



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/10/2018
Tracking No.: 183941

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

OPERATOR INFORMATION

Operator Name: PT PETROLEUM, LLC Operator No.: 682074
Operator Address: 2701 DALLAS PARKWAY STE 580 PLANO, TX 75093-0000

WELL INFORMATION

API No.: 42-383-39858 County: REAGAN
Well No.: 1041A RRC District No.: 7C
Lease Name: UNIVERSITY ORANGE Field Name: SPRABERRY (TREND AREA)
RRC Lease No.: 19444 Field No.: 85279200
Location: Section: 4, Block: 1, Survey: UL, Abstract: U4
Latitude: 31 Longitude: -101
This well is located 14.1 miles in a SE
direction from RANKIN,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 08/15/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	04/26/2017	825451
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/29/2017 Date of first production after rig released: 08/15/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/30/2017 Date plug back, deepening, recompletion, or drilling operation ended: 06/10/2017
Number of producing wells on this lease in this field (reservoir) including this well: 2 Distance to nearest well in lease & reservoir (ft.): 23220.0
Total number of acres in lease: 14638.59 Elevation (ft.): 2769 GL
Total depth TVD (ft.): 7545 Total depth MD (ft.): 17665
Plug back depth TVD (ft.): Plug back depth MD (ft.): 17618
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 108.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease : No
of lease on which this well is located: 2344.0 Feet from the West Line and
10491.0 Feet from the North Line of the
UNIVERSITY ORANGE Lease.

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

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

W2: N/A

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

GAU Groundwater Protection Determination **Depth (ft.):** 750.0 **Date:** 04/19/2017
SWR 13 Exception **Depth (ft.):** 1300.0

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 11/10/2017 **Production method:** Gas Lift
Number of hours tested: 24 **Choke size:** 64/64
Was swab used during this test? No **Oil produced prior to test:**
PRODUCTION DURING TEST PERIOD:
Oil (BBLs): 203.00 **Gas (MCF):** 144
Gas - Oil Ratio: 709 **Flowing Tubing Pressure:** 275.00
Water (BBLs): 2208

CALCULATED 24-HOUR RATE

Oil (BBLs): 203.0 **Gas (MCF):** 144
Oil Gravity - API - 60.: 39.0 **Casing Pressure:** 125.00
Water (BBLs): 2208

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	9 5/8	12 1/4	1263			C	505	794.0	0	Circulated to Surface
2	Conventional Production	5 1/2	8 1/2	17665			NEOCEM	2495	4649.6	500	Temperature Survey

LINER RECORD

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

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	6473	6473 / ARROW SET 1X

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 7758	17543.0

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

Was hydraulic fracturing treatment performed? Yes
Is well equipped with a downhole actuation sleeve? No **If yes, actuation pressure (PSIG):**
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 9600 **Actual maximum pressure (PSIG) during hydraulic fracturing:** 9250
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? Yes

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	19,455,191 # SAND W/ 369,994 BBL FRAC	7758 17543

FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
GRAYBURG	Yes	3299.0	3299.0	Yes	PROD TOC @ 500'
QUEEN	Yes	2764.0	2764.0	Yes	PROD TOC @ 500'
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3632.0	3632.0	Yes	PROD TOC @ 500'
CLEARFORK	No			No	PINCHED OUT
SPRABERRY	Yes	5979.0	5979.0	Yes	7758-17543'; PROD TOC @ 500'
STRAWN	No			No	DID NOT DRILL THIS DEEP
FUSSELMAN	No			No	DID NOT DRILL THIS DEEP
ELLENBURGER	No			No	DID NOT DRILL THIS DEEP

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? No
 Is the completion being downhole commingled (SWR 10)? No

REMARKS

KOP @ 6547'.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2017-12-21 17:16:50.238] EDL=9771 feet, max acres=640, SPRABERRY (TREND AREA) oil well

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Ann Ritchie
Telephone No.: (432) 684-6381

Title:
Date Certified: 12/07/2017



RAILROAD COMMISSION OF TEXAS

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

Form W-15
Rev. 08/2014

CEMENTING REPORT

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

Operator Name: PT PETROLEUM LLC		Operator P-5 No.: 682074	
Cementer Name: HALLIBURTON ENERGY SERVICES		Cementer P-5 No.: 347151	

District No.: 7C		County: REAGAN	
Well No.: 1041A		API No.: 383-39858	
Lease Name: UNIVERSITY ORANGE		Drilling Permit No.: 825451	
Field Name: SPRABERRY (TREND AREA)		Lease No.: 19444	
		Field No.: 85279200	

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.):	12 1/4"	Depth of drilled hole (ft.):	1263'
Size of casing in O.D. (in.):	9 5/8"	Casing weight (lbs/ft) and grade:	36#
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth shoe (ft.):	1263'
Hrs. waiting on cement before drill-out: 6+		Calculated top of cement (ft.):	0'
		Cementing date:	5/30/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	350	C	NA	583	1864
2	155	C	POLY-E FLAKE / CALCIUM CHLORIDE / BOL-SEAL	211	580
3					
Total	505			794	2444

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.):	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)	
Upper:	Lower:	Upper:	Lower:
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade	
Upper:	Lower:	Upper:	Lower:
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.):	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)	
Upper:	Lower:	Upper:	Lower:
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade	
Upper:	Lower:	Upper:	Lower:
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

Circulated 53bbbls / 181sks to surface
SO: 904032452

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.

Christopher Peacock - Service Supervisor

Halliburton

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

Cementing Company
Odessa, TX, 79763

Chris Peacock
Signature

432-571-8600

Address

City, State, Zip Code

Tel: Area Code Number

09/30/2017
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.

Ann E. Ritchie

Regulatory

Ann E. Ritchie
Signature

Typed or printed name of operator's representative

Title

Signature

2701 Dallas Parkway, Ste 580

Plano, TX 75093

432-684-6381

12/5/17
Date: mo. day yr.

Address

City, State, Zip Code

Tel: Area Code Number

Instructions for Form W-15, Cementing Report

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

- 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.



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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: PT PETROLEUM LLC-BUS	Operator P-5 No.: 682074
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 7C	County: MEGAN	
Well No.: #1041A	API No.: 383.39858	Drilling Permit No.: 82545
Lease Name: UNIVERSITY ORANGE	Lease No.: 19444	
Field Name: SPRABERRY (TREND AREA)	Field No.: 85280300	

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner Production

Drilled hole size (in.): 8 1/2" Depth of drilled hole (ft.): 17,465' Est. % wash-out or hole enlargement: 30

Size of casing in O.D. (in.): 5 1/2" Casing weight (lbs/ft) and grade: 20 # No. of centralizers used: 165

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.):

Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): 17,460' Setting depth liner (ft.):

Cementing date: 06-10-2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	645	NEOCEM	1250 POLY E FLAKE	1813.1	6741.33
2	1700	NEOCFM	1250 POLY E FLAKE, 20 KOLSEAM	2512.6	10727.65
3	150	NEOCFM		373.85	1387.25
Total	2495			4699.55	18856.23

II. CASING CEMENTING DATA

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

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:

Tapered string drilled hole size (in.) Tapered string depth of drilled hole (ft.)

Upper: Lower: Upper: Lower:

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:

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.) 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:

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

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

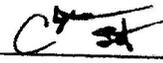
REMARKS

SO# 0904087079, PT PETROLEUM LLC-EBUS, UNIVERSITY ORANGE, # 1041A- PRODUCTION
DID NOT CIRCULATE CEMENT TO SURFACE. CIRCULATED 20 BBLS SPACER TO SURFACE.

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CHRISTOPHER J. SOTO

Halliburton



Name and title of cementer's representative

Cementing Company

Signature

1301 W. Webb St.

Brownfield, Tx, 79316

575-392-0700

06-10-2017

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.

Ann E. Ritchie

Regulatory



Typed or printed name of operator's representative

Title

Signature

2701 Dallas Pkwy, Ste 580,

Plano, TX 75093

432-684-6381

12/5/17

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

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- 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.

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



LORI WROTENBERY
DIRECTOR, OIL AND GAS DIVISION
BILL SPRAGGINS
DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

OPERATOR Name: PT PETROLEUM, LLC
Address1: 2701 DALLAS PARKWAY STE 580
Address2:
City: PLANO
State: TX

RE: Lease: UNIVERSITY ORANGE
Well No: 1041A
Sec: 4 **Block:** 1
County: REAGAN
Survey Name: UL

SWR13EX Application Number: 14672 **Drilling Permit No:** 825451

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME: UNIVERSITY ORANGE** ;
WELL NUMBER: 1041A 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 1300 feet of surface casing and circulate cement from the shoe to the ground surface.

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 05/01/2017
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: Bill Spraggins

DATE: 05/02/2017

BILL SPRAGGINS

DISTRICT DIRECTOR

Tracking No.: 183941

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: PT PETROLEUM, LLC	District No. 7C	Completion Date: 08/15/2017
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 825451	
Lease Name UNIVERSITY ORANGE	Lease/ID No. 19444	Well No. 1041A
County REAGAN	API No. 42- 383-39858	

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). _____

Ann Ritchie Signature	_____ Title
_____ Name (print)	(432) 684-6381 Phone
	12/06/2017 Date

-FOR RAILROAD COMMISSION USE ONLY-



Weatherford®

Surface Logging Systems

10000 Pilot/P.O. Box 80531
 Midland, TX/Midland, TX
 79706/79708
 432.561.8892 Main
 432.561.8895 Fax

COMPANY: PT PETROLEUM
 WELL: UNIVERSITY ORANGE 1041A
 FIELD: TRINITY
 COUNTY: REAGAN STATE: TX
 LOCATION: 100' FSL & 2319' FWL, SEC.4, BLK. 1
UNIVERSITY LANDS SURVEY

Spud Date: 5/28/17

Logging Personnel:
SCOTT MILLIGAN

Started: 6/2/17 At: 6764'

Ended: 6/9/17 At: 17660'

JARED BLAIR

Api No.: 42-383-39858

Unit No.: 081

G.L.: 2769'

Rig: PRECISION 312

K.B: 2794'

Filename: PT-PETROLEUM-UNIVERSITY-ORANGE-1041A.mlw

Geologist: GARY HAMPTON

Abbreviations:

NB...New Bit
 CO...Circ Out
 NR...No Returns
 TG...Trip Gas
 WOB...Wt on Bit
 RPM...Rev/Min
 SG...Survey Gas
 DST...Drill Stem Test
 DS...Directional Survey
 CG...Connection gas
 LAT...Logged After Trip
 PP...Pump Pressure
 SPM...Strokes/Min
 DTG...Down Time Gas

Mud Data

WT...Weight V..Viscosity
 PH...Acidity F..Filtrate
 CHL...Chlorides SC...Solids Content

Lithology Symbols:

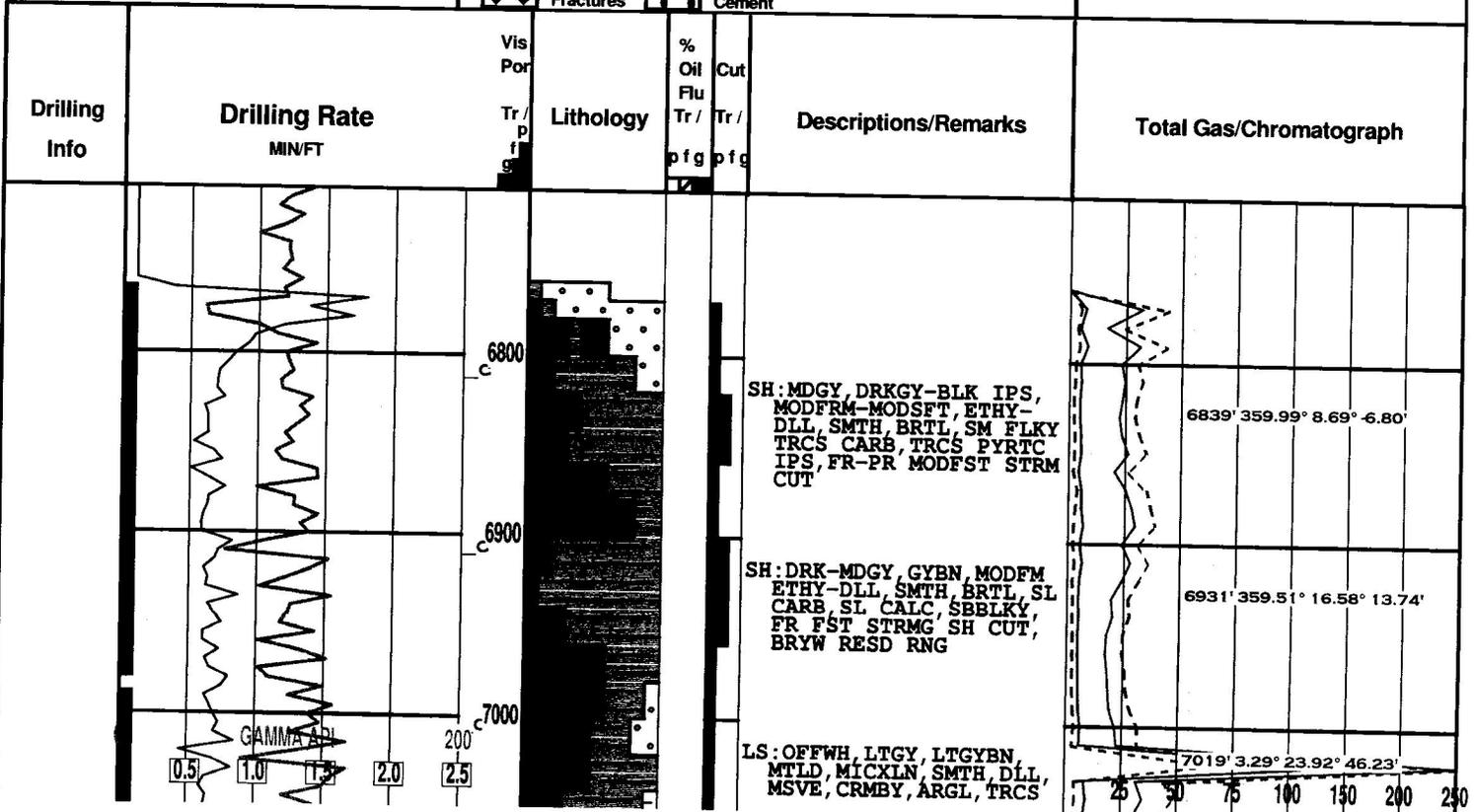
	Anhydrite		Salt		Granite
	Siltstone		Chert		Sandstone
	Dolomite		Conglomerate		Limestone
	Coal		Shale		Bentonite
	Carb Shale		Granite Wash		Quartz Wash
	Red Sh		Org Sh		Green Sh
	Cust Sh1		Cust Sh2		Cust Sh3
	Cust Sh4		Cust Sh5		Cust Sh6

Accessories

Fractures Cement
 Glauconite Pyrite Fossils Oolites

Gas Chromatograph Analysis:

TG -----
 C1 -----
 C2 -----
 C3 -----
 IC4 -----
 NC4 -----
 IC5 -----
 NC5 -----





RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 2

Rev. 01/2016

Acreage Designation

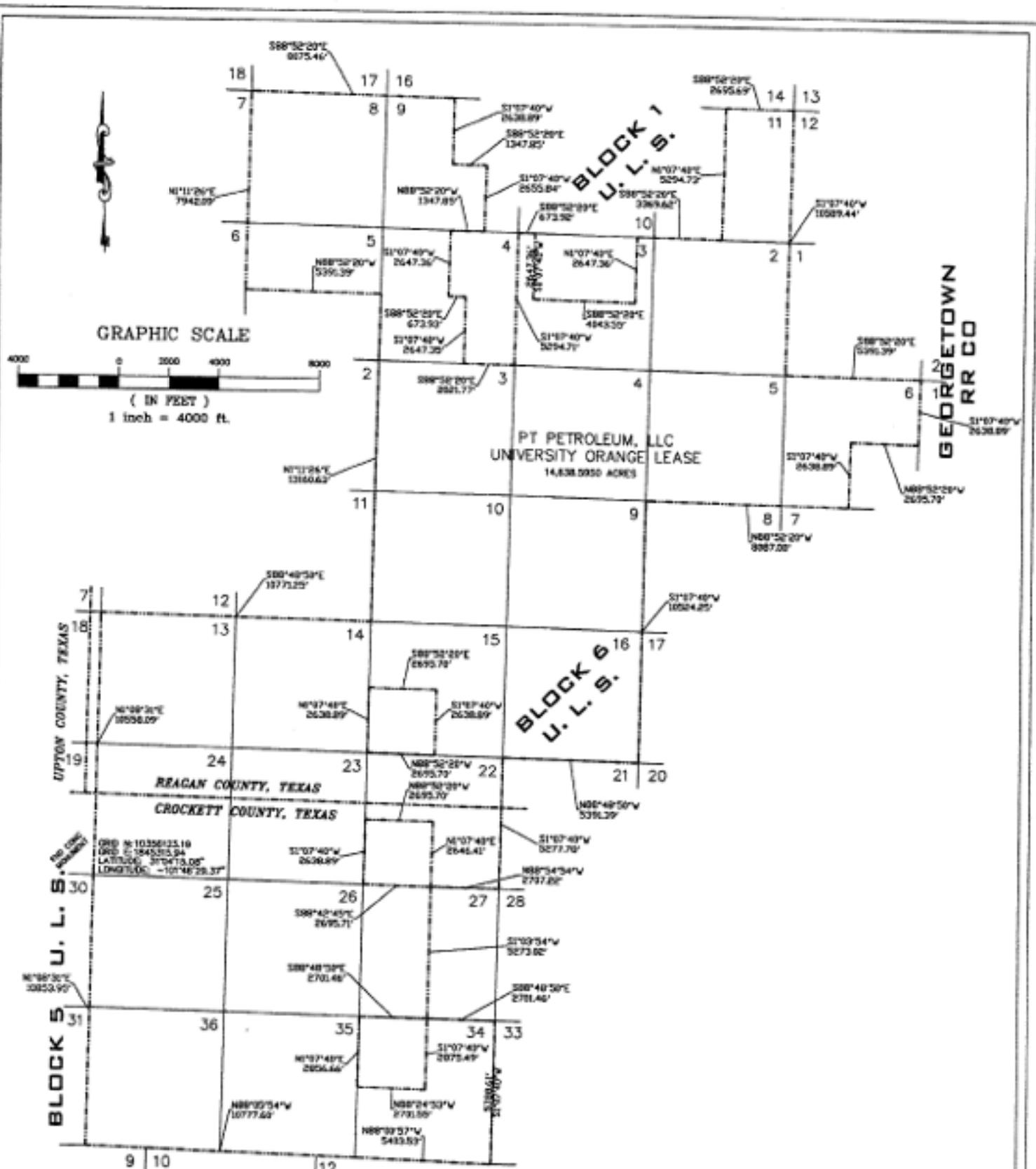
Filer is the owner or lessee of all or an undivided portion of the minerals under each tract listed below and has the legal right to drill on each tract traversed by the well that will have perforations or other take points open in the interval of the applied-for field(s). All tracts listed will actually be traversed by the wellbore or the filer has pooling authority or other contractual authority, such as a production sharing agreement, authorizing inclusion of the non-drillsite tract in the acreage assigned to the well.

SECTION V. LISTING OF ALL TRACTS CONTRIBUTING ACREAGE TO AN RRC DESIGNATED DRILLSITE DEVELOPMENTAL UNIT THAT IS NOT A SINGLE LEASE, POOLED UNIT, OR GROUP OF TRACTS UNITIZED BY CONTRACT FOR PURPOSES OF SECONDARY RECOVERY					
RRC ID No. or Lease No.	Lease Name	Beginning Lease Acreage	Allocated Lease Acreage	Ending Lease Acreage	Operator Name and Operator No. (if different from filing operator)
Total Allocated Acreage >					< Total Lease Acreage

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 VI. LISTING OF ALL WELLS IN THE APPLIED FOR FIELD ON THE SAME ACREAGE AS THE LEASE OR POOLED UNIT DESIGNATED FOR THE TRACTS LISTED IN SECTION V BY FILER									
RRC ID No. or Lease No.	Well No.	Acres Assigned	SWR 38 Except. (Y/N)	H-Horizontal D-Directional V-Vertical	RRC ID No. or Lease No.	Well No.	Acres Assigned	SWR 38 Except. (Y/N)	H-Horizontal D-Directional V-Vertical
A. Total Wells & Acreage >					A. Total Wells & Acreage >				
B. Total Assigned Horiz. Acreage >					B. Total Assigned Horiz. Acreage >				
C. Total Assigned Vert./Dir. Acreage >					C. Total Assigned Vert./Dir. Acreage >				

SECTION VII. REMARKS



JOHN PARKER SURVEY ABSTRACT 2881
BLOCK BB2
 F. L. HARRIS SURVEY ABSTRACT 4823
 W.H. JOHNSON SURVEY ABSTRACT 4823

NOTE:
 COURSES, DISTANCES AND COORDINATES SHOWN HEREIN ARE LAMBERT GRID AND CONFORM TO THE "TEXAS COORDINATE SYSTEM", TEXAS CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES AND COORDINATES ARE SHOWN IN GRID FEET.

THE UNDERSIGNED DOES HEREBY CERTIFY THAT THIS LOCATION WAS THIS DAY MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION AND THAT THIS PLAT IS A CORRECT REPRESENTATION THEREOF.

DATED THIS 10TH DAY OF MAY, 2016

[Signature]
 R.J. DALM
 TEXAS RPES 4826



SCHUMANN ENGINEERING CO., INC.
 REGISTERED PROFESSIONAL LAND SURVEYORS REGISTERED PROFESSIONAL CIVIL ENGINEERS
 Civil Engineering ~ Land Surveying
 TEXAS FIRM NO. P1800 TEXAS FIRM NO. 10149500
 408 N. PEDOS STREET - P. O. BOX 504 MIDLAND, TEXAS 79702-0504 Office (432) 684-3548 Fax (432) 684-8973

LOCATION PLAT

PT PETROLEUM, LLC
 UNIVERSITY ORANGE LEASE
 14,638.5950 ACRES OF LAND OUT OF
 BLOCK 1 & BLOCK 6,
 UNIVERSITY LANDS SURVEY,
 REAGAN & CROCKETT COUNTIES, TEXAS

QUAD: RANKIN NE PROJECT: 74957PT
 SCALE: 1" = 4000' JOB NO. 74,957-00

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 19 April 2017 **GAU Number:** 170616

Attention:	PT PETROLEUM, LLC 2701 DALLAS PARKWAY STE PLANO, TX 75093	API Number:	
Operator No.:	682074	County:	REAGAN
		Lease Name:	University Orange
		Lease Number:	
		Well Number:	1041A
		Total Vertical Depth:	12000
		Latitude:	31.128751
		Longitude:	-101.731963
		Datum:	NAD27

Purpose: New Drill
Location: Survey-UL; Block-1; Section-4

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 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth between 700 and 750 feet.

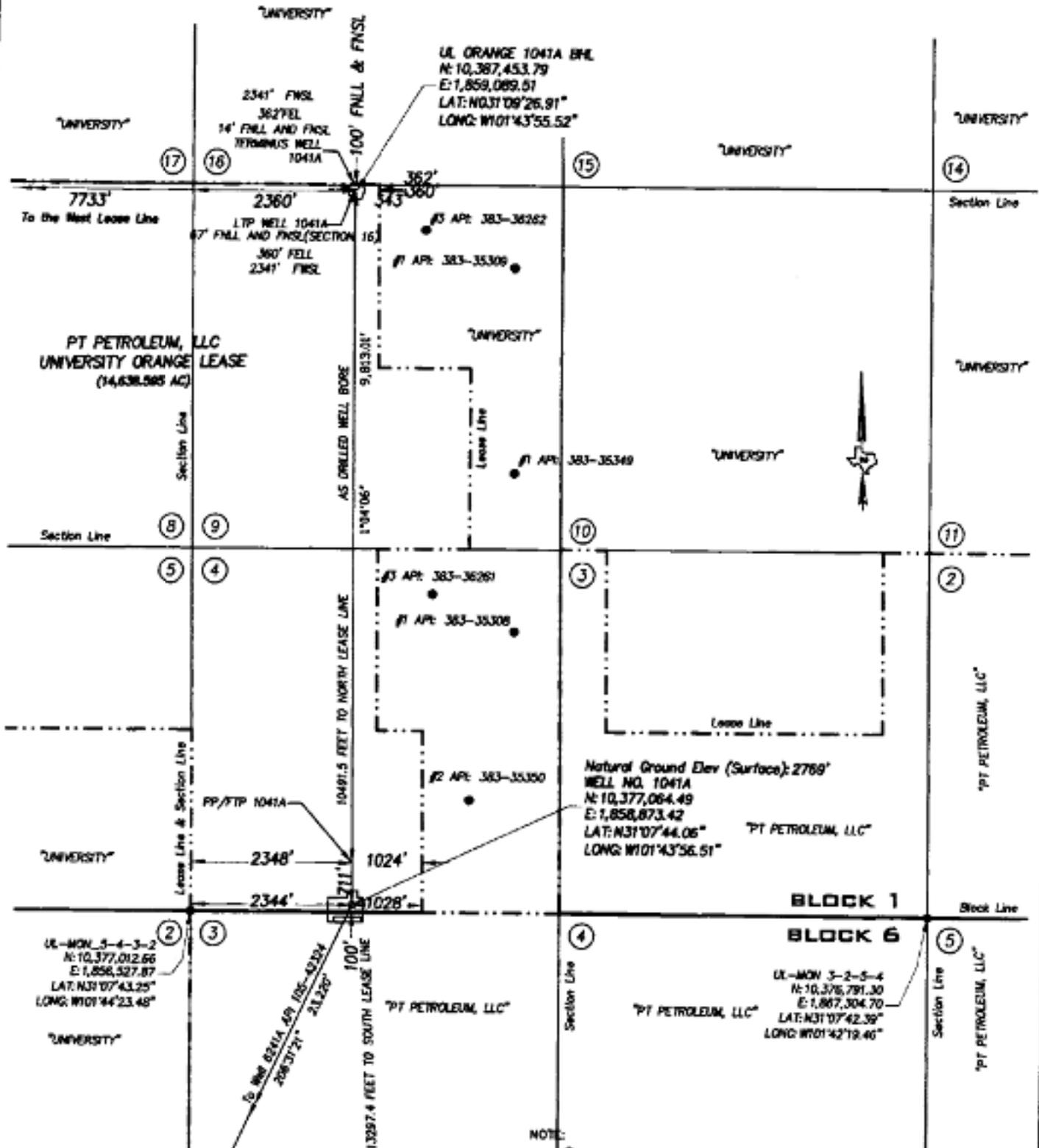
This recommendation is applicable to all wells within a radius of 650 feet of this location.

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

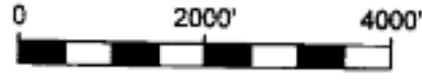
This determination is based on information provided when the application was submitted on 04/17/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

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



GRAPHIC SCALE



(IN FEET)
1 inch = 2000 ft.

NOTE:
COURSES, DISTANCES AND COORDINATES SHOWN HEREON ARE LAMBERT GRID AND CONFORM TO THE "TEXAS COORDINATE SYSTEM", TEXAS CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES AND COORDINATES ARE SHOWN IN GRID FEET.

ELEVATION IS NAVD 88.
THIS WELL IS TO BE LOCATED 14.1 MILES IN A SOUTHEAST DIRECTION FROM RANCHO WHICH IS THE NEAREST TOWN IN THE COUNTY OF THE WELL SITE.

THE UNDERSIGNED DOES HEREBY CERTIFY THAT THIS LOCATION WAS THIS DAY MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION AND THAT THIS PLAT IS A CORRECT REPRESENTATION THEREOF.

DATED THIS 21ST DAY OF NOVEMBER, 2017

RJ DAUM
TEXAS RPLS 4826



SCHUMANN ENGINEERING CO., INC.

REGISTERED PROFESSIONAL LAND SURVEYORS REGISTERED PROFESSIONAL CIVIL ENGINEERS
Civil Engineering ~ Land Surveying
TEXAS FIRM No. F1880 TEXAS FIRM No. 10149500
408 N. PECOS STREET - P. O. BOX 504 MIDLAND, TEXAS 79702-0504
Office (432) 684-5548 Fax (432) 684-6973

LOCATION PLAT

PT PETROLEUM LLC
AS DRILLED
WELL NO. 1041A
UNIVERSITY ORANGE LEASE
SURFACE LOCATION:
100 FEET FROM THE SOUTH LINE AND
2344 FEET FROM THE WEST LINE
SECTION 4, BLOCK 1
UNIVERSITY LAND SURVEY
BOTTOM HOLE LOCATION:
100 FEET FROM THE NORTH LINE AND
2360 FEET FROM THE WEST LINE
SECTION 9, BLOCK 1
UNIVERSITY LAND SURVEY
REAGAN COUNTY, TEXAS
QUAD: TEXON SCALE: 1" = 2000'
PROJECT: 75874PTP JOB NO: 75,874-A