



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 02/07/2017
Tracking No.: 163562

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.: 42-317-40421 County: MARTIN
Well No.: S 13SS RRC District No.: 08
Lease Name: UNIVERSITY 7-1726 Field Name: SPRABERRY (TREND AREA)
RRC Lease No.: 47848 Field No.: 85280300
Location: Section: 17, Block: 7, Survey: UL, Abstract: U23
Latitude: 32.40823 Longitude: -102.2076
This well is located 20.7 miles in a NORTHEAST
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: 09/05/2016
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 04/14/2016 814863
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 07/17/2016 Date of first production after rig released: 09/05/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 07/17/2016 Date plug back, deepening, recompletion, or drilling operation ended: 08/03/2016
Number of producing wells on this lease in this field (reservoir) including this well: 9 Distance to nearest well in lease & reservoir (ft.): 431.0
Total number of acres in lease: 960.00 Elevation (ft.): 2933 GL
Total depth TVD (ft.): 9378 Total depth MD (ft.): 16987
Plug back depth TVD (ft.): 9358 Plug back depth MD (ft.): 16867
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 190.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)
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 NW Line and
1557.0 Feet from the SW Line of the
UNIVERSITY 7-1726 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.):** 350.0                      **Date:** 03/26/2014  
**SWR 13 Exception**    **Depth (ft.):**

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

**Date of test:** 10/01/2016    **Production method:** Flowing  
**Number of hours tested:** 24    **Choke size:** 0  
**Was swab used during this test?** No    **Oil produced prior to test:** 11150.00

**PRODUCTION DURING TEST PERIOD:**

**Oil (BBLs):** 885.00    **Gas (MCF):** 577  
**Gas - Oil Ratio:** 651    **Flowing Tubing Pressure:** 228.00  
**Water (BBLs):** 894

**CALCULATED 24-HOUR RATE**

**Oil (BBLs):** 885.0    **Gas (MCF):** 577  
**Oil Gravity - API - 60.:** 40.0    **Casing Pressure:** 123.00  
**Water (BBLs):** 894

**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	529			C	615	824.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	8197		8197	C	725	1563.0	5570	Calculation
3	Intermediate	9 5/8	12 1/4	8197	5570		C	2225	4855.0	264	Calculation
4	Conventional Production	5 1/2	8 3/4	16982			H & A	1890	2906.0	6500	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 (ft.)	Packer Depth (ft.)/Type
1	2 7/8	8499	/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 9560	16867.0

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

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? Yes

If yes, actuation pressure (PSIG): 6731.0

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 10000

Actual maximum pressure (PSIG) during hydraulic fracturing: 9038

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	STAGE 1-32 TREATED WITH 213,345 BBLs WATER	9560	16867
2	Fracture	STAGE 1-32 TREATED WITH 10,425,756 LBS PROPPANT	9560	16867

**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
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	9242.0	9295.0	Yes	
DEAN	No			No	DID NOT ENCOUNTER
WOLFCAMP	No			No	DID NOT ENCOUNTER
PENNSYLVANIAN	No			No	DID NOT ENCOUNTER
STRAWN	No			No	DID NOT ENCOUNTER
MISSISSIPPIAN	No			No	DID NOT ENCOUNTER
FUSSELMAN	No			No	DID NOT ENCOUNTER
SILURIAN	No			No	DID NOT ENCOUNTER
DEVONIAN	No			No	DID NOT ENCOUNTER
ELLENBURGER	No			No	DID NOT ENCOUNTER

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 @ 8834'

## RRC REMARKS

### PUBLIC COMMENTS:

[RRC Staff 2016-10-25 16:06:30.836] EDL=7319 feet, max acres=520, SPRABERRY (TREND AREA) oil well

### 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:** Melissa Luke

**Title:** Regulatory Affairs

**Telephone No.:** (303) 308-3610

**Date Certified:** 02/07/2017



# 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 Energy Co.	Operator P-5 No.: 684474
Cementer Name: Allied OFS, LLC	Cementer P-5 No.: 014447

WELL INFORMATION	
District No.: 05	County: Martin
Well No.: #1355	API No.: Drilling Permit No.: 814803
Lease Name: University 7-1726 S	Lease No.:
Field Name: Strawberry (Trend Area)	Field No.:

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.): 529	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:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	Top of liner (ft.):		Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 11.5	Calculated top of cement (ft.): Surface	Cementing date:	7/17/2016		
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	615	CLASS C	REMARKS #1	824.1	529
2					
3					
Total	615			824.1	529

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 drilled hole size (in.):				
Tapered string size of casing in O.D. (in.):	Tapered string casing weight (lbs/ft) and grade:		Tapered string no. of centralizers used:		
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:	7/17/2016		
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

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:	7/17/2016		
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

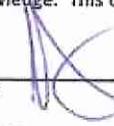
**CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON**

	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**

1: CLASS C + .53% CA-100 + .25# CLC-CPF      CIRCULATED 68 BBLs = 285 SACKS OF CEMENT TO SURFACE PIT

**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.

<u>COREY BEGAY - SERVICE SUPERVISOR</u> Name and title of cementer's representative	<u>Allied OPS, LLC</u> Cementing Company	 Signature
<u>8711 W. CR 127</u> Address	<u>Midland Texas 79706</u> City, State, Zip Code	<u>(432) 563-4440</u> Tel: Area Code Number
		<u>7/18/2016</u> 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.

<u>Kelly Hamden</u> Typed or printed name of operator's representative	<u>Regulatory Analyst</u> Title	<u>Kelly Hamden</u> Signature
<u>1050 17th St. SUITE 800</u> Address	<u>Denver, CO. 80265</u> City, State, Zip Code	<u>303-405-6630</u> Tel: Area Code Number
		<u>10/05/16</u> 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 representatives. 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 Commissioner'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 78711-2697).

**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\\_floc=&p\\_tloc=&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_floc=&p_tloc=&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 Cement 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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 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 Energy Co.	Operator P-5 No.: 084474
Cementer Name: Allied OFS, LLC	Cementer P-5 No.: 014442

WELL INFORMATION	
District No.: 08	County: Martin
Well No.: #1355	API No.: 317 40921
Lease Name: University 7-1726 S	Drilling Permit No.: 819803
Field Name: Spraberry (Trend Area)	Lease No.:
	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? If no for surface casing, explain in Remarks. <input type="checkbox"/> YES <input type="checkbox"/> NO			Setting depth shoe (ft.):	Top of liner (ft.):	
Hrs. waiting on cement before drill-out:			Calculated top of cement (ft.):	Cementing date:	7/23/2016
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

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.): 8217		Est. % wash-out or hole enlargement: 80%			
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40.0/L-80		No. of centralizers used:			
Tapered string drilled hole size (in.):			Tapered string drilled hole size (in.):			
Tapered string size of casing in O.D. (in.):			Tapered string casing weight(lbs/ft) and grade			
Tapered string no. of centralizers used			Setting depth shoe (ft.): 8217			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			Hrs. waiting on cement before drill-out: 11.5			
Calculated top of cement (ft.): 6570			Cementing date: 7/23/2016			
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)	
1	515	C	REMARKS	1252	3996	
2	210	C	REMARKS	311	860	
3						
Total	725	C	REMARKS	1563	4856	

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.): 8217		Est. % wash-out or hole enlargement: 150%			
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40.0/L-80		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			
Upper: Lower:			Upper: Lower:			
Tapered string no. of centralizers used			Setting depth tool (ft.): 6570			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			Hrs. waiting on cement before drill-out: 11.5			
Calculated top of cement (ft.): 204			Cementing date: 7/23/2016			
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)	
1	1735	C	REMARKS	4164	3363	
2	490	C	REMARKS	691	2204	
3						
Total	2225	C	REMARKS	4855	5567	

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**  
 LEAD 1 - 50:50 CLASS C, POZ BLEND, 10% GEL, 5LB/SK NaCl, CFL-330 .5%, CR-100 .5%, CLC-KOL 2LB/SK, CLC-CPF .25LB/SK, CDF-100P .25LB/SK. TAIL 1 - 100% CLASS C NEAT, CR-100 .7%, CA-400 .2%, CA-200 1%, CDF-100P .25LB/SK. LEAD 2 - 65:35 CLASS C, POZ BLEND, 4% GEL, CSA-100 2.25%, CSA-200 .1%, CA-500 3%, CFL-300 .3%, CR-800 .3%. TAIL 2 - 100% CLASS C NEAT, CFL-300 .6%, CR-100 .35%, CA-500 3%.

**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.

TAIT STOEPTEL, SERVICE SUPERVISOR      Allied OFS, LLC      [Signature]  
 Name and title of cementer's representative      Cementing Company      Signature

8711 W. CR 127      Midland Texas 79706      (432) 563-4440      7/23/2016  
 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.

Melissa Luke      Regulatory Analyst      [Signature]  
 Typed or printed name of operator's representative      Title      Signature

1050 4th St. Suite 800 Denver, CO 80205      (303) 556-1800      01/26/2017  
 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 representatives. 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 Commissioner'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 78711-2697).
- 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 collar. 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=&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=&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.
- 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 cements:** An operator must report the multi-stage cement shoe in II. Casing Cement 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.



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 ENERGY COMPANY-EBIZ
Operator P-5 No.: 684474
Cementer Name: HALLIBURTON
Cementer P-5 No.: 347151

WELL INFORMATION
District No.: 08
County: MARTIN
Well No.: S1355
API No.:
Drilling Permit No.: 814863
Lease Name: UNIVERSITY 7-1726
Lease No.:
Field Name: Spraberry (Trend Area)
Field No.:

I. CASING CEMENTING DATA
Type of casing: [ ] Conductor [ ] Surface [ ] Intermediate [ ] Liner [x] Production
Drilled hole size (in.): 8 3/4
Depth of drilled hole (ft.): 16.987
Est. % wash-out or hole enlargement: 15%
Size of casing in O.D. (in.): 5 1/2
Casing weight (lbs/ft) and grade: 20.0/HCP-110
No. of centralizers used:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [x] NO
Setting depth shoe (ft.): 16.982
Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: N/A
Calculated top of cement (ft.): 6500
Cementing date: 08/03/2016

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Rows include slurry 1, 2, 3, and Total.

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.):
Tapered string depth of drilled hole (ft.):
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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] NO
Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date:

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Rows include slurry 1, 2, 3, and Total.

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.):
Tapered string depth of drilled hole (ft.):
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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] NO
Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date:

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Rows include slurry 1, 2, 3, and Total.

**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**

LEAD ADDITIVES: 0.25% D-AIR 5000, 0.0750% SA-1015, 0.15 % HR 601, 0.15% CFR-3, 0.60% HALAD®-23. TAIL ADDITIVES: 5LBM SILICALITE, 0.60% HR-601, 0.25 LBM D-AIR 5000, 0.70% HALAD®-344, 5 LBM PGZMIX A.

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.

**RUBEN MEDINA SERVICE SUPERVISOR**

**Halliburton**



Name and title of cementer's representative	Cementing Company	Signature	
6155 W. Murphy St.	Odessa, TX, 79763	432-571-8600	08/03/2016
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.

<i>Kelly Handen</i>	<i>Regulatory Analyst</i>	<i>Kelly Handen</i>	
1050 17th St. Suite 800 Denver CO 80209	303-405-6630	10/05/16	
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.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).
- 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&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.
- 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.: 163562

*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: 09/05/2016
Field Name: SPRABERRY (TREND AREA)	Drilling Permit No. 814863	
Lease Name: UNIVERSITY 7-1726	Lease/ID No. 47848	Well No. S 13SS
County: MARTIN	API No. 42- 317-40421	

**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). \_\_\_\_\_

Kelly Hamden  
 \_\_\_\_\_  
 Signature  
 QEP ENERGY COMPANY  
 \_\_\_\_\_  
 Name (print)

Regulatory Analyst  
 \_\_\_\_\_  
 Title  
 (303) 405-6630  
 \_\_\_\_\_  
 Phone  
 10/17/2016  
 \_\_\_\_\_  
 Date

-FOR RAILROAD COMMISSION USE ONLY-



**Crescent Directional Drilling**

Tyrell Whitehead  
Midland, Tx  
(325)260-9739

**University 7 1726 S 013SS**

**Scale 5":100' - TVD**

**8/1/2016 2:46 PM**

**Oper. Company:** Questar

**Well:** University 7 1726 S 013SS

**Field:** Sprayberry

**Rig:** Unit 401

**Well ID:** 42-317-40421

**Job Number:** PB-161206

**State:** TX

**County:** Martin

**Country:** USA

**Location:** Tarzan

**Start Date:** 07/26/2016 19:30:00

**End Date:** 08/01/2016 12:20:00

**Latitude:** 32.242952

**Longitude:** -102.1225990

**Elev KB:** 2954'

**Elev DF:** 2954'

**Elev GL:** 2933'

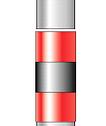
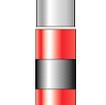
**Operator 1:** Chris Gayhart

**Operator 2:** Barrett Blevins

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	HEK179	HEG044	HEK564	EK497-15	
Cal Factor	1.123	1.127	1.143	1.109	
Survey Offset:	57.00	65.00	62.00	62.00	
Gamma Offset	0.00	0.00	0.00	0.00	
Resisitivity Offset	0.00	0.00	0.00	0.00	
Start Depth	9188.00	9693.00	12370.00	15388.00	
StartDate	7/25/2016	7/26/2016	7/28/2016	7/31/2016	
StartTime	07:30	19:30	20:30	18:00	
EndDepth	9693.00	12370.00	15388.00	16987.00	
EndDate	7/26/2016	7/28/2016	7/31/2016	8/1/2016	
EndTime	18:20	19:45	04:30	12:35	

Hole Data			Casing Data		
Size	From	To	Size	From	To
13.375	0.00	529.00	13.375	0.00	529.00
9.625	529.00	8217.00	9.625	529.00	8217.00
8.5	8217.00	16987.00	8.5	8217.00	16987.00

**BHA Data**

Picture	Type	Length	Description
	Bit	1	Smith, MDSi613, (6-18's), JM3194, 8 1/2
	Motor	29.17	Crescent, 1.62 Fxd, Slick, 7/8 6.4, CD65053, 6 3/4
	Sub1	5.27	8" NM IBS, ASM7008, 6 1/2
	Sub1	2.95	Crescent, UBHO, CD675007, 6 3/4
	Sub2	31.26	NMDC, AMDC6022, 6 13/16
	Sub2	5.56	8" NM IBS, ASM8014, 6 9/16

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

DAVID PORTER, CHAIRMAN  
CHRISTI CRADDICK, COMMISSIONER  
RYAN SITTON, COMMISSIONER



LORI WROTENBERY  
DIRECTOR, O&G DIVISION

1701 N. CONGRESS

CAPITOL STATION - P.O. BOX 12967 AUSTIN, TEXAS 78711-2967

08/23/2016

FORM P-4 NOTIFICATION (OIL LEASE)

OPERATOR

QEP ENERGY COMPANY  
ATTN SOUTHERN DIV REGULATORY  
1050 17TH ST SUITE 800  
DENVER CO 80265

\* \* \* \* \*  
THE FOLLOWING RRC FORM P-4 "PRODUCER'S CERTIFICATE OF COMPLIANCE AND  
AUTHORIZATION TO TRANSPORT OIL AND/OR CASINGHEAD GAS FROM AN OIL LEASE  
OR GAS AND/OR CONDENSATE FROM A GAS WELL" FILED BY:

QEP ENERGY COMPANY P-5 NO. 684474  
ATTN SOUTHERN DIV REGULATORY PHONE: (303)672-6900  
1050 17TH ST SUITE 800  
DENVER CO 80265

HAS BEEN APPROVED ON AUGUST 23, 2016 .

\* \* \* \* \*

DISTRICT : 08 FIELD NAME: SPRABERRY (TREND AREA)  
COUNTY : ANDREWS FIELD NO. : 85280 300  
EFF. DATE: 08/16/2015 LEASE NAME: UNIVERSITY 7-1726  
LEASE NO : 47848

FOR THE PURPOSE OF: NEW OIL LEASE

NAMED ON THE P-4 :

TYPE	NAME	CODE	PRODUCT	% OF TAKE
GATHERER	PLAINS MARKETING, L.P.	PLAML	OIL	050.000
GATHERER	RELIANCE GATHERING, LLC	RELIG	OIL	050.000
GATHERER	WILLIAMS MLP OPERATING LLC	WILMP	CAS	100.000
PURCHASER	ETC TEXAS P/L, LTD	255104	CAS	050.000
	SYSTEM: 0001 SYSTEM 1			
PURCHASER	WTG GAS PROCESSING, L.P.	945227	CAS	050.000
	SYSTEM: 0003 SALE RANCH PLANT			

PLEASE NOTIFY THE AUSTIN OFFICE OF THE RAILROAD COMMISSION IF ANY OF THE  
ABOVE INFORMATION IS NOT CORRECT.

APPROVED BY  
LORI WROTENBERY  
DIRECTOR, O&G DIVISION  
OIL AND GAS DIVISION

CC: RRC-08, AND ALL NAMED PARTIES

# CERTIFICATE OF POOLING AUTHORITY

# P-12

Revised 05/2001

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>S 13SS</b>
7. Pooled Unit Name <b>UNIVERSITY 7-1726</b>	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1)
10. County <b>MARTIN</b>	11. Total acres in pooled unit <b>960.0</b>	<input type="checkbox"/> Completion Report

### DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT <i>(See inst. #7 below)</i>	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
A	UNIVERSITY 7-1726	320.0	<input type="checkbox"/>	<input type="checkbox"/>
B	UNIVERSITY 7-1726	320.0	<input type="checkbox"/>	<input type="checkbox"/>
C	UNIVERSITY 7-1726	160.0	<input type="checkbox"/>	<input type="checkbox"/>
D	UNIVERSITY 7-1726	160.0	<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.

*Kelly Hamden*  
 Signature  
 Regulatory Analyst      E-mail (if available)      Kelly.Hamden@qepres.com  
 Title

Kelly Hamden  
 Print Name  
04/05/2016      (303) 405-6630  
 Date      Phone

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

1. 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.
2. 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.
3. If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
4. 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.
5. If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
6. Identify the drill site tract with an \* to the left of the tract identifier.
7. The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

Clear Form





**RAILROAD COMMISSION OF TEXAS**

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

P-16 Data Sheet

Attachment

Page 1A

Rev. 09/2014

**Acreage Designation Attachment**

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 (CONTINUED). 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)
38529	1	V	UNIVERSITY 7-17 (TRACT A)	317-34987	40.0	N	
38529	2	V	UNIVERSITY 7-17	317-35348	40.0	N	
38529	4	V	UNIVERSITY 7-17	317-35880	40.0	N	
38529	5	V	UNIVERSITY 7-17	317-39570	40.0	Y	
38529	6	V	UNIVERSITY 7-17	317-39255	80.0	Y	
38529	7	V	UNIVERSITY 7-17	317-39360	80.0	Y	
38620	1	V	UNIVERSITY 7-17B (TRACT B)	317-36969	80	N	
38620	2	V	UNIVERSITY 7-17B	317-36062	80	N	
38620	3	V	UNIVERSITY 7-17B	317-35131	40	N	
38620	4	V	UNIVERSITY 7-17B	317-36129	40	N	
38620	9	V	UNIVERSITY 7-17B	317-39884	80	Y	
38620	20	V	STATE OF TEXAS AR	317-31472	0	N	
38533	1	V	UNIVERSITY 7-26 (TRACT C)	317-34988	80.0	N	
38533	2	V	UNIVERSITY 7-26	317-36990	40.0	Y	
38533	5	V	UNIVERSITY 7-26	317-35851	80.0	N	
41328	1	V	UNIVERSITY 7-26 SWD	317-36557	0.0	N	
38870	2	V	UNIVERSITY 7-26B (TRACT D)	317-35486	40	N	
38870	3	V	UNIVERSITY 7-26B	317-36608	35	N	
38870	9	V	UNIVERSITY 7-26B	317-38024	40.06	Y	
38870	10	V	UNIVERSITY 7-26B	317-38047	40.05	Y	
38870	12	V	UNIVERSITY 7-26B	317-36658	20	Y	
			*Please note: Tracts C & D do not encompass remaining lease acreage outside of this pooled unit.				

Total Well Count >	21	0.0	< A. Total Assigned Horiz. Acreage	1015.11	< C. Total Assigned Acreage
		0.0	< Total Remaining Horiz. Acreage		< Total Remaining Acreage
		1015.11	< B. Total Assigned Vert./Dir. Acreage		
		0.0	< Total Remaining Vert./Dir. Acreage		

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date **March 26, 2014**

GAU File No.: **9400**

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

API Number **31700000**

Attention: **TRACY SIMPSON-REGULATORY**

RRC Lease No. **000000**

SC\_684474\_31700000\_000000\_9400.pdf

**OEP ENERGY CO  
6100 S YALE AVE  
STE 900  
TULSA OK 74136**

--Measured--

**2172 ft FWL**

**1828 ft FNL**

**MRL: SECTION**

Digital Map Location:

X-coord/Long **548668**

Y-coord/Lat **300928**

Datum **27** Zone **NC**

**P-5# 684474**

County **MARTIN**

Lease & Well No. **UNIVERSITY 7-17 #7&ALL**

Purpose **ND**

Location **SUR-UL, BLK-7, SEC-17, -- [TD=12000], [RRC 8],**

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 to all wells drilled in this N  
1/2 SECTION 17 ON THIS LEASE.

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

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

Sincerely,

**George Dunfield, P.G.**

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by George Dunfield on 3/26/2014  
Note: Alteration of this electronic document will invalidate the digital signature.

UNIVERSITY LANDS  
BLOCK 7  
SECTION 12  
MARTIN AND ANDREWS  
COUNTIES



NAD 83 (HPGN) GRID  
TEXAS NORTH CENTRAL ZONE

0 500 1000  
1" = 1000 FEET

LEGEND

- SURVEY LINE
- PROPOSED LATERAL
- LEASE LINE
- FOUND CONCRETE MONUMENT
- CALCULATED CORNER
- POOLED UNIT

NAD 83 (HPGN)  
Y = 6,851,590.49  
X = 822,917.43  
NAD 27  
Y = 302,244.23  
X = 546,151.50

NAD 83 (HPGN)  
Y = 6,852,185.74  
X = 825,487.85  
NAD 27  
Y = 302,814.96  
X = 548,727.46

NAD 83 (HPGN)  
Y = 6,852,780.99  
X = 828,058.26  
NAD 27  
Y = 303,385.68  
X = 551,303.41

UNIVERSITY 7-26 #2  
NAD 83 (HPGN)  
Y = 6,846,250.61  
X = 826,187.27  
NAD 27  
Y = 296,873.35  
X = 549,370.16  
ELEV. = 2935.8'

UNIVERSITY 7-17 #3  
NAD 83 (HPGN)  
Y = 6,848,822.60  
X = 825,591.50  
NAD 27  
Y = 299,450.94  
X = 548,798.98  
ELEV. = 2928.6'

UNIVERSITY 7-17 #2  
NAD 83 (HPGN)  
Y = 6,851,392.26  
X = 824,994.72  
NAD 27  
Y = 302,026.20  
X = 548,226.78  
ELEV. = 2933.6'

**SURFACE HOLE LOCATION**  
300' FNL 1557' FWL LEASE  
300' FNL 1557' FWL SECTION 17

NAD 83 (HPGN)  
Y = 6,851,649.49 X = 824,501.99  
LAT: 32°24'29.63" N LONG: 102°12'27.54" W  
LAT: 32.408232° N LONG: 102.207650° W

NAD 27  
Y = 302,288.12 X = 547,736.54  
LAT: 32°24'29.26" N LONG: 102°12'25.98" W  
LAT: 32.408127° N LONG: 102.207216° W

**PENETRATION POINT**  
274' FNL, 1411' FWL LEASE  
274' FNL 1411' FWL SECTION 17

NAD 83 (HPGN)  
Y = 6,851,641.50 X = 824,353.96  
LAT: 32°24'29.50" N LONG: 102°12'29.26" W  
LAT: 32.408196° N LONG: 102.208128° W

NAD 27  
Y = 302,281.55 X = 547,588.44  
LAT: 32°24'29.13" N LONG: 102°12'27.70" W  
LAT: 32.408091° N LONG: 102.207694° W

**FIRST TAKE POINT**  
494' FNL 1413' FWL LEASE  
494' FNL 1413' FWL SECTION 17

NAD 83 (HPGN)  
Y = 6,851,428.09 X = 824,405.51  
LAT: 32°24'27.41" N LONG: 102°12'28.57" W  
LAT: 32.407614° N LONG: 102.207937° W

NAD 27  
Y = 302,067.65 X = 547,637.95  
LAT: 32°24'27.03" N LONG: 102°12'27.01" W  
LAT: 32.407510° N LONG: 102.207503° W

**LAST TAKE POINT**  
123' FSL, 1414' FWL LEASE  
2517' FNL, 1414' FWL SECTION 26

NAD 83 (HPGN)  
Y = 6,844,314.45 X = 826,056.14  
LAT: 32°23'17.64" N LONG: 102°12'06.41" W  
LAT: 32.388233° N LONG: 102.201780° W

NAD 27  
Y = 294,938.50 X = 549,220.54  
LAT: 32°23'17.26" N LONG: 102°12'04.85" W  
LAT: 32.388127° N LONG: 102.201347° W

**BOTTOM HOLE LOCATION**  
3' FSL, 1417' FWL LEASE  
2637' FNL, 1417' FWL SECTION 26

NAD 83 (HPGN)  
Y = 6,844,198.23 X = 826,085.91  
LAT: 32°23'16.50" N LONG: 102°12'06.01" W  
LAT: 32.387916° N LONG: 102.201670° W

NAD 27  
Y = 294,822.00 X = 549,249.20  
LAT: 32°23'16.12" N LONG: 102°12'04.45" W  
LAT: 32.387811° N LONG: 102.201237° W

NAD 83 (HPGN)  
Y = 6,846,447.67  
X = 824,108.88  
NAD 27  
Y = 297,090.22  
X = 547,293.77

NAD 83 (HPGN)  
Y = 6,847,042.44  
X = 826,680.21  
NAD 27  
Y = 297,660.45  
X = 549,870.63

NAD 83 (HPGN)  
Y = 6,847,637.21  
X = 829,251.54  
NAD 27  
Y = 298,230.69  
X = 552,447.49

UNIVERSITY 7-26 #1  
SWD  
NAD 83 (HPGN)  
Y = 6,846,102.73  
X = 825,545.01  
NAD 27  
Y = 296,731.60  
X = 548,726.52  
ELEV. = 2934.1'

NAD 83 (HPGN)  
Y = 6,845,065.06  
X = 829,848.25  
NAD 27  
Y = 295,652.93  
X = 553,019.60

NAD 83 (HPGN)  
Y = 6,844,470.24  
X = 827,277.13  
NAD 27  
Y = 295,082.64  
X = 550,442.95

NAD 83 (HPGN)  
Y = 6,842,492.91  
X = 830,444.95  
NAD 27  
Y = 293,075.18  
X = 553,591.70

UNIVERSITY 7-26 #5  
NAD 83 (HPGN)  
Y = 6,844,963.06  
X = 826,484.39  
NAD 27  
Y = 295,583.01  
X = 549,654.96  
ELEV. = 2935.6'

UNIVERSITY 7-17 #6  
NAD 83 (HPGN)  
Y = 6,847,521.49  
X = 825,891.66  
NAD 27  
Y = 298,147.01  
X = 549,086.70  
ELEV. = 2932.3'

NAD 83 (HPGN)  
Y = 6,841,303.15  
X = 825,303.15  
NAD 27  
Y = 293,934.47  
X = 548,438.84

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 7-1726 UNIT**  
**UNIVERSITY 7-1726 S 13SS**

SITUATED IN THE UNIVERSITY LANDS, BLOCK 7, SECTIONS 17 AND 26, AND BEING APPROXIMATELY 20.7 MILES NORTHEAST OF ANDREWS IN MARTIN COUNTY, TEXAS.



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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DATE: 10/12/16  
DRAWN BY: GG  
CHECKED BY: JK  
FIELD CREW: RR/KN  
PROJECT NO: 2015081001  
SCALE: 1" = 1000'  
SHEET: 1 OF 1  
REVISION: NO

GENERAL NOTES

1. 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)
2. VERTICAL DATUM IS NAVD 88
3. LATITUDE AND LONGITUDE ARE NAD 83 (HPGN) AS SHOWN
4. AREA, DISTANCES, AND COORDINATES ARE "GRID"
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACRES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

PLOT DATE: 10/12/16 6:15 P.M.