



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

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

Status: Approved  
Date: 01/18/2017  
Tracking No.: 166229

**OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,**

OPERATOR INFORMATION			
Operator	PERMIAN RESOURCES, LLC	Operator	655836
Operator	700 MILAM STE 3100 HOUSTON, TX 77002-0000		

WELL INFORMATION			
API	42-383-39597	County:	REAGAN
Well No.:	0606HS	RRC District	7C
Lease	UNIVERSITY 10 RE	Field	LIN (WOLFCAMP)
RRC Lease	18869	Field No.:	53613750
Location	Section: 6, Block: 10, Survey: UNIVERSITY LANDS, Abstract:		
Latitude		Longitud	
This well is	6.74	miles in a	NORTH
direction from	BIG LAKE,		
which is the nearest town in the			

FILING INFORMATION			
Purpose of	Initial Potential		
Type of	New Well		
Well Type:	Producing	Completion or Recompletion	09/23/2016
<u>Type of Permit</u>		<u>Date</u>	<u>Permit No.</u>
Permit to Drill, Plug Back, or		03/16/2016	814404
Rule 37 Exception			
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	03/19/2016	Date of first production after rig	09/23/2016
Date plug back, deepening, drilling operation	03/19/2016	Date plug back, deepening, recompletion, drilling operation	05/13/2016
Number of producing wells on this lease this field (reservoir) including this	5	Distance to nearest well in lease & reservoir	272.0
Total number of acres in	630.90	Elevation	2538 GL
Total depth TVD	7217	Total depth MD	17466
Plug back depth TVD	7217	Plug back depth MD	17466
Was directional survey made other inclination (Form W-	Yes	Rotation time within surface casing Is Cementing Affidavit (Form W-15)	157.2 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	674.0 Feet from the	1282.0 Feet from the	Off Lease : No South Line and East Line of the UNIVERSITY 10 RE Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	Well No.	Prior Service Type
PACKET:	N/A		

W2: N/A

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

**GAU Groundwater Protection Determination**                      **Depth**                      550.0                      **Date**                      03/14/2016  
**SWR 13 Exception**    **Depth**

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

<b>Date of</b>	11/24/2016	<b>Production</b>	Pumping
<b>Number of hours</b>	24	<b>Choke</b>	64
<b>Was swab used during this</b>	No	<b>Oil produced prior to</b>	13200.00
<b>PRODUCTION DURING TEST PERIOD:</b>			
<b>Oil</b>	1326.00	<b>Gas</b>	1984
<b>Gas - Oil</b>	1496	<b>Flowing Tubing</b>	301.00
<b>Water</b>	1934		
<b>CALCULATED 24-HOUR RATE</b>			
<b>Oil</b>	1326.0	<b>Gas</b>	1984
<b>Oil Gravity - API - 60.:</b>	43.3	<b>Casing</b>	269.00
<b>Water</b>	1934		

**CASING RECORD**

<u>Ro</u>	<u>Type of Casing</u>	<u>Casing Size (in.)</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Multi - Stage</u>	<u>Multi - Tool Shoe</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
1	Surface	13 3/8	17 1/2	720			CLASS C	900	1444.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	6505			CLASS C 50/50	1180	2894.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 3/4	17466			CLASS H 50/50	4270	5461.0	0	Circulated to Surface

**LINER RECORD**

<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

**TUBING RECORD**

<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	6812		/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 7646	17232.0

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

**Was hydraulic fracturing treatment**                      Yes

**Is well equipped with a downhole sleeve?**                      No                      **If yes, actuation pressure**

**Production casing test pressure (PSIG) hydraulic fracturing**                      9000                      **Actual maximum pressure (PSIG) during fracturin**                      8145

**Has the hydraulic fracturing fluid disclosure been**                      Yes

<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>
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**FORMATION RECORD**

<u>Formations</u>	<u>Encountere</u>	<u>Depth TVD</u>	<u>Depth MD</u>	<u>Is formation</u>	<u>Remarks</u>
GRAYBURG	Yes	2718.0	2734.0	Yes	
QUEEN	Yes	2151.0	2158.0	Yes	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	3032.0	3054.0	Yes	
	No			No	PINCHED OUT IN THE AREA
SPRABERRY	Yes	5528.0	5584.0	Yes	
WOLFCAMP	Yes	7078.0	7280.0	Yes	
STRAWN	No			No	BELOW TD
FUSSELMAN	No			No	BELOW TD
ELLENBURGER	No			No	BELOW TD

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 FOR THIS WELL IS 6,714; THIS IS THE 1ST STACKED LATERAL TO API# 383-39595

**RRC REMARKS****PUBLIC COMMENTS:**

[RRC Staff 2016-12-20 15:14:02.216] Surveys from 15535' to 17466' tie in with surveys from 798' to 15501' at a depth of 15501'. Sidetrack KOP is below the top of the correlative interval for the Lin (Wolfcamp) field.

**CASING RECORD :****TUBING RECORD:****PRODUCING/INJECTION/DISPOSAL INTERVAL :****ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :****POTENTIAL TEST DATA:****OPERATOR'S CERTIFICATION**

<b>Printed</b>	Rian Hinds	<b>Title:</b>	Regulatory Technician
<b>Telephone</b>	(405) 968-4451	<b>Date</b>	01/18/2017



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION
Operator Name: Permian Resources, LLC
Cementor Name: Crest Pumping Technologies
Operator P-5 No.: 655836
Cementor P-5 No.: 189898

WELL INFORMATION
District No.: 7C
Well No.: 0606HA
Lease Name: University 10RE
Field Name: Lin (Wolfcamp)
County: Reagan
API No.: 42-383-39597
Drilling Permit No.: 814404

I. CASING CEMENTING DATA
Type of casing: [X] Surface
Drilled hole size (in.): 17 1/2
Depth of drilled hole (ft.): 720
Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 13 3/8
Casing weight (lbs/ft) and grade: 54.5# J-55
No. of centralizers used: 6
Was cement circulated to ground surface (or bottom of cellar) outside casing? [X] YES
Setting depth shoe (ft.): 720
Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date: 3/19/2016

SLURRY table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

II. CASING CEMENTING DATA
Type of casing: [ ] Surface
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 table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

III. CASING CEMENTING DATA
Type of casing: [ ] Surface
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 table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)





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

OPERATOR INFORMATION

Table with 2 columns: Field Name, Value. Operator Name: Permian Resources, Operator P-5 No.: 655836, Cementer Name: Crest Pumping Technologies, Cementer P-5 No.: 189898

WELL INFORMATION

Table with 2 columns: Field Name, Value. District No.: 7C, County: Reagan, Well No.: 0606HS, API No.: 42-383-39597, Drilling Permit No.: 814404, Lease Name: University 10 RE, Lease No.: 18869, Field Name: Lin (Wolfcamp), Field No.: 53613750

I. CASING CEMENTING DATA

Form section for I. CASING CEMENTING DATA. Includes checkboxes for Conductor, Surface, Intermediate (checked), Liner, Production. Fields for drilled hole size, depth, casing weight, setting depth shoe, etc.

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Contains 3 rows of slurry data and a total row.

II. CASING CEMENTING DATA

Form section for II. CASING CEMENTING DATA. Includes checkboxes for Surface, Intermediate, Production, Tapered production, Multi-stage cement shoe, Multiple parallel strings. Fields for tapered string dimensions, casing weight, etc.

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Contains 3 rows of slurry data and a total row.

III. CASING CEMENTING DATA

Form section for III. CASING CEMENTING DATA. Includes checkboxes for Surface, Intermediate, Production, Tapered production, Multi-stage cement/DV tool, Multiple parallel strings. Fields for tapered string dimensions, casing weight, etc.

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.). Contains 3 rows of slurry data and a total row.





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CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: Permian Resources Operator P-5 No.: 655836
Cementer Name: Crest Pumping Technologies Cementer P-5 No.: 189898

WELL INFORMATION

District No.: 7C County: Reagan
Well No.: 0606HS API No.: 42-383-39597 Drilling Permit No.: 814404
Lease Name: University 10 RE Lease No.: 18869
Field Name: Lin (Wolfcamp) Field No.: 53613750

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner Production
Drilled hole size (in.): 8 3/4 Depth of drilled hole (ft.): 17,466 Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 5 1/2 Casing weight (lbs/ft) and grade: 17# P-110 No. of centralizers used: 130
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES NO
Setting depth shoe (ft.): 17,466 Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): 0 Cementing date: 5/12/2016

SLURRY

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

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

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

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

Table with 6 columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)



Tracking No.: 166229

**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: PERMIAN RESOURCES, LLC	District No. 7C	Completion Date: 09/23/2016
Field Name LIN (WOLFCAMP)	Drilling Permit No. 814404	
Lease Name UNIVERSITY 10 RE	Lease/ID No. 18869	Well No. 0606HS
County REAGAN	API No. 42- 383-39597	

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

Rian Hinds  
Signature  
PERMIAN RESOURCES, LLC  
Name (print)

Regulatory Technician  
Title  
(405) 968-4451  
Phone  
12/13/2016  
Date

-FOR RAILROAD COMMISSION USE ONLY-



**Gamma Ray Build and Lateral**

Job #: 168058 Well ID: 814404  
 Scale: 5" = 100 ft Type: MD

**Well Site Information**

Oil Company	Cathedral Energy Services
Surface Location	University Lands Block 10, Sec. 6
Well Name	University 10 RE 0606HS
API	42-383-39597
Field	Lin (Wolfcamp)
State	TX
Country	USA

**Surface Coordinates**

Well Type	Horizontal
Latitude	31.288955°
Longitude	-101.470382°
N / S Coordinates	591,819.33 ft
E / W Coordinates	1,644,839.60 ft
Azimuth Reference	True North
Grid Convergence	0.59°

**MWD Engineers**

Lead Hand	T. Studer
Second Hand	E. Corrales

Perm Datum Mean Sea Level Elevation 2,538.00 ft  
 Log depth measured from KB is 21.00 ft above perm datum. KB = 2,559.00 ft  
 Total Depth 17,466.00 ft Spud Date Apr/21/2016 End Date May/10/2016  
 (MD) Log Interval Start Depth 796.92 ft End Depth 16,450.89 ft

Bore Hole Record		
Hole Size	From	To
12.25 in	720.00 ft	6,520.00 ft
8.75 in	6,520.00 ft	17,466.00 ft

Casing Record				
Type	Size	WGT	From	To
Surface	13.38 in	54.5	0.00 ft	720.00 ft
Intermediate	9.63 in	40	0.00 ft	6,505.00 ft

**CERTIFICATE OF  
 POOLING AUTHORITY**

**P-12**

Revised 05/2001

1. Field Name(s) <b>Lin (Wolfcamp)</b>	2. Lease/ID Number (if assigned)	3. RRC District Number <b>7C</b>
4. Operator Name <b>American Energy-Perm Basin, LLC</b>	5. Operator P-5 Number <b>017996</b>	6. Well Number <b>0606HS</b>
7. Pooled Unit Name <b>University 10 RE</b>	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County <b>Reagan</b>	11. Total acres in pooled unit <b>630.90</b>	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT <i>(See inst. #7 below)</i>	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
1	University Lands	313.100	<input type="checkbox"/>	<input type="checkbox"/>
2	University Lands	317.800	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

CERTIFICATION:

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

*Rena Carter*  
 Signature

Rena Carter

Sr.Regulatory Specialist      rena.carter@aep-lp.com

Print Name

03/15/2016

(405) 607-5559

Title

E-mail (if available)

Date

Phone

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

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

Clear Form

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 166229

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the PERMIAN RESOURCES, LLC ,

UNIVERSITY 10 RE , No. 0606HS ; that such well is  
LEASE OPERATOR WELL

completed in the LIN (WOLFCAMP) Field, REAGAN County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

0.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 12/13/2016 Signature Rian Hinds

Telephone (405) 968-4451 Title Regulatory Technician  
AREA CODE





# RAILROAD COMMISSION OF TEXAS

1701 N. Congress  
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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

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

<b>Date Issued:</b>	14 March 2016	<b>GAU Number:</b>	152286
<b>Attention:</b>	AMERICAN ENERGY-PERM PO BOX 13710 OKLAHOMA CITY, OK 73113	<b>API Number:</b>	
<b>Operator No.:</b>	017996	<b>County:</b>	REAGAN
		<b>Lease Name:</b>	University 10 RE
		<b>Lease Number:</b>	
		<b>Well Number:</b>	0620HD
		<b>Total Vertical Depth:</b>	13000
		<b>Latitude:</b>	31.288955
		<b>Longitude:</b>	-101.470382
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-10; Section-6

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 550 feet must be protected.

This recommendation is applicable to all wells within a radius of 500 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 03/14/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

NAD 27, Central Zone 4203

Surface Hole Location (SEC. 6)  
 Latitude: 31.288955° N  
 Longitude: 101.470382° W  
 X=1644839.60  
 Y=591819.33  
 Elev.=2538'  
 674' FSL & 1282' FEL

Point of Penetration (SEC. 6)  
 Latitude: 31.288251° N  
 Longitude: 101.471248° W  
 X=1644566.49  
 Y=591565.97  
 415' FSL & 1552' FEL

First Take Point (SEC. 6)  
 Latitude: 31.289190° N  
 Longitude: 101.471356° W  
 X=1644536.34  
 Y=591907.79  
 756' FSL & 1587' FEL

Last Take Point (SEC. 32)  
 Latitude: 31.315510° N  
 Longitude: 101.471344° W  
 X=1644638.08  
 Y=601480.03  
 284' FNL & 1624' FEL

Bottom Hole Location (SEC. 32)  
 Latitude: 31.316150° N  
 Longitude: 101.471277° W  
 X=1644661.36  
 Y=601712.79  
 51' FNL & 1604' FEL

Tract	Lessor	Called Acreage	% of Total
1	University Lands	313.1000 Acres	49.5275
2	University Lands	317.8000 Acres	50.3725
Total		630.9000 Acres	100.0000

G. C. & S. F. RR CO Survey  
 Section 1, A-163

X=1646265.93  
 Y=601732.22

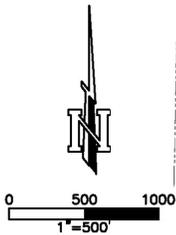
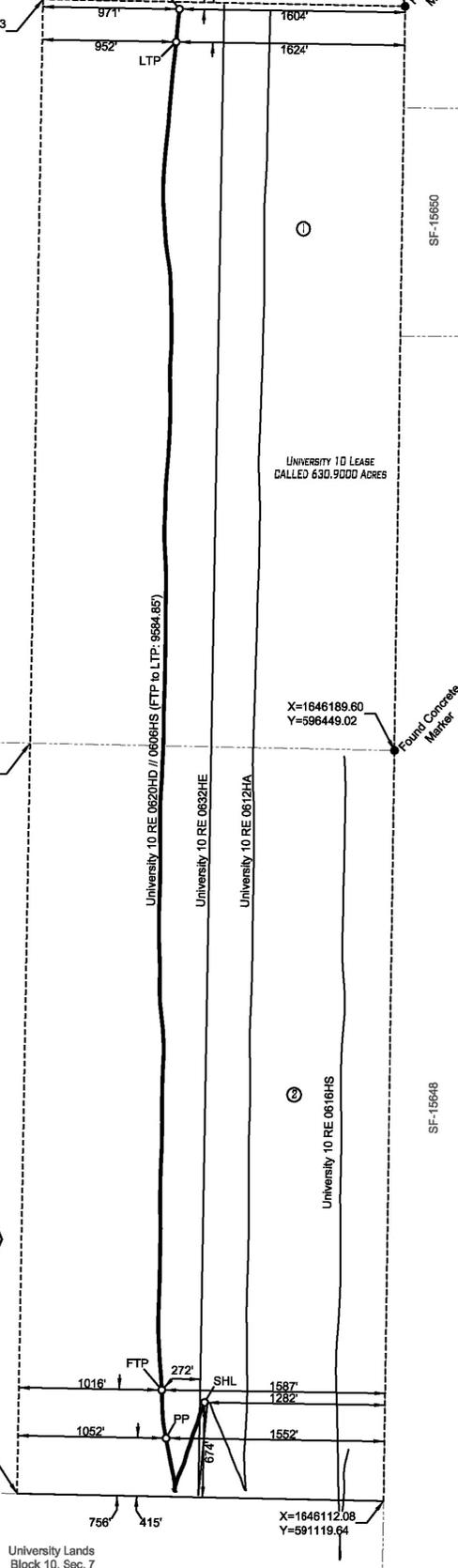
Found Concrete Marker

Unit Boundary Distance	
SHL	674' FSL & 1282' FEL
PP	415' FSL & 1052' FNL
FTP	756' FSL & 1016' FNL
LTP	284' FNL & 952' FNL
BHL	51' FNL & 971' FNL

University Lands  
 Block 58, Sec. 31

University Lands  
 Block 10, Sec. 5

University Lands  
 Block 10, Sec. 6



**PERMIAN RESOURCES**

Well Name  
 UNIVERSITY 10 RE 0606HS

Drilling Field  
 LIN (WOLFCAMP) FIELD

Nearest Town  
 6.74 MILES NORTH OF BIG LAKE, TEXAS



NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The information contained on this plat is intended for the sole use of Permian Resources, LLC.

NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations

I, Damian M. Jagers do hereby certify that the above described well location was surveyed on the ground under my supervision, as shown.

*Damian M. Jagers* 9/7/2016  
 Damian M. Jagers  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 TEXAS REGISTRATION NO. 6269

**XTS**  
 CROSS TIMBERS SURVEYING, LLC

1603 Douthett St., Longview, TX 75601  
 Phone: 940-405-6666  
 email: cross@xts-surveying.com  
 web: www.xtsurveying.net

As-Drilled Plat  
 for  
 Permian Resources, LLC

UNIVERSITY 10 RE 0606HS  
 University Lands Block 10, Section 6  
 University Lands Block 58, Section 32  
 Reagan County, Texas