

API No. <u>42-003-43736</u> Drilling Permit # <u>729870</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. <b>252002</b>		2. Operator's Name (as shown on form P-5, Organization Report) <b>ENERGEN RESOURCES CORPORATION</b>			3. Operator Address (include street, city, state, zip): _____ _____ _____		
4. Lease Name <b>BLOCK 10 FUHRMAN MASCHO UNIT</b>			5. Well No. <b>405</b>				
<b>GENERAL INFORMATION</b>							
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> New Drill</span> <span><input 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;"> <span><input checked="" 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;"> <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>4900</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>12.6</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>4</b>	16. Block <b>10</b>	17. Survey <b>UL</b>		18. Abstract No. <b>A-</b>	19. Distance to nearest lease line: <b>407</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>6134.43</b>	
21. Lease Perpendiculars: <u>1405</u> ft from the <u>NORTH</u> line and <u>407</u> ft from the <u>E</u> line.							
22. Survey Perpendiculars: <u>1405</u> ft from the <u>NORTH</u> line and <u>2303</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	33176001	FUHRMAN-MASCHO		Oil Well	4900	975.00	
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS							
<b>Remarks</b> [FILER Mar 13, 2012 9:16 AM]: Amend permit to show new location. Well count includes 10 shut in wells.; [RRC STAFF Mar 22, 2012 1:12 PM]: Moved SHL per filing.				<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>Sandie Barnett, Regulatory Analyst</u>            Name of filer  <u>(432)6843693</u>            Phone         </div> <div> <u>Mar 13, 2012</u>            Date submitted  <u>midlandrrc@energen.com</u>            E-mail Address (OPTIONAL)         </div> </div>			
<b>RRC Use Only</b>							
Data Validation Time Stamp				Mar 27, 2012 10:00 AM( 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 <b>729870</b>	DATE PERMIT ISSUED OR AMENDED (AMENDED) <b>Mar 24, 2012</b>	DISTRICT <b>* 08</b>
API NUMBER <b>42-003-43736</b>	FORM W-1 RECEIVED <b>Mar 13, 2012</b>	COUNTY <b>ANDREWS</b>
TYPE OF OPERATION <b>NEW DRILL</b>	WELLBORE PROFILE(S) <b>Vertical</b>	ACRES <b>6134.43</b>
OPERATOR <b>ENERGEN RESOURCES CORPORATION</b> <b>252002</b>		NOTICE 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>BLOCK 10 FUHRMAN MASCHO UNIT</b>		WELL NUMBER <b>405</b>
LOCATION <b>12.6 miles SW direction from ANDREWS</b>		TOTAL DEPTH <b>4900</b>
Section, Block and/or Survey SECTION ◀ <b>4</b> BLOCK ◀ <b>10</b> ABSTRACT ◀ SURVEY ◀ <b>UL</b>		
DISTANCE TO SURVEY LINES <b>1405 ft. NORTH    2303 ft. WEST</b>		DISTANCE TO NEAREST LEASE LINE <b>407 ft.</b>
DISTANCE TO LEASE LINES <b>1405 ft. NORTH    407 ft. E</b>		DISTANCE TO NEAREST WELL ON LEASE <b>See FIELD(s) Below</b>
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE
	WELL # NEAREST WE	DIST
----- FUHRMAN-MASCHO BLOCK 10 FUHRMAN MASCHO UNIT	6134.43 407	4,900 975
	405	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.		
<p align="center"><b>THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</b></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>		

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date December 15, 2011

GAU File No.: SC- 14901

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number 00305657

Attention: SANDIE BARNETT

RRC Lease No. 21930

SC\_252002\_00305657\_21930\_14901.pdf

--Measured--

ENERGEN RESOURCES CORP  
3300 N A STE  
BLDG 4 STE 100  
MIDLAND TX 79705

240 ft FWL

1540 ft FWL

MRL:SECTION

Digital Map Location:

X-coord/Long 102.71210

Y-coord/Lat 32.19496

Datum 27 Zone

P-5# 252002

County ANDREWS

Lease & Well No. BLOCK 10 FUHRMAN-MASCHO UNIT #16&ALL

Purpose ND

Location SUR-UL,BLK-10,SEC-4,--[TD=4590],[RRC 8],

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to a depth of 250 feet and the ZONE from 1100 feet to 1550 feet must be protected.

This recommendation is applicable to all wells drilled in this SECTION 4.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, [gaau@rc.state.tx.us](mailto:gaau@rc.state.tx.us), or by mail.

Sincerely,

  
Digitally signed by Gale Baker  
DN: cn=US, st=TEXAS, o=Austin, ou=Railroad  
Commission of Texas, cn=Gale Baker,  
email=gale.baker@rc.state.tx.us  
Date: 2011.12.15 14:13:51 -06'00'

Gale L. Baker, P.G.

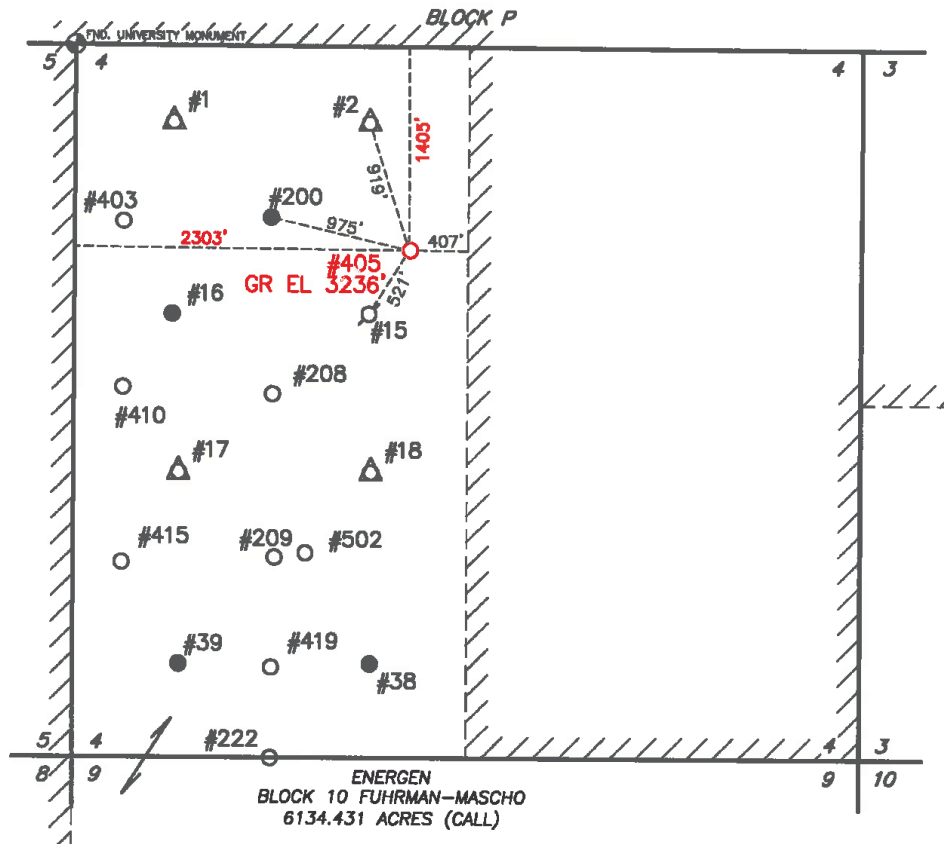
GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by Gale L. Baker on 12/15/2011  
Note: Alteration of this electronic document will invalidate the digital signature.

## SECTION 4, BLOCK 10, UNIVERSITY LAND SURVEY



## NAD 27, TEXAS NORTH CENTRAL ZONE

N=232951.5', E=389719.0' LAT=32.1972551°N, LONG=102.7074672°W

## NAD 83, TEXAS NORTH CENTRAL ZONE

N=N: 6780811.3', E=667153.0' LAT=32.1973631°N, LONG=102.7079067°W

## DISTANCE TO THE NEAREST LEASE LINE

1405' FNL &amp; 407' FNL

APPROXIMATELY 12.6 MILES SW OF ANDREWS, TEXAS

- △ WATER INJECTION WELL
- OIL WELL
- STAKED WELL
- DRY HOLE
- ⊗ SHUT IN WELL

## NOTES:

1. COORDINATES AND BEARINGS ARE BASED ON A LAMBERT CONICAL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM AND 83 CORRS IN TEXAS NORTH CENTRAL ZONE WITH A CONVERGENCE ANGLE OF -2.175317887 AND A DISTANCE ARE OF GRID VALUE WITH A CENTRAL COMBINED SCALE FACTOR OF 1.000004581.
2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF IMPROVEMENTS AND/OR EASEMENTS WERE BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAVE BEEN SPEEDILY OBTAINED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.
3. SEE DOCUMENTS AND ELECTRONIC DATA FILED IN THE OFFICE OF WPG INC FOR COMPLETE RECONSTRUCTION OF THESE SECTIONS OR BLOCKS.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR THE PRIVATE USE OF THE PARTY NAMED IN THE "REFERENCE PORTION" OF THE TITLE BLOCK AND DOES NOT CONSTITUTE A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE "PROFESSIONAL LAND SURVEYING PRACTICES ACT."



W.D. Watson, Jr. TEXAS R.P.L.S. No. 1989  
FILE: M:\DWG\SLAMAK\BLK10.dwg

2/8/12

DATE

1000 0 1000 2000 FEET

**Watson**  
**Professional**  
**Group Inc**



P.O. DRAWER 1106  
MIDLAND, TEXAS 79702  
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w@watson-wpg-us.com

CONSULTING ENGINEERS, LAND SURVEYORS &amp; PLANNERS

PERMIT PLAT  
**ENERGEN RESOURCES**  
**BLOCK 10 FUHRMAN-MASCHO UNIT #405**  
**1405' FNL & 2303' FNL**  
**SECTION 4, BLOCK 10, UNIVERSITY LAND SURVEY**  
**ANDREWS COUNTY, TEXAS**

DATE: JANUARY 9, 2012

DATE SURVEYED: 1/5/12

JOB NO.: 11-1342-00 FIELD BOOK 649/9

DRAFT NGH REV. 1