



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 08/15/2017
Tracking No.: 176503

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: MWS PRODUCING, INC. Operator No.: 597379
Operator Address: PO BOX 100 STANTON, TX 79782-0000

WELL INFORMATION

API No.: 42-105-42383 County: CROCKETT
Well No.: 5 RRC District No.: 7C
Lease Name: UNIVERSITY "3" Field Name: FARMER (SAN ANDRES)
RRC Lease No.: 09506 Field No.: 30243500
Location: Section: 3, Block: 46, Survey: UL, Abstract: U437
Latitude: Longitude:
This well is located 15 miles in a NORTHWEST
direction from OZONA,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 07/08/2017
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 04/17/2017 825317
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 05/22/2017 Date of first production after rig released: 07/08/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/22/2017 Date plug back, deepening, recompletion, or drilling operation ended: 05/26/2017
Number of producing wells on this lease in this field (reservoir) including this well: 4 Distance to nearest well in lease & reservoir (ft.): 1357.0
Total number of acres in lease: 363.95 Elevation (ft.): 2652 RKB
Total depth TVD (ft.): 2225 Total depth MD (ft.):
Plug back depth TVD (ft.): 2137 Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? No Rotation time within surface casing (hours): 33.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Acceptable cased hole logs
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease : No
of lease on which this well is located: 338.0 Feet from the South Line and
1843.0 Feet from the East Line of the
UNIVERSITY 3 Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

PACKET: N/A

W2: N/A

**FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:**

**GAU Groundwater Protection Determination**      **Depth (ft.):** 850.0      **Date:** 04/03/2017  
**SWR 13 Exception**      **Depth (ft.):**

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

**Date of test:** 07/10/2017      **Production method:** Pumping  
**Number of hours tested:** 24      **Choke size:**  
**Was swab used during this test?** No      **Oil produced prior to test:** 64.00

**PRODUCTION DURING TEST PERIOD:**

**Oil (BBLs):** 48.00      **Gas (MCF):** 35  
**Gas - Oil Ratio:** 729      **Flowing Tubing Pressure:**  
**Water (BBLs):** 40

**CALCULATED 24-HOUR RATE**

**Oil (BBLs):** 48.0      **Gas (MCF):** 35  
**Oil Gravity - API - 60.:** 34.2      **Casing Pressure:** 100.00  
**Water (BBLs):** 40

**CASING RECORD**

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	8 5/8	12 1/4	891			C	760	1079.0	SURF ACE	Circulated to Surface
2	Conventional Production	4 1/2	7 7/8	2182			C	300	452.0	1160	Cement Evaluation Log

**LINER RECORD**

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
N/A									

**TUBING RECORD**

Row	Size (in.)	Depth (ft.)	Size (ft.)	Packer Depth (ft.)/Type
1	2 3/8	1826		/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 1880	1973.0

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.**

**Was hydraulic fracturing treatment performed?** Yes

**Is well equipped with a downhole actuation sleeve?** No      **If yes, actuation pressure (PSIG):**

**Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:** 4250      **Actual maximum pressure (PSIG) during hydraulic fracturing:** 3791

**Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?** Yes

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	143340# SAND AND 2837 BBL GEL WATER	1880 1973

**FORMATION RECORD**

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
QUEEN	Yes	1519.0		Yes	
SAN ANDRES	Yes	1790.0		Yes	TOP OF GRAYBURG
LEONARD	No			No	NOT PENETRATED
WOLFCAMP	No			No	NOT PENETRATED
CANYON	No			No	NOT PENETRATED
STRAWN	No			No	NOT PENETRATED
DEVONIAN	No			No	NOT PENETRATED
ELLENBURGER	No			No	NOT PENETRATED

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? Yes  
 Is the completion being downhole commingled (SWR 10)? No

**REMARKS**

**RRC REMARKS**

**PUBLIC COMMENTS:**

**CASING RECORD :**

**TUBING RECORD:**

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :**

**POTENTIAL TEST DATA:**

**OPERATOR'S CERTIFICATION**

**Printed Name:** Mike Swinson **Title:**  
**Telephone No.:** (432) 756-2902 **Date Certified:** 07/13/2017



# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

## CEMENTING REPORT

### OPERATOR INFORMATION

Operator Name: MWS Producing, INC	Operator P-5 No.: 597379
Cementer Name: Powerflex Services Inc.	Cementer P-5 No.: 674967

### WELL INFORMATION

District No.: 7C	County: Crockett	
Well No.: 5	API No.: 42-105-42383	Drilling Permit No.: 825317
Lease Name: University 3	Lease No.: 09506	
Field Name: FARMER (SAN AMARES)	Field No.: 30243500	

### I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production		
Drilled hole size (in.): 12 1/4	Depth of drilled hole (ft.): 900	Est. % wash-out or hole enlargement: 30
Size of casing in O.D. (in.): 8 5/8	Casing weight (lbs/ft) and grade: 24	No. of centralizers used: 10
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 891	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date: 5-23&24-17

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	200	C	4% gel, 2% CC, 1/4# Floccle	340	824
2	250	C	2% CC, 1/4# Floccle	330	800
3	310	C	Neat	409	991
<b>Total</b>	<b>760</b>			<b>1079</b>	<b>2615</b>

### II. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

### III. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

#### SLURRY

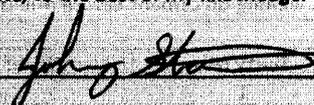
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

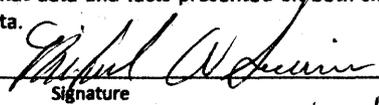
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

**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.

**Johnny Stout/Cementer** **Powerflex Services Inc.**   
 Name and title of cementer's representative Cementing Company Signature  
**PO Box 666** **Winters, TX 79567** **325-754-2000** **5-23&24-17**  
 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.

**MICHAEL W. SWINSON** **PRESIDENT**   
 Typed or printed name of operator's representative Title Signature  
**PO BOX 100 STANTON TX 79782** **432** **7562902** **7/13/2017**  
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

**Instructions for Form W-15, Cementing Report**

**NOTICE:** The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- 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. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form 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. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.texas.gov/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14)). 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.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.

Operator: Fill in other items.

## CEMENTING REPORT

### OPERATOR INFORMATION

Operator Name: MWS Producing, INC	Operator P-5 No.: 597379
Cementer Name: Powerflex Services Inc.	Cementer P-5 No.: 674967

### WELL INFORMATION

District No.: 7C	County: Crockett	
Well No.: 5	API No.: 42-105-42383	Drilling Permit No.: 025317
Lease Name: University 3	Lease No.: 09506	
Field Name: FARMER (SAN ANDRES)	Field No.: 30243500	

### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production

Drilled hole size (in.): 7 7/8	Depth of drilled hole (ft.): 2225	Est. % wash-out or hole enlargement: 30
Size of casing in O.D. (in.): 4 1/2	Casing weight (lbs/ft) and grade: 11.6	No. of centralizers used: 15
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 2182	Top of liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date: 5-26-17

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	100	C	6% gel, 1% CC, 1/4# Floccle	188	825
2	200	C	3# Salt, 1/4# Floccle	264	1150
3					
<b>Total</b>	<b>300</b>			<b>452</b>	<b>1984</b>

### II. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement shoe  Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

### III. CASING CEMENTING DATA

Type of casing:  Surface  Intermediate  Production  Tapered production  Multi-stage cement/DV tool  Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
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Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

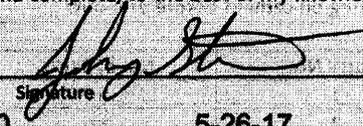
#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
<b>Total</b>					

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

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 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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**MICHAEL W. SWINSON** **PRESIDENT**   
 Typed or printed name of operator's representative Title Signature  
**POB 100** **STANTON TX 79782** **432 756-2902** **7/13/2017**  
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- D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



Tracking No.: 176503

*This facsimile L-1 was generated electronically from data submitted to the RRC.*

**Instructions**

**When to File Form L-1:**

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

**When is Form L-1 NOT required:**

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

**Where to File Form L-1:**

- with the appropriate Commission district office

**Filling out Form L-1:**

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

**Type of log required:**

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

**SECTION I. IDENTIFICATION**

Operator Name: MWS PRODUCING, INC.	District No. 7C	Completion Date: 07/08/2017
Field Name FARMER (SAN ANDRES)	Drilling Permit No. 825317	
Lease Name UNIVERSITY "3"	Lease/ID No. 09506	Well No. 5
County CROCKETT	API No. 42- 105-42383	

**SECTION II. LOG STATUS (Complete either A or B)**

A. BASIC ELECTRIC LOG NOT RUN

B. BASIC ELECTRIC LOG RUN. (Select one)

- 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).

4. Log attached to (select one):

(a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: \_\_\_\_\_

Check here if attached log is being submitted after being held confidential.

(b) Form P-7, Application for Discovery Allowable and New Field Designation.

(c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). \_\_\_\_\_

Well No(s). \_\_\_\_\_

Mike Swinson

Signature

MWS PRODUCING, INC.

Name (print)

Title

(432) 756-2902

Phone

07/13/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



Gamma Ray / CCL  
Cement  
Bond  
Log

Company MWS Producing, Inc. Well University 3-5 Field Farmer (San Andres) County Crockett State Texas	Company	MWS Producing, Inc.
	Well	University 3-5
	Field	Farmer (San Andres)
	County	Crockett
	State	Texas
Location:		API #: 42-105-42383
		338' FSL & 1843' FEL University Lands Survey
		SEC 22 BLK ABS
Permanent Datum		Ground Level Elevation 2640'
Log Measured From		Kelly Bushing
Drilling Measured From		Kelly Bushing
		Other Service
		Elevation
		K.B. 2652'
		D.F.
		G.L. 2640'

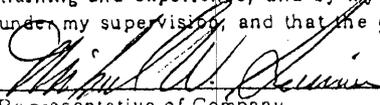
Date	June 05, 2017
Run Number	One
Depth Driller	2214'
Depth Logger	2137'
Bottom Logged Interval	2137'
Top Log Interval	1000'
Open Hole Size	7.875"
Type Fluid	KCL
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	1160'
Time Well Ready	11:00
Time Logger on Bottom	11:30
Equipment Number	49
Location	San Angelo
Recorded By	Wesley Carrell
Witnessed By	Mike Swinson

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String							
Prot. String							
Production String		4.5"	11.60	Surface		2214'	
Liner							

**RAILROAD COMMISSION OF TEXAS**  
**OIL AND GAS DIVISION**  
**CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36**

FORM H-9  
12/12/77

FILE WITH  
DISTRICT OFFICE  
IN TRIPLICATE

1. Operator <b>MWS Producing, Inc.</b>		2. Operator Number (See Instruction 13) <b>597379</b>		3. RRC Dist. <b>7C</b>	
4. Street or P. O. Box No. <b>P.O. Box 1404</b>		5. City <b>Stanton</b>		6. State <b>TX</b>	
7. Zip Code <b>79782</b>		8. Name of Lease, Facility or Operation <b>Univerity 3</b>		9. Field or Area Name <b>Farmer (SanAndreas)</b>	
10. County <b>Crockett</b>		11. General Operation Type - Circle One: <input checked="" type="radio"/> A - Oil Field Production <input type="radio"/> B - Gas Field Production <input type="radio"/> C - Pipeline or Gathering Sys. <input type="radio"/> D - Gasoline Plant <input type="radio"/> E - Drilling or Workover <input type="radio"/> F - Sweetening Unit <input type="radio"/> G - Combination (explain) <input type="radio"/> H - Other (explain)			
12. RRC ID# of Operation(s) to be Covered by This Certificate <b>09506</b>		Type ID Code (See Instruction 12) <b>1</b>		Indicate if Filing for Storage Facility Only YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
13. Hydrogen Sulfide Concentration <b>2667 PPM</b>		14. Maximum Escape Volume <b>less than 2 MCF/Day</b>			
15. 100 PPM Radius of Exposure (ROE) <b>4</b> Ft.		16. 500 PPM Radius of Exposure (ROE) <b>2</b> Ft.			
17. Operation is Existing <input checked="" type="checkbox"/> New <input type="checkbox"/>		18. Modification Resulting in Certificate Change		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
19. Workover or Drilling Well with 100 PPM ROE Greater than 3000' feet on Rule 36 Certified Well/Lease		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		20. Previous Certificate Number if Available (For Amended Certificates) <b>N/A</b>	
21. The 100 PPM ROE includes any part of a public area except a public road		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. The 500 PPM ROE includes any part of a public road	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14)		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
24. Date (or Depth) of Compliance with all applicable provisions of Rule 36		<b>05 / 20 / 19 99</b> Mo Day Year			
Depth of Compliance for Drilling Operation		Ft. from Surface			
25. Contingency Plan Location of Plan (See Instruction 15)		Has been prepared		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
26. Location of data used to prepare this certificate (See Instruction 15) <b>MWS Producing, Inc. 3154 W. FM 3113 Stanton, TX 79782</b>					
<b>CERTIFICATE</b>					
I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.					
		President		(915) 756-2902	
Representative of Company		Title		Phone No.	
				Date <b>5/20/99</b>	

**RAILROAD COMMISSION USE ONLY**

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

REMARKS:

CERTIFICATION NUMBER: \_\_\_\_\_



## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 03 April 2017      **GAU Number:** 168987

<b>Attention:</b>	MWS PRODUCING, INC. PO BOX 100 STANTON, TX 79782	<b>API Number:</b>	
<b>Operator No.:</b>	597379	<b>County:</b>	CROCKETT
		<b>Lease Name:</b>	University 3
		<b>Lease Number:</b>	
		<b>Well Number:</b>	5
		<b>Total Vertical Depth:</b>	2500
		<b>Latitude:</b>	30.984379
		<b>Longitude:</b>	-101.341475
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-46; Section-3

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

The interval from the land surface to the base of the Santa Rosa, which is estimated to occur at a depth between 800 and 850 feet, must be protected.

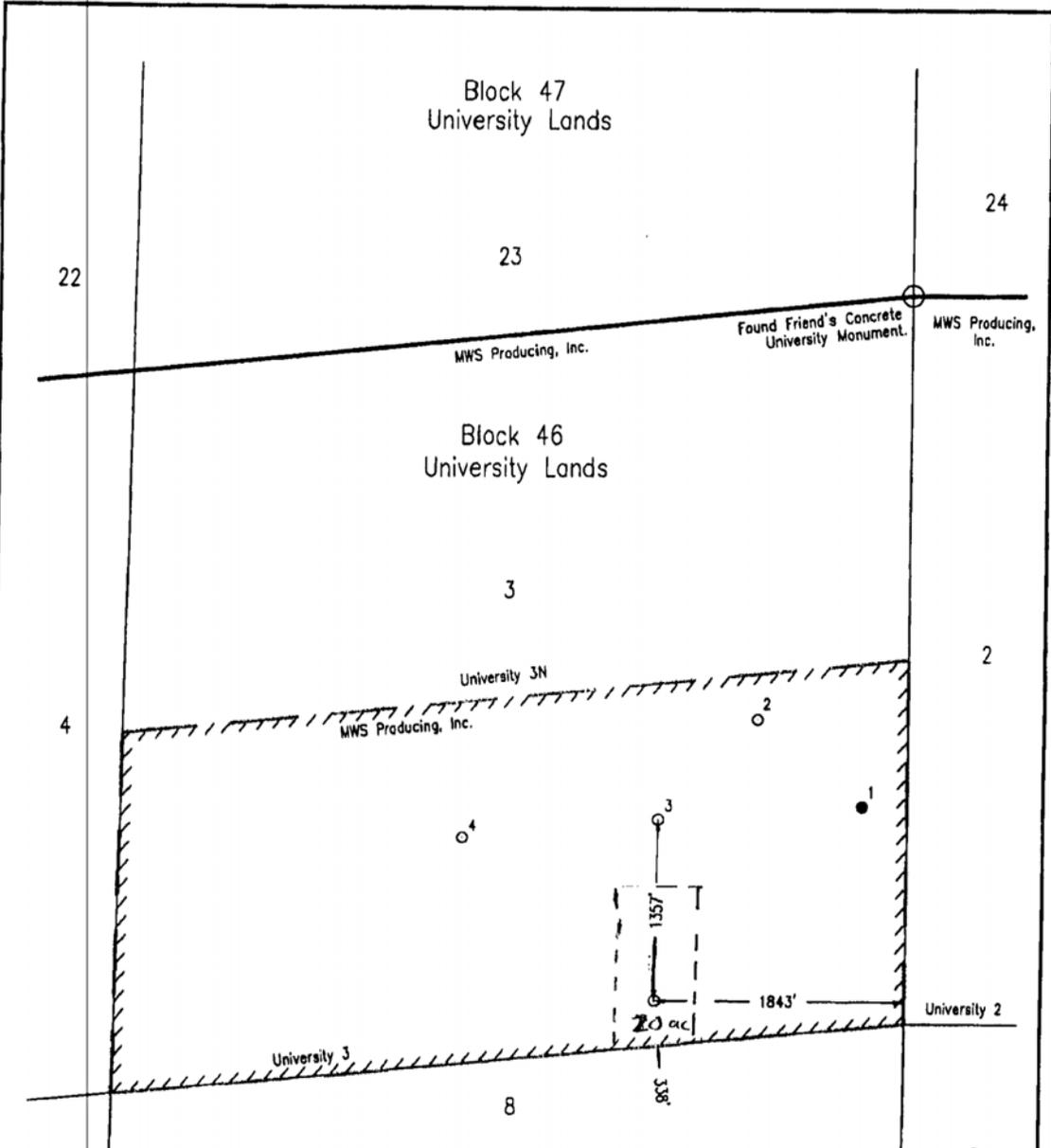
This recommendation is applicable to all wells within a radius of 1500 feet of this location.

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

This determination is based on information provided when the application was submitted on 03/21/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2      P.O. Box 12967 Austin, Texas 78771-2967      512-463-2741      Internet address: www.rrc.texas.gov  
Rev. 02/2014



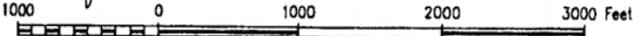
*Michael L. Stanford*



This plot is for Texas Railroad Commission Permit Purposes Only and is NOT a boundary survey and is NOT to be used to convey or establish interests in real property.  
 BASIS OF BEARINGS is the Texas State Plane Coordinate System  
 Central Zone NAD 27

Application for Well No. 5  
15.9 Miles Southeast of Big Lake, TX

Date Well Location Staked June 26, 2013  
 NAD 27 X = 1684099  
 NAD 27 Y = 480662  
 EMERGENCY RESPONSE LOCATOR  
 NAD 27 Lat. = 30° 59' 03.77" / 30.984380  
 NAD 27 Long. = 101° 20' 29.31" / 101.341474



MWS Producing, Inc. University 3 No. 5 - 338' FSL & 1843' FEL Section 3, Block 46, University Lands Survey Crockett County, TX	<b>STANFORD SURVEYING COMPANY</b> P.O. BOX 8490 MIDLAND, TEXAS 79708-8490 432-699-6708
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DRAWN BY <u>ASB</u>	DATE <u>7-05-2013</u>	SCALE <u>1" = 1000'</u>	FILE NAME <u>A-8064</u>
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