



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 08/30/2017  
Tracking No.: 172671

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

OPERATOR INFORMATION	
Operator Name: EXL PETROLEUM OPERATING INC.	Operator No.: 256795
Operator Address: 6 DESTA DRIVE SUITE 2800 MIDLAND, TX 79705-0000	

WELL INFORMATION	
API No.: 42-317-40493	County: MARTIN
Well No.: 1	RRC District No.: 08
Lease Name: UL COMANCHE UNIT A4144	Field Name: SPRABERRY (TREND AREA) R 40 EXC
RRC Lease No.: 48829	Field No.: 85280301
Location: Section: 41, Block: 6, Survey: UNIVERSITY LANDS, Abstract: U10	
Latitude: 32.46669	Longitude: -102.1968
This well is located 23.4 miles in a NW direction from LENORAH, 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:	02/09/2017
Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	06/03/2016	815972
Rule 37 Exception		0300786
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION			
Spud date: 07/18/2016	Date of first production after rig released:	02/09/2017	
Date plug back, deepening, recompletion, or drilling operation commenced: 07/18/2016	Date plug back, deepening, recompletion, or drilling operation ended:	02/09/2017	
Number of producing wells on this lease in this field (reservoir) including this well: 1	Distance to nearest well in lease & reservoir (ft.): 0.0	TD was to 17282 but lost equipment in hole and PB to 17258. Survey does not show projection to bit. See explantation at bottom of packet.	
Total number of acres in lease: 479.86	Elevation (ft.): 2897	GL	
Total depth TVD (ft.): 9249	Total depth MD (ft.): 17282		
Plug back depth TVD (ft.): 9305	Plug back depth MD (ft.): 17258		
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 129.0		
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes		
Type(s) of electric or other log(s) run: Neutron/Density logs (combo of tools)	Multiple completion? No		
Electric Log Other Description:			
Location of well, relative to nearest lease boundaries	Off Lease :	No	
of lease on which this well is located:	1675.4 Feet from the North Line and		
	330.0 Feet from the East Line of the		
	UL COMANCHE A4144 UNIT 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: 06/03/2016
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 04/27/2017		Production method: Pumping
Number of hours tested: 24		Choke size: 48
Was swab used during this test?	No	Oil produced prior to test: 49759.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 1047.00		Gas (MCF): 730
Gas - Oil Ratio: 697		Flowing Tubing Pressure: 380.00
Water (BBLS): 1016		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 1047.0		Gas (MCF): 730
Oil Gravity - API - 60.:	48.0	Casing Pressure: 160.00
Water (BBLS): 1016		

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	403			CL C	415	556.0	SURF ACE	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	8035			CL H	850	2134.0	5026	Calculation
3	Intermediate	9 5/8	12 1/4	8035	5026		CL C	1300	3478.0	SURF ACE	Circulated to Surface
4	Conventional Production	5 1/2	8 3/4	17258			CL H	3000	3660.0	5072	Cement Evaluation Log

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

TUBING RECORD			
<u>Row</u>	<u>Size (in.)</u>	<u>Depth Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	8374	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 10046	17190.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.				
Was hydraulic fracturing treatment performed?		Yes		
Is well equipped with a downhole actuation sleeve?		No		
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		9200		
		Actual maximum pressure (PSIG) during hydraulic fracturing: 7771		
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	17,064,684 FLUID/SLICKWATER; 14,191,440 #PROPPANT		10046 17190
2	Other	325 SX CL H		8389 9000
3	Other	330 SX CL H		8317 8872
4	Other	320 SX CL H		8119 9000

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SANTA ROSA	Yes	1500.0	1600.0	Yes	
CLEARFORK	Yes	6360.0	6361.0	Yes	
SPRABERRY	Yes	8198.0	8199.0	Yes	
DEAN	Yes	9433.0	9434.0	Yes	
WOLFCAMP	Yes	9606.0	9607.0	Yes	
YATES	No			No	NOT ENCOUNTERED; NOT IN AREA
QUEEN	No			No	NOT ENCOUNTERED; NOT IN AREA
GRAYBURG	No			No	NOT ENCOUNTERED; NOT IN AREA
SAN ANDRES - ACTIVE CO2 FLOOD; HIGH FLOWS; H2S; CO CISCO	No			No	NOT ENCOUNTERED; NOT IN AREA
	No			No	NOT ENCOUNTERED; NOT IN AREA
PENNSYLVANIAN	No			No	NOT ENCOUNTERED, TOO SHALLOW
STRAWN	No			No	NOT ENCOUNTERED, TOO SHALLOW
MISSISSIPPIAN	No			No	NOT ENCOUNTERED, TOO SHALLOW
FUSSELMAN	No			No	NOT ENCOUNTERED, TOO SHALLOW
SILURIAN	No			No	NOT ENCOUNTERED, TOO SHALLOW
DEVONIAN	No			No	NOT ENCOUNTERED, TOO SHALLOW
ELLENBURGER	No			No	NOT ENCOUNTERED, TOO SHALLOW
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
PLEASE CHANGE NAME OF WELL TO UL COMANCHE UNIT A4144 #1.

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2017-05-22 14:09:11.914] EDL=7144 feet, max acres=520, SPRABERRY (TREND AREA) R 40 EXC oil well	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b> PLUGS ON ROW 2, 3 AND 4 WERE SET BY THE DRILLING RIG PRIOR TO RUNNING CASING. THEY ARE KICK OFF PLUGS.	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Belle Lowe	<b>Title:</b> Regulatory Analyst
<b>Telephone No.:</b> (432) 686-8080	<b>Date Certified:</b> 07/20/2017





JUL 28 2016

## 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: EXL		Operator P-5 No.: 250715			
Cementer Name: O - Tex Pumping, LLC		Cementer P-5 No.: 617021			
WELL INFORMATION					
District No.: 08		County: MARTIN			
Well No.: 4146		API No.: 317 40413		Drilling Permit No.: 415172	
Lease Name: UL COMANCHE A 4144		Lease No.:			
Field Name: Strawberry (Grand Area) R 40 Exl		Field No.: 05280301			
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.): 403		Est. % wash-out or hole enlargement: 100		
Size of casing in O.D. (in.): 13 3/8	Casing weight (lbs/ft) and grade: 48# H-40		No. of centralizers used: 13		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.): 403		Top of liner (ft.):
Hrs. waiting on cement before drill-out: 12			Calculated top of cement (ft.): SURFACE		Cementing date: 7/19/2016
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	415	C	2% CaCl2	556	800
2					
3					
Total	415			556	800
II. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:		
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:		
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>				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					
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? YES <input type="checkbox"/> NO <input type="checkbox"/>				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					



## 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.

Steven Frederick Service Supervisor  
Name and title of cementer's representative

O-Tex Pumping  
Cementing Company

  
Signature

2609 E I-20 Midland TX 79706 432-686-8559 7/19/2016  
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.

Belle Lowe  
Typed or printed name of operator's representative

Regulatory Analyst  
Title

  
Signature

1000 S. St. Drive 80200 Midland TX 79705  
Address City, State, Zip Code

432-686-8559  
Tel: Area Code Number

7/25/2016  
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 787112967).

**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\\_loc=&p\\_loc=&p\\_loc=&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_loc=&p_loc=&p_loc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

**D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

**E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

**F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

**G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.





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P.O. Box 12967  
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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:	EXL PETROLEUM		Operator P-S No.:	251795			
Cementer Name:	O - Tex Pumping, LLC		Cementer P-S No.:	617021			
WELL INFORMATION							
District No.:	06		County:	MARTIN			
Well No.:	4146		API No.:	37-40493	Drilling Permit No.:	915972	
Lease Name:	U.I. COMANCHE A4144		Lease No.:				
Field Name:	Spraberry (Grand Area) R40 Etc		Field No.:	05250301			
I. CASING CEMENTING DATA							
Type of Casing:	Conductor	Surface	Intermediate	Liner	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.):			
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							
II. CASING CEMENTING DATA							
Type of casing:	Surface	<input checked="" type="checkbox"/> Intermediate	Production	Tapered production	Multi-stage cement shoe	Multiple parallel strings	
Drilled hole size (in.):	12 1/4		Depth of drilled hole (ft.):	8035		Est. % wash-out or hole enlargement:	40
Size of casing in O.D. (in.):	9 5/8		Casing weight (lbs/ft) and grade:	40# HCL-80		No. of centralizers used:	27
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?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Setting depth shoe (ft.):	8035			
Hrs. waiting on cement before drill-out:	12		Calculated top of cement (ft.):			Cementing date:	8/9/2016
SLURRY							
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)		
1	650	50:50 CLASS H	REMARKS # 1	1898	6060		
2	200	CLASS H	REMARKS # 2	236	754		
3							
Total	850			2134	6814		
III. CASING CEMENTING DATA							
Type of casing:	Surface	<input checked="" type="checkbox"/> Intermediate	Production	Tapered production	Multi-stage cement/DV tool	Multiple parallel strings	
Drilled hole size (in.):	12 1/4		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?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Setting depth shoe (ft.):	5026 DV TOOL			
Hrs. waiting on cement before drill-out:	12		Calculated top of cement (ft.):	SURFACE		Cementing date:	8/9/2016
SLURRY							
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)		
1	1100	50:50 CLASS C	REMARKS # 3	3212	10255		
2	200	CLASS C	REMARKS # 4	266	849		
3							
Total	1300			3478	11104		



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
REMARKS # 1 10% Gel + 6/10% SMS + 2/10% O-TX20 + 1/4#/sk Cello Flake + 5% Salt
REMARKS # 2 3/10% O-TX47A + 1/10% O-TX20
REMARKS # 3 10% Gel + 6/10% SMS + 1/10% O-TX20 + 1/4#/sk Cello Flake + 5% Salt
REMARKS # 4 Neat

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.

CARLOS A FLORES SERVICE SUPERVISOR

Name and title of cementer's representative

OTEX PUMPING LLC

Cementing Company

2601 E. I-20 MIDLAND TX 79706

Address City, State, Zip Code

432-869-8559

Tel: Area Code Number

8/9/2016

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.

Belt Lane

Typed or printed name of operator's representative

Regulatory Analyst

Title

Belt Lane

Signature

WDETA DR. 8E 2800, Midland TX 79705

Address City, State, Zip Code

432-869-8080

Tel: Area Code Number

8/20/2016

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.

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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.mt.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 78712967).

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/readac5ext.TacPage?shR&app=9&p\\_dir=&p\\_floc=&p\\_tloc=&p\\_ploc=&p\\_tac=&t=15&pt=1&ch=3&r=14](http://info.sos.state.tx.us/pls/pub/readac5ext.TacPage?shR&app=9&p_dir=&p_floc=&p_tloc=&p_ploc=&p_tac=&t=15&pt=1&ch=3&r=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.





# 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: EXL		Operator P-5 No.: 25795			
Cementer Name: O - Tex Pumping, LLC		Cementer P-5 No.: 617021			
WELL INFORMATION					
District No.: 08		County: MARTIN			
Well No.: 4146		API No.: 42-317-40493		Drilling Permit No.: 815972	
Lease Name: UL COMANCHE A 41-44		Lease No.:			
Field Name: SOUTHERN (TRENDA) R4D EXC.		Field No.: 85260327			
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					
II. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper: Lower:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					
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 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					

## 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	8/14/2016						
Size of hole or pipe (in.)	8 3/4						
Depth to bottom of tubing or drill pipe (ft.)	9000						
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	325						
Slurry volume pumped (cu. ft.)	289						
Calculated top of plug (ft.)	8248						
Measured top of plug, if tagged (ft.)	8389						
Slurry weight (lbs/gal)	18						
Class/type of cement	H+1% O-TX37						
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.

EDWARD SALDANA

Name and title of cementer's representative

O-Tex Pumping  
Cementing Company

Signature

2609 E I-20

Address

Midland TX 79706

City, State, Zip Code

432-686-8559

Tel: Area Code Number

8/14/2016

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.

Belle Lowe  
Typed or printed name of operator's representative

Title

Signature

16050122 8th 2800, Midland, TX 79705

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.nrc.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/readac\\$ext.TacPage?si=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rt=14](http://info.sos.state.tx.us/pls/pub/readac$ext.TacPage?si=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rt=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.





# 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: EXL		Operator P-5 No.: 251195			
Cementer Name: O - Tex Pumping, LLC		Cementer P-5 No.: 617021			
WELL INFORMATION					
District No.: 05		County: Martin			
Well No.: 4146		API No.: 37-40413		Drilling Permit No.: 9615912	
Lease Name: UL COMMANCHE A 4144		Lease No.:			
Field Name: SPILLARY (TRENDAVIA) R40 ETC.		Field No.: 95280301			
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					
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>			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					
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? YES <input type="checkbox"/> NO <input type="checkbox"/>			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					



## 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	9/10/2016						
Size of hole or pipe (in.)	8 3/4						
Depth to bottom of tubing or drill pipe (ft.)	8872						
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	330						
Slurry volume pumped (cu. ft.)	297						
Calculated top of plug (ft.)	8160						
Measured top of plug, if tagged (ft.)	8317						
Slurry weight (lbs/gal)	18						
Class/type of cement	H+						
Perforate and squeeze (YES/NO)	NO						

## REMARKS

REMARKS 1% C-37 + 5% SALT

**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.

justin smith supervisor

Name and title of cementer's representative

O-Tex Pumping  
Cementing Company

Signature

2609 E I-20 Midland TX 79706 432-686-8559 9/10/2016  
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.

Belle Lowe  
Typed or printed name of operator's representative

Title

Signature

11101A DR ST 2609 MIDLAND TX 79706  
Address City, State, Zip Code932-686-8080  
Tel: Area Code NumberDate: 09/25/2016  
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 787112967).

**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=RAapp=9&p\\_dir=&p\\_loc=&p\\_doc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rh=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=RAapp=9&p_dir=&p_loc=&p_doc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rh=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.



# 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: EXL Petroleum		Operator P-5 No.: 251795				
Cementer Name: O - Tex Pumping, LLC		Cementer P-5 No.: 617021				
WELL INFORMATION						
District No.: 06		County: Martin				
Well No.: 4146		API No.: 37.40493		Drilling Permit No.: 015972		
Lease Name: U.L. Comanche A 4144 Unit		Lease No.:				
Field Name: Spadmy Trend Area R40 Etc.		Field No.: 05240301				
I. CASING CEMENTING DATA						
Type of Casing:	Conductor	Surface	Intermediate	Liner	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						
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:		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 <input type="checkbox"/>				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						
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:		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 <input type="checkbox"/>				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						



## 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	9/16/2016						
Size of hole or pipe (in.)	8 3/4						
Depth to bottom of tubing or drill pipe (ft.)	9000'						
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	320						
Slurry volume pumped (cu. ft.)	288						
Calculated top of plug (ft.)	8119						
Measured top of plug, if tagged (ft.)	NONE						
Slurry weight (lbs/gal)	18						
Class/type of cement	Class H						
Perforate and squeeze (YES/NO)							

## REMARKS

Slurry Adds: 1% C-37 + 5% Salt.

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.

Abraham Mata- Service Supervisor  
Name and title of cementer's representative

O-Tex Pumping  
Cementing Company

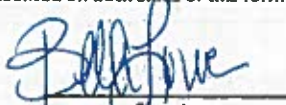
  
Signature

2609 E I-20 Midland TX 79706 432-686-8559 9/16/2016  
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.

  
Typed or printed name of operator's representative

  
Title

  
Signature

16000 Drive, Ste 2800 Midland TX 79705 432-686-8559  
Address City, State, Zip Code Tel: Area Code Number

9/25/2016  
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.mtc.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 787112967).

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/readact5ext.TacPage?sh=R&app=9&p\\_dir=&p\\_loc=&p\\_ploc=&p\\_ploc=&p\\_tac=&t=16&pt=1&ch=3&r=14](http://info.sos.state.tx.us/pls/pub/readact5ext.TacPage?sh=R&app=9&p_dir=&p_loc=&p_ploc=&p_ploc=&p_tac=&t=16&pt=1&ch=3&r=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.





# 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: EXL Petroleum			Operator P-5 No.: 251795		
Cementer Name: O - Tex Pumping, LLC			Cementer P-5 No.: 617021		
WELL INFORMATION					
District No.: 06		County: Martin			
Well No.: 4146		API No.: 42-317-40493		Drilling Permit No.: 815972	
Lease Name: UL Comanche A4144 Unit		Lease No.:			
Field Name: STRATEGY (TROMA) R40 EXC.		Field No.:			
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 3/4	Depth of drilled hole (ft.): 17258		Est. % wash-out or hole enlargement: 15		
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 20# P-110		No. of centralizers used: 325		
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.): 17258		Top of liner (ft.):
Hrs. waiting on cement before drill-out:			Calculated top of cement (ft.): 5072 CAL		Cementing date: 10/7/2016
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	3000	50:50:H	Remarks 1	3660	14334
2					
3					
Total	3000			3660	14334
II. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:		
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:		
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper: Lower:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>			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					
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? YES <input type="checkbox"/> NO <input type="checkbox"/>			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					

## 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). 2% GEL + 5/10% O-TX47A + 2/10% SMS + 3/10% O-TX20

**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.

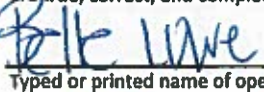
Anthony Polvon - Service Supervisor  
Name and title of cementer's representative

O-Tex Pumping  
Cementing Company

  
Signature

2609 E I-20 Midland TX 79706 432-686-8559 10/7/2016  
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.

  
Typed or printed name of operator's representative

  
Title

  
Signature

16 DESTA DR 8C2500 Midland TX 79706  
Address City, State, Zip Code

432-686-8559  
Tel: Area Code Number

10/25/2016  
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?\\_s=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&p\\_pg=1&p\\_tac=&tit=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?_s=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&p_pg=1&p_tac=&tit=16&pt=1&ch=3&ri=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

**D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

**E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

**F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

**G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



**RAILROAD COMMISSION OF TEXAS**  
**Oil and Gas Division**

**ELECTRIC LOG  
STATUS REPORT**

**FORM L-1**

Tracking No.: 172671

*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: EXL PETROLEUM OPERATING INC.	District No. 08	Completion Date: 02/09/2017
Field Name SPRABERRY (TREND AREA) R 40 EXC	Drilling Permit No. 815972	
Lease Name UL COMANCHE UNIT A4144	Lease/ID No. 48829	Well No. 1
County MARTIN	API No. 42- 317-40493	

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

Belle Lowe

Signature

EXL PETROLEUM OPERATING INC.

Name (print)

Regulatory Analyst

Title

(432) 686-8080 EXT 47

Phone

04/27/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



# HALLIBURTON

## SPECTRAL GAMMA RAY DUAL SPACED NEUTRON SPECTRAL DENSITY

EXL PETROLEUM OPERATING INC.  UL COMANCHE A4144 UNIT #4146  SPRABERRY (TREND AREA)  MARTIN  TEXAS		COMPANY		EXL PETROLEUM OPERATING INC.	
		WELL		UL COMANCHE A4144 UNIT #4146	
		FIELD/BLOCK		SPRABERRY (TREND AREA)	
		COUNTY		MARTIN	
		STATE		TEXAS	
		API No.		42-317-40493	
		Location		1675.4' FNL AND 330.0' FEL SEC. 41, BLK: 6, ABSTRACT: U10 SURVEY: UNIVERSITY LANDS	
				Other Services:	
Permanent Datum		GL		Elev. 2897.0 ft	
Log measured from		KB		25.0 ft. above perm. Datum	
Drilling measured from		KB			
Date		12-Aug-16			
Run No.		ONE			
Depth - Driller		10038.0 ft			
Depth - Logger		10028.0 ft			
Bottom - Logged Interval		10024.0 ft			
Top - Logged Interval		200.0 ft			
Casing - Driller		9.625 in @ 8035.0 ft		@	
Casing - Logger		8026.0 ft			
Bit Size		8.750 in		@	
Type Fluid in Hole		Water Based Mud			
Density	Viscosity	8.8 ppg	31.00 s/qt		
PH	Fluid Loss	9.50 pH			
Source of Sample		FLOWLINE			
Rm @ Meas. Temperature		0.74 ohmm @ 82.00 degF		@	
Rmf @ Meas. Temperature		0.51 ohmm @ 75.00 degF		@	
Rmc @ Meas. Temperature		0.90 ohmm @ 80.00 degF		@	
Source Rmf	Rmc	CALC	CHART		
Rm @ BHT		0.38 ohmm @ 168.0 degF		@	
Time Since Circulation		08:00 hr			
Time on Bottom		12-Aug-16 17:25			
Max. Rec. Temperature		168.00 degF @ 10028.0 ft		@	
Equipment	Location	11153035	ODESSA, TX		
Recorded By		YASIN ABULAIHA			
Witnessed By		MIKE MARTIN			

# CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.

A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 172671

1. Field name exactly as shown on proration schedule <b>SPRABERRY (TREND AREA) R 40 EXC</b>		2. Lease name as shown on proration schedule <b>UL COMANCHE UNIT A4144</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>EXL PETROLEUM OPERATING INC.</b>		4. Operator P-5 no. <b>256795</b>	5. Oil Lse/Gas ID no <b>48829</b>	6. County <b>MARTIN</b>	7. RRC district <b>08</b>		
8. Operator address including city, state, and zip code <b>6 DESTA DRIVE SUITE 2800 MIDLAND, TX 79705</b>		9. Well no(s) (see instruction E) <b>1</b>					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) <b>a. Change of:</b> <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- <b>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <b>Due to:</b> <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date <b>02/09/2017</b>			
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
	X	CORONADO MIDSTREAM LLC(179361)			0001	100.0	
X		ENLINK NORTH TEXAS GATHERING, LP(252776)				100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).							
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take	
PLAINS MARKETING, L.P.(667883)						100.0	
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>08/30/2017</u>							
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b> _____ Date _____ Phone with area code _____			
<b>16. CURRENT OPERATOR CERTIFICATION.</b> By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
<b>EXL PETROLEUM OPERATING INC.</b> Name (print) <u>Regulatory Analyst</u> Title <u>belle@exlpetroleum.com</u> E-mail Address (optional)				<b>Belle Lowe</b> Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b> <u>07/17/2017</u> Date _____ Phone with area code <u>(432) 686-8080 EXT 47</u>			

# CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

# P-12

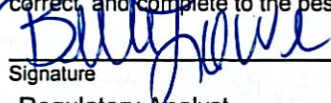
1. Field Name(s) Spraberry (Trend Area) R 40 EXC	2. Lease/ID Number (if assigned)	3. RRC District Number 08
4. Operator Name ExL Petroleum Operating Inc.	5. Operator P-5 Number 256795	6. Well Number 4146
7. Pooled Unit Name UL Comanche A4144 Unit	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County Martin	11. Total acres in pooled unit 479.86	

## 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
1	Tract 1	159.96	<input type="checkbox"/>	<input type="checkbox"/>
2	Tract 2	159.95	<input type="checkbox"/>	<input type="checkbox"/>
3	Tract 3	159.95	<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.

	Belle Lowe
Signature	Print Name
Regulatory Analyst	05/31/2016
belle@exlpetroleum.com	(432) 686-8080
Title	Date
E-mail (if available)	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

Page \_\_\_\_ of \_\_\_\_



## RAILROAD COMMISSION OF TEXAS

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

## P-16 Data Sheet

**(Optional)**

Page 1

Rev. 09/2014

### Acreage Designation

## SECTION I. OPERATOR INFORMATION

<b>Operator Name:</b> ExL Petroleum Operating Inc.	<b>Operator P-5 No.:</b> 256795
<b>Operator Address:</b> 8 Desta Drive, Suite 2800, Midland, TX 79705	

## SECTION II. WELL INFORMATION

<b>District No.:</b> 08	<b>County:</b> Martin	<b>Purpose of Filing:</b> <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
<b>Well No.:</b> 1	<b>API No.:</b> 317-40493	
<b>Total Lease Acres:</b> 479.86	<b>Drilling Permit No.:</b> 815972	
<b>Lease Name:</b> UL Comanche A4144 Unit	<b>Lease No.:</b>	
<b>Field Name:</b> Soraberry (Trend Area) R 40 EXC	<b>Field No.:</b> 85280301	

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**

[illegible]

Total Well Count >	4	479.86	< A. Total Assigned Horiz. Acreage	799.86	< 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)

The well #4106 referenced in the problem letter is used above as the University MAK 6-41 #2

**Attach Additional Pages As Needed.**

☒ **No additional pages**

☐ **Additional Pages:** \_\_\_\_\_ (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.

## Belle Lowe Regulatory Analyst

**Email (include email address *only* if you affirmatively consent to its public release)**

6 Desta Drive, Suite 2800 Midland, TX 79705

**432-686-8080**

07/17/2017

**Address**

City,	State,	Zip Code
-------	--------	----------

Tel: Area Code

Number

Date: mo. day yr.



RAILROAD COMMISSION OF TEXAS

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

Form P-17

Rev. 04/2015

APPLICATION FOR EXCEPTION TO  
STATEWIDE RULES (SWR) 26 AND/OR 27

☒ New  
☐ Amended Existing Permit No. \_\_\_\_\_  
Effective Month/Year of Requested  
Exception: 06 / 2016  
District 08  
County Martin

SECTION 1. OPERATOR INFORMATION					
Operator Name: Exl Petroleum Operating Inc.			Operator P-5 No.: 256795		
Operator Address: 6 Desta Drive, Suite 2800, Midland, TX 79705					
SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)					
Gatherer Name: Plains Pipeline, LP			Gatherer P-5 No.: 667883		
Gatherer Address: PO Box 4648, Houston, TX 77210					
Gatherer E-mail Address: (Optional – If provided, e-mail address will become part of this public record.)					
SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY): <input checked="" type="checkbox"/> OIL <input checked="" type="checkbox"/> CASINGHEAD GAS <input type="checkbox"/> GAS WELL GAS <input type="checkbox"/> CONDENSATE					
a) <input type="checkbox"/> Gas well full well stream into common separation and storage facility with liquids reported on Form PR.					
b) <input type="checkbox"/> Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # _____ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)					
c) <input type="checkbox"/> Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.					
d) <input checked="" type="checkbox"/> This request is for off lease: <input checked="" type="checkbox"/> Storage <input checked="" type="checkbox"/> Separation <input checked="" type="checkbox"/> Metering					
e) <input type="checkbox"/> This exception is for common storage.					
f) <input type="checkbox"/> This exception is for common separation.					
g) <input type="checkbox"/> This exception is for casinghead gas metering by: <input type="checkbox"/> Deduct Metering <input type="checkbox"/> Allocation by well test <input type="checkbox"/> Other _____					
h) <input type="checkbox"/> This exception is for gas well gas metering by: <input type="checkbox"/> Deduct Metering <input type="checkbox"/> Allocation by well test <input type="checkbox"/> Other _____					
SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)					
The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:					
a) <input type="checkbox"/> The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)					
b) <input checked="" type="checkbox"/> The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)					
c) <input type="checkbox"/> The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)					
If b. or c. checked, production will be allocated by: <input type="checkbox"/> W-10 (oil) <input type="checkbox"/> W-2 retest (oil) <input type="checkbox"/> PD Meter (oil & condensate) <input type="checkbox"/> G-10 (gas)					
d) <input type="checkbox"/> The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)					
e) <input type="checkbox"/> The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)					
f) <input type="checkbox"/> The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)					
g) <input type="checkbox"/> Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)					
SECTION 5. <input type="checkbox"/> Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)					
SECTION 6. <input type="checkbox"/> For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)					
SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)					
DISTRICT	RRC IDENTIFIER	ACTION		LEASE AND FIELD NAME	WELL NO.
08	815972	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	UL Comanche A 4144, Phantom (Wolfcamp)	4146
08	815971	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	UL Comanche A 4144, Phantom (Wolfcamp)	4166
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add <input type="checkbox"/> Delete		
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add <input type="checkbox"/> Delete		
ATTACH ADDITIONAL PAGES AS NEEDED. <input checked="" type="checkbox"/> No additional pages <input type="checkbox"/> Additional pages _____ (# of additional pages)					
FEE: \$150 Filing Fee + \$225 Surcharge = \$375 total remittance required (See Statewide Rule 78)					
CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected state agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected state agencies being obtained.					
Signature <u>Bull Shaw</u>		Title <u>Regulatory Analyst</u>		Date <u>7/29/2016</u>	
Operator E-mail Address: _____			Operator Phone No. _____		
(Optional – If provided, e-mail address will become part of this public record.)					
RRC USE ONLY					
Commingling Permit No. _____		Approval date: _____		Approved by: _____	



THE RED THERMO SECURED "SP" LOGO IN THE LOWER CORNER OF THIS CHECK MUST FADE TEMPORARILY WHEN WARMED BY TOUCH OR FRICTION. SEE BACK FOR ADDITIONAL FEATURES.

EXL PETROLEUM OPERATING INC.

6 DESTA DRIVE, SUITE 2800  
MIDLAND, TX 79705

DATE 8/5/16

001114

11-24/1210

PAY  
TO THE  
ORDER OF

Railroad Commission of Texas

\$ 375<sup>00</sup>

Three hundred seventy-five & <sup>no</sup>/<sub>100</sub> DOLLARS

WELLS  
FARGO

Wells Fargo Bank, N.A.

MEMO

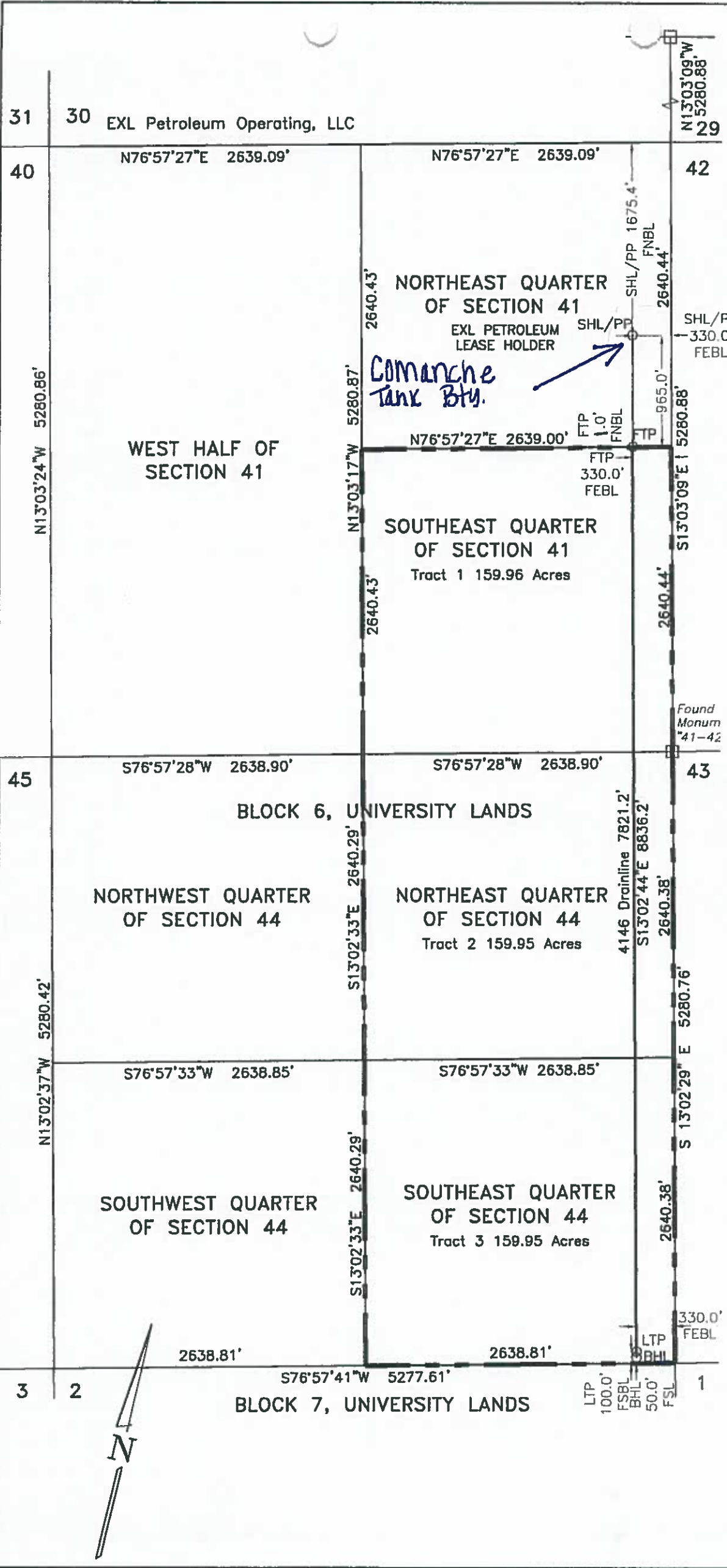
P-17 815971/815972

Mark J. Guly

⑈001114⑈ ⑆121000248⑆

4122846413⑈





<b>NOTES:</b>  Boundary Construction base on Survey of University Land by F.F. Friend in 1930 & 1931.  □ = Standard 8" Concrete Monument with 4" square Brass Tablet marked with Section Number set by Frank	<p>The well location shown on this plat represents an actual survey made by me or under my supervision to the best of my knowledge and belief as surveyed on the ground on 4/28/16 &amp; 5/3/16.</p> <p><i>[Signature]</i> J. SAN PIPER REGISTERED PROFESSIONAL LAND SURVEYOR #1974</p>	<b>DESCRIPTION:</b>		<b>UL COMANCHE A4144 UNIT #4146</b> The Southeast Quarter of Section 41, and the East Half of Section 44, Block 6, University Lands, Martin County, Texas		<b>OPERATOR:</b> EXL PETROLEUM OPERATING, LLC 6 Desta Drive Suite 2800 Midland, Texas 79705		<b>DWG FILE:</b> Wolcott.Dwg	
		<b>LOCATION IN SURVEY:</b> SHL 1675.4' FNL & 330.0' FEL BHL 50.0' FSL & 330.0' FEL		<b>NEAREST POST OFFICE:</b> 23.4 Miles Southeast to Lenorah, TX		<b>SCALE:</b> 1"=1000'		<b>DATE:</b> 5/4/16	
		<b>LOCATION IN LEASE:</b> FTP 0.0' FNL & 330.0' FEL BHL 50.0' FSL & 330.0' FEL		<b>ACREAGE:</b> 479.86 in Unit		<b>FIELD BOOK:</b> Martin #6, Pg. 29		<b>REVISIT:</b> 5/18&26/16	
		<b>ELEVATION:</b> LAT SHL 32°28'00.584" BHL 32°26'36.149"		<b>NORTH (Y):</b> SHL 6872839.76 BHL 6864231.64		<b>EAST (X):</b> SHL 828490.97 BHL 830485.52		<b>NORTH AMERICA DATUM:</b> 1983/CORS TX Central	
<b>PIPER SURVEYING P.O. BOX 60432; MIDLAND, TEXAS 79711; 432.550.7810; FIRM NO. 10155200</b>		<b>1927 NORTH (Y):</b> SHL 323438.90 BHL 314812.08		<b>EAST (X):</b> SHL 551926.99 BHL 553839.19					



## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 03 June 2016**GAU Number:** 155813**Attention:** EXL PETROLEUM OPERATING  
6 DESTA DRIVE SUITE 2800  
MIDLAND, TX 79705**Operator No.:** 256795**API Number:**  
**County:** MARTIN  
**Lease Name:** UL Comanche A4144 Unit  
**Lease Number:**  
**Well Number:** 4146  
**Total Vertical Depth:** 9350  
**Latitude:** 32.466723  
**Longitude:** -102.196714  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U10; Block-6; Section-41

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 within a radius of 200 feet of this location.

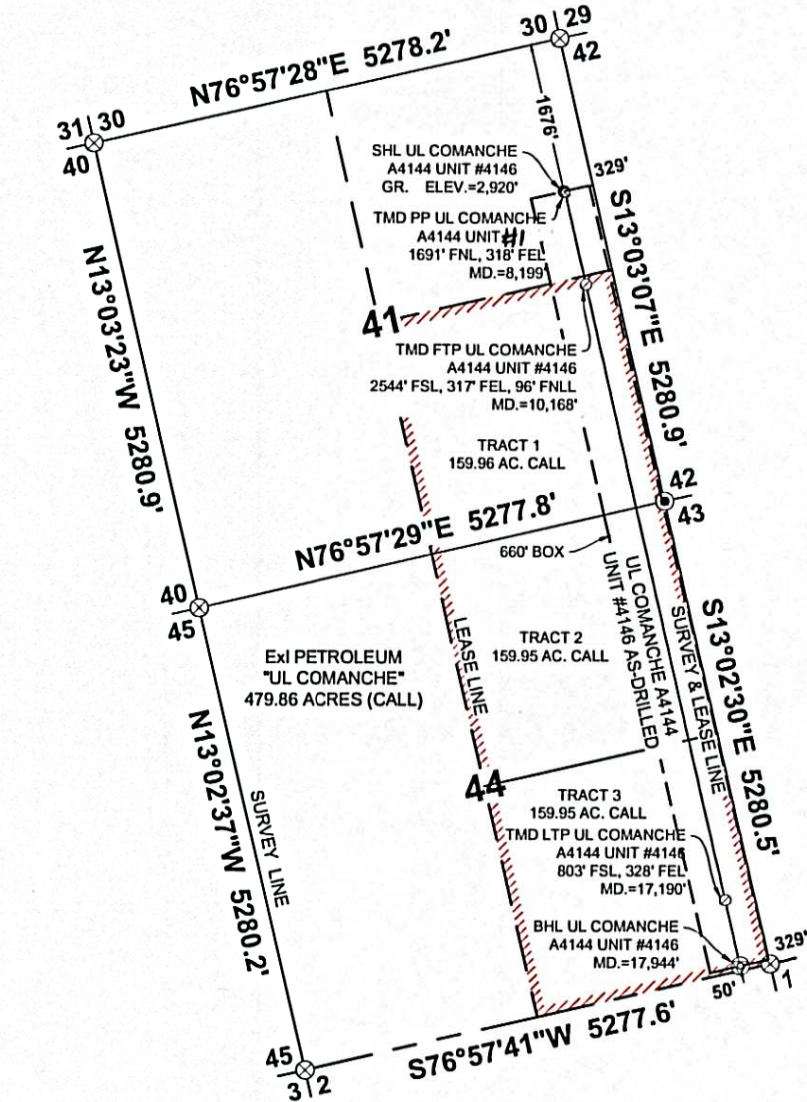
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 06/03/2016. 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

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

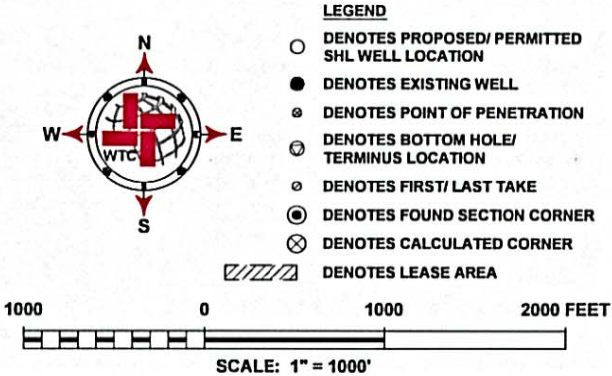
AS-DRILLED PLAT  
SECTION 41, BLOCK 6, UNIVERSITY LANDS SURVEY,  
MARTIN COUNTY, TEXAS



SHL	NAD 83, TX-NC, N.(Y): = 6872839.8', E.(X): = 828491.0' - LAT.: = 32°28'00.58" N, LON.: = 102°11'49.73" W
	NAD 27, TX-NC, N.(Y): = 323438.9', E.(X): = 551927.0' - LAT.: = 32.4667246° N, LON.: = 102.1967145° W
TMD PP	NAD 83, TX-NC, N.(Y): = 6872827.7', E.(X): = 828505.6' - LAT.: = 32°28'00.47" N, LON.: = 102°11'49.56" W
	NAD 27, TX-NC, N.(Y): = 323426.8', E.(X): = 551941.5' - LAT.: = 32.4666930° N, LON.: = 102.1966658° W
TMD FTP	NAD 83, TX-NC, N.(Y): = 6871809.1', E.(X): = 828742.6' - LAT.: = 32°27'50.48" N, LON.: = 102°11'46.38" W
	NAD 27, TX-NC, N.(Y): = 322405.8', E.(X): = 552168.7' - LAT.: = 32.4639174° N, LON.: = 102.1957818° W
TMD LTP	NAD 83, TX-NC, N.(Y): = 6864966.3', E.(X): = 830316.5' - LAT.: = 32°26'43.36" N, LON.: = 102°11'25.21" W
	NAD 27, TX-NC, N.(Y): = 315548.4', E.(X): = 553677.2' - LAT.: = 32.4452712° N, LON.: = 102.1899035° W
BHL	NAD 83, TX-NC, N.(Y): = 6864231.6', E.(X): = 830485.5' - LAT.: = 32°26'36.15" N, LON.: = 102°11'22.94" W
	NAD 27, TX-NC, N.(Y): = 314812.1', E.(X): = 553839.2' - LAT.: = 32.4432692° N, LON.: = 102.1892725° W

SURVEYOR'S NOTES:

- ALL DOWNHOLE, POINT OF PENETRATION AND BOTTOM HOLE INFORMATION AND THEIR LOCATIONS WERE PROVIDED BY EXL PETROLEUM, AND ARE NOT GUARANTEED BY THIS SURVEYOR.
- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS, USING FOUND MONUMENTATION, GLO AND COURTHOUSE DOCUMENTATION.
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY EXL PETROLEUM AND NONE WAS RESEARCHED OR PROVIDED BY WTC, INC.
- BASIS OF BEARING, COORDINATES, AND DISTANCES ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS COORDINATE SYSTEM, STATE PLANE GRID, NAD 83, TEXAS NORTH CENTRAL (4202), WITH A CONVERGENCE ANGLE OF 02°01'12.64" AND COMBINED SCALE FACTOR OF 0.9997925, BASED ON AN OPUS SOLUTION ON CONTROL POINT STAN AT N.=6863831.016' - E.=826037.138'
- THIS LOCATION IS APPROXIMATELY 23.1 MILES S.39W., FROM LAMESA, TEXAS.



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY, AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T.B.P.L.S., "PROFESSIONAL LAND SURVEYING PRACTICES ACT." IF THERE ARE ANY ALTERATIONS MADE, (HAND DRAWN OR HANDWRITTEN ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

March 7, 2017  
Gregory W. Shoults, RPLS, No. 5356 DATE  
SURVEY DATE: N/A DRAFT: M.Y.  
W.O. NUMBER: WTC61703 SHEET: 1 OF 1



UL COMANCHE A4144  
UNIT #1  
SHL LOCATED 1675' FNL,  
AND 329' FEL  
SECTION 41, BLOCK 6, U.L.,  
MARTIN, TEXAS.



WTC, INC.  
405 S.W. 1st STREET  
ANDREWS, TEXAS 79714  
(432) 523-2181  
TEXAS REGISTERED ENGINEERING FIRM F-2746  
TEXAS REGISTERED SURVEYOR FIRM #100792-00



## Chappell, Michelle

---

**Subject:** FW: UL Comanche A4144 Unit 4146 API 42-317-40493

**From:** Garrick Clayton [mailto:gclayton@exlpetroleum.com]

**Sent:** Wednesday, April 12, 2017 11:25 AM

**To:** Chappell, Michelle <mchappell@utsystem.edu>

**Cc:** Mike Langford <langford@exlpetroleum.com>

**Subject:** RE: UL Comanche A4144 Unit 4146 API 42-317-40493

Hey Michelle,

So this can get a little tricky to explain so I'm going to break it down in an order of events. I'll add some explanation too.

- Drilled to 17,240'
- Pulled up and took a survey at 17,208' (on survey sheet)
- Drilled to 17,282'
- Pulled up and took a survey at 17,259' (on survey sheet)
- Began to drill and drilling motor broke. (tried to get it out but could not get it)
- Casing was set at 17,258' and cemented (everything below 17,258' is cemented)

In a case like this, there was no projection because we have a real survey at the depth that we set the pipe and all other hole was cemented in.

I hope this clarifies things and if not, I will continue to help until we get it.

Thanks,  
Garrick

---

**From:** Chappell, Michelle [mailto:mchappell@utsystem.edu]

**Sent:** Tuesday, April 11, 2017 5:18 PM

**To:** Garrick Clayton <gclayton@exlpetroleum.com>

**Subject:** FW: UL Comanche A4144 Unit 4146 API 42-317-40493

Were you not able to get the ones that have the projection to bit going to the TD of 17282? Thanks! Michelle