



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 01/25/2021  
Tracking No.: 244322

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION			
Operator	WPX ENERGY PERMIAN, LLC	Operator	942623
Operator	3500 ONE WILLIAMS CENTER MD-35 TULSA, OK 74172-0000		

WELL INFORMATION			
API	42-475-38151	County:	WARD
Well No.:	1H	RRC District	08
Lease	UL MCNASSER 0201-17	Field	PHANTOM (WOLFCAMP)
RRC Lease	54929	Field No.:	71052900
Location	Section: 3, Block: 17, Survey: UL, Abstract: U42		
Latitude		Longitud	
This well is 1.85 miles in a NW direction from PYOTE, which is the nearest town in the			

FILING INFORMATION			
Purpose of	Well Record Only		
Type of	New Well		
Well Type:	Shut-In Producer	Completion or Recompletion	11/05/2020
Type of Permit		Date	Permit No.
Permit to Drill, Plug Back, or Rule 37 Exception		08/11/2020	863806
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	09/02/2020	Date of first production after rig	11/05/2020
Date plug back, deepening, drilling operation	09/02/2020	Date plug back, deepening, recompletion, drilling operation	11/02/2020
Number of producing wells on this lease this field (reservoir) including this	9	Distance to nearest well in lease & reservoir	214.0
Total number of acres in	1293.88	Elevation	2672 RKB
Total depth TVD	10805	Total depth MD	21356
Plug back depth TVD	10805	Plug back depth MD	21297
Was directional survey made other inclination (Form W-	Yes	Rotation time within surface casing Is Cementing Affidavit (Form W-15)	30.0 Yes
Recompletion or	No	Multiple	No
Type(s) of electric or other log(s)	Gamma Ray (MWD)		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	Off Lease : No		
	206.0 Feet from the	South Line and	
	1558.0 Feet from the	East Line of the	
	UL MCNASSER 0201-17 Lease.		

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	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	1300.0	Date 06/16/2020
SWR 13 Exception	Depth		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of		Production
Number of hours	24	Choke
Was swab used during this	No	Oil produced prior to
PRODUCTION DURING TEST PERIOD:		
Oil		Gas
Gas - Oil	0	Flowing Tubing
Water		
CALCULATED 24-HOUR RATE		
Oil		Gas
Oil Gravity - API - 60.:		Casing
Water		

CASING RECORD											
Ro	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size (in.)	Size	Depth	Stage Tool	Stage Shoe	Class	Amoun	Volume (cu.	Cement (ft.)	Determined By
1	Surface	13 3/8	17 1/2	1373			C	1378	2505.6	SURF ACE	Circulated to Surface
2	Intermediate	10 3/4	12 1/4	5062			C	885	2128.0	SURF ACE	Circulated to Surface
3	Intermediate	7 5/8	9 7/8	10213			C	910	1835.7	1839	Calculation

LINER RECORD									
<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
1	5 1/2	6 3/4	10040	21341	H	1100	1342.0	10043	Calculation

TUBING RECORD			
<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>
			<u>Packer Depth (ft.)/Type</u>
			/
N/A			

PRODUCING/INJECTION/DISPOSAL INTERVAL			
<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
		L	
N/A			

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment		No	
Is well equipped with a downhole sleeve?		No	
		If yes, actuation pressure	
Production casing test pressure (PSIG) during hydraulic fracturing		Actual maximum pressure (PSIG) during fracturin	
Has the hydraulic fracturing fluid disclosure been		No	
<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

FORMATION RECORD					
Formations	Encountere	Depth TVD	Depth MD	Is formation	Remarks
BELL CANYON	Yes	4900.0	4950.0	Yes	ESTIMATED
RUSTLER	No			No	NOT GEOLOGICALLY PRESENT
YATES	No			No	NOT GEOLOGICALLY PRESENT
SEVEN RIVERS	No			No	NOT GEOLOGICALLY PRESENT
QUEEN	No			No	NOT GEOLOGICALLY PRESENT
CAPITAN REEF - HIGH FLOWS	No			No	NOT GEOLOGICALLY PRESENT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE DELAWARE	No			No	NOT GEOLOGICALLY PRESENT
	No			No	NOT GEOLOGICALLY PRESENT
GLORIETA	No			No	NOT GEOLOGICALLY PRESENT
HOLT	No			No	NOT GEOLOGICALLY PRESENT
CLEARFORK	No			No	NOT GEOLOGICALLY PRESENT
TUBB	No			No	NOT GEOLOGICALLY PRESENT
CHERRY CANYON	Yes	6078.0	6177.0	Yes	
BRUSHY CANYON	Yes	7003.0	7120.0	Yes	
BONE SPRING	Yes	8059.0	8181.0	Yes	
WICHITA ALBANY	No			No	NOT PENETRATED
WOLFCAMP	No			No	NOT PENETRATED
PENNSYLVANIAN	No			No	NOT PENETRATED
ATOKA	No			No	NOT PENETRATED
DEVONIAN	No			No	NOT PENETRATED
FUSSELMAN	No			No	NOT PENETRATED
MONTOYA	No			No	NOT PENETRATED
WADDELL	No			No	NOT PENETRATED
ELLENBURGER	No			No	NOT PENETRATED
PRECAMBRIAN (UNDIFFERENTIATED)	No			No	NOT PENETRATED
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm					No
Is the completion being downhole commingled			No		

REMARKS
KOP @ 10,261. WELL NOT LOGGED PRIOR TO 5,078'. FILING SIMUTANEOUSLY WITH 244325, 244326, 244327, 244328, 244329, 244330, 244331.

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2020-12-18 09:53:03.632] As-drilled plat required during IP filing.	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b> WELL NOT YET COMPLETED.	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION			
Printed	Casey Wrenn	Title:	
Telephone	(539) 573-4465	Date	01/04/2021



# 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: WPX ENERGY PERMIAN, LLC			Operator P-5 No.: 942623		
Cementer Name: HALLIBURTON			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: WARD		
Well No.: 1H			API No.: 42-475-38151		Drilling Permit No.: 863806
Lease Name: UL MCNASSER 0201-17			Lease No.:		
Field Name: PHANTOM (WOLFCAMP)			Field No.: 71052900		
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.): 1,491		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 13 3/8		Casing weight (lbs/ft) and grade: 54.5#, J-55		No. of centralizers used: 11	
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.): 1,373		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: >8		Calculated top of cement (ft.): SURFACE		Cementing date: 9/3/2020	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1088	C	TM	2115	812.62
2	290	C	TM	390.63	566
3					
Total	1378			2505.63	1378.62
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0



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

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

## REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JOSHUA SELDENRIGHT- SS1

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

9/3/2020

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.

CASEY WRENN

REGULATORY TECHNICIAN II

Typed or printed name of operator's representative

Title

Signature

3500 ONE WILLIAMS CENTER, MD: 35

TULSA, OK 74127

539-573-4465

9/8/2020

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

## Instructions for Form W-15, Cementing Report

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

- A. What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

- B. How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

- C. Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

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



# 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: WPX ENERGY PERMIAN, LLC			Operator P-5 No.: 942623		
Cementer Name: HALLIBURTON ENERGY SERVICES			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: WARD		
Well No.: 1H			API No.: 42-475-38151		Drilling Permit No.: 863806
Lease Name: UL MCNASSER 0201-17			Lease No.:		
Field Name: PHANTOM (WOLFCAMP)			Field No.: 71052900		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 5,078		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 10 3/4		Casing weight (lbs/ft) and grade: 45.5#, J-55		No. of centralizers used: 33	
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.): 5,062		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: >8		Calculated top of cement (ft.): SURFACE		Cementing date: 9/5/20	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	815	C		2033	388
2	70	C		95	4675
3					
Total	885			2128	5063
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0



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

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

**REMARKS**

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**JERALD WATSON - Service Supervisor**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

9/5/20

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.

**CASEY WRENN**

**REGULATORY TECHNICIAN II**

Typed or printed name of operator's representative

Title

Signature

3500 ONE WILLIAMS CENTER, MD: 35

TULSA, OK 74127

539-573-4465

9-9-2020

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

## Instructions for Form W-15, Cementing Report

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

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





# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

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

## CEMENTING REPORT

OPERATOR INFORMATION					
Operator Name: WPX ENERGY PERMIAN, LLC			Operator P-5 No.: 942623		
Cementer Name: HALLIBURTON			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08		County: WARD			
Well No.: 1H		API No.: 42-475-38151		Drilling Permit No.: 863806	
Lease Name: UL MCNASSER 0201-17		Lease No.:			
Field Name: PHANTOM (WOLFCAMP)		Field No.: 71052900			
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 9 7/8		Depth of drilled hole (ft.): 10,230		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 7 5/8		Casing weight (lbs/ft) and grade: 29.7#, HCL-80		No. of centralizers used: 31	
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.): 10,213		Tap of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: >8		Calculated top of cement (ft.): 1,839		Cementing date: 9/10/20	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	835	C	NEOCEM	1745.99	8009.69
2	75	C	.6% HALAD9,.025%SA1015	89.7	366.49
3					
Total	910			1835.69	8376.18
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth shoe (ft.):			
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth tool (ft.):			
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

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

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

## REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Andrew Blaw Service Supervisor II Halliburton [Signature]  
 Name and title of cementer's representative Cementing Company Signature  
2311 S. First St. Artesia, NM, 88210 575-392-0700 5-13-2017  
 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.

CASEY WRENN REGULATORY TECHNICIAN II [Signature]  
 Typed or printed name of operator's representative Title Signature  
3500 ONE WILLIAMS CENTER, MD: 35 TULSA, OK 74127 539-573-4465 9/16/2020  
 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://w@bapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_loc=&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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry date:** 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: WPX ENERGY PERMIAN, LLC			Operator P-5 No.: 942623		
Cementer Name: SHANE MATTHEWS			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08		County: WARD			
Well No.: 1H		API No.: 42-475-38151		Drilling Permit No.: 863806	
Lease Name: UL MCNASSER 0201-17		Lease No.:			
Field Name: PHANTOM (WOLFCAMP)		Field No.: 71052900			
CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input checked="" type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 6 3/4		Depth of drilled hole (ft.): 21,356		Est. % wash-out or hole enlargement: 20%	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 20#, P-110		No. of centralizers used: N/A	
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.):		Top of liner (ft.): 10,040	
		21,341		Setting depth liner (ft.): 21,341	
Hrs. waiting on cement before drill-out: N/A		Calculated top of cement (ft.): 10,043		Cementing date: 11/4/2020	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1100	H	SEE REMARKS	1342	10779.11
2					
3					
Total	1100			1342	10779.11
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper: Lower:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper: Lower:		Upper: Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper: Lower:		Upper: Lower:		Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0



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

REMARKS
SLURRY 1: (VERSACEM) 0.30% HALAD, 0.025% SA-1015, 0.25 LBM D-AIR, 0.35% HR-601

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.

**SHANE MATTHEWS** **SERVICE SUPERVISOR**

Halliburton

Name and title of cementer's representative

6155 W. Murphy St.

Cementing Company

Odessa, TX, 79763

Signature

432-571-8600

11/4/2020

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.

CASEY WRENN

REGULATORY TECHNICIAN II

Typed or printed name of operator's representative

Title

Signature

3500 ONE WILLIAMS CENTER, MD: 35

TULSA, OK 74127

539-573-4465

11/5/2020

Address

City,

State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

## Instructions for Form W-15, Cementing Report

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To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_rloc=&p\\_tloc=&p\\_ploc=&pg=1&p\\_tac=&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.: 244322

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: WPX ENERGY PERMIAN, LLC	District No. 08	Completion Date: 11/05/2020
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 863806	
Lease Name UL MCNASSER 0201-17	Lease/ID No. 54929	Well No. 1H
County WARD	API No. 42- 475-38151	

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

Casey Wrenn

Signature

WPX ENERGY PERMIAN, LLC

Name (print)

Title

(539) 573-4465

Phone

01/04/2021

Date

-FOR RAILROAD COMMISSION USE ONLY-

# WPX ENERGY



Scale: 5" / 100'  
Measured Depth Log

**Well Name** UL McNASSER 0201-17 1H\_VERTICAL

**Location** 206' FSL, 1,558' FEL, SEC. 1&2, BLK. 17

**State** TEXAS

**County** WARD

**Country** USA

**Rig Number** H&P 314

**API Number** 42475381510000

**AFE #** 200854

**Geographic Region** DELAWARE BASIN

**Field** GREATER HALEY

**Spud Date** 9/2/2020

**Drilling Completed** 9/9/2020

**Surface Coordinates** NAD83  
LAT: 31.55770472°N  
LON: 103.14361111°W

**Bottom Hole Coordinates** NAD83  
LAT: 31.53051444°N  
LON: 103.12944444°W

**Ground Elevation** 2,645'

**K.B. Elevation** 2,672'

**Logged Interval** 5,078' **To** 10,230'

**Total Depth** 10,230'

**Formation** BELL CANYON to 3RD BONE SPRING LIME

**Type of Drilling Fluid** BRINE: 5,078' to 10,230'

## Operator

**Company** WPX Energy

**Address** ONE WILLIAMS CENTER  
TULSA, OK 74103

## Geologist

**Name** CAMERON ZUNDEL & AARON PALMER

**Company** FIELD GEO SERVICES, INC.

**Address** 533 BOGART LANE, UNIT A  
GRAND JUNCTION, CO 81505  
(970) 434-5163 OFFICE

## Color Coding

Oil	Condensate	Gas
Note	Core	Pressure
Error	Water	Seal



# WPX ENERGY



Scale: 5" / 100'  
Measured Depth Log

**Well Name** UL McNASSER 0201-17 1H\_CURVE AND LATERAL

**Location** 206' FSL, 1,588' FEL, SEC. 3, BLK. 17

**State** TEXAS

**County** WARD

**Country** USA

**Rig Number** H&P 314

**API Number** 42475381510000

**AFE #** 200854

**Geographic Region** DELAWARE BASIN

**Field** GREATER HALEY

**Spud Date** 10/9/2020

**Drilling Completed** 11/2/2020

**Surface Coordinates** NAD83  
LAT: 31.55767944°N  
LON: 103.14388889°W

**Bottom Hole Coordinates** NAD83  
LAT: 31.53033500°N  
LON: 103.13000000°W

**Ground Elevation** 2,645'

**K.B. Elevation** 2,672'

**Logged Interval** 10,230' To 21,356'

**Total Depth** 21,356'

**Formation** 3RD BONE SPRING LIME

**Type of Drilling Fluid** OBM: 10,230' - 21,356'

## Operator

**Company** WPX Energy

**Address** ONE WILLIAMS CENTER  
TULSA, OK 74103

## Geologist

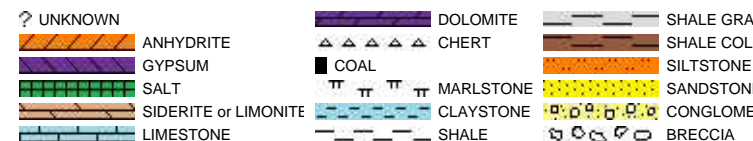
**Name** CAMERON ZUNDEL, JEFFREY HAWS, LARRY QUAA

**Company** FIELD GEO SERVICES, INC.

**Address** 533 BOGART LANE, UNIT A  
GRAND JUNCTION, CO 81505  
(970) 424-5162 OFFICE  
(970) 424-5164 FAX



## Rock Types





## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 16 June 2020**GAU Number:** 276762**Attention:** WPX ENERGY PERMIAN, LLC  
3500 ONE WILLIAMS CENTER  
TULSA, OK 74172**Operator No.:** 942623**API Number:** 47538146  
**County:** WARD  
**Lease Name:** UL MCNASSER 0201-17  
**Lease Number:**  
**Well Number:** 2H  
**Total Vertical Depth:** 14000  
**Latitude:** 31.557678  
**Longitude:** -103.143758  
**Datum:** NAD27**Purpose:** New Production Well**Location:** Survey-UL; Abstract-U42; Block-17; Section-3

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

The interval from the land surface to the base of the Rustler, which is estimated to occur at a depth of 1300 feet, must be protected.

In addition, the Capitan Reef must be protected if it is penetrated.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

Please send Gamma/Porosity log of this well when it is available.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 06/16/2020. 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.

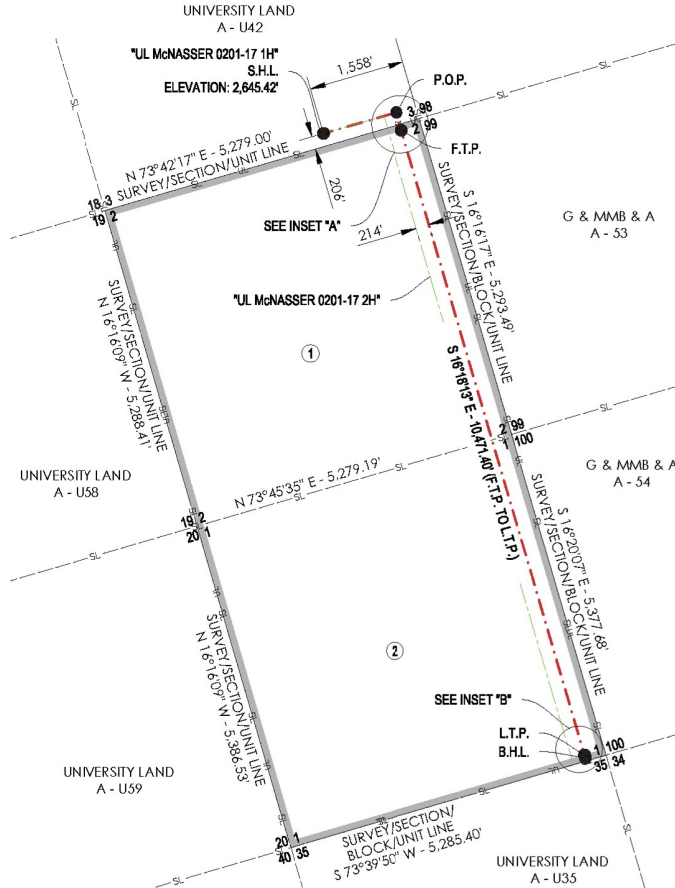
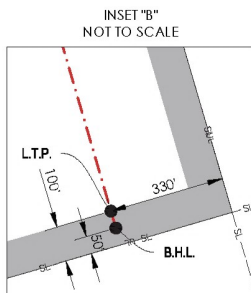
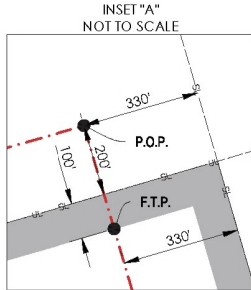
Groundwater Advisory Unit, Oil and Gas Division



GRID NORTH (NAD 83)  
TEXAS - CENTRAL ZONE

WPX ENERGY PERMIAN, LLC  
WARD COUNTY, TEXAS  
S.H.L. 206' FSL - 1,558' FEL, SECTION 3, BLOCK 17

LEGEND  
UL UNIT LINE  
SL SECTION LINE  
P.O.P. PROPOSED WELL PATH  
100' UNIT OFFSET  
S.H.L. SURFACE HOLE LOCATION  
P.O.P. POINT OF PENETRATION  
F.T.P. FIRST TAKE POINT  
T.P. TURNING POINT  
L.T.P. LAST TAKE POINT  
B.H.L. BOTTOM HOLE LOCATION



①  
SEC. 2 - BLOCK 17  
641.22 ACRES  
UNIVERSITY LAND  
A - U41  
"UL LEASE 111444"

②  
SEC. 1 - BLOCK 17  
652.66 ACRES  
UNIVERSITY LAND  
A - U40  
"UL LEASE 111443"

OPERATOR: WPX ENERGY PERMIAN, LLC

WELL NAME: UL McNASSER 0201-17 WELL NO: 1H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

GOOD DRILL SITE: YES

REFERENCE STAKES OR ALTERNATE LOCATION  
STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM WEST

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: ±1.85 MILES NORTHWEST OF PYOTE, TX.  
FROM THE INTERSECTION OF PYOTE STREET AND 3RD STREET, HEAD WEST ON PYOTE STREET  
FOR ±3.1 MILES, TURN RIGHT ONTO EXISTING LEASE ROAD FOR ±0.10, TURN RIGHT ONTO  
EXISTING LEASE ROAD FOR ±0.58, TURN RIGHT ONTO EXISTING ACCESS ROAD AND FOLLOW  
FOR ±0.38, TURN LEFT ONTO PROPOSED ACCESS ROAD AND CONTINUE TO PAD.

SURFACE HOLE LOCATION:

206' FSL & 1,558' FEL (SEC. 3)  
GROUND ELEVATION: 2,645.42'  
NAD 27 TEXAS CENTRAL ZONE  
NORTHING: 698811.33, EASTING: 1124732.12  
LATITUDE: N 31.55770475°, LONGITUDE: W 103.14366533°  
NAD 83 TEXAS CENTRAL ZONE  
NORTHING: 10541386.86, EASTING: 1421198.13  
LATITUDE: N 31.55783744°, LONGITUDE: W 103.14410531°

POINT OF PENETRATION:

200' FSL & 330' FEL (SEC. 3)  
NAD 27 TEXAS CENTRAL ZONE  
NORTHING: 699150.33, EASTING: 1125912.62  
LATITUDE: N 31.55871838°, LONGITUDE: W 103.13990407°  
NAD 83 TEXAS CENTRAL ZONE  
NORTHING: 10541725.86, EASTING: 1422378.65  
LATITUDE: N 31.55885109°, LONGITUDE: W 103.14034385°

FIRST TAKE POINT:

100' FNL & 330' FEL (SEC. 2)  
NAD 27 TEXAS CENTRAL ZONE  
NORTHING: 698862.40, EASTING: 1125996.84  
LATITUDE: N 31.55793288°, LONGITUDE: W 103.13961046°  
NAD 83 TEXAS CENTRAL ZONE  
NORTHING: 10541437.93, EASTING: 1422462.86  
LATITUDE: N 31.55806557°, LONGITUDE: W 103.14005022°

WELL PATH DATA

LINE	BEARING	DISTANCE
S.H.L. TO P.O.P.	N 73°58'40" E	1,228.23'
P.O.P. TO F.T.P.	S 16°18'13" E	300.00'
F.T.P. TO L.T.P.	S 16°18'13" E	10,471.40'
L.T.P. TO B.H.L.	S 16°18'13" E	50.00'

GRAPHIC SCALE IN FEET



CALLS FROM SECTION LINE

S.H.L.	206' FSL, 1,558' FEL (SEC. 3)
P.O.P.	200' FNL, 330' FEL (SEC. 3)
F.T.P.	100' FNL, 330' FEL (SEC. 2)
L.T.P.	100' FSL, 330' FEL (SEC. 1)
B.H.L.	50' FSL, 330' FEL (SEC. 1)

LAST TAKE POINT:

100' FSL & 330' FEL (SEC. 1)  
NAD 27 TEXAS CENTRAL ZONE  
NORTHING: 688764.20, EASTING: 1128936.32  
LATITUDE: N 31.53051463°, LONGITUDE: W 103.12936534°  
NAD 83 TEXAS CENTRAL ZONE  
NORTHING: 10531387.60, EASTING: 1425402.46  
LATITUDE: N 31.53064796°, LONGITUDE: W 103.12980436°

BOTTOM HOLE LOCATION:

50' FSL & 330' FEL (SEC. 1)  
NAD 27 TEXAS CENTRAL ZONE  
NORTHING: 688764.20, EASTING: 1128950.36  
LATITUDE: N 31.53038371°, LONGITUDE: W 103.12931644°  
NAD 83 TEXAS CENTRAL ZONE  
NORTHING: 10531339.62, EASTING: 1425416.50  
LATITUDE: N 31.53051704°, LONGITUDE: W 103.12975545°

GENERAL NOTES

- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
- BASES OF BEARINGS: TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
- VERTICAL DATUM IS NAVD 83.
- AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

UNIT CORNERS

LOCATION	NAD27	STATE PLANE TEXAS CENTRAL (2009)	GEOGRAPHIC (4087)
NE CORNER SEC. 2-BLK. 17	N = 698050.97 E = 1126286.51	LAT: 31.55847115° LONG: -103.13869928°	
SE CORNER SEC. 1-BLK. 17	N = 688809.03 E = 1126281.07	LAT: 31.53052976° LONG: -103.12825896°	
SW CORNER SEC. 1-BLK. 17	N = 687322.41 E = 1124209.11	LAT: 31.52809283° LONG: -103.14441197°	
NW CORNER SEC. 2-BLK. 17	N = 697569.78 E = 1121218.65	LAT: 31.55404800° LONG: -103.15484082°	



CONTACT INFORMATION:

Shannon D. Ozment  
Crafton Tull (10193715)  
1000 Ledgewall Dr.  
Conway, AR 72034



REVISION
1 REVISE P.O.P. 6-2-20
2 REVISE F.T.P. & L.T.P. 8-5-20

"UL McNASSER 0201-17 1H"

SECTION 2, BLOCK 17 - 641.22 ACRES  
SECTION 1, BLOCK 17 - 652.66 ACRES  
PROPOSED DRILL SITE  
WARD COUNTY, TEXAS



SCALE: 1" = 2000'  
PLOT DATE: 08-06-2020

CHECKED BY: HFD  
DRAWN BY: L.DOW

APPROVED BY: J.PARKER  
SHEET NO.: 1 OF 1