



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 05/18/2018  
Tracking No.: 184896

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

OPERATOR INFORMATION

Operator Name: QEP ENERGY COMPANY Operator No.: 684474  
Operator Address: ATTN SOUTHERN DIV REGULATORY 1050 17TH ST SUITE 800 DENVER, CO 80265-0000

WELL INFORMATION

API No.: 42-317-40613 County: MARTIN  
Well No.: N 16MB RRC District No.: 08  
Lease Name: UNIVERSITY 7-2730 Field Name: SPRABERRY (TREND AREA)  
RRC Lease No.: 48980 Field No.: 85280300  
Location: Section: 30, Block: 7, Survey: UL, Abstract: U27  
  
Latitude: 32.370716 Longitude: -102.181548  
This well is located 21.6 miles in a NE direction from ANDREWS, 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: 10/21/2017  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	11/30/2016	820427
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/27/2017	Date of first production after rig released: 10/21/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/27/2017	Date plug back, deepening, recompletion, or drilling operation ended: 08/07/2017
Number of producing wells on this lease in this field (reservoir) including this well: 24	Distance to nearest well in lease & reservoir (ft.): 34.0
Total number of acres in lease: 963.00	Elevation (ft.): 2923 GL
Total depth TVD (ft.): 8803	Total depth MD (ft.): 16493
Plug back depth TVD (ft.): 8779	Plug back depth MD (ft.): 16372
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 92.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 300.0 Feet from the South Line and 510.0 Feet from the West Line of the UNIVERSITY 7-2730 Lease.	

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

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
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PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 350.0	Date: 08/29/2017
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 12/10/2017		Production method: Pumping
Number of hours tested: 24		Choke size:
Was swab used during this test?	No	Oil produced prior to test: 19207.15
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 718.94		Gas (MCF): 249
Gas - Oil Ratio: 346		Flowing Tubing Pressure: 214.00
Water (BBLS): 1536		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 718.9		Gas (MCF): 249
Oil Gravity - API - 60.:	40.0	Casing Pressure: 205.00
Water (BBLS): 1536		

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	13 3/8	17 1/2	516			HALCEM-C	580	777.8	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	8227	5527		SIL/C	2425	5251.2	300	Calculation
3	Intermediate	9 5/8	12 1/4	8227		8210	SIL/C	680	1565.3	5524	Calculation
4	Conventional Production	5 1/2	8 1/2	16488			H	1810	2777.0	6870	Calculation

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	Size (ft.)
1	2 7/8	7739	
		Packer Depth (ft.)/Type	
		/	

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8942	16372.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG): 5979.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 10000		Actual maximum pressure (PSIG) during hydraulic fracturing: 8815	
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	Acid	100,000 GALS OF ACID.	8942 16372
2	Fracture	1,150,000 LBS OF 100 MESH ; 8,488,850 LBS OF PREMIUM WHITE 30/50; 776,246 LBS OF ATLAS CRC-LT 30/50	8942 16372

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SANTA ROSA	Yes	1505.0	1505.0	Yes	NOT LOGGED, ESTIMATED, CEMENTED CASING
YATES	Yes	3070.0	3070.0	Yes	NOT LOGGED, ESTIMATED, CEMENTED CASING
QUEEN	Yes	4050.0	4050.0	Yes	NOT LOGGED, ESTIMATED, CEMENTED CASING
GRAYBURG	Yes	4600.0	4600.0	Yes	NOT LOGGED, ESTIMATED, CEMENTED CASING
SAN ANDRES - ACTIVE CO2 FLOOD; HIGH FLOWS; H2S; CO CISCO	Yes	4845.0	4845.0	Yes	NOT LOGGED, ESTIMATED, CEMENTED CASING
SPRABERRY	Yes	8403.0	8416.0	Yes	NOT ENCOUNTERED
DEAN	No			No	NOT ENCOUNTERED
WOLFCAMP	No			No	NOT ENCOUNTERED
PENNSYLVANIAN	No			No	NOT ENCOUNTERED
STRAWN	No			No	NOT ENCOUNTERED
MISSISSIPPIAN	No			No	NOT ENCOUNTERED
FUSSELMAN	No			No	NOT ENCOUNTERED
SILURIAN	No			No	NOT ENCOUNTERED
DEVONIAN	No			No	NOT ENCOUNTERED
ELLENBURGER	No			No	NOT ENCOUNTERED
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS
KOP @ 8252' DIRECTIONAL SURVEY ATTACHED. L1 HEADER ATTACHED. LOG WILL BE UPLOADED VIA ONLINE LOG SUBMISSION SITE.

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2018-04-12 13:00:08.095] EDL=7430 feet, max acres=520, SPRABERRY (TREND AREA) oil well	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> April Mestas	<b>Title:</b>
<b>Telephone No.:</b> (303) 260-1167	<b>Date Certified:</b> 04/09/2018



# RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

### OPERATOR INFORMATION

Operator Name: UNIT 103	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: MARTIN	
Well No.: N 16MB	API No.: 42-317-40613	Drilling Permit No.: 820427
Lease Name: UNIVERSITY 7-2730	Lease No.:	
Field Name: Spraberry (Trend area)	Field No.: 85280300	

### 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.): 17 1/2	Depth of drilled hole (ft.): 516	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 13 3/8	Casing weight (lbs/ft) and grade: 54.5 J-55	No. of centralizers used: 7
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.):	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 14.5	Calculated top of cement (ft.): Surface	Cementing date: 5-9-17

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	580	HALCEM CLASS-C	.25 POLY-FLAKE, 1% C.C.	777.78	516'
2					
3					
Total	580			777.78	516

### 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.)	Tapered string depth of drilled hole (ft.)	
Upper: Lower:	Upper: Lower:	
Tapered string size of casing in O.D. (in.)	Tapered string casing weight (lbs/ft) and grade	Tapered string no. of centralizers used
Upper: Lower:	Upper: Lower:	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					
Total	0			0	0

### 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.)	Tapered string depth of drilled hole (ft.)	
Upper: Lower:	Upper: Lower:	
Tapered string size of casing in O.D. (in.)	Tapered string casing weight (lbs/ft) and grade	Tapered string no. of centralizers used
Upper: Lower:	Upper: Lower:	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					
Total	0			0	0



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.

**KYLE DUNNAM**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

2311 S. First St.

Artesia, NM, 88210

575-392-0700

5-28-2017

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.

Mike Harris  
Typed or printed name of operator's representative

QEP  
Title

Mike Harris  
Signature

1050 17th St., Ste. 800  
Address

Denver, CO 80205  
City, State, Zip Code

(303) 260-1167  
Tel: Area Code

Number

12/22/17  
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.

- 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.
- 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.state.tx.us/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).
- 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&rf=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&rf=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.
- 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.
- 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.
- 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.
- 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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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: QEP RESOURCES INC-EBUS	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

## WELL INFORMATION

District No.: 08	County: MARTIN
Well No.: N 16MB	API No.: 42-317-40613   Drilling Permit No.: 820427
Lease Name: UNIVERSITY 7-2730	Lease No.:
Field Name: Spraberry (Trend area)	Field No.: 85280300

## I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production		
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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.):
		Setting depth liner (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					
Total	0			0	0

## 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 checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.): 12 1/4	Depth of drilled hole (ft.): 8,227	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40.0 L-80	No. of centralizers used: 7
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 checked="" type="checkbox"/> NO	Setting depth shoe (ft.): 8210	
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): 5,527	Cementing date: 06/04/17

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	445	SIL	0.40% GAS STOP	1250.895	3996.41
2	235	C	HALAD(R)-344, 0.55% HR-800	314.43	880.64
3					
Total	680			1565.325	4877.05

## 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 checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.): 12 1/4	Depth of drilled hole (ft.): 8,227	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40.0 L-80	No. of centralizers used: 8
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 checked="" type="checkbox"/> NO	Setting depth tool (ft.): 5,527	
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): 300	Cementing date: 06/05/17

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1950	SIL	0.40% GAS STOP	4615.65	
2	475	C	0.40% HALAD(R)-344, 0.55% HR-800	695.55	2132.61
3					
Total	2425			5251.2	2132.61

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

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**MICHAEL CRUZ**

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

06/05/17

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.

April Mestas  
Typed or printed name of operator's representative

Regulatory Analyst  
Title

April Mestas  
Signature

1050 17th St, Ste. 800  
Address

Denver, CO 80265  
City, State, Zip Code

(303) 260-1167  
Tel: Area Code Number

12/22/17  
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.

- 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.  
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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=&tl=16&pt=1&ch=3&rl=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=&tl=16&pt=1&ch=3&rl=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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.





# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: QEP RESOURCES INC EBUS			Operator P-5 No.: 1084474		
Cementer Name: HALLIBURTON ENERGY SERVICES			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: MARTIN		
Well No.: N 16MB			API No.: 42-317-40613		Drilling Permit No.: 820427
Lease Name: UNIVERSITY 7 2730			Lease No.:		
Field Name: Spraberry (Trend area)			Field No.: 85280300		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production					
Drilled hole size (in.): 8 1/2		Depth of drilled hole (ft.): 14,493		Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 20.0 P-110		No. of centralizers used:	
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.): 16,488		Top of liner (ft.):
			Setting depth liner (ft.):		
Hrs. waiting on cement before drill-out: n/a		Calculated top of cement (ft.): 6,870		Cementing date: 08-07-2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1710	H	.50 D AIR	2515	10980
2	100	H	.65 HR601 .25 D AIR	262	1152
3					
Total	1810			2777	12132
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.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:		Upper:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		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					
Total	0			0	0
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.)		Tapered string depth of drilled hole (ft.)			
Upper:		Lower:		Upper:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:		Upper:	
Lower:		Lower:		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					
Total	0			0	0



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
SO# 0904194933

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.

**STEVEN TOMS-SERVICE SUPERVISOR II**

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

1301 W. Webb St.

Brownfield, Tx, 79316

575-392-0700

08-07-2017

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.

*April Mestas*

*Regulatory Analyst*

*April Mestas*

Typed or printed name of operator's representative

Title

Signature

1050 17th St., Ste. 800

Denver, CO 80265

(303) 260-1167

12/22/17

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.

- 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.
- 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.state.tx.us/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).
- 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&rl=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&rl=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.
- 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.
- 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.
- 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.
- 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.: 184896

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: QEP ENERGY COMPANY	District No. 08	Completion Date: 10/21/2017
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 820427	
Lease Name UNIVERSITY 7-2730	Lease/ID No. 48980	Well No. N 16MB
County MARTIN	API No. 42- 317-40613	

## 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). \_\_\_\_\_

April Mestas

Signature

QEP ENERGY COMPANY

Name (print)

Title

(303) 260-1167

Phone

01/30/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



# Radial Cement Bond Gamma Ray CCL Log

Company QEP Resources Well University 7-2730 N 16MB Field Spraberry (Trend Area) County Martin State Texas	Company <b>QEP Resources</b>								
	Well <b>University 7-2730 N 16MB</b>								
	Field <b>Spraberry (Trend Area)</b>								
	County <b>Martin</b> State <b>Texas</b>								
Location:		API #: 42-317-40613		Other Services					
SEC		TWP		RGE					
Permanent Datum		Ground Level		Elevation 2924'					
Log Measured From		Kelly Bushing 25' APD		K.B. 2949'					
Drilling Measured From		Kelly Bushing		D.F. 2948'					
				G.L. 2924'					
Date		09-17-2017							
Run Number		One							
Depth Driller		16417'							
Depth Logger		9010'							
Bottom Logged Interval		9008'							
Top Log Interval		Surface							
Open Hole Size		-							
Type Fluid		Water							
Density / Viscosity		-							
Max. Recorded Temp.		-							
Estimated Cement Top		6050'							
Time Well Ready		On Arrival							
Time Logger on Bottom		8:45 A.M.							
Equipment Number		WL-004							
Location		Odessa, TX							
Recorded By		Rex Flores							
Witnessed By		Sam Sorensen							
Borehole Record				Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To		
Casing Record		Size		Wgt/Ft		Top		Bottom	
Surface String		13 3/8"		54.5#		Surface		516'	
Prot. String		9 5/8"		40#		Surface		8210'	
Production String		5 1/2"		20#		Surface		16417'	
Liner									
Marker Joint		8336'-8359'							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Primary Log On Well

All Depths Set To RTX Wireline

25' At Ground Level

Main Pass 5" =100'





**Railroad Commission of Texas**  
Oil And Gas Division  
Request for Clearance of Storage Tanks  
Prior to Potential Test

Form P-8

Reference No. 39996

1. Operator's Name and Address (Exactly as shown on Form P-5 Organization Report) QEP ENERGY COMPANY ATTN SOUTHERN DIV REGULATORY 1050 17TH ST SUITE 800 DENVER, CO 80265-0000		3. RRC District No. 08
2. RRC Operator Number: <u>684474</u>		4. County of Well Site MARTIN
		5. API No. 42-317-40613
6. Field Name (Wildcat or exactly as shown on RRC records) SPRABERRY (TREND AREA)	7. Drilling Permit No. 820427	8. Rule 37 Case No.
9. Lease Name UNIVERSITY 7-2730	10. Oil lease No.	11. Well No. N 16MB
12. Drilling completed on <u>08/07/2017</u>	13. Completion report--Form W-2 or G-1--will be filed on <u>11/07/2017</u>	
14. Oil or condensate gatherer's name and address RELIANCE GATHERING, LLC 300 N MARIENFELD ST STE 1100 MIDLAND, TX 79701-4384  (432) 683-4816	15. Authorization to transport oil or condensate (mark one) <input checked="" type="checkbox"/> Form P-4 attached <input checked="" type="checkbox"/> Form P-4 Filed on <u>10/25/2017</u>	
16. This request is for <u>270000</u> barrels of <input checked="" type="checkbox"/> crude oil OR <input type="checkbox"/> condensate	17. Amount of oil/condensate in tanks  <u>0</u> barrels on <u>10/20/2017</u>	
18. Storage capacity in bbls. Tank battery <u>2000</u> Test tanks <u>0</u> Total <u>2000</u>		
19. Previous request for clearance. Amount <u>0</u> barrels granted on _____		
20. Reason for current request for clearance (explain briefly) New horizontal well; initial flowback could be up to 2000 bbls/day.		
Katie Biersmith Name of operator's representative		REGULATORY ANALYST Title of person
(303) 672-6907 Telephone	10/25/2017 Date	
<b>RRC District Office Action</b>		
<b>Status:</b> Approved	<b>Barrels recommended</b> <u>270000</u>	<b>RRC Staff</b> <u>10/25/2017</u> Date

[illegible]

# CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

# P-12

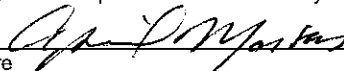
1. Field Name(s) <b>SPRABERRY (TREND AREA)</b>	2. Lease/ID Number (if assigned)	3. RRC District Number <b>08</b>
4. Operator Name <b>QEP Energy Company</b>	5. Operator P-5 Number <b>684474</b>	6. Well Number <b>N 16MB</b>
7. Pooled Unit Name <b>UNIVERSITY 7-2730</b>	8. API Number <b>317-40613</b>	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County <b>MARTIN</b>	11. Total acres in pooled unit <b>963</b>	

## DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT (See inst. #7 below)	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
TRACT 1	UNIVERSITY 7-2730	160	<input type="checkbox"/>	<input type="checkbox"/>
TRACT 2	UNIVERSITY 7-2730	160	<input type="checkbox"/>	<input type="checkbox"/>
TRACT 3	UNIVERSITY 7-2730	643	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

### CERTIFICATION:

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

Signature 	April Mestas
Regulatory Analyst <b>april.mestas@qepre.com</b>	Print Name <b>01/22/2018</b>
Title	E-mail (if available)
	Date
	Phone

### INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

- When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
- The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
- If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
- If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
- If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
- Identify the drill site tract with an \* to the left of the tract identifier.
- The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.





# RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

## Acreage Designation

### SECTION I. OPERATOR INFORMATION

Operator Name: QEP ENERGY COMPANY	Operator P-5 No.: 684474
Operator Address: 1050 17TH STREET SUITE 800 DENVER, CO 80265	

### SECTION II. WELL INFORMATION

District No.: 08	County: MARTIN	<b>Purpose of Filing:</b> <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: N 16MB	API No.: 42-317-40613	
Total Lease Acres: 963	Drilling Permit No.: 820427	
Lease Name: UNIVERSITY 7-2730	Lease No.: 48980	
Field Name: SPRABERRY (TREND AREA)	Field No.: 85280300	

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

### SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
48980	S 02SC	H	UNIVERSITY 7-2730	317-40530	30.92	N	
48980	N 04MA	H	UNIVERSITY 7-2730	317-40547	30.92	N	
48980	S 02LD	H	UNIVERSITY 7-2730	317-40531	30.92	N	
48980	S 03SA	H	UNIVERSITY 7-2730	317-40532	30.92	N	
48980	S 02 MB	H	UNIVERSITY 7-2730	317-40529	30.92	N	
48980	N 04SB	H	UNIVERSITY 7-2730	317-40543	30.92	N	
48980	N 05SC	H	UNIVERSITY 7-2730	317-40544	30.92	N	
48980	N 06MB	H	UNIVERSITY 7-2730	317-40542	30.92	N	
48980	S 06SA	H	UNIVERSITY 7-2730	317-40594	30.92	Y	
48980	S 07MA	H	UNIVERSITY 7-2730	317-40596	30.92	Y	
48980	S 07SB	H	UNIVERSITY 7-2730	317-40595	30.92	Y	
48980	S 08SC	H	UNIVERSITY 7-2730	317-40597	30.92	Y	
48980	N 09MB	H	UNIVERSITY 7-2730	317-40599	30.92	Y	
48980	N 09SA	H	UNIVERSITY 7-2730	317-40598	30.92	Y	
48980	N 10SC	H	UNIVERSITY 7-2730	317-40600	30.92	Y	
48980	N 11MA	H	UNIVERSITY 7-2730	317-40601	30.92	Y	
48980	S 11SA	H	UNIVERSITY 7-2730	317-40607	30.92	Y	

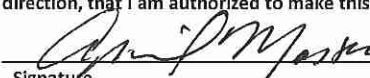
Total Well Count >	28	963	< A. Total Assigned Horiz. Acreage	963	< C. Total Assigned Acreage
		0	< Total Remaining Horiz. Acreage	0	< Total Remaining Acreage
		0	< B. Total Assigned Vert./Dir. Acreage		
		0	< Total Remaining Vert./Dir. Acreage		

### SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

This is a pooled horizontal unit. There are currently 4 Allocation wells that traverse through Tract 2 and Tract 3 of this unit (please see page 1A - Horizontal Well List (Cont'd)), and have been assigned acreage from this 2730 unit (that acreage has also been corrected to account for the new wells.) Total well count on page 1 includes all wells listed on page 1A-Horizontal Well List (Cont'd), likewise, the Total Horizontal Acreage on page 1 includes all the wells on page 1A Horizontal Well List (Cont'd).

Attach Additional Pages As Needed. ☐ No additional pages ☒ Additional Pages: 1 (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

 Signature	April Mestas, REGULATORY ANALYST Name and title (type or print)	Email (include email address only if you affirmatively consent to its public release)			
1050 17TH STREET SUITE 800 Address	DENVER CO 80265 City, State, Zip Code	303 Tel: Area Code	260-1864 Number	04/11/2018 Date: mo. day yr.	



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

Rev. 01/2016

Total Well Count >	PG.1	PG.1	< A. Total Assigned Horiz. Acreage	PG.1	< C. Total Assigned Acreage
		PG.1	< Total Remaining Horiz. Acreage	PG.1	< Total Remaining Acreage
		0	< B. Total Assigned Vert./Dir. Acreage		
		0	< Total Remaining Vert./Dir. Acreage		

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 29 August 2016**GAU Number:** 159200**Attention:** QEP ENERGY COMPANY  
ATTN SOUTHERN DIV  
DENVER, CO 80265**API Number:** 31740531  
**County:** MARTIN  
**Lease Name:** UNIVERSITY 7-2730**Operator No.:** 684474**Lease Number:**  
**Well Number:** S 02LD  
**Total Vertical Depth:** 8100  
**Latitude:** 32.394210  
**Longitude:** -102.173814  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-7; Section-27

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 a depth of 350 feet must be protected.

This recommendation is applicable for all wells drilled in this University 7-2730 Lease in Sections 27 and 30.

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).

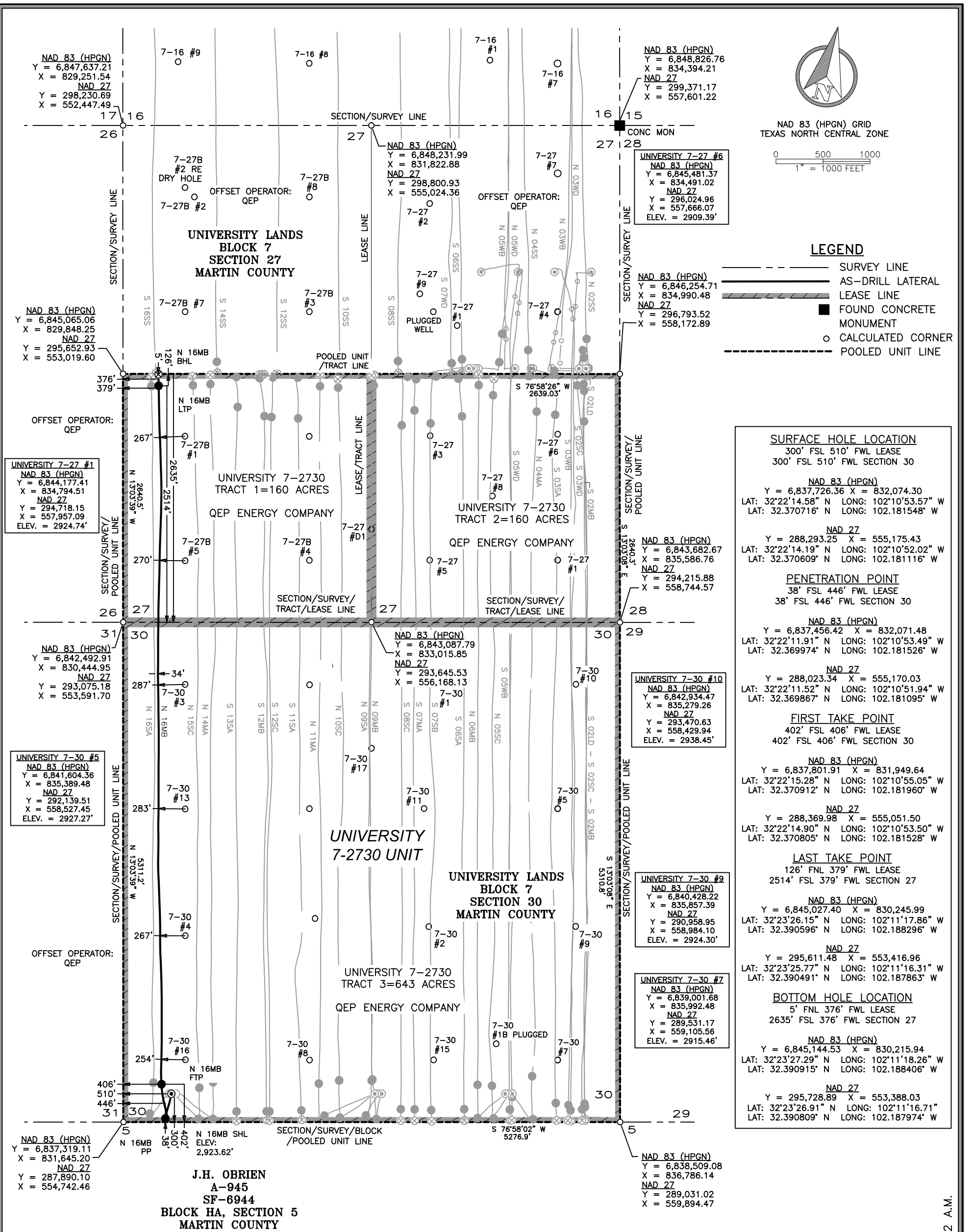
This determination is based on information provided when the application was submitted on 08/26/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or [gau@rrc.texas.gov](mailto:gau@rrc.texas.gov).

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](http://www.rrc.texas.gov)  
Rev. 02/2014



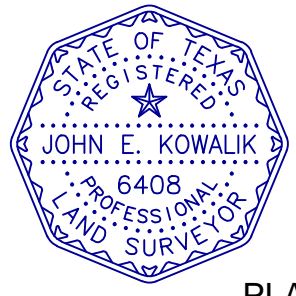




I HEREBY STATE THAT THIS PLAT  
SHOWS THE SUBJECT SURFACE  
LOCATION AS STAKED ON THE GROUND.

*John E. Kowalik*

JOHN E. KOWALIK  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF TEXAS NO. 6408



PLAT OF:  
AN AS-DRILLED WELL LOCATION FOR:  
**QEP ENERGY COMPANY**  
**UNIVERSITY 7-2730 UNIT**  
**UNIVERSITY 7-2730 N 16MB**  
SITUATED IN THE UNIVERSITY LANDS, BLOCK  
7, SECTIONS 27 AND 30, AND BEING  
APPROXIMATELY 22 MILES NORTHEAST OF  
ANDREWS IN MARTIN COUNTY, TEXAS.

**FSC INC**  
SURVEYORS+ENGINEERS  
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net  
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- GENERAL NOTES**
- COORDINATES SHOWN ARE BASED ON TEXAS COORDINATE SYSTEM OF NAD 83 (HPGN) "TEXAS NORTH CENTRAL ZONE", AND BASED ON "GLASS" NGS MONUMENT (Y = 6,817,164.36, X = 834,131.39)
  - VERTICAL DATUM IS NAVD 88
  - LATITUDE AND LONGITUDE ARE NAD 83 (HPGN) AS SHOWN
  - AREA, DISTANCES, AND COORDINATES ARE "GRID"
  - UNITS ARE UNITED STATES SURVEY FOOT.
  - ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACRESAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

**SURFACE HOLE LOCATION**  
300' FSL 510' FWL LEASE  
300' FSL 510' FWL SECTION 30

**NAD 83 (HPGN)**  
Y = 6,837,726.36 X = 832,074.30  
LAT: 32°22'14.58" N LONG: 102°10'53.57" W  
LAT: 32.370716° N LONG: 102.181548° W

**NAD 27**  
Y = 288,293.25 X = 555,175.43  
LAT: 32°22'14.19" N LONG: 102°10'52.02" W  
LAT: 32.370609° N LONG: 102.181116° W

**PENETRATION POINT**  
38' FSL 446' FWL LEASE  
38' FSL 446' FWL SECTION 30

**NAD 83 (HPGN)**  
Y = 6,837,456.42 X = 832,071.48  
LAT: 32°22'11.91" N LONG: 102°10'53.49" W  
LAT: 32.369974° N LONG: 102.181526° W

**NAD 27**  
Y = 288,023.34 X = 555,170.03  
LAT: 32°22'11.52" N LONG: 102°10'51.94" W  
LAT: 32.369867° N LONG: 102.181095° W

**FIRST TAKE POINT**  
402' FSL 406' FWL LEASE  
402' FSL 406' FWL SECTION 30

**NAD 83 (HPGN)**  
Y = 6,837,801.91 X = 831,949.64  
LAT: 32°22'15.28" N LONG: 102°10'55.05" W  
LAT: 32.370912° N LONG: 102.181960° W

**NAD 27**  
Y = 288,369.98 X = 555,051.50  
LAT: 32°22'14.90" N LONG: 102°10'53.50" W  
LAT: 32.370805° N LONG: 102.181528° W

**LAST TAKE POINT**  
126' FNL 379' FWL LEASE  
2514' FSL 379' FWL SECTION 27

**NAD 83 (HPGN)**  
Y = 6,845,027.40 X = 830,245.99  
LAT: 32°23'26.15" N LONG: 102°11'17.86" W  
LAT: 32.390596° N LONG: 102.188296° W

**NAD 27**  
Y = 295,611.48 X = 553,416.96  
LAT: 32°23'25.77" N LONG: 102°11'16.31" W  
LAT: 32.390491° N LONG: 102.187863° W

**BOTTOM HOLE LOCATION**  
5' FNL 376' FWL LEASE  
2635' FSL 376' FWL SECTION 27

**NAD 83 (HPGN)**  
Y = 6,845,144.53 X = 830,215.94  
LAT: 32°23'27.29" N LONG: 102°11'18.26" W  
LAT: 32.390915° N LONG: 102.188406° W

**NAD 27**  
Y = 295,728.89 X = 553,388.03  
LAT: 32°23'26.91" N LONG: 102°11'16.71" W  
LAT: 32.390809° N LONG: 102.187974° W

PLOT DATE: 02/01/18 10:32 A.M.