



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 01/31/2018  
Tracking No.: 183978

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.: 42-383-39859 County: REAGAN  
Well No.: 1042A 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: UNIVERSITY LANDS, Abstract:  
  
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: 08/16/2017  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	04/28/2017	825646
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/27/2017	Date of first production after rig released: 08/16/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/27/2017	Date plug back, deepening, recompletion, or drilling operation ended: 06/23/2017
Number of producing wells on this lease in this field (reservoir) including this well: 3	Distance to nearest well in lease & reservoir (ft.): 25.0
Total number of acres in lease: 14638.59	Elevation (ft.): 2769 GL
Total depth TVD (ft.): 7712	Total depth MD (ft.): 17255
Plug back depth TVD (ft.):	Plug back depth MD (ft.): 17165
Was directional survey made other than inclination (Form W-12)? No	Rotation time within surface casing (hours): 108.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 1053.0 Feet from the East Line and 10491.5 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: 10/05/2017	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): 388.00	Gas (MCF): 159
Gas - Oil Ratio: 409	Flowing Tubing Pressure: 280.00
Water (BBLs): 2152	
CALCULATED 24-HOUR RATE	
Oil (BBLs): 388.0	Gas (MCF): 159
Oil Gravity - API - 60.: 39.0	Casing Pressure: 160.00
Water (BBLs): 2152	

CASING RECORD											
Row	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size	Size	Depth	Stage	Tool		Amount	Volume	Cement	Determined
		(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1	Surface	9 5/8	12 1/4	1243			PREM PLUS	505	783.0	0	Circulated to Surface
2	Conventional Production	5 1/2	8 1/2	17255			C	2495	4652.0	1851	Calculation

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

TUBING RECORD			
Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	6692	6692 / ARROW SET 1X

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 7909	17139.0

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:

9800

Actual maximum pressure (PSIG) during hydraulic fracturing:

9500

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	18,537,401 # SAND W/ 370,098 BBL FRAC	7909 17139

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
GRAYBURG	Yes	3299.0	3299.0	Yes	PROD TOC @ 1851'
QUEEN	Yes	2764.0	2764.0	Yes	PROD TOC @ 1851'
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	3632.0	3632.0	Yes	PROD TOC @ 1851'
SPRABERRY	No			No	PINCHED OUT
STRAWN	Yes	5979.0	5979.0	Yes	7909-17139'; PROD TOC @ 1851'
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 @ 6792'.

RRC REMARKS
<div><b>PUBLIC COMMENTS:</b> [RRC Staff 2018-01-25 15:50:02.709] EDL=9204 feet, max acres=640, SPRABERRY (TREND AREA) oil well</div> <div><b>CASING RECORD :</b></div> <div><b>TUBING RECORD:</b></div> <div><b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b></div> <div><b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b></div> <div><b>POTENTIAL TEST DATA:</b></div>

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Ann Ritchie	<b>Title:</b>
<b>Telephone No.:</b> (432) 684-6381	<b>Date Certified:</b> 12/07/2017



## RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 09/2014

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

## CEMENTING REPORT

## OPERATOR INFORMATION

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

## WELL INFORMATION

TC	County: ROAGAN
# 1042A	API No.: 383-31859
UNIVERSITY ORANGE	Drilling Permit No.: 825446
SPRABERRY (TREND AREA)	Lease No.: 19444
	Field No.: 85271200

## I. CASING CEMENTING DATA

<input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production	
Hole size: 12.14"	Depth of drilled hole (ft.): 1243'
Casing: 95/8"	Est. % wash-out or hole enlargement: 30
Was cement circulated to surface (or bottom of cellar) outside or surface casing, explain in Remarks.	Casing weight (lbs/ft) and grade: 26 #
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No. of centralizers used: 6
Setting depth shoe (ft.): 1243'	Top of liner (ft.):
Setting depth liner (ft.):	
out: 6+	Calculated top of cement (ft.): 0'
	Cementing date: 5/27/2017

## SLURRY

	f Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
	300	PREM PLUS	REMARKS	562	1864
	185	PREM PLUS	REMARKS	241	109
	505			783	2473

## II. CASING CEMENTING DATA

<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	
Hole size (in.):	Depth of drilled hole (ft.):
Casing weight (lbs/ft) and grade:	Est. % wash-out or hole enlargement:
Tapered string depth of drilled hole (ft.):	No. of centralizers used:
Upper: Lower:	
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? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):
Waiting on cement before drill out	Calculated top of cement (ft.):
	Cementing date:

## SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

## III. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings	
Drilled hole size (in.):	Depth of drilled hole (ft.):
Size of casing in O.D. (in.):	Est. % wash-out or hole enlargement:
Tapered string drilled hole size (in.):	Casing weight (lbs/ft) and grade:
Upper: Lower:	No. of centralizers used:
Tapered string size of casing in O.D. (in.):	Tapered string depth of drilled hole (ft.):
Upper: Lower:	Upper: Lower:
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? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth tool (ft.):
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					



CEMENT		W	P	N				
Log Date								
Size of pipe (in.)								
Bottom of tubin or drill pipe								
Retainer setting depth (ft.)								
Setting depth (ft.)								
Depth of cement on top of CIBP (ft.)								
Cement used								
Volume pumped (cu. ft.)								
Depth of top of plug (ft.)								
Depth of top of plug, if tagged (ft.)								
Weight (lbs/gal)								
Weight of cement								
Seal and squeeze (YES/NO)								

LEAD SLURRY: EXTEND CEMENT  
 1/2" SEAL, 25 CENT PUMP, 1/2" IN CALIBER CHUCK, IN  
 JACKS AND BBS BACK TO SURFACE (50-60 PSI/100)

In Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this cement plugs in this well as shown in the report was performed by me or under my with sides of this form are true, correct, and complete, to the best of my knowledge. This

Manuel Dominguez SS III

1301. W. Webb St.

Ann E. Ritchie

2701 Dallas Parkway, Ste 580,

Halliburton

Cementing Company

field, Tx, 79316

State, Zip Code

Signature

575-392-0700

Tel: Area Code

Number

5/27/2017

Date: mo. day yr.

I in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this tion presented in this report, and that data and facts presented on both sides of this This certification covers all well data.

Regulatory

Plano, TX 75093

432-684-6381

12/06/17

Form W-15, Cementing Report



# RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

## CEMENTING REPORT

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

### OPERATOR INFORMATION

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

### WELL INFORMATION

District No.: 7C	County: HEMPHIL	Drilling Permit No.: 825446
Well No.: 3042A	API No.: 383-89859	Lease No.: 19444
Lease Name: UNIVERSITY ORANGE	Field No.: 85279200	
Field Name: SPRABERRY (TREND AREA)		

### I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production		
Drilled hole size (in.): 8 1/2"	Depth of drilled hole (ft.): 17,255'	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: 140
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 17,255'	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): 1851'	Cementing date: 6/23/2017

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	645	C	0.125 LBM POLY-E-FLAKE	1814	7075
2	1700	C	2 LBM BOL-SEAL, 0.125 LBM POLY-E-FLAKE	2514	10783
3	150	C	N/A	324	1397
Total	2495			4652	19255

### II. CASING CEMENTING DATA

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

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

### III. CASING CEMENTING DATA

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

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

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

#### REMARKS

SO# 0904076190

**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.

**CASEY WILSON - SERVICE SUPERVISOR**

**Halliburton**

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

Cementing Company

Odessa, TX, 79763

*[Signature]*  
Signature

432-571-8600

6/23/17

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

*[Signature]*  
Signature

2701 Dallas Parkway, Ste 580, Plano, TX 75093

432-684-6381

12/6/17

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

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

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

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

**RE: Lease:** UNIVERSITY ORANGE

**Address1:** 2701 DALLAS PARKWAY STE 580

**Address2:**

**Well No:** 1042A

**City:** PLANO

**Sec:** 4 **Block:** 1

**State:** TX

**County:** REAGAN

**Survey Name:** UNIVERSITY LANDS

**SWR13EX Application Number:** 14674

**Drilling Permit No:** 825646

### SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the **LEASE NAME:** UNIVERSITY ORANGE ;  
**WELL NUMBER:** 1042A 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.: 183978

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: 08/16/2017
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 825646	
Lease Name UNIVERSITY ORANGE	Lease/ID No. 19444	Well No. 1042A
County REAGAN	API No. 42- 383-39859	

## 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

Name (print)

Title

(432) 684-6381

Phone

12/07/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



# PHOENIX

TECHNOLOGY SERVICES

MD  
1:240  
Feet

MWD Gamma / ROP (5")

Client: PT Petroleum

Well Name: University Orange 1042A

API/UWID: 4238339859

County: Reagan

Permit #: 825646

State: Texas

Field: Wolfcamp A2

Country: USA

Longitude: 101° 43' 56.79375 W

Latitude: 31° 7' 44.05837 N

## Personnel

Rig Name: Precision 312

Job Number: 61364

Ground Level: 2769.00 ft

Kelly Bushing: 2795.00 ft

Permanent Datum: Mean Sea Level

Drilling Measured From: Kelly Bushing

Spud Date: May 26, 2017

Bottom Hole Temp: 170 °F

Log Start Depth: 1300.00 ft

Log End Depth: 17300.00 ft

### Company Representative

Joe Kriethe

### Geologist

Gary Hampton

### Directional Driller(s)

Paul Oates

Nathan Adams

### MWD Operator(s)

Piers Duffy

Andrew Nelson

## Comments:

## Main Leg

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## Operational Run Summary

61364

	Run 1	Run 2	Run 3	Run 4
Run Start Depth (ft)	0.00	2136.39	7029.00	11788.20
Run End Depth (ft)	2136.39	7029.00	11788.20	17255.04
Run Start Date	6/10/2017	6/12/2017	6/14/2017	6/17/2017
Run Start Time	5:46 PM	9:18 AM	9:22 AM	5:41 PM
Run End Date	6/12/2017	6/14/2017	6/17/2017	6/20/2017
Run End Time	8:25 AM	5:46 AM	8:59 AM	3:35 AM

## Tool Information Summary

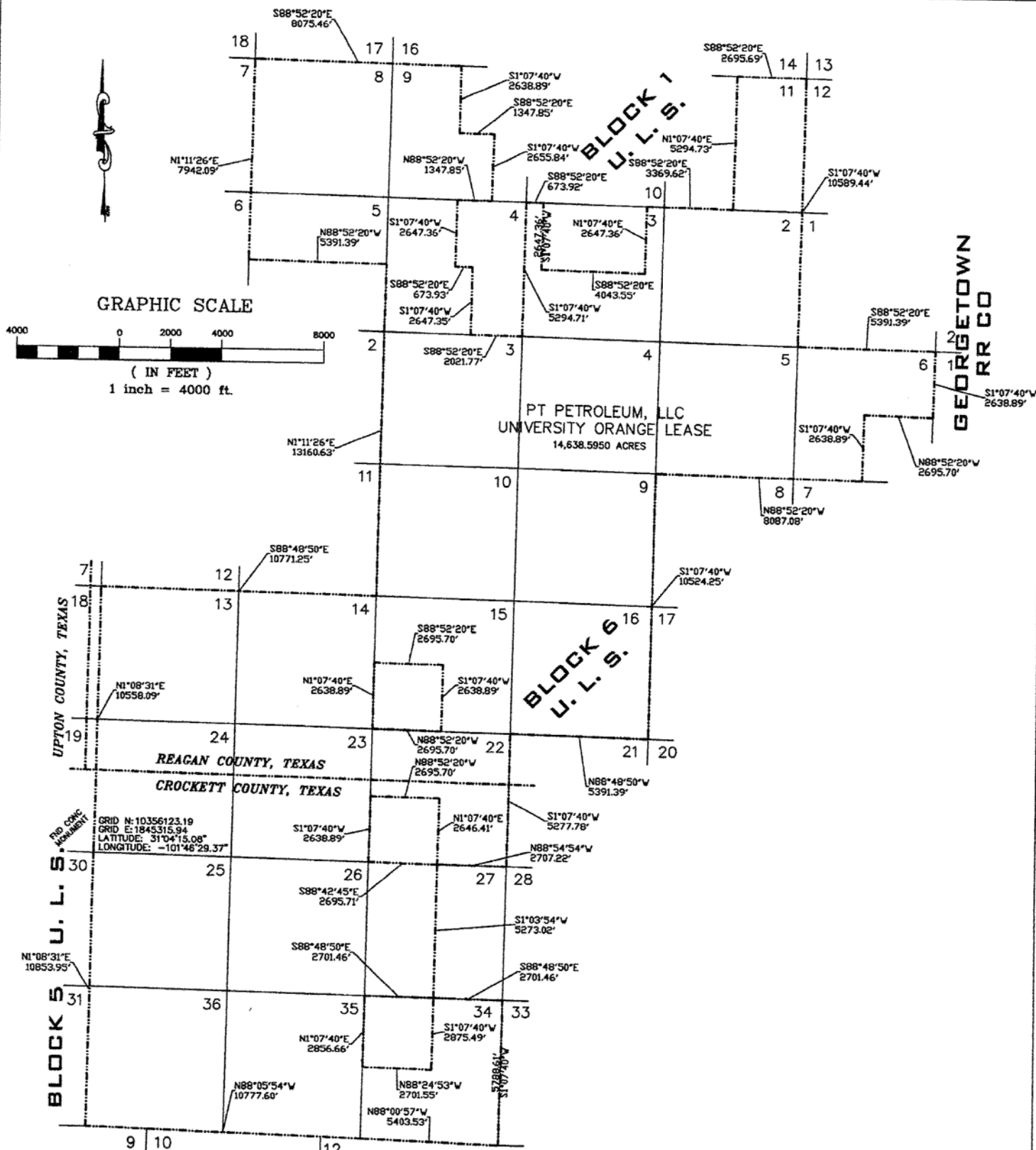
61364

	Run 1	Run 2	Run 3	Run 4
Gamma Probe Serial No	EGNF0185	EGNF0185	EGNF0124	EGNF0185
Probe Cal Ratio	1	1	1	1
Gamma Scale Factor	2.88	2.88	2.88	2.83
Tool Carrier ID (in)	4.490	4.490	4.490	4.490
Tool Carrier OD (in)	6.560	6.560	6.560	6.560
Survey-to-Bit (PTB) (ft)	55.00	53.00	50.00	53.00
Gamma-to-Bit (GTB) (ft)	51.85	49.43	46.80	49.33
Annular Pressure-to-Bit (APTb) (ft)	0.00	0.00	0.00	0.00



Address	City	State	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
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## SECTION VII. REMARKS



**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.

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]*  
RJ DAUM  
TEXAS RP#S 4826



**SCHUMANN ENGINEERING CO., INC.**

REGISTERED PROFESSIONAL LAND SURVEYORS

REGISTERED PROFESSIONAL CIVIL ENGINEERS

**Civil Engineering**  
TEXAS FIRM NO. F1880

**Land Surveying**  
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**  
**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  
SCALE: 1" = 4000'

PROJECT: 74957PT  
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**Operator No.:** 682074**API Number:**  
**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.

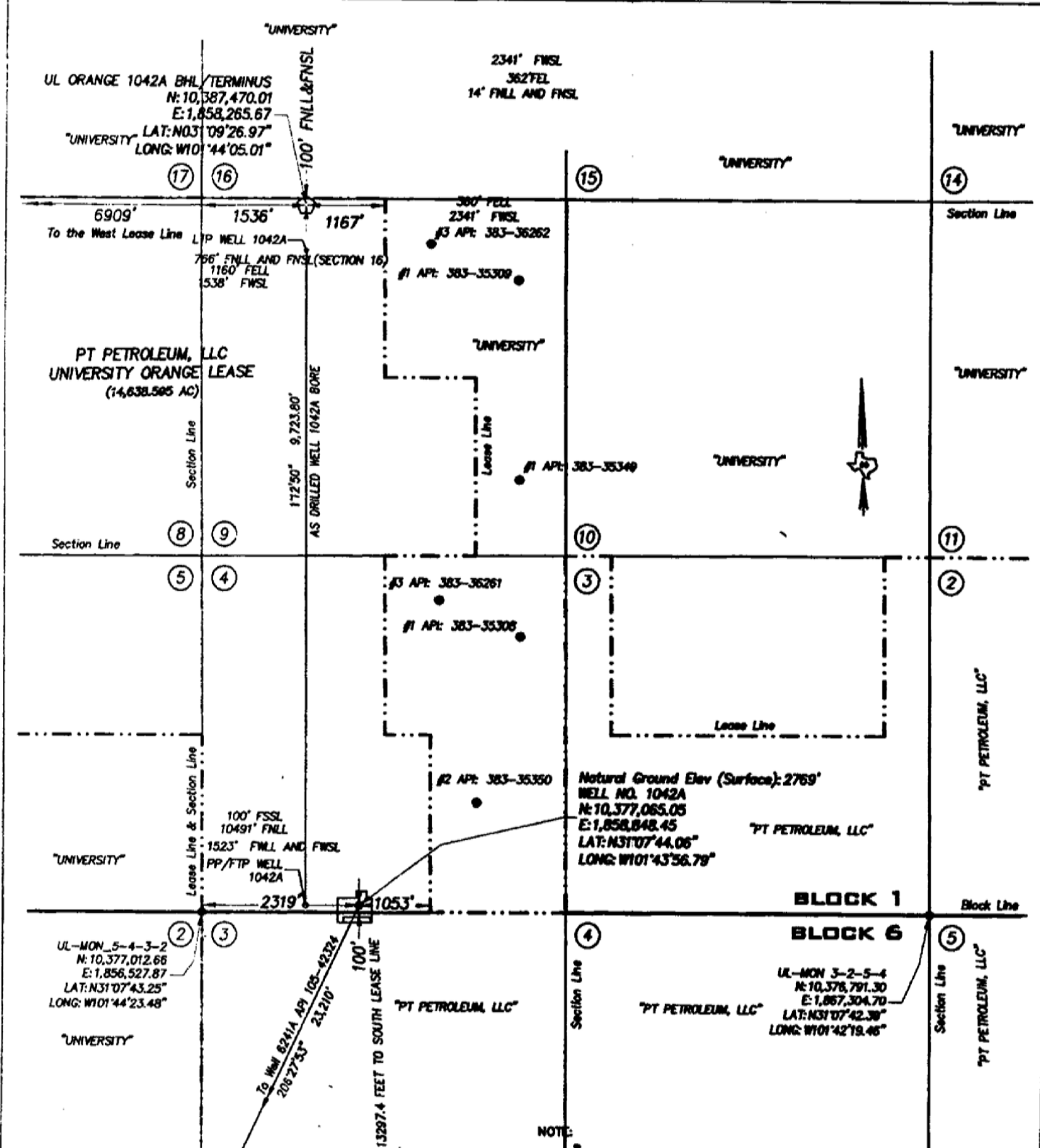
This recommendation is applicable to all wells within a radius of 650 feet of this location.

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).

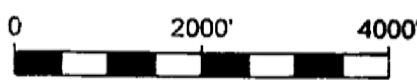
This determination is based on information provided when the application was submitted on 04/17/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

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.

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

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  
RAMON WHICH IS THE NEAREST TOWN IN THE COUNTY OF THE WELL SITE.

LOCATION PLAT

PT PETROLEUM LLC  
AS DRILLED  
WELL NO. 1042A  
UNIVERSITY ORANGE LEASE  
SURFACE LOCATION:  
100 FEET FROM THE SOUTH LINE AND  
2319 FEET FROM THE WEST LINE  
SECTION 4, BLOCK 1  
UNIVERSITY LAND SURVEY  
BOTTOM HOLE LOCATION:  
100 FEET FROM THE NORTH LINE AND  
1536 FEET FROM THE WEST LINE  
SECTION 9, , BLOCK 1  
UNIVERSITY LAND SURVEY

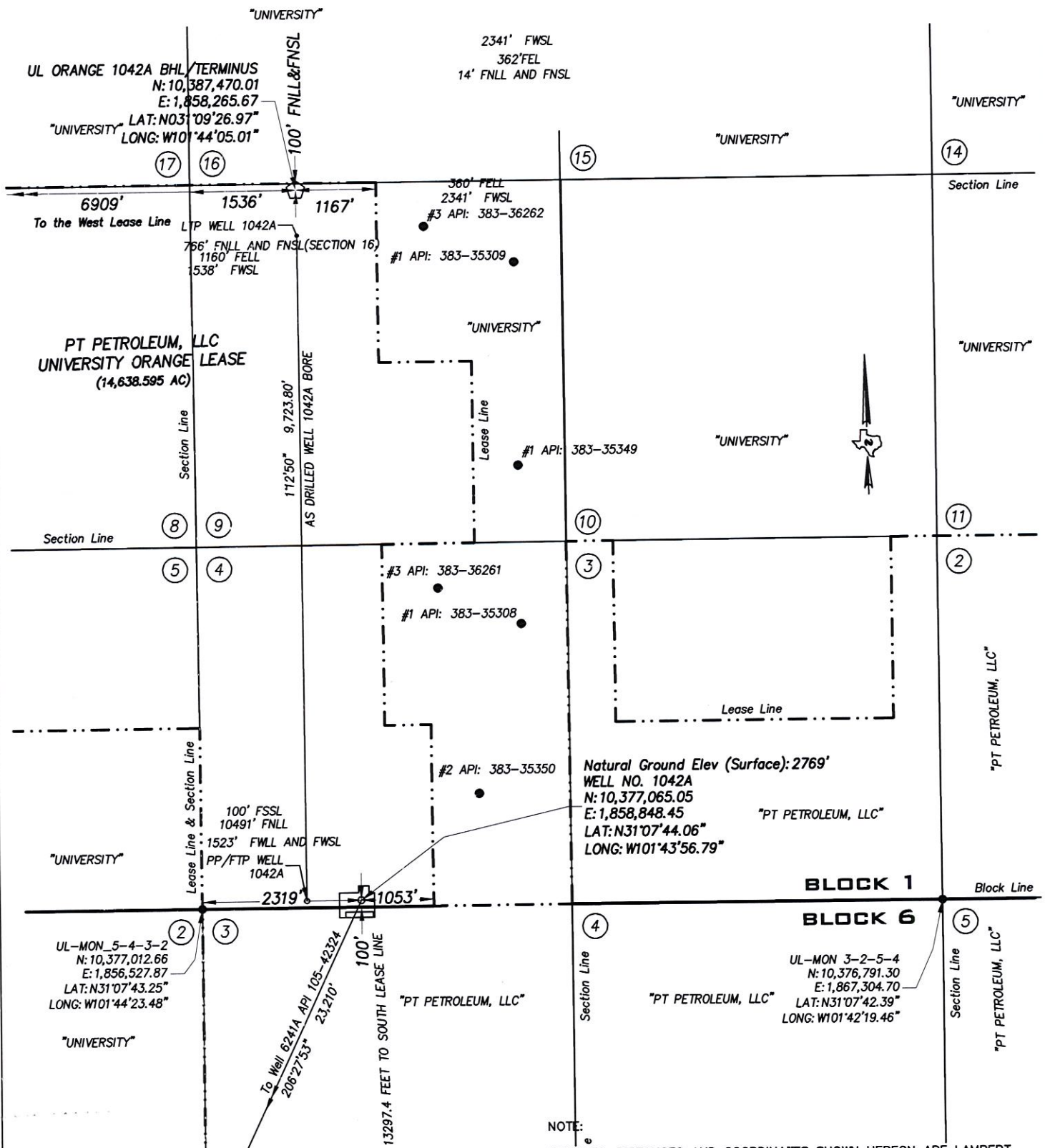
REAGAN COUNTY, TEXAS

QUAD: TEXON PROJECT: 75874PTP  
SCALE: 1" = 2000' rev 11-28-17 JOB NO: 75,8748









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 RANKIN WHICH IS THE NEAREST TOWN IN THE COUNTY OF THE WELL SITE.

## LOCATION PLAT

PT PETROLEUM LLC  
AS DRILLED  
WELL NO. 1042A  
UNIVERSITY ORANGE LEASE  
SURFACE LOCATION:

100 FEET FROM THE SOUTH LINE AND  
2319 FEET FROM THE WEST LINE  
SECTION 4, BLOCK 1

UNIVERSITY LAND SURVEY  
BOTTOM HOLE LOCATION:

100 FEET FROM THE NORTH LINE AND  
1536 FEET FROM THE WEST LINE  
SECTION 9, , BLOCK 1  
UNIVERSITY LAND SURVEY

REAGAN COUNTY, TEXAS

QUAD: TEXON  
SCALE: 1" = 2000' rev 11-28-17

PROJECT: 75874PTP  
JOB NO: 75,874B

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CORRECT REPRESENTATION THEREOF.

DATED THIS 21ST DAY OF NOVEMBER, 2017

RJ DAUM  
TEXAS RPLS 4826



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