXAS CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
405 S.W. 1st STREET
ANDREWS, TEXAS 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

LEGEND

- DENOTES PROPOSED WELL LOCATION
- DENOTES EXISTING WELL
- ⊙ DENOTES FOUND MONUMENT AS NOTED
- ⊗ DENOTES CALCULATED CORNER
- DENOTES LEASE LINE
- - - - DENOTES 1/2 SECTION LINE
- ☒ DENOTES TANK BATTERY
- * DENOTES NO SIGNAGE IN FIELD



SandRidge Exploration And Production, LLC

SOUTH FUHRMAN MASCHO UNIT #1658R
LOCATED 2,142 FEET FROM THE NORTH LINE AND 1,216 FEET
FROM THE EAST LINE OF SECTION 16, BLOCK 10, U.L.,
ANDREWS COUNTY, TEXAS.

SURVEY DATE: 02-15-11		SHEET 1 OF 1 SHEETS	
W.O. NUMBER:		DRAWN BY: J.T.A.	
DATE: 02-28-11	WTC48076		SCALE: 1" = 1000'