

# RAILROAD COMMISSION OF TEXAS

Tracking No.: 4979

Oil and Gas Division

Status: Submitted

This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. 42- 003-10079

7. RRC District No.  
**08**

8. RRC Lease No.  
**21930**

9. Well No.  
**55**

10. County of well site  
**ANDREWS**

## Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) <b>FUHRMAN-MASCHO</b>		2. LEASE NAME <b>BLOCK 10 FUHRMAN-MASCHO UNIT</b>		11. Purpose of filing Initial Potential <input type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input checked="" type="checkbox"/>	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>ENERGEN RESOURCES CORPORATION</b>		RRC Operator No. <b>252002</b>			
4. ADDRESS <b>3300 NORTH A ST BLDG 4 STE 100 MIDLAND, TX 79705-0000</b>					
5. If Operator has changed within last 60 days, name former operator					
6a. Location (Section, Block, and Survey) <b>11, 10, UNIVERSITY LANDS</b>		6b. Distance and direction to nearest town in this county. <b>12 MILES SW FROM ANDREWS</b>			
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. <b>FIELD &amp; RESERVOIR</b>		GAS ID or OIL LEASE #		Oil-O Gas-G	Well #
<b>N/A</b>					
13. Type of electric or other log run <b>None</b>		14. Completion or recompletion date <b>12/15/2009</b>			

### SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump)			18. Choke size
19. Production during Test Period	Oil - BBLs	Gas - MCF	Water - BBLs	Gas - Oil Ratio	Flowing Tubing Pressure PSI
				<b>0</b>	
20. Calculated 24-Hour Rate	Oil - BBLs	Gas - MCF	Water - BBLs	Oil Gravity-API-60°	Casing Pressure PSI
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells)			23. Injection Gas-Oil Ratio
<b>REMARKS: WELL RECORD TO SHOW PAY ADD, SQZ CASING LEAK, STIMULATE WELL.</b>					

**INSTRUCTIONS:** File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

#### WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester

Name of Company

RRC Representative

#### OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

#### ENERGEN RESOURCES CORPORATION

Type or printed name of operator's representative

(432) 688-3323

09/07/2010

Telephone: Area Code

Number

Month Day Year

Title of Person

Mary Ann Martinez

Signature

## SECTION III

## DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

<b>24. Type of Completion</b> New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input checked="" type="checkbox"/>				<b>25. Permit to Drill, Plug Back or Deepen</b> DATE _____ PERMIT NO. _____ Rule 37 Exception _____ CASE NO. _____ Water Injection Permit _____ PERMIT NO. _____ Salt Water Disposal Permit _____ PERMIT NO. _____ Other _____ PERMIT NO. _____			
<b>26. Notice of Intention to Drill this well was filed in Name of</b> <b>ENERGEN RESOURCES CORPORATION</b>							
<b>27. Number of producing wells on this lease in this field (reservoir) including this well</b> 35		<b>28. Total number of acres in this lease</b> 6134.43					
<b>29. Date Plug Back, Deepening, Workover or Drilling Operations:</b> 10/27/2009		<b>30. Distance to nearest well, Same Lease &amp; Reservoir</b> 1325.0					
<b>31. Location of well, relative to nearest lease boundaries</b> 1980.0 Feet From North Line and 1980.0 Feet from West Line of the BLOCK 10 FUHRMAN-MASCHO UNIT SEC 11 Lease							
<b>32. Elevation (DF, RKB, RT, GR ETC.)</b> 3203 GL				<b>33. Was directional survey made other than inclination (Form W-12)?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>34. Top of Pay</b> 4320 MD:		<b>35. Total Depth</b> 4860 MD:		<b>36. P. B. Depth</b> 4515 MD:		<b>37. Surface Casing Determined by</b> Field Rules <input type="checkbox"/> Recommendation of T.D.W.R. <input type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/> Dt. of Letter <input type="checkbox"/>	
<b>38. Is well multiple completion?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
<b>39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease of Gas ID No.</b> FIELD & RESERVOIR N/A				<b>GAS ID or OIL LEASE #</b> _____		<b>Oil-G Gas-G</b> _____	
<b>40. Intervals Drilled by:</b> Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Tools <input type="checkbox"/>		<b>41. Name of Drilling Contractor</b> _____				<b>42. Is Cementing Affidavit Attached?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>43. CASING RECORD (Report All Strings Set in Well)</b>							
CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8	24.0	262		REG 175	11	CIRCULATION	
4 1/2	9.5	4848		REG & NEAT 250	7 7/8	UNK	
<b>44. LINER RECORD</b>							
Size	Top	Bottom	Sacks Cement	Screen			
N/A							
<b>45. TUBING RECORD</b>							
Size	Depth Set	Packer Set	<b>46. Producing Interval (this completion) Indicate depth of perforation or open hole</b>				
2 3/8	4429		From	4320	To	4503	
			From	4342	To	4402	
			From		To		
			From		To		
<b>47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.</b>							
Depth Interval			Amount and Kind of Material Used				
478.0			747.0 SQZ W/300 SX CL "C"				
4320.0			4503.0 ACIDIZE W/5000 GALS 15% HYDROCHLORIC ACID, 250 1.3 SG BALL SEALERS, FRAC W/67000# 20/40 MESH, 40Q NITROGEN				
<b>48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)</b>							
Formations	Depth	Formations	Depth				
	nuh						
<b>REMARKS: ADD PAY, SQZ CASING LEAK LOCATED @478-747, STIMULATE WELL.</b>							

Cementor: Fill in shaded areas

Operator: Fill in other items

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>ENERGEN RESOURCES CORPORATION</b>	2. RRC Operator No. <b>252002</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>ANDREWS</b>
5. Field Name (Wildcat or exactly as shown on RRC records) <b>FUHRMAN-MASCHO</b>	6. API No. <b>42-003-10079</b>		7. Drilling Permit No.
8. Lease Name <b>Block 10 Fuhrman-Mascho Unit</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>21930</b>	11. Well No. <b>55</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				single string	Multiple Parallel Strings	Foot	Shoe
12. Cementing Date				12/2/09			
13. * Drilled hole size				7 7/8			
* Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				4 1/2"			
15. Top of liner (ft.)							
16. Setting depth (ft.)				747			
17. Number of centralizers used							
18. Hrs. waiting on cement before drill out							
1st Slurry	19. API cement used: No. of sacks			300			
	Class			C			
	Additives			S001			
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)			400			
	Height (ft.)			747			
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)						
	Height (ft.)						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			
22. Remarks							
1.							
2.							

OVER



CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Adithya Wicaksono      FE      Schlumberger  
 Name and title of cementer's representative      Cementing Company      Signature  
 1105 WEST BENDER BLVD      HOBBS, NM 88240      575 391 6185      12/2/2009  
 Address      City, State zip code      Tel: Area Code Number      Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143 Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Mary Ann Martinez      Regulatory Analyst      Signature  
 Typed or printed name of operator's representative      Title      Signature  
 3300 N. "A", Bldg 4, Ste 100      Midland, TX 79705      (432)688-3323      09/07/10  
 Address      City, State zip code      Tel: Area Code Number      Date: mo. day yr.

### Instructions to Form W-15 Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For Offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.