RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 08/21/2020
Tracking No.: 237110

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION

Operator SHELL WESTERN E&P
Operator 774719
Operator PO BOX 576 HOUSTON, TX 77001-0000

WELL INFORMATION

API 42-495-34399
County: WINKLER
Well No.: 1009H
RRC District 08
Lease UNIVERSITY 20 PW UNIT
Field PHANTOM (WOLFCAMP)
RRC Lease 44020
Field No.: 71052900
Location Section: 10, Block: 20, Survey: UL, Abstract: U11

Latitude 31
Longitud -103
This well is 9.5 **miles in a** SW **direction from** WINK, **which is the nearest town in the**

FILING INFORMATION

Purpose of Initial Potential
Type of New Well
Well Type: Producing
Completion or Recompletion 03/07/2020

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or	08/01/2019	855715
Rule 37 Exception		
Fluid Injection		
O&G Waste Disposal		
Other:		

COMPLETION INFORMATION

Spud 11/27/2019
Date of first production after rig 03/07/2020
Date plug back, deepening, drilling operation 11/27/2019
Date plug back, deepening, recompletion, drilling operation 01/25/2020
Number of producing wells on this lease this field (reservoir) including this 22
Distance to nearest well in lease & reservoir 925.0
Total number of acres in 16027.73
Elevation 2790 GL
Total depth TVD 12110
Total depth MD 20675
Plug back depth TVD
Plug back depth MD
Was directional survey made other inclination (Form W- Yes
Rotation time within surface casing 50.0
Is Cementing Affidavit (Form W-15) 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 2687.0 **Feet from the** NE **Line and** 8390.0 **Feet from the** NW **Line of the** UNIVERSITY 20 PW UNIT **Lease.**
Off Lease : No

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

	Field & Reservoir	Gas ID or Oil Lease	Well No.	Prior Service Type
W2:	N/A			

PACKET: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination	**Depth**	300.0	**Date**	08/19/2019
SWR 13 Exception	**Depth**	5045.0		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of	03/18/2020	**Production**	Flowing
Number of hours	24	**Choke**	38/64
Was swab used during this	No	**Oil produced prior to**	9949.00

PRODUCTION DURING TEST PERIOD:

Oil	1085.00	**Gas**	1243
Gas - Oil	1145	**Flowing Tubing**	875.00
Water	3204		

CALCULATED 24-HOUR RATE

Oil	1085.0	**Gas**	1243
Oil Gravity - API - 60.:	43.0	**Casing**	950.00
Water	3204		

CASING RECORD

Ro	Type of Casing	Casing Size (in.)	Hole Size	Setting Depth	Multi - Stage Tool	Multi - Stage Shoe	Cement Class	Cement Amoun	Slurry Volume (cu.	Top of Cement (ft.)	TOC Determined By
1	Surface	9 5/8	12 1/4	5097	443		ECONOCEM&HALCEM	5820	10912.0	0	Calculation
2	Intermediate	7 5/8	8 3/4	11508			H	400	997.0	4137	Calculation
3	Tapered Production	5 1/2	6 3/4	11570			C	1160	1671.0	10008	Calculation
4	Tapered Production	4 1/2	6 3/4	20660			C	1160	1671.0	10008	Calculation

LINER RECORD

Ro	Liner Size	Hole Size	Liner Top	Liner Bottom	Cement Class	Cement Amoun	Slurry Volume (cu.	Top of Cement (ft.)	TOC Determined

N/A

TUBING RECORD

Ro	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	11531	11501 / HALLIBURTON VERSA SET

PRODUCING/INJECTION/DISPOSAL INTERVAL

Ro	Open hole?	From (ft.)	To (ft.)
1	No	L1 12320	20519.0

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

Was hydraulic fracturing treatment Yes

Is well equipped with a downhole sleeve? Yes

If yes, actuation pressure 7674.0

Production casing test pressure (PSIG) **hydraulic fracturing** 9900

Actual maximum pressure (PSIG) during fracturin 10871

Has the hydraulic fracturing fluid disclosure been Yes

Ro	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)	
1	Fracture	WELL DATA SUBMITTED TO FRACFOCUS	12320	20519

FORMATION RECORD

Formations	Encountere	Depth TVD	Depth MD	Is formation	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W	Yes	824.0	840.0	Yes	
COLBY-QUEEN	No			No	FORMATION NOT GEOLOGICALLY PRESENT
YATES	No			No	FORMATION NOT GEOLOGICALLY PRESENT
QUEEN-SEVEN RIVERS	No			No	FORMATION NOT GEOLOGICALLY PRESENT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	No			No	FORMATION NOT GEOLOGICALLY PRESENT
HOLT	No			No	FORMATION NOT GEOLOGICALLY PRESENT
DELAWARE	Yes	5130.0	5194.0	Yes	
GLORIETA	No			No	FORMATION NOT GEOLOGICALLY PRESENT
CLEARFORK	No			No	FORMATION NOT GEOLOGICALLY PRESENT
WICHITA ALBANY	No			No	FORMATION NOT GEOLOGICALLY PRESENT
BRUSHY CANYON	Yes	7437.0	7501.0	Yes	
CHERRY CANYON	Yes	6114.0	6179.0	Yes	
CANYON	No			No	BELOW WELLBORE DEPTH
BONE SPRINGS	Yes	9878.0	9943.0	Yes	
MONTOYA	No			No	BELOW WELLBORE DEPTH
WADDELL	No			No	BELOW WELLBORE DEPTH
WOLFCAMP	Yes	11750.0	11822.0	Yes	
ATOKA	No			No	BELOW WELLBORE DEPTH
STRAWN	No			No	BELOW WELLBORE DEPTH
PENNSYLVANIAN	No			No	BELOW WELLBORE DEPTH
MISSISSIPPIAN	No			No	BELOW WELLBORE DEPTH
DEVONIAN	No			No	BELOW WELLBORE DEPTH
SILURIAN	No			No	BELOW WELLBORE DEPTH
FUSSELMAN	No			No	BELOW WELLBORE DEPTH
ELLENBURGER	No			No	BELOW WELLBORE DEPTH

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 AT 11,438. DEPTHS PROVIDED ARE REFERENCED AT KB @ 26'.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2020-07-28 09:05:52.886] EDL=8150 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well;

take points: 12320-20519 feet

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed	Molly Minuk	**Title:**	
Telephone	(832) 337-0953	**Date**	08/13/2020

WAYNE CHRISTIAN, CHAIRMAN
CHRISTI CRADDICK, COMMISSIONER
RYAN SITTON, COMMISSIONER

DANNY SORRELLS
DIRECTOR, OIL AND GAS DIVISION
JEFFREY MORGAN
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

OPERATOR Name: SHELL WESTERN E&P
Address1: PO BOX 576
Address2:
City: HOUSTON
State: TX

RE: Lease: UNIVERSITY 20 PW UNIT
Well No: 1009H
Sec: 10 **Block:** 20
County: WINKLER
Survey Name: UL

SWR13EX Application Number: 71182 **Drilling Permit No:** 855715

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UNIVERSITY 20 PW UNIT ; **WELL NUMBER:** 1009H has been approved by the Railroad Commission of Texas District Office.

a. A copy of this approved letter must be kept on location during all phases of drilling and/or plugging operations. Once approved, changes CANNOT be made to the Proposed Casing Program on the original application without additional approval from the Railroad Commission of Texas District Office.

b. Any substantive modifications to the cement program require prior approval from the Railroad Commission of Texas District Office, and may require re-submission of the SWR 13 (Statewide Rule 13) Alternate Surface Casing Application. Contact the Railroad Commission of Texas District Office for more information.

c. The tail slurry must be sufficient to fill the Zone of Critical Cement as described in Statewide Rule 13(b)(1)(H)(i). In addition, all cement slurries must be mixed on location as described in Application for Alternate Surface Casing Program.

d. The casing and cement program shall adhere to the following specifications:

Set 5045 feet of surface casing and circulate cement from the shoe to the ground surface.

Contingency:
Set 5045 feet of surface casing with a multistage tool set at a depth of not less than 400 feet. Circulate cement from the multistage tool to the ground surface. If cement does not circulate to surface during the first stage, the multistage tool MUST be opened and neat cement be circulated from the tool to the surface.

An extension to omit the installation of tubing in the above-referenced well is approved for a period of up to 180 days from the date the application was received or the date the well began producing, whichever occurred last.

The proposed alternative drilling fluid program for the fresh water protected interval is hereby approved.

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(b)(1)(H)(iii) OR AS REQUIRED BY THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE.

You must comply with all other provisions of SWR 13 (Statewide Rule 13) and a representative of the cementing company who performs the cementing job for the protection of usable quality water strata must sign the Form W-15 attesting to the information regarding cementing operations performed; including circulation of cement. (Note: If surface casing is set below the approved depth, this can result in denial of future Statewide Rule 13(b)(1)(H)(i) requests.) A condition of the approved drilling permit requires notification to the Railroad Commission of Texas District Office eight (8) hours prior to the time casing is to be set/cemented in the well. If your exception request was submitted after the subject well has been drilled and completed, the operator may be referred for enforcement action.

This authorization shall expire within five (5) years from the date the Groundwater Protection Determination was issued, or at the expiration of the drilling permit (if the well is not spudded prior to expiration) for the referenced well, whichever occurs first. Furthermore, this authorization supersedes any prior authorizations issued for the referenced well.

This exception is based on information provided when the application was submitted on 09/26/2019 .
If any information has changed, you must contact the appropriate Railroad Commission of Texas District Office, and submit a new application if applicable. If you have questions, please contact the appropriate Oil and Gas District office.

RRC APPROVAL BY: Jeffery Morgan DATE: 09/27/2019

JEFFREY MORGAN

DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: SHELL WESTERN E&P	Operator P-5 No.: 774719
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: #1009H	API No.: 42-495-34399	Drilling Permit No.: 855715
Lease Name: UNIVERSITY 20 PW Unit	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

I. CASING CEMENTING DATA

Type of casing: [ ] Conductor [✓] Surface [ ] Intermediate [ ] Liner [ ] Production

Drilled hole size (in.): 12 1/4	Depth of drilled hole (ft.): 5117	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40 J-55	No. of centralizers used: 33
Was cement circulated to ground surface (or bottom of cellar) outside casing? [✓] YES [ ] NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 443	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 0 -To surface	Cementing date: 12/02/2019

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	5300	ECONOCEM	HR800	10218	2965
2	520	HALCEM	HR800	694	2098
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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] 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: [ ] 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] 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					

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

RETURNS MAINTAINED THROUGHOUT THE JOB. 520BBL CEMENT TO SURFACE

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

RUSTY GLAZE-SERVICE SUPERVISOF — Halliburton

Name and title of cementer's representative — Cementing Company — Signature

6155 W. Murphy St. — Odessa, TX, 79763 — 432-571-8600 — 12/02/2019

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.

Molly Minuk — Sr. Regulatory Specialist

Typed or printed name of operator's representative — Title — Signature

150 N Dairy Ashford. — Houston, TX 77079 — 832-337-0692 — 06/11/2020

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). 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

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P.O. Box 12967
Austin, Texas 78701-2967

Form W-15
Rev. 08/2014

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

CEMENTING REPORT

OPERATOR INFORMATION

Operator Name: SHELL WESTERN E & P-EBUS	Operator P-5 No.:
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

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Well No.: 1009H	API No.: 42-495-34399	Drilling Permit No.: 855715
Lease Name: UNIVERSITY 20 PW UNIT	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

I. CASING CEMENTING DATA

Type of casing: [ ] Conductor [ ] Surface [✓] Intermediate [ ] Liner [ ] Production

Drilled hole size (in.): 8 3/4	Depth of drilled hole (ft.): 11524	Est. % wash-out or hole enlargement: 10
Size of casing in O.D. (in.): 7 5/8	Casing weight (lbs/ft) and grade: 29.7	No. of centralizers used: 0
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [✓] NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 11508	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 4137	Cementing date: 12-15-2019

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	235	H	.30% HALAD R 344	795.24	7674
2	165	H	.40% HALAD R 344, .30% HR-601	202.29	1763
3					
Total	400			997.53	9437

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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] 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: [ ] 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] YES [ ] 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.

KENNETH SMITH SERVICE SUPERVISOR — Name and title of cementer's representative

Halliburton — Cementing Company

Signature

6155 W. Murphy St. — Address

Odessa, TX, 79763 — City, State, Zip Code

432-571-8600 — Tel: Area Code Number

12-15-2019 — 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.

Molly Minuk — Typed or printed name of operator's representative

Sr. Regulatory Specialist — Title

Signature

150 N Dairy Ashford. — Address

Houston, TX 77079 — City, State, Zip Code

832-337-0692 — Tel: Area Code Number

06/11/2020 — Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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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.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). 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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: SHELL WESTERN E&P-EBUS	Operator P-5 No.:
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: 1009H	API No.: 42-495-34399	Drilling Permit No.: 855715
Lease Name: UNIVERSITY 20 PW UNIT	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

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? ☐ YES ☑ 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: 1/25/2020

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1160	C	TM	1671.56	13513
2					
3					
Total	1160			1671.56	13513

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☑ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): 6 3/4	Depth of drilled hole (ft.): 20 675	Est. % wash-out or hole enlargement: 15
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: 5 1/2 Lower: 4 1/2	Tapered string casing weight(lbs/ft) and grade Upper: 17 P-110 Lower: 11.6 P-110	Tapered string no. of centralizers used Upper: 11 Lower: 18
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 10008	Cementing date: See above

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: ☐ 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ 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.

KENNETH SMITH SERVICE SUPERVISOR — Halliburton — Kenneth Smith

Name and title of cementer's representative — Cementing Company — Signature

6155 W. Murphy St. — Odessa, TX, 79763 — 432-571-8600 — 1/25/2020

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.

Molly Minuk — Sr. Regulatory Specialist — Molly Minuk

Typed or printed name of operator's representative — Title — Signature

150 N Dairy Ashford. — Houston, TX 77079 — 832-337-0692 — 06/11/2020

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). 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: SHELL WESTERN E&P-EBUS	Operator P-5 No.: 774719
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: WINKLER	
Well No.: 1009H	API No.: 42-495-34399	Drilling Permit No.: 855715
Lease Name: UNIVERSITY 20 PW UNIT	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

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? ☐ YES ☑ 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: 1/25/2020

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1160	C	TM	1671.56	13513
2					
3					
Total	1160			1671.56	13513

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☑ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): 6 3/4	Depth of drilled hole (ft.): 20 675	Est. % wash-out or hole enlargement: 15
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: 6 3/4 Lower: 6 3/4	Tapered string depth of drilled hole (ft.) Upper: 11570 Lower: 20660	
Tapered string size of casing in O.D. (in.) Upper: 5 1/2 Lower: 4 1/2	Tapered string casing weight(lbs/ft) and grade Upper: 17 P-110 Lower: 11.6 P-110	Tapered string no. of centralizers used Upper: 11 Lower: 18
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 10008	Cementing date: See above

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: ☐ 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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ 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.

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Name and title of cementer's representative — Cementing Company — Signature

6155 W. Murphy St. — Odessa, TX, 79763 — 432-571-8600 — 1/25/2020

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.

Molly Minuk — Sr. Regulatory Specialist — Molly Minuk

Typed or printed name of operator's representative — Title — Signature

150 N Dairy Ashford. — Houston, TX 77079 — 832-337-0692 — 08/13/2020

Address — City, State, Zip Code — Tel: Area Code Number — Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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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

Tracking No.: 237110

ELECTRIC LOG STATUS REPORT

This facsimile L-1 was generated electronically from data submitted to the RRC.

FORM L-1

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: SHELL WESTERN E&P	District No. 08	Completion Date: 03/07/2020
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 855715	
Lease Name UNIVERSITY 20 PW UNIT	Lease/ID No. 44020	Well No. 1009H
County WINKLER	API No. 42- 495-34399	

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.

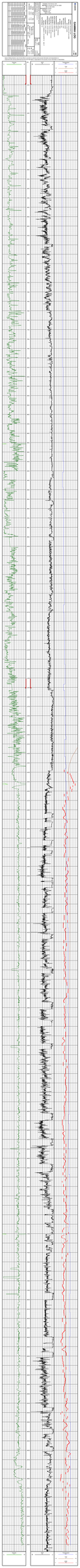
☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

Molly Minuk Signature	Title
SHELL WESTERN E&P Name (print)	(832) 337-0953 Phone 08/13/2020 Date

-FOR RAILROAD COMMISSION USE ONLY-


Schlumberger
Company: Petroleum Development Oman
Well: Yibal-Khuff 000
Field: Yibal
Province: Oman
Country: Oman
Date: 1-Jan-1900
Log: Run 1
Depth Reference: Kelly Bushing
Elevation: 0.00 m
Permanent Datum: Mean Sea Level
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Elevation: 0.00 m
Gamma Ray
Caliper
Bit Size
Density
Neutron
Resistivity
Sonic

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.texas.gov

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

1. Field Name(s)	2. Lease/ID Number *(if assigned)*	3. RRC District Number
Phantom (Wolfcamp)		08
4. Operator Name	5. Operator P-5 Number	6. Well Number
Shell Western E&P	774719	1009H
7. Pooled Unit Name	8. API Number	9. Purpose of Filing
University 20 PW Unit		☑ Drilling Permit (W-1)
10. County	11.Total acres in pooled unit	☐ Completion Report
Loving, Ward & Winkler	16,027.73	

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
Tr. 1	University Lands	641.29	☐	☐
Tr. 2	University Lands	641.16	☐	☐
Tr. 3	University Lands	640.88	☐	☐
Tr. 4	University Lands	640.98	☐	☐
Tr. 5	University Lands	641.20	☐	☐
Tr. 6	University Lands	641.33	☐	☐
Tr. 8	University Lands	641.29	☐	☐
Tr. 9	University Lands	641.38	☐	☐
Tr. 10	University Lands	641.28	☐	☐
Tr. 11	University Lands	320.63	☐	☐

CERTIFICATION:

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

Signature	Print Name		
	George Mullen		
Title	E-mail *(if available)*	Date	Phone
Sr. Reg. Specialist	george.mullen@shell.com	07/29/2019	(832) 337-0549

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

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

Clear Form

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.texas.gov

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

1. Field Name(s)	2. Lease/ID Number *(if assigned)*	3. RRC District Number
Phantom (Wolfcamp)		08
4. Operator Name	5. Operator P-5 Number	6. Well Number
Shell Western E&P	774719	1009H
7. Pooled Unit Name	8. API Number	9. Purpose of Filing
University 20 PW Unit		☑ Drilling Permit (W-1)
10. County	11.Total acres in pooled unit	☐ Completion Report
Loving, Ward & Winkler	16,027.73	

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
Tr. 12	University Lands	320.62	☐	☐
Tr. 13	University Lands	641.30	☐	☐
Tr. 14	University Lands	641.33	☐	☐
Tr. 15	University Lands	641.37	☐	☐
Tr. 16	University Lands	641.29	☐	☐
Tr. 17	University Lands	160.25	☐	☐
Tr. 18	University Lands	480.74	☐	☐
Tr. 19	University Lands	640.97	☐	☐
Tr. 20	University Lands	640.97	☐	☐
Tr. 21	University Lands	640.98	☐	☐

CERTIFICATION:

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

Signature	Print Name		
	George Mullen		
Title	E-mail *(if available)*	Date	Phone
Sr. Reg. Specialist	george.mullen@shell.com	07/29/2019	(832) 337-0549

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

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

Clear Form

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.texas.gov

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

1. Field Name(s)	2. Lease/ID Number *(if assigned)*	3. RRC District Number
Phantom (Wolfcamp)		08
4. Operator Name	5. Operator P-5 Number	6. Well Number
Shell Western E&P	774719	1009H
7. Pooled Unit Name	8. API Number	9. Purpose of Filing
University 20 PW Unit		☑ Drilling Permit (W-1)
10. County	11.Total acres in pooled unit	☐ Completion Report
Loving, Ward & Winkler	16,027.73	

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
Tr. 23	University Lands	641.18	☐	☐
Tr. 24	University Lands	320.59	☐	☐
Tr. 25	University Lands	641.14	☐	☐
Tr. 28	University Lands	640.95	☐	☐
Tr. 29	University Lands	640.96	☐	☐
Tr. 30	University Lands	640.88	☐	☐
Tr. 31	University Lands	640.23	☐	☐
Tr. 32	University Lands	320.56	☐	☐
	TOTAL	16027.73	☐	☐
			☐	☐

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Signature	Print Name		
	George Mullen		
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Sr. Reg. Specialist	george.mullen@shell.com	07/29/2019	(832) 337-0549

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Clear Form

RAILROAD COMMISSION OF TEXAS

Form P-16

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

Acreage Designation

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 I. OPERATOR INFORMATION			
Operator Name:	Shell Western E&P	**Operator P-5 No.:**	774719
Operator Address:	P.O. Box 576, Houston, Texas, 77001		

SECTION II. WELL INFORMATION				
District No.:	08	**API No.:**	42-495-34399	**Purpose of Filing:**
Well No.:	1009H	**Drilling Permit No.:**	855715	
Lease Name:	University 20 PW Unit	**RRC ID or Lease No.:**	44020	☐ **Drilling Permit Application (Form W-1)**
Total Lease Acres:	16027.73	**Field Name:**	Phantom (Wolfcamp)	
Proration Acres:	160.00	**Field No.:**	71052900	☑ **Completion Report (Form G-1/W-2)**
Wellbore Profile	Horizontal Well	**Is this a UFT field?**	Yes	
SL Record (Parent) Well Drilling Permit No.:		**County:**	Winkler	

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

RRC ID No. or Lease No.	Well No.	Profile	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
44020	2002H	Horiz.	University 20 PW Unit	42-301-31788	160.00	N	
44020	0503H	Horiz.	University 20 PW Unit	42-301-31794	160.00	N	
44020	1803H	Horiz.	University 20 PW Unit	42-301-32609	160.00	N	
44020	0403H	Horiz.	University 20 PW Unit	42-301-32740	160.00	N	
44020	2003ST	Horiz.	University 20 PW Unit	42-301-32937	160.00	N	
44020	2004H	Horiz.	University 20 PW Unit	42-301-32938	160.00	N	
44020	1001H	Horiz.	University 20 PW Unit	42-495-33544	160.00	N	
44020	1503H	Horiz.	University 20 PW Unit	42-495-33705	160.00	N	
44020	1005H	Horiz.	University 20 PW Unit	42-495-33889	160.00	N	
44020	1007H	Horiz.	University 20 PW Unit	42-495-33890	160.00	N	
44020	1002H	Horiz.	University 20 PW Unit	42-495-33891	160.00	N	
44020	1003H	Horiz.	University 20 PW Unit	42-495-33892	160.00	N	
44020	3902H	Horiz.	University 20 PW Unit	42-495-34004	160.00	N	
44020	3903H	Horiz.	University 20 PW Unit	42-495-33993	160.00	N	
44020	3904H	Horiz.	University 20 PW Unit	42-495-34006	160.00	N	

A. Total Assigned Horiz. Acreage	=	**2400.00**	**C. Total Assigned Acreage**	=	**2400.00**
Total Remaining Horiz. Acreage	=	**13627.73**	**Total Remaining Acreage**	=	**29655.46**
B. Total Assigned Vert./Dir. Acreage	=	**0.00**			
Total Remaining Vert./Dir. Acreage	=	**16027.73**			

SECTION IV. REMARKS - REQUIRED FOR PSA AND CO-DEVELOPMENT *(refer to instructions)*

Attach Additional Pages As Needed. ☐ **No additional pages** ☑ **Additional Pages:** 2 **(No. of additional pages)**

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

Signature Molly Minuk

Molly Minuk, Sr. Regulatory Specialist
Name and title (type or print)

molly.minuk@shell.com
Email
(include email address *only* if you affirmatively consent to its public release)

RAILROAD COMMISSION OF TEXAS

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

Form P-16
Attachment
Page 1A
Rev. 02/2019

Acreage Designation

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

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

RRC ID No. or Lease No.	Well No.	Profile	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
DP# 833333	3905H	Horiz.	University 20 PW Unit	42-495-33994	160.00	N	
DP# 841550	2701H	Horiz.	University 20 PW Unit	42-495-34175	160.00	N	
DP# 841149	2703H	Horiz.	University 20 PW Unit	42-495-34174	160.00	N	
DP# 841126	2704H	Horiz.	University 20 PW Unit	42-495-34170	160.00	N	
DP# 841221	2706H	Horiz.	University 20 PW Unit	42-495-34169	160.00	N	
DP 855715	1009H	Horiz.	University 20 PW Unit	42-495-34399	160.00	N	
DP 855749	1010H	Horiz.	University 20 PW Unit	42-495-34404	160.00	N	
DP 859027	2708H	Horiz.	University 20 PW Unit	45-495-34454	160.00	N	

A. Total Assigned Horiz. Acreage	=	1280.00	C. Total Assigned Acreage =	1280.00
Total Remaining Horiz. Acreage	=	14747.73	Total Remaining Acreage =	30775.46
B. Total Assigned Vert./Dir. Acreage	=	0.00		

150 N. Dairy Ashford	Houston	Texas	77079	832-337-0258	08/13/2020
Address	**City,**	**State,**	**Zip Code**	**Tel: Area Code Number**	**Date: mo. day yr.**

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued:	19 August 2019	**GAU Number:**	248860

Attention:	SHELL WESTERN E&P PO BOX 576 HOUSTON, TX 77001	**API Number:**	49534399
		County:	WINKLER
		Lease Name:	UNIVERSITY 20 PW UNIT
		Lease Number:	
Operator No.:	774719	**Well Number:**	1009H
		Total Vertical Depth:	12300
		Latitude:	31.729097
		Longitude:	-103.318578
		Datum:	NAD27

Purpose: New Production Well

Location: Survey-UL; Abstract-U11; Block-20; Section-10

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 300 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. 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 08/08/2019. 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

UNIVERSITY 20 PW UNIT

16,027.73 ACRES (MEASURED)

SECTIONS 3, 4, 5, 8, 9, 10, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 33, 34, 39, 42, 46, E/2 OF SECTION 40 AND E/2 OF SECTION 43

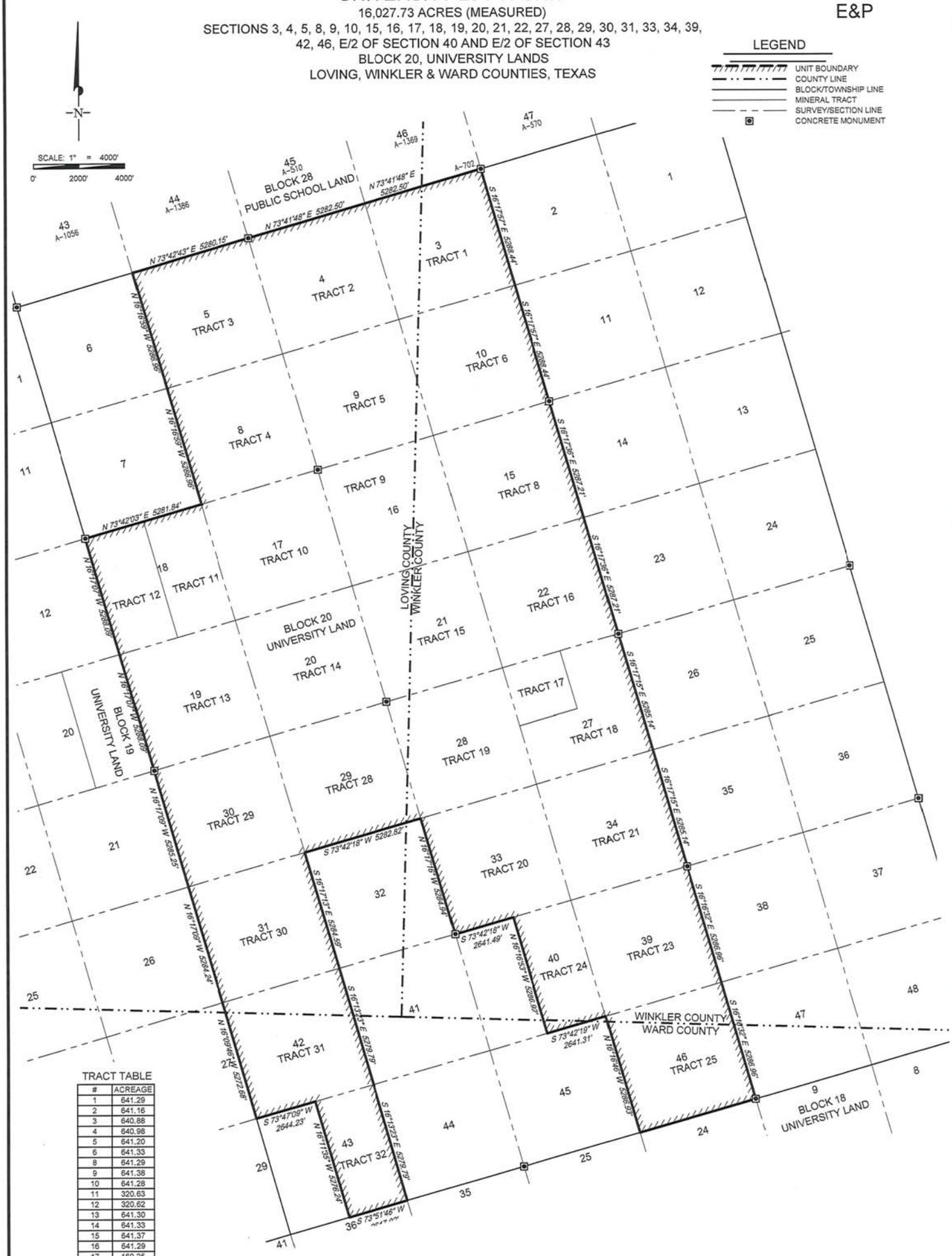
BLOCK 20, UNIVERSITY LANDS

LOVING, WINKLER & WARD COUNTIES, TEXAS

SHELL WESTERN E&P

LEGEND

- UNIT BOUNDARY
- COUNTY LINE
- BLOCK/TOWNSHIP LINE
- MINERAL TRACT
- SURVEY/SECTION LINE
- CONCRETE MONUMENT



TRACT TABLE

#	ACREAGE
1	641.29
2	641.16
3	640.88
4	640.98
5	641.20
6	641.33
8	641.29
9	641.38
10	641.28
11	320.63
12	320.62
13	641.30
14	641.33
15	641.37
16	641.29
17	160.25
18	480.74
19	640.97
20	640.97
21	640.98
23	641.18
24	320.59
25	641.14
28	640.95
29	640.96
30	640.88
31	640.23
32	320.56
TOTAL	16,027.73

I certify this plat is true and correct to the best of my knowledge.

George Mullen

George Mullen
Senior Regulatory Specialist

AS-DRILLED LOCATION

LEASE NAME & WELL NO.:

UNIVERSITY 20 PW UNIT 1009H

UNIT/LEASE ACREAGE:

16027.73 ACRES (MEASURED)

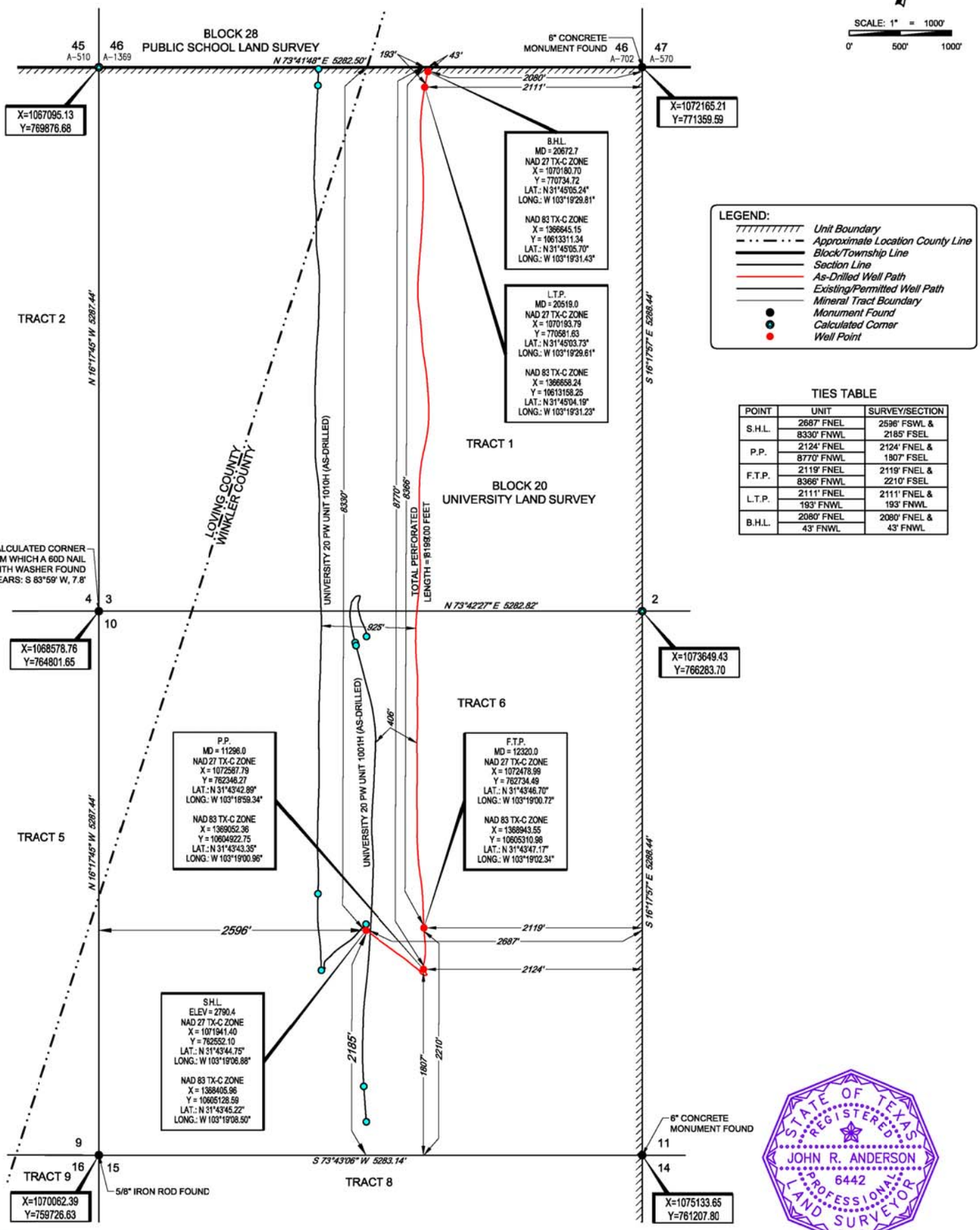
NEAREST TOWN IN COUNTY:

±9.5 MILES SOUTHWEST OF WINK, TEXAS

DESCRIPTION:

SECTIONS 3 & 10, BLOCK 20, UNIVERSITY LAND SURVEY
WINKLER COUNTY, TEXAS

SHELL WESTERN E&P



LEGEND:

- Unit Boundary
- Approximate Location County Line
- Block/Township Line
- Section Line
- As-Drilled Well Path
- Existing/Permitted Well Path
- Mineral Tract Boundary
- Monument Found
- Calculated Corner
- Well Point

TIES TABLE

POINT	UNIT	SURVEY/SECTION
S.H.L.	2687' FNEL	2596' FSWL &
	8330' FNWL	2185' FSEL
P.P.	2124' FNEL	2124' FNEL &
	8770' FNWL	1807' FSEL
F.T.P.	2119' FNEL	2119' FNEL &
	8366' FNWL	2210' FSEL
L.T.P.	2111' FNEL	2111' FNEL &
	193' FNWL	193' FNWL
B.H.L.	2080' FNEL	2080' FNEL &
	43' FNWL	43' FNWL

STATE OF TEXAS REGISTERED JOHN R. ANDERSON 6442 PROFESSIONAL LAND SURVEYOR

John R. Anderson D6/19/2020

John R. Anderson, R.P.L.S. No. 6442

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 145 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

UL-20-10-P3A_CG UNIVERSITY 20 PW UNIT 1009H	
DATE:	06/18/2020
FILE:	AD_UL_20_10_P3A_CG_UNIVERSITY_20_PW_1009H
DRAWN BY:	O.M.
SHEET :	1 OF 1

REVISION:

INT	DATE

NOTES:

1. ORIGINAL DOCUMENT SIZE: 11" X 17"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927, UNLESS OTHERWISE NOTED.
3. THIS LOCATION AND/OR UNIT/LEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY SHELL WESTERN E&P. THIS PLAT WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A "BOUNDARY SURVEY" IN COMPLIANCE WITH T.B.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
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NOTES CONT'D:

6. THE AS-DRILLED SURFACE LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF NOVEMBER 5, 2019.
7. THE SUBSURFACE WELL PATH DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHELL WESTERN E&P OR ITS SUBSIDIARIES & AFFILIATES.
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10. F.T.P. = FIRST TAKE POINT
11. L.T.P. = LAST TAKE POINT
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S:\SURVEY\SHELL\PERMIAN_BASIN\UNIVERSITY_20_10_WNK_UL-20-10-P3A\FINAL_PRODUCTS\AD_UL_20_10_P3A_CG_UNIVERSITY_20_PW_1009H.DWG 6/19/2020 10:05:19 AM janderson2

AS-DRILLED LOCATION

LEASE NAME & WELL NO.:

UNIVERSITY 20 PW UNIT 1009H

UNIT/LEASE ACREAGE:

16027.73 ACRES (MEASURED)

NEAREST TOWN IN COUNTY:

±9.5 MILES SOUTHWEST OF WINK, TEXAS

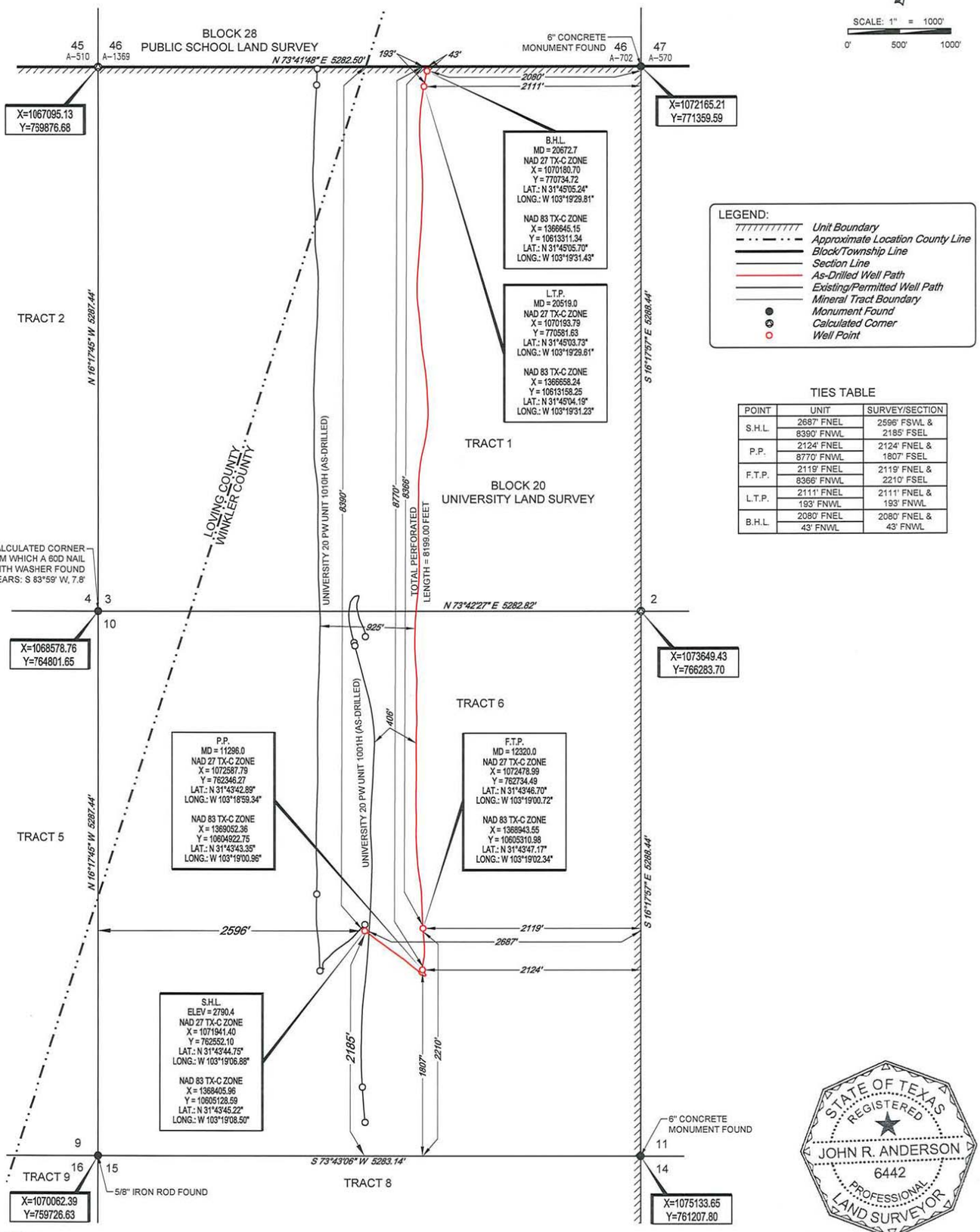
DESCRIPTION:

SECTIONS 3 & 10, BLOCK 20, UNIVERSITY LAND SURVEY
WINKLER COUNTY, TEXAS

SHELL WESTERN E&P

SCALE: 1" = 1000'

0' 500' 1000'



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STATE OF TEXAS
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6442
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John R. Anderson 8/5/2020

John R. Anderson, R.P.L.S. No. 6442

UL-20-10-P3A_CG
UNIVERSITY 20
PW UNIT 1009H

REVISION:		
	INT	DATE
	O.M.	08/04/2020
	J.R.A.	08/05/2020

DATE: 06/18/2020

FILE: AD_UL_20_10_P3A_CG_UNIVERSITY_20_PW_1009H_REV2

DRAWN BY: O.M.

SHEET: 1 OF 1

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