

**RAILROAD COMMISSION OF TEXAS****Form W-2**

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

Status: Approved
Date: 05/11/2018
Tracking No.: 188924

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.: 42-317-40608 County: MARTIN
Well No.: S 12SC RRC District No.: 08
Lease Name: UNIVERSITY 7-2730 Field Name: SPRABERRY (TREND AREA)
RRC Lease No.: 48980 Field No.: 85280300
Location: Section: 27, Block: 7, Survey: UL, Abstract: U27

Latitude: Longitude:
This well is located 22 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: 10/18/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	11/30/2016	820411
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/26/2017	Date of first production after rig released: 10/18/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/26/2017	Date plug back, deepening, recompletion, or drilling operation ended: 08/13/2017
Number of producing wells on this lease in this field (reservoir) including this well: 24	Distance to nearest well in lease & reservoir (ft.): 26.0
Total number of acres in lease: 963.00	Elevation (ft.): 2926 GL
Total depth TVD (ft.): 9582	Total depth MD (ft.): 17220
Plug back depth TVD (ft.): 9582	Plug back depth MD (ft.): 17122
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 64.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Acceptable cased hole logs	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries of lease on which this well is located: 5.0 Feet from the North Line and 1500.0 Feet from the West Line of the UNIVERSITY 7-2730 Lease.	Off Lease : No

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
SWR 13 Exception	Date: 08/29/2016
	Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test: 11/10/2017	Production method: Pumping
Number of hours tested: 24	Choke size:
Was swab used during this test? No	Oil produced prior to test: 17039.00
PRODUCTION DURING TEST PERIOD:	
Oil (BBLs): 1070.05	Gas (MCF): 624
Gas - Oil Ratio: 583	Flowing Tubing Pressure: 250.00
Water (BBLs): 1241	
CALCULATED 24-HOUR RATE	
Oil (BBLs): 1070.0	Gas (MCF): 624
Oil Gravity - API - 60.: 40.0	Casing Pressure: 39.00
Water (BBLs): 1241	

CASING RECORD											
Row	Type of Casing	Casing Hole		Setting	Multi -	Multi -	Cement Class	Cement	Slurry	Top of	TOC
		Size (in.)	Size (in.)	Depth (ft.)	Stage Tool Depth (ft.)	Stage Shoe Depth (ft.)		Amount (sacks)	Volume (cu. ft.)	Cement (ft.)	Determined By
1	Surface	13 3/8	17 1/2	494			C	515	700.4	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	7091			C	435	801.0	5538	Calculation
3	Intermediate	9 5/8	12 1/4	7091	5538		C	2425	5250.0	SURF ACE	Circulated to Surface
4	Conventional Production	5 1/2	8 1/2	17214			C & H	2080	3174.5	6668	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.)	Packer Depth (ft.)/Type
1	2 7/8	9033	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 9735	17122.0

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): 5592.0

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

Actual maximum pressure (PSIG) during hydraulic fracturing: 8987

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	95500 GALLONS OF ACID	9735	17122
2	Fracture	1,131,385 LBS OF 100 MESH, 8,501,443 LBS OF PREMIUM WHITE, 748,466 LBS OF CRC PREMIUM	9735	17122

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
	No			No	DID NOT DRILL DEEP ENOUGH
SPRABERRY	Yes	9267.0	9282.0	Yes	
DEAN	No			No	DID NOT DRILL DEEP ENOUGH
WOLFCAMP	No			No	DID NOT DRILL DEEP ENOUGH
PENNSYLVANIAN	No			No	DID NOT DRILL DEEP ENOUGH
STRAWN	No			No	DID NOT DRILL DEEP ENOUGH
MISSISSIPPIAN	No			No	DID NOT DRILL DEEP ENOUGH
FUSSELMAN	No			No	DID NOT DRILL DEEP ENOUGH
SILURIAN	No			No	DID NOT DRILL DEEP ENOUGH
DEVONIAN	No			No	DID NOT DRILL DEEP ENOUGH
ELLENBURGER	No			No	DID NOT DRILL DEEP ENOUGH

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 @ 9043

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2018-05-10 12:07:19.188] EDL=7387 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. :

FOR ADDITIONAL INFORMATION SEE FRAC FOCUS

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Richard Whittington

Title: Regulatory Manager

Telephone No.: (303) 573-3412

Date Certified: 03/20/2018



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:	QEP	Operator P-5 No.:	684474
Cementer Name:	Quasar Energy Services	Cementer P-5 No.:	684563

WELL INFORMATION

District No.:	08	County:	Martin		
Well No.:	7-2730 S 12SC	API No.:	42-317-40608	Drilling Permit No.:	820411
Lease Name:	University	Lease No.:	48980		
Field Name:	Spraberry (TREND AREA)	Field No.:	85280300		

I. CASING CEMENT 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
Size of hole	17 1/2	Depth of drilled hole (ft.):	# 500	Est. % wash-out or hole enlargement: %100	
Size of casing in O.D. (in.):	13 3/8	Casing weight (lbs/ft) and grade:	54.5# J-55	No. of centralizers used: 0	
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.):
				494	
Hrs. waiting on cement before drill-out:			Calculated top of cement (ft.):	Cementing date: 5/29/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	515	C	2% Calcium Chloride, 1/4# Cello Flakes	700.4	1008.3
2					
3					
Total	515				

II. CASING CEMENT 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 CEMENT 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 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	

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.

John Mosman	Cementer	Quasar Energy Services	
Name and title of cementer's representative		Cementing Company	
1811 ECR 140	Midland, Texas, 79706	(432) 687-3336	
Address	City, State, Zip Code	Tel: Area Code Number	Date: Month/Day/Year

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.

Richard A. Whittington II	Regulatory Manager	
Typed or printed name of operator's representative		Title
1050 17th St Suite 800	Denver, CO 80265	301-573-3412
Address	City, State, Zip Code	Tel: Area Code Number

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/readtacSext.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). 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. 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 Cement Data box.



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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.: 689474
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION	
District No.: 08	County: MARTIN
Well No.: S 125C	API No.: 42-317-40608
Lease Name: UNIVERSITY 7-2730	Drilling Permit No.: 820911
Field Name: SPRABERRY CTREND AREA	Lease No.: 48980
	Field No.: 95280300

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.): 7101	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40# HCL-80	No. of centralizers used: 7
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:
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.): 7091	
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): 5538	Cementing date: 7/12/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	175	C	0.40% GAS STOP	492	1572
2	260	C	.40% HALAD-344/0.50% HR-800	309	987
3					
Total	435			801	2559

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.): 7101	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40# HCL-80	No. of centralizers used: 8
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:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.): 5583	
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): surface	Cementing date: 7/13/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1945	C	0.40% GAS STOP	4608	3488
2	480	C	.40% HALAD-344/0.45% HR-800	642	2051
3					
Total	2425			5250	5539

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
S.O.# 0904143544 CEMENT TO SURFACE 830SKS / 350 BBLs

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.

GUSTAVO GARZA SERVICE SUPERVISOR

Halliburton

[Signature]

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

7/13/2017

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.

Richard A Whittington II

Regulatory Manager

[Signature]

Typed or printed name of operator's representative

Title

Signature

1050 17th St, Suite 800

Denver, CO 80210

303-575-3412

03/14/18

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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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.
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- 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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CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: QEP RESOURCES INC-EBUS	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: MARTIN	
Well No.: S 125C	API No.: 42-317-40608	Drilling Permit No.: 820411
Lease Name: UNIVERSITY 7-2730	Lease No.: 48780	
Field Name: STRABERRY (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.): 17,220	Est. % wash-out or hole enlargement: 15
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 20 HCP-110	No. of centralizers used: 0
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.): 17,214	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: N/A	Calculated top of cement (ft.): 6668	Cementing date: 08/14/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1980	C	SEE REMARKS	2912.58	12014.17
2	100	H	SEE REMARKS	261.9	1117.2123
3					
Total	2080			3174.48	13131.3823

II. CASING CEMENTING DATA

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

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
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#0904212588 CEMENT SLURRY ADDITIVES: SLURRY#1: 0.50% HALAD(R)-344, 1% CA-661, 0.50% HR-601, 0.50 LBM D-AIR 5000. SLURRY #2: 0.65% HR-601, 0.25 LBM D-AIR 5000, 0.70% HALAD(R)-344. NO CEMENT CALCULATED TO SURFACE.

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.

STAN DURHAM / SERVICE SUPERVISOR

Halliburton

Stan Durham

Name and title of cementer's representative
6155 W. Murphy St.

Cementing Company
Odessa, TX, 79763

Signature
432-571-8600

08/14/2017

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.

Richard A Whittington II

Regulatory Manager

Richard A Whittington II

Typed or printed name of operator's representative

Title

Signature

1050 17th St Suite 800

Odessa, TX 79763

303-573-3412

03/14/18

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.: 188924

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: 10/18/2017
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 820411	
Lease Name UNIVERSITY 7-2730	Lease/ID No. 48980	Well No. S 12SC
County MARTIN	API No. 42- 317-40608	

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). _____

Richard Whittington

Signature

QEP ENERGY COMPANY

Name (print)

Regulatory Manager

Title

(303) 573-3412

Phone

03/14/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



Radial Cement Bond Gamma Ray CCL Log

Company QEP Resources Well University 7-2730 S 12SC Field Spraberry (Trend Area) County Martin State Texas	Company QEP Resources							
	Well University 7-2730 S 12SC							
	Field Spraberry (Trend Area)							
	County Martin State Texas							
Location:		API #: 42-317-40608			Other Services			
SEC		TWP			RGE			
Permanent Datum		Ground Level			Elevation 2926'			
Log Measured From		KB 25' APD			K.B. 2951'			
Drilling Measured From		KB			D.F. 2950'			
					G.L. 2926'			
Date		09-14-2017						
Run Number		One						
Depth Driller		17220'						
Depth Logger		9793'						
Bottom Logged Interval		9791'						
Top Log Interval		Surface						
Open Hole Size		8 1/2"						
Type Fluid		Water						
Density / Viscosity		-						
Max. Recorded Temp.		-						
Estimated Cement Top		6668'						
Time Well Ready		On Arrival						
Time Logger on Bottom		See Log						
Equipment Number		WL-001						
Location		Midland, Texas						
Recorded By		Bruce Miller						
Witnessed By		Robert Boice						
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# J-55		Surface		525'
Prot. String		9 5/8"		40# HCL-80		Surface		7091'
Production String		5 1/2"		20# HCP-110		Surface		17214'
Liner						Marker Joint		8994' to 9016'

<<< 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

***** Thank You For Using RTX Wireline *****
This is the primary log.



Main Pass 5" = 100'

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

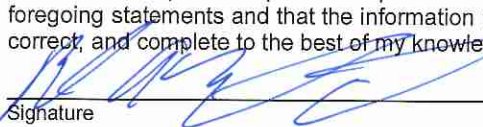
1. Field Name(s) SPRABERRY (TREND AREA)	2. Lease/ID Number (if assigned) 48980	3. RRC District Number 08
4. Operator Name QEP Energy Company	5. Operator P-5 Number 684474	6. Well Number S 12SC
7. Pooled Unit Name UNIVERSITY 7-2730	8. API Number 42-317-40608	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County MARTIN	11. Total acres in pooled unit 963	

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
Regulatory Manager richard.whittington@qepres.com
Title E-mail (if available)

Richard A. Whittington II
Print Name
03/13/2018 (303) 573-3412
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.

Clear Form



RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acres 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	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: S 12SC	API No.: 42-317-40608	
Total Lease Acres: 963	Drilling Permit No.: 820411	
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	37.1	N	
48980	N 04MA	H	UNIVERSITY 7-2730	317-40547	37.1	N	
48980	S 02LD	H	UNIVERSITY 7-2730	317-40531	37.1	N	
48980	S 03SA	H	UNIVERSITY 7-2730	317-40532	37.1	N	
48980	S 02 MB	H	UNIVERSITY 7-2730	317-40529	37.1	N	
48980	N 04SB	H	UNIVERSITY 7-2730	317-40543	37.1	N	
48980	N 05SC	H	UNIVERSITY 7-2730	317-40544	37.1	N	
48980	N 06MB	H	UNIVERSITY 7-2730	317-40542	37.1	N	
48980	S 06SA	H	UNIVERSITY 7-2730	317-40594	37.1	Y	
48980	S 07MA	H	UNIVERSITY 7-2730	317-40596	37.1	Y	
48980	S 07SB	H	UNIVERSITY 7-2730	317-40595	37.1	Y	
48980	S 08SC	H	UNIVERSITY 7-2730	317-40597	37.1	Y	
48980	N 09MB	H	UNIVERSITY 7-2730	317-40599	37.1	Y	
48980	N 09SA	H	UNIVERSITY 7-2730	317-40598	37.1	Y	
48980	N 10SC	H	UNIVERSITY 7-2730	317-40600	37.1	Y	
48980	N 11MA	H	UNIVERSITY 7-2730	317-40601	37.1	Y	
48980	S 11SA	H	UNIVERSITY 7-2730	317-40607	37.1	Y	

Total Well Count >	24	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.

Katie Biersmith
Signature

KATIE BIERSMITH, REGULATORY ANALYST
Name and title (type or print)

katie.biersmith@qepres.com

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

672-6907
Number

03/14/2018
Date: mo. day yr.

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

Acreage Designation Attachment

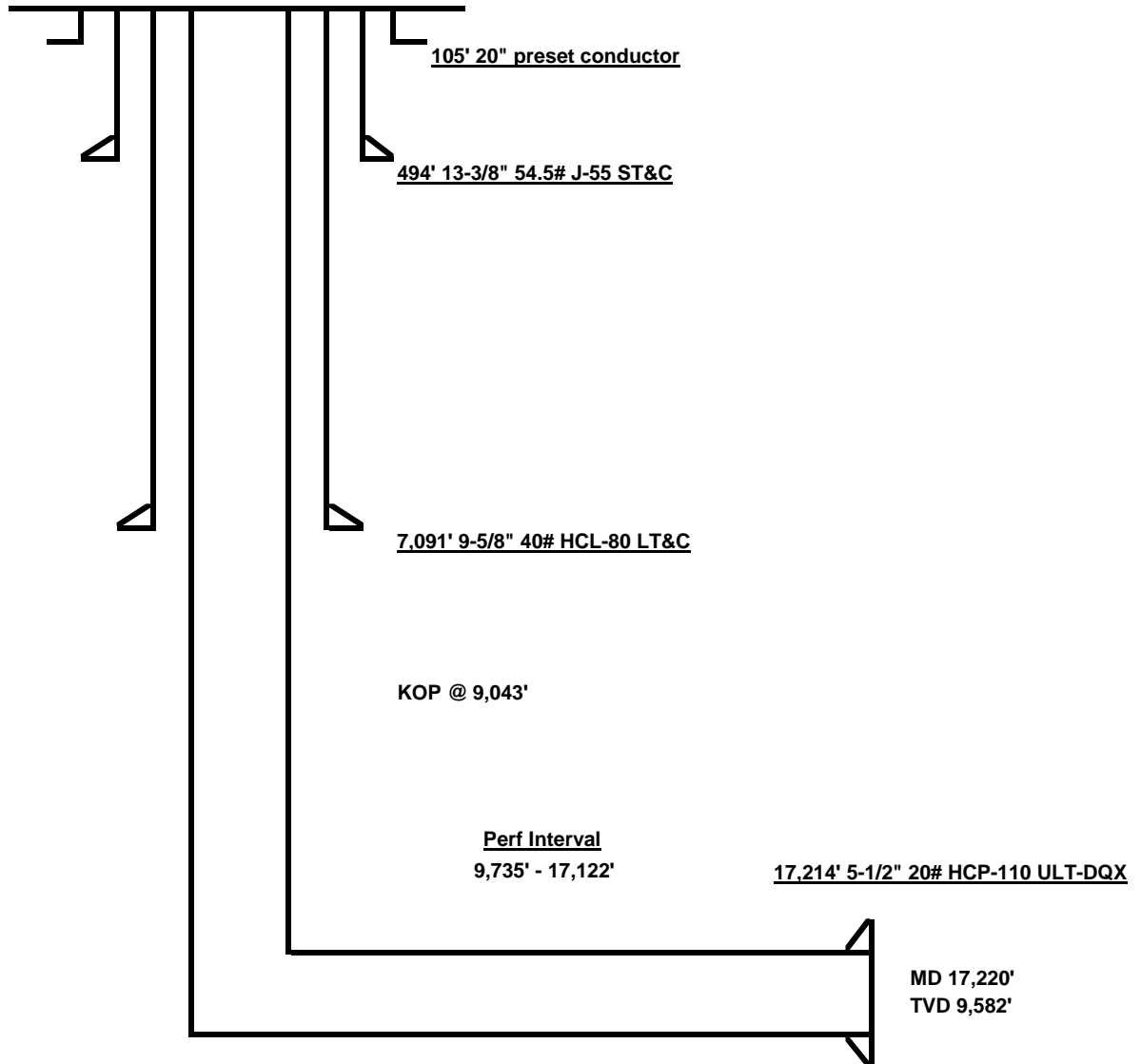
SECTION III (CONTINUED). LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

[illegible]

University 7-2730 S 12SC

Section 27 & 30, Block 7, University Lands
Martin County, TX

Well Bore Diagram



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:

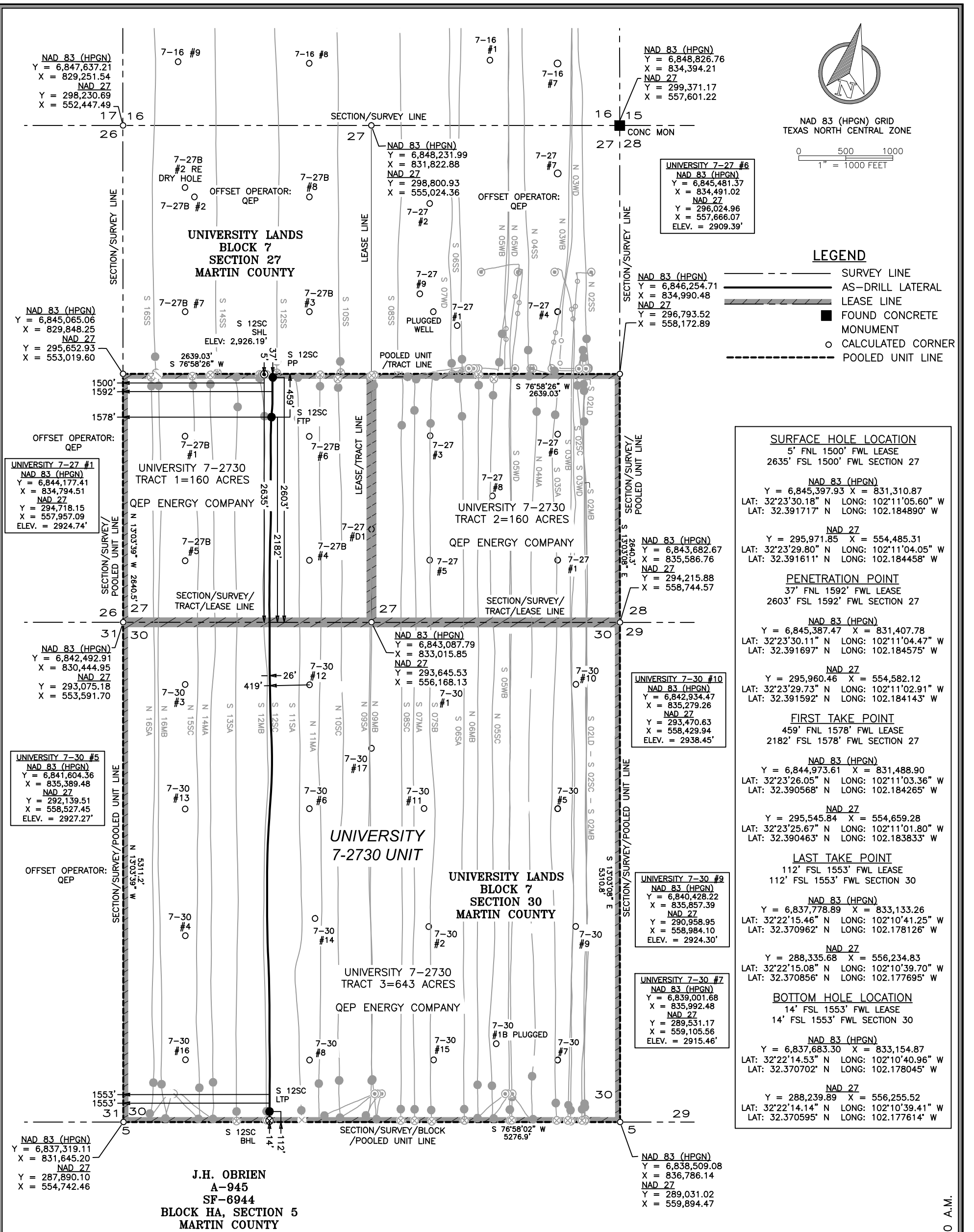
The interval from the land surface to a depth of 350 feet must be protected.

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.

Groundwater Advisory Unit, Oil and Gas Division



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

STATE OF TEXAS
REGISTERED
JOHN E. KOWALIK
6408
PROFESSIONAL
LAND SURVEYOR

PLAT OF:
AN AS-DRILLED WELL LOCATION FOR:
QEP ENERGY COMPANY
UNIVERSITY 7-2730 UNIT
UNIVERSITY 7-2730 S 12SC
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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QEP
ENERGY™

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 ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

DATE: 02/01/18
DRAWN BY: JK/GG
CHECKED BY: JK
FIELD CREW: RE
PROJECT NO: 2016070571
SCALE: 1" = 1000'
SHEET: 1 OF 1
REVISION: 0

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