



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 06/02/2017
Tracking No.: 163726

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

OPERATOR INFORMATION

Operator Name: PACESETTER ENERGY, LLC Operator No.: 633120
Operator Address: 2001 TIMBER CREEK RD FLOWER MOUND, TX 75028-0000

WELL INFORMATION

API No.: 42-003-47375 County: ANDREWS
Well No.: 8H RRC District No.: 08
Lease Name: UNIVERSITY JV 14 Field Name: SHAFTER LAKE (SAN ANDRES)
RRC Lease No.: 46383 Field No.: 82570500
Location: Section: 14, Block: A36, Survey: PSL / BUSTIN, E, Abstract: 698

Latitude: 32.37759 Longitude: -102.67076
This well is located 7.3 miles in a NW
direction from ANDREWS,
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: 10/21/2016

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 07/06/2016 816796
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 08/05/2016 Date of first production after rig released: 10/21/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 08/05/2016 Date plug back, deepening, recompletion, or drilling operation ended: 08/15/2016
Number of producing wells on this lease in this field (reservoir) including this well: 5 Distance to nearest well in lease & reservoir (ft.): 2673.0
Total number of acres in lease: 1807.25 Elevation (ft.): 3162 GR
Total depth TVD (ft.): 4507 Total depth MD (ft.): 12322
Plug back depth TVD (ft.): 4461 Plug back depth MD (ft.): 12294
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 162.0
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: 140.0 Feet from the SW Line and
320.0 Feet from the NW Line of the
UNIVERSITY JV 14 Lease.

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

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

W2: N/A

PACKET:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth (ft.):	1575.0	Date: 07/07/2016
SWR 13 Exception	Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 11/08/2016		Production method: Pumping
Number of hours tested: 24		Choke size: 64/64THS
Was swab used during this test?	No	Oil produced prior to test: 21315.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 1345.00		Gas (MCF): 109
Gas - Oil Ratio: 81		Flowing Tubing Pressure: 225.00
Water (BBLS): 3106		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 1345.0		Gas (MCF): 109
Oil Gravity - API - 60.:	31.0	Casing Pressure: 150.00
Water (BBLS): 3106		

CASING RECORD											
Row	Type of Casing	Casing Hole		Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size	Size	Depth	Stage Tool	Stage Shoe		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	1638			CLASS C	665	1089.0	SURF	Circulated to Surface
2	Conventional Production	5 1/2	8 3/4	12294			35/65 POZ C/50/50 POZ/H	3461	4985.0	ACE	1800 Cement Evaluation Log

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	3748	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 4672	12260.0

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:		6200	
		Actual maximum pressure (PSIG) during hydraulic fracturing:	
		6039	
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.)

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
YATES	Yes	2774.0	2775.0	Yes	
SEVEN RIVERS	Yes	2956.0	2959.0	Yes	
QUEEN	Yes	3672.0	3677.0	Yes	
GRAYBURG	Yes	4053.0	4056.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4392.0	4470.0	Yes	PRODUCING FORMATION
HOLT	No			No	DID NOT ENCOUNTER
GLORIETA	No			No	DID NOT ENCOUNTER
TUBB	No			No	DID NOT ENCOUNTER
CLEARFORK	No			No	DID NOT ENCOUNTER
PERMIAN DETRITAL	No			No	DID NOT ENCOUNTER
LEON	No			No	DID NOT ENCOUNTER
WICHITA ALBANY	No			No	DID NOT ENCOUNTER
SPRABERRY	No			No	DID NOT ENCOUNTER
DEAN	No			No	DID NOT ENCOUNTER
WOLFCAMP	No			No	DID NOT ENCOUNTER
CANYON	No			No	DID NOT ENCOUNTER
PENNSYLVANIAN	No			No	DID NOT ENCOUNTER
MCKEE	No			No	DID NOT ENCOUNTER
STRAWN	No			No	DID NOT ENCOUNTER
FUSSELMAN	No			No	DID NOT ENCOUNTER
DEVONIAN	No			No	DID NOT ENCOUNTER
SILURIAN	No			No	DID NOT ENCOUNTER
ELLENBURGER	No			No	DID NOT ENCOUNTER
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					Yes
Is the completion being downhole commingled (SWR 10)?					No

REMARKS

RRC REMARKS
PUBLIC COMMENTS: [RRC Staff 2017-01-25 14:46:28.115] EDL=7792 feet, max acres=320
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: Ryan Millard	Title: Land Manager
Telephone No.: (972) 691-3332	Date Certified: 05/30/2017



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15

Rev 08/2014

Cementor: Fill in shaded areas.

Operator: Fill in other items

OPERATOR INFORMATION	
Operator Name: pacesetter energy	Operator P-5 No.: 63120
Cementor Name: Schlumberger	Cementor P-5 No.: 754900

WELL INFORMATION	
District No.: 08	County: andrews
Well No.: 8H	API No.: 42-003-47775 Drilling Permit No.: 816796
Lease Name: University JV 14	Lease No.: 463 8308
Field Name: shafter	Field No.: 82570500

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.): 1638	Est. % wash-out or hole enlargement: 100%	
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 36	No. of centralizers used: 1	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 1638	Top of liner (ft.): NA	Setting depth liner (ft.): NA
Hrs. waiting on cement before drill-out: 28	Calculated top of cement (ft.): Surface	Cementing date: 6-Aug-16	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	320	Class C	Remarks	630.4	938
2	345	Class C	Remarks	458.9	700
3					
Total	665			1089.3	1638

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


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


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
#1: 4% D20 + .02% D46+ 2% s001
#2: .13lb/sk d130+.1% d13
#3:
#4:

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.

clint thompson, FS	Schlumberger	
Name and title of cementer's representative	Cementing Company	Signature
7104 W County Rd 116	Midland TX 79706	(432) 681-1100
Address	City, State, Zip Code	Tel: Area Code Number
		August 6, 2016
		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.

Ryan Millard	Land Manager	
Typed or printed name of operator's representative	Title	Signature
2001 Timber Creek Rd	Flourmond, TX 75028	972-641-3332
Address	City, State, Zip Code	Tel: Area Code Number
		11/11/2016
		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/readac\\$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/readac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II, Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III, Casing Cementing Data section by selecting the type of casing and Multi-stage cement/UV 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.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev 08/2014

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

OPERATOR INFORMATION

Operator Name: **Pacesetter Energy, Inc.** Operator P-S No.: **623126**
Cementer Name: **Schlumberger** Cementer P-S No.: **754900**

WELL INFORMATION

District No.: **08** County: **Andrews**
Well No.: **8H** API No.: **42-003-47375** Drilling Permit No.: **816796**
Lease Name: **University JV 14** Lease No.: **4638308**
Field Name: **Shafter Lake (San Andres)** Field No.: **82570500**

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☒ Production
Drilled hole size (in.): **8 3/4** Depth of drilled hole (ft.): **12320** Est. % wash-out or hole enlargement: **60%**
Size of casing in O.D. (in.): **5 1/2** Casing weight (lbs/ft) and grade: **17.480** No. of centralizers used: **119**
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ Yes ☒ No If no for surface casing, explain in Remarks: **NA**
Setting depth shoe (ft.): **12320** Top of liner (ft.): **NA**
Setting depth liner (ft.): **NA**
Hrs. waiting on cement before drill-out: **24** Calculated top of cement (ft.): **1600** Cementing date: **17-Aug-16**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	446	35:65 Poz/C	Remarks	1306.8	3350
2	3015	50:50 Poz/H	Remarks	3678.3	8973
3					
Total	3461			4985.1	12322

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings
Drilled hole size (in.): **8 3/4** Depth of drilled hole (ft.): **12320** Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): **5 1/2** Casing weight (lbs/ft) and grade:
Tapered string drilled hole size (in.)
Upper: Lower: Tapered string depth of drilled hole (ft.)
Upper: Lower:
Tapered string size of casing in O.D. (in.)
Upper: Lower: Tapered string casing weight (lbs/ft) and grade
Upper: Lower: Tapered string no. of centralizers used
Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ Yes ☐ No Setting depth tool (ft.):
Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

SLURRY

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

III. CASING CEMENTING DATA

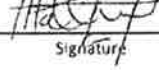
Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings
Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers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

SLURRY


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

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							
REMARKS							
TXI+10%D020+5lb/skD042+0.2%D046+0.4%D238+0.13lb/skD130+10%D154+0.1%D208+0.6%D013 50:50 Poz/H+4%D020+0.15%D013+0.2%D046+0.2%D065+0.4%D255							

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.

<u>Adam Carney (Field Specialist)</u>	<u>Schlumberger</u>	
Name and title of cementer's representative	Cementing Company	Signature
<u>1105 West Bender</u>	<u>Hobbs</u>	<u>NM</u>
Address	City,	State,
<u>88240</u>	<u>575-393-6186</u>	<u>August 17, 2016</u>
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.

<u>Ryan Millard</u>	<u>Land Manager</u>	
Typed or printed name of operator's representative	Title	Signature
<u>2001 Timber Creek Road Flower Mound, TX 75026</u>	<u>972-691-3332</u>	<u>11/8/2016</u>
Address	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.

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- 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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II, Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III, Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

Tracking No.: 163726

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: PACESETTER ENERGY, LLC	District No. 08	Completion Date: 10/21/2016
Field Name SHAFTER LAKE (SAN ANDRES)	Drilling Permit No. 816796	
Lease Name UNIVERSITY JV 14	Lease/ID No. 46383	Well No. 8H
County ANDREWS	API No. 42- 003-47375	

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). _____

Ryan Millard

Signature

PACESETTER ENERGY, LLC

Name (print)

Land Manager

Title

(972) 691-3332 EXT 205

Phone

01/27/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



GAMM

5"
FE

COMPANY : Pacsetter Energy WELL : University JV 14-8H FIELD : Shafter Lake (San Andres) COUNTY : ANDREWS STATE : TX COUNTRY : UNITED STATES API No.: 42-003-47375	COMPANY : Pacsetter Energy WELL : University JV 14-8H FIELD : Shafter Lake (San Andres) COUNTY : ANDREWS STATE : TX COUNTRY : UNITED STATES API WELL No.: 42-003-47375			
	WELL LOCATION LAT:32°22'40"N LON:102°40'16"W X:6,845,915' Y:681,099' NAD83 SEC: TWP: RANGE:			
DEPTH REF. : ROTARY TABLE ELEVATION : 22.50 ft (ROTARY TABLE - GROUND LEVEL) ALTITUDE : 3162.00 ft (GROUND LEVEL - MEAN SEA LEVEL)				
<div style="display: flex; justify-content: space-between;"> BOREHOLE RECORD DEVIATION RECORD </div>				
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM
12 1/2	0	1638	00 +/-1	0
8 3/4	0	12322	00 - 90	3873
			90 +/-2	4818
CASING RECORD				
CASING SIZE in	FROM ft	TO ft		
9 5/8	0	1628		
			DRILLING Co.: NABORS RIG : M58 LWD UNIT No.: TRAILER DIST SPUD DATE : 04-AUG-16 LWD START DATE : 07-AUG-16 LWD END DATE : 15-AUG-16	



GAMM

5"
FE

COMPANY : Pacemaker Energy
WELL : University JV 14-8H
FIELD : Shafter Lake (San Andres)
COUNTY : ANDREWS
STATE : TX
COUNTRY : UNITED STATES
API No.: 42-003-47375

COMPANY : Pacemaker Energy
WELL : University JV 14-8H
FIELD : Shafter Lake (San Andres)
COUNTY : ANDREWS
STATE : TX
COUNTRY : UNITED STATES
API WELL No.: 42-003-47375

WELL LOCATION

LAT:32°22'40"N LON:102°40'16"W
X:6,845,915' Y:681,099' NAD83

SEC: TWP: RANGE:

DEPTH REF. : ROTARY TABLE

ELEVATION : 22.50 ft (ROTARY TABLE - GROUND LEVEL)

ALTITUDE : 3162.00 ft (GROUND LEVEL - MEAN SEA LEVEL)

BOREHOLE RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM
12 1/2	0	1638	00 +/-1	0
8 3/4	0	12322	00 - 90	3873
			90 +/-2	4818

CASING RECORD

CASING SIZE in	FROM ft	TO ft	
9 5/8	0	1628	

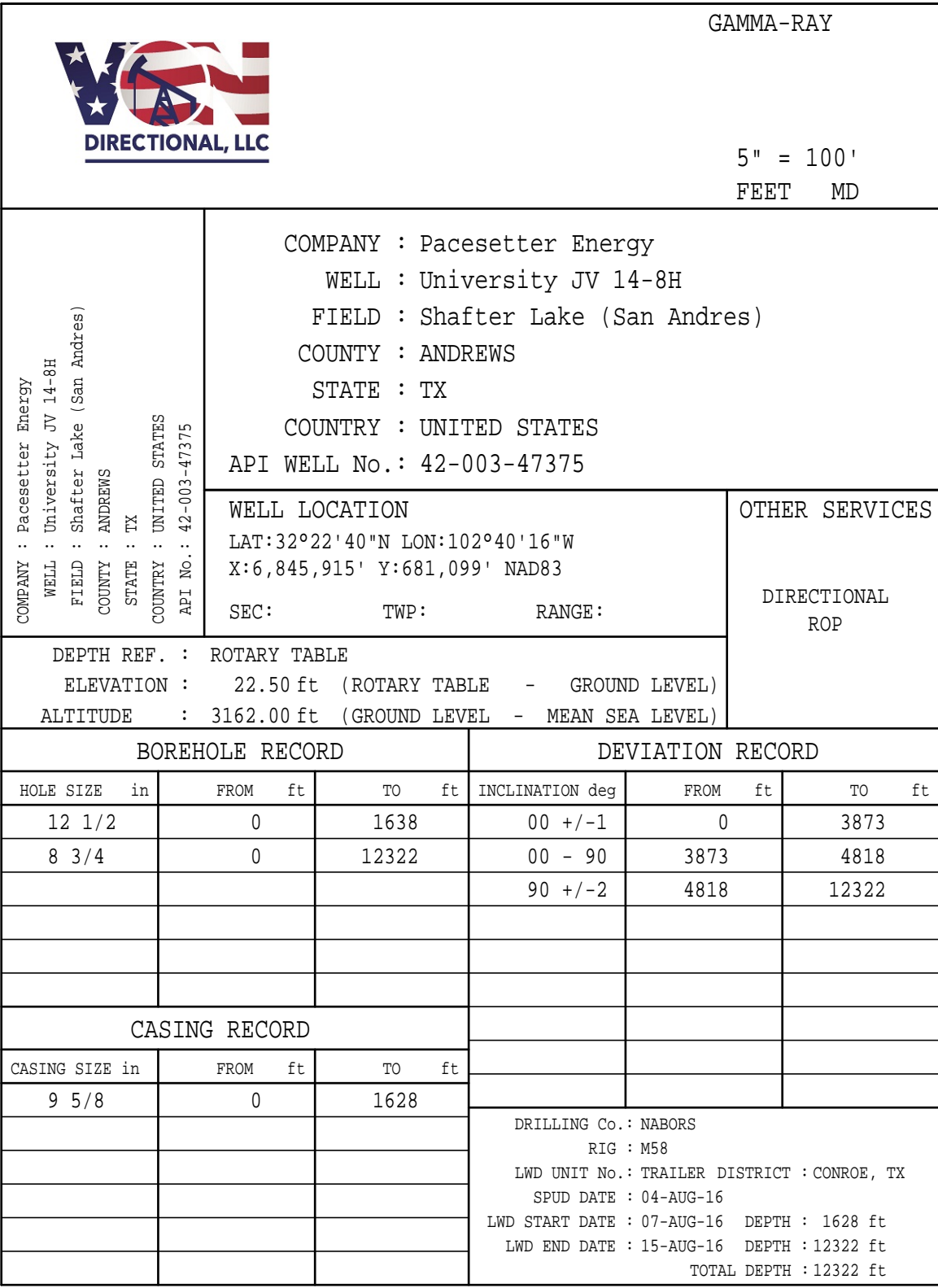
DRILLING Co.: NABORS
RIG : M58

LWD UNIT No.: TRAILER DIST

SPUD DATE : 04-AUG-16

LWD START DATE : 07-AUG-16 D

LWD END DATE : 15-AUG-16 D



RUN DATA						
RUN NUMBER	1	2				
START DATE	07-AUG-16	09-AUG-16				
START TIME	21:00	17:30				
END DATE	09-AUG-16	15-AUG-16				
END TIME	16:30	16:00				
DEPTH IN ft	1638	4279				
DEPTH OUT ft	4279	12322				
LOG TOP ft	1628	4208				
LOG BOTTOM ft	4208	12279				
HOLE SIZE in	8 3/4	8 3/4				
MUD DATA @ ft	4157	11571				
MUD TYPE	WATER BASED	WATER BASED				
DENSITY lb/gal	10.00	10.00				
VISCOSITY s/qt	29	29				
pH	9.0	8.5				
FLUID LOSS cm3/30						
SALINITY ppm						
Rm ohmm @ deg F	@	@				
Rmf ohmm @ deg F	@	@				

**RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36**

FORM H-9
12/12/77

FILE WITH
DISTRICT OFFICE
IN TRIPLICATE

1. Operator <u>Pacesetter Energy, LLC</u>			2. Operator Number (See Instruction 13) <u>633120</u>		3. RRC Dist. <u>8</u>
4. Street or P. O. Box No. <u>2001 Timber Creek Road</u>			5. City <u>Flower Mound</u>	6. State <u>TX</u>	7. Zip Code <u>75028</u>
8. Name of Lease, Facility or Operation <u>UNIVERSITY JV 14</u>			9. Field or Area Name <u>Shutter Lake (San Andres)</u>		10. County <u>Andrews</u>
11. General Operation Type - Circle One: (A) Oil Field Production B - Gas Field Production C - Pipeline or Gathering Sys. D - Gasoline Plant E - Drilling or Workover F - Sweetening Unit G - Combination (explain) H - Other (explain)			Other Explanation		
12. RRC ID# of Operation(s) to be Covered by This Certificate			13. Hydrogen Sulfide Concentration <u>70,000</u> PPM		14. Maximum Escape Volume <u>500</u> MCF/Day
Type ID Code (See Instruction 12)	Indicate if Filing for Storage Facility Only		15. 100 PPM Radius of Exposure (ROE) <u>932</u> Ft.		16. 500 PPM Radius of Exposure (ROE) <u>426</u> Ft.
	YES	NO	17. Operation is Existing <input checked="" type="checkbox"/> New <input type="checkbox"/>		18. Modification Resulting in Certificate Change Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<u>42-003-46448</u>	<u>16</u>		19. Workover or Drilling Well with 100 PPM ROE Greater than 3000 feet on Rule 36 Certified Well/Lease Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<u>42-003-46447</u>	<u>16</u>		20. Previous Certificate Number if Available (For Amended Certificates)		
<u>42-003-46883</u>	<u>16</u>		21. The 100 PPM ROE includes any part of a public area except a public road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<u>42-003-47375</u>	<u>16</u>		22. The 500 PPM ROE includes any part of a public road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<u>42-003-47374</u>	<u>16</u>		23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
<u>42-003-46896</u>	<u>16</u>		24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 <u>01/01/2015</u> Mo Day Year		
<u>46383</u>	<u>1</u>		Depth of Compliance for Drilling Operation _____ Ft. from Surface		
25. Contingency Plan Location of Plan (See Instruction 15)			Has been prepared Yes <input type="checkbox"/> No <input type="checkbox"/>		
26. Location of data used to prepare this certificate (See Instruction 15) <u>2001 Timber Creek Road, Flower Mound, TX 75028</u>					
CERTIFICATE					
I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.					
<u>Ryan Millard</u>		<u>Land manager</u>		<u>972-691-3332 1/10/2017</u>	
Representative of Company		Title		Phone No. Date	

RAILROAD COMMISSION USE ONLY

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: _____

DATE: _____

REMARKS:

CERTIFICATION NUMBER: _____

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.

A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 163726

1. Field name exactly as shown on proration schedule SHAFTER LAKE (SAN ANDRES)		2. Lease name as shown on proration schedule UNIVERSITY JV 14																																													
3. Current operator name exactly as shown on P-5 Organization Report PACESETTER ENERGY, LLC		4. Operator P-5 no. 633120	5. Oil Lse/Gas ID no 46383	6. County ANDREWS	7. RRC district 08																																										
8. Operator address including city, state, and zip code 2001 TIMBER CREEK RD FLOWER MOUND, TX 75028		9. Well no(s) <i>(see instruction E)</i> 8H																																													
12. Purpose of Filing. (Complete section a or b below.) <i>(See instructions B and G)</i> a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other <i>(see instruction A)</i>		11. Effective Date 10/21/2016																																											
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). <i>(See instruction G).</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Gatherer</th> <th style="width: 5%;">Purchaser</th> <th style="width: 65%;">Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left <i>(Attach an additional sheet in same format if more space is needed)</i></th> <th style="width: 10%;">Purchaser's RRC Assigned System Code</th> <th style="width: 10%;">Percent of Take</th> <th style="width: 5%;">Full-well stream</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td>DCP MIDSTREAM, LP(195918)</td> <td>0001</td> <td>100.0</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left <i>(Attach an additional sheet in same format if more space is needed)</i>	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream	X	X	DCP MIDSTREAM, LP(195918)	0001	100.0																															
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X	X	DCP MIDSTREAM, LP(195918)	0001	100.0																																											
14. Authorized OIL or CONDENSATE Gatherer(s). <i>(See instruction G).</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 85%;">Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First <i>(Attach an additional sheet in same format if more space is needed)</i></th> <th style="width: 15%;">Percent of Take</th> </tr> </thead> <tbody> <tr> <td>BRIDGER TRANSPORTATION, LLC(091157)</td> <td>100.0</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>						Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First <i>(Attach an additional sheet in same format if more space is needed)</i>	Percent of Take	BRIDGER TRANSPORTATION, LLC(091157)	100.0																																						
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RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>06/02/2017</u>																																															
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.																																															
Name of Previous Operator _____ Name (print) _____ Title _____		Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator <i>(see instruction G)</i> _____ Date _____ Phone with area code _____																																													
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.																																															
PACESETTER ENERGY, LLC Name (print) <u>Land Manager</u> Title <u>rmillard@pacesetterenergy.com</u> E-mail Address (optional)		Ryan Millard Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator <i>(see instruction G)</i> _____ Date <u>01/18/2017</u> Phone with area code <u>(972) 691-3332 EXT 205</u>																																													

**CERTIFICATE OF
POOLING AUTHORITY**

Revised 05/2001

P-12

1. Field Name(s) Shafter Lake San Andres	2. Lease/ID Number (if assigned) 46383	3. RRC District Number 8
4. Operator Name Pacesetter Energy, LLC	5. Operator P-5 Number 633120	6. Well Number 8H
7. Pooled Unit Name University JV 14	8. API Number 42-003-47375	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County Andrews	11. Total acres in pooled unit 1807.2 5	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT (See inst. #7 below)	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
1 *	Tract 1	640	<input type="checkbox"/>	<input type="checkbox"/>
2*	Tract 2	161	<input type="checkbox"/>	<input type="checkbox"/>
3	Tract 3	161	<input type="checkbox"/>	<input type="checkbox"/>
4	Tract 4	161	<input type="checkbox"/>	<input type="checkbox"/>
5	Tract 5	241.45	<input type="checkbox"/>	<input type="checkbox"/>
6	Tract 6	80.5	<input type="checkbox"/>	<input type="checkbox"/>
7	Tract 7	161	<input type="checkbox"/>	<input type="checkbox"/>
8	Tract 8	120.75	<input type="checkbox"/>	<input type="checkbox"/>
9	Tract 9	40.25	<input type="checkbox"/>	<input type="checkbox"/>
10	Tract 10	40.25	<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.

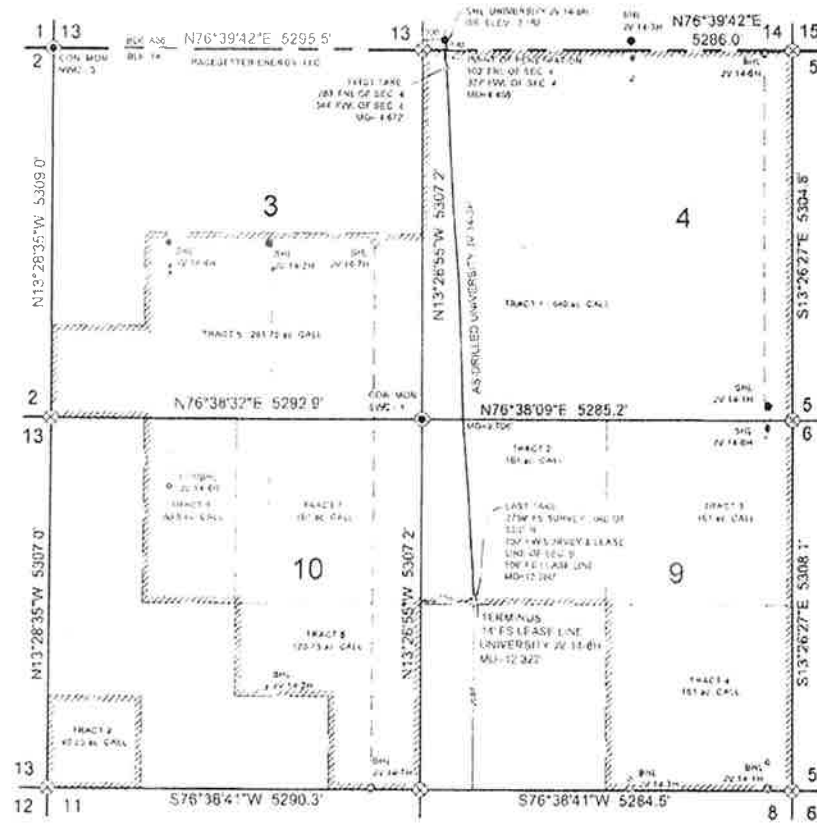
		Ryan Millard	
Signature		Print Name	
Land Manager	rmillard@pacesetterenergy.com	05/01/2017	(972) 691-3332
Title	E-mail (if available)	Date	Phone

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

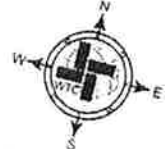
AS-DRILLED
SECTION 14, BLOCK A-36, PUBLIC SCHOOL LANDS SURVEY
ANDREWS COUNTY, TEXAS.



SHL	NAD 83 TX NC - N (Y)=6845915.0', E (X)=681096.7' - LAT=32°22'39.73" N, LON=102°40'16.37" W	NAME	JV 14-BH	JV 14-BH	JV 14-BH	JV 14-BH	JV 14-BH	JV 14-BH
POINT OF PENETRATION	NAD 83 TX NC - N (Y)=297918.2', E (X)=404285.9' - LAT=32°37'59.03" N, LON=102°40'07.682" W	SHL SH	6853	1503	4214	1297	1107	2670
FIRST TAKE POINT	NAD 83 TX NC - N (Y)=6845915.0', E (X)=681096.7' - LAT=32°22'39.73" N, LON=102°40'16.37" W	POH POH	7028	1004	4500	N/A	N/A	2687
LAST TAKE POINT	NAD 83 TX NC - N (Y)=6835239.1', E (X)=683378.7' - LAT=32°21'24.73" N, LON=102°39'46.26" W	FTN FTN	6650	3500	4300	N/A	N/A	2669
BOTTOM HOLE / TERMINUS	NAD 83 TX NC - N (Y)=6835179.3', E (X)=683395.0' - LAT=32°21'24.14" N, LON=102°39'46.04" W	LTN LTN	4787	3211	4028	N/A	N/A	3435
	NAD 27 TX NC - N (Y)=290221.3', E (X)=405452.4' - LAT=32°35'07.02" N, LON=102°40'07.32" W	BHL BHL	4954	3220	4651	1695	3070	3485
	NAD 27 TX NC - N (Y)=290161.3', E (X)=405508.1' - LAT=32°35'06.00" N, LON=102°40'07.32" W							

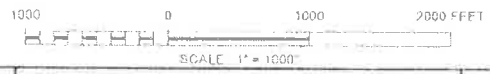
SURVEYOR'S NOTES

- ALL DOWNHOLE POINT OF PENETRATION AND BOTTOM HOLE INFORMATION AND THEIR LOCATIONS WERE PROVIDED BY PACESetter ENERGY LLC AND ARE NOT GUARANTEED BY THIS SURVEYOR.
- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS USING FOUND MONUMENTATION, GLO AND COURTSHIP DOCUMENTATION.
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY PACESetter ENERGY, INC. AND NONE WAS RESEARCHED OR PROVIDED BY WEST TEXAS CONSULTANTS, INC.
- BEARINGS AND COORDINATES SHOWN HEREON ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS COORDINATE SYSTEM, STATE PLANE NORTH CENTRAL ZONE, 1983 NORTH AMERICAN DATUM.
- THIS LOCATION IS APPROXIMATELY 8.6 MILES N 45° W FROM ANDREWS, TEXAS.



LEGEND

- DENOTES PROPOSED WELL LOCATION
- DENOTES EXISTING WELL
- ⊙ DENOTES BOTTOM HOLE LOCATION
- ⊕ DENOTES FOUND SECTION CORNER
- ⊗ DENOTES CALCULATED CORNER
- ⊞ DENOTES LEASE BOUNDARY



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FURNISHED ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL, ON THE GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T & E L S "PROFESSIONAL LAND SURVEYING PRACTICES ACT". IF THERE ARE ANY ALTERATIONS MADE (HAND DRAWN OR HANDWRITTEN) IN ADDITION TO THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

10/22/2016
DATE

GREGORY W. SHOULTZ RPLS #5356
SURVEY DATE N/A
JOB NO. 51420

DRAFT M Y
SHEET 1 OF 1

pacesetter energy
UNIVERSITY JV 14-BH
SHL LOCATED 140 FEET FSL AND
320 FEET FWL OF SEC. 14, BLK. A-36,
PUBLIC SCHOOL LANDS SURVEY,
ANDREWS COUNTY, TEXAS.

WTC, INC.
405.0 N. 16. Street
Anders, TX 79814
(409) 323-2161
TEXAS PROFESSIONAL SURVEYOR LICENSE NO. 2746
TEXAS REGISTERED SURVEYOR PLAT NO. 07

SECTIONS 3, 4, 9 & 10, BLOCK 14, UNIVERSITY LANDS SURVEY ANDREWS COUNTY, TEXAS

NAD 83
y 6844423.4
x 075587.4
NAD 27
y 298538.2
x 398841.3

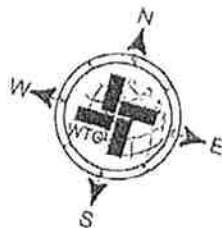
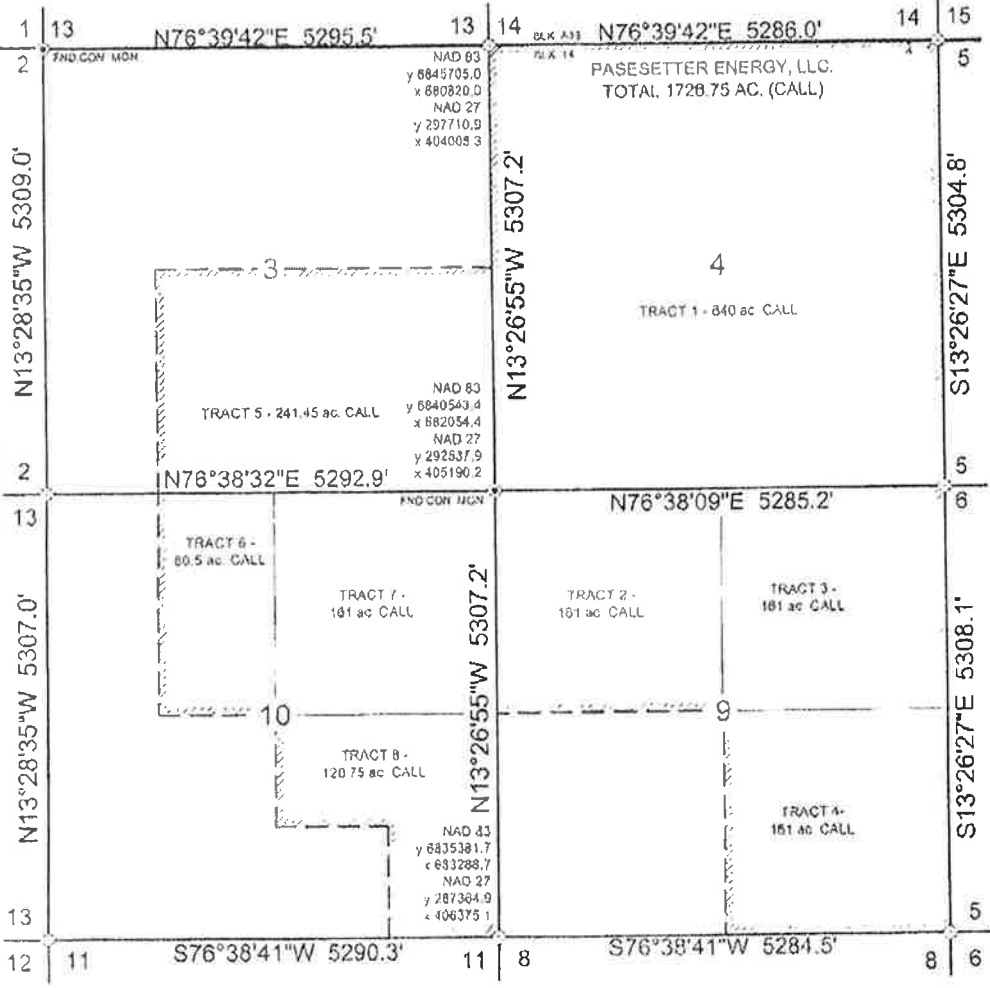
NAD 83
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x 676904.7
NAD 27
y 291384.1
x 320029.1

NAD 83
y 6834159.7
x 07814.4
NAD 27
y 289191.0
x 401216.5

NAD 83
y 6846924.5
x 685963.4
NAD 27
y 298881.5
x 409159.9

NAD 83
y 6841785.0
x 687188.5
NAD 27
y 293710.7
x 610343.6

NAD 83
y 6836602.3
x 688430.3
NAD 27
y 289538.6
x 411528.0



STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 163726

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 PACESETTER ENERGY, LLC ,

UNIVERSITY JV 14 , No. 8H ; that such well is
LEASE OPERATOR WELL

completed in the SHAFTER LAKE (SAN ANDRES) Field, ANDREWS 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 _____

240.0 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 05/09/2017 Signature Ryan Millard

Telephone (972) 691-3332 EXT 205 Title Land Manager
AREA CODE

Attachment to Form P-15

Date: 5/1/2017

Lease Name: University JV 14

Total Acres: 1807.25

Assigned to Proration Unit

Acreage List

RRC ID#	LEASE NAME	WELL #	API #	WELL ACRES ASSIGNED	PERMIT#
46383	University JV 14	8H	42-003-47375	240	816796
46383	University JV 14	3H	42-003-47374	320	816781
46383	University JV 14	1H	42-003-46447	200	788929
46383	University JV 14	2H	42-003-46448	240	788959
46383	University JV 14	4H	42-003-46883	160	798661

RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name:	Operator P-5 No.:
Operator Address:	

SECTION II. WELL INFORMATION

District No.:	County:	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.:	API No.:	
Total Lease Acres:	Drilling Permit No.:	
Lease Name:	Lease No.:	
Field Name:	Field No.:	

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

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

[illegible]

Total Well Count >		< A. Total Assigned Horiz. Acreage		< C. Total Assigned Acreage
		< Total Remaining Horiz. Acreage		< Total Remaining Acreage
		< B. Total Assigned Vert./Dir. Acreage		
		< Total Remaining Vert./Dir. Acreage		

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

--

Attach Additional Pages As Needed. ☐ No additional pages ☐ Additional Pages: _____ (No. of additional pages)

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

Signature	Name and title (type or print)	Email (include email address <i>only</i> if you affirmatively consent to its public release)
-----------	--------------------------------	--

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

NAME	JV 14-1H	JV 14-2H	JV 14-4H	JV 14-6H	JV 14-7H	JV 14-3H
SHL-SHL	6693'	3863'	4914'	7267'	3107'	2676'
POP-POP	7028'	N/A	4966'	N/A	N/A	2687'
FTP-FTP	6890'	3808'	4926'	N/A	N/A	2669'
LTP-LTP	4787'	3211'	4628'	N/A	N/A	3435'
BHL-BHL	4954'	3220'	4651'	8896'	3036'	3485'

- DENOTES PROPOSED WELL LOCATION
- DENOTES EXISTING WELL
- ◐ DENOTES BOTTOM HOLE LOCATION
- ◑ DENOTES FOUND SECTION CORNER
- ⊗ DENOTES CALCULATED CORNER
- ▤ DENOTES LEASE BOUNDARY



GREGORY W. SHOULTS RPLS #5356 10/22/2016
DATE
SURVEY DATE: N/A DRAFT: M.Y.
JOB NO.: 51420 SHEET: 1 OF 1



UNIVERSITY JV 14-8H
SHL LOCATED 140 FEET FSL AND
320 FEET FWL OF SEC. 14, BLK. A-36,
PUBLIC SCHOOL LANDS SURVEY,
ANDREWS COUNTY, TEXAS.



W T C. INC.

405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 07 July 2016**GAU Number:** 157075**Attention:** PACESETTER ENERGY, LLC
2001 TIMBER CREEK RD
FLOWER MOUND, TX 75028**Operator No.:** 633120**API Number:**
County: ANDREWS
Lease Name: University JV 14
Lease Number:
Well Number: 8H
Total Vertical Depth: 9000
Latitude: 32.377596
Longitude: -102.670768
Datum: NAD27**Purpose:** New Drill**Location:** Survey-PSL; Abstract-698; Block-A36; Section-14

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 350 feet, and the zone from 1150 to 1575 feet must be protected.

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

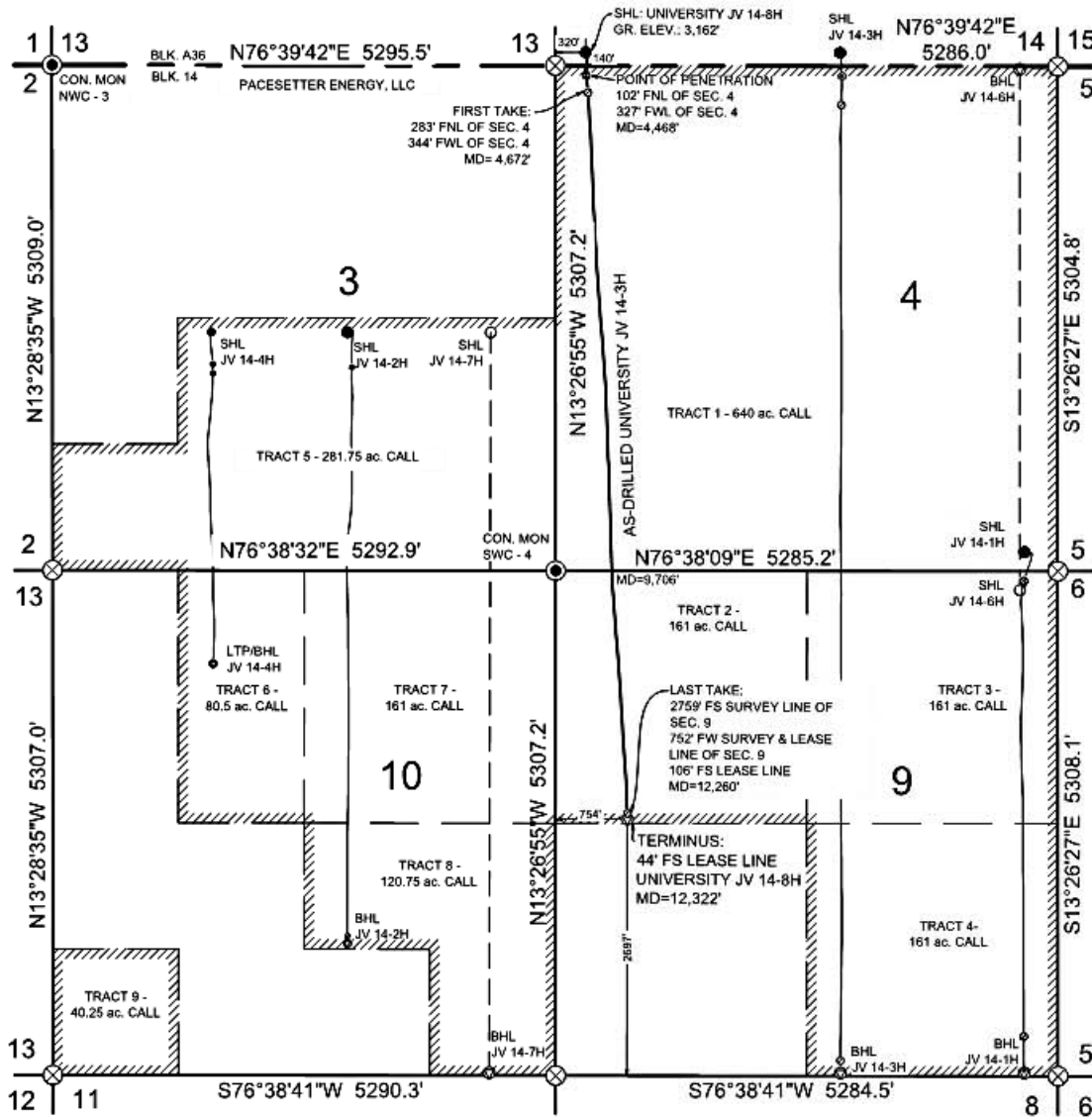
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 07/06/2016. 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

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

AS-DRILLED
SECTION 14, BLOCK A-36, PUBLIC SCHOOL LANDS SURVEY
ANDREWS COUNTY, TEXAS.

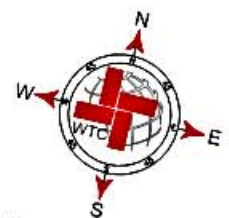


SHL	NAD 83, TX NC - N.(Y)=6845915.0', E.(X)=681098.7' - LAT=32°22'39.73"N, LON=102°40'16.37"W
	NAD 27, TX NC - N.(Y)=297918.2', E.(X)=404285.9' - LAT=32.3775963°N, LON=102.6707682°W
POINT OF PENETRATION	NAD 83, TX NC - N.(Y)=6845681.7', E.(X)=681162.3' - LAT=32°22'37.45"N, LON=102°40'15.52"W.
	NAD 27, TX NC - N.(Y)=297684.3', E.(X)=404347.3' - LAT=32.3769626°N, LON=102.6705323°W
FIRST TAKE POINT	NAD 83, TX NC - N.(Y)=6845509.2', E.(X)=681220.5' - LAT=32°22'35.76"N, LON=102°40'14.77"W.
	NAD 27, TX NC - N.(Y)=297511.3', E.(X)=404403.9' - LAT=32.3764951°N, LON=102.6703218°W
LAST TAKE POINT	NAD 83, TX NC - N.(Y)=6838239.1', E.(X)=683378.7' - LAT=32°21'24.73"N, LON=102°39'46.26"W.
	NAD 27, TX NC - N.(Y)=290221.3', E.(X)=406492.4' - LAT=32.3567625°N, LON=102.6624053°W
BOTTOM HOLE / TERMINUS	NAD 83, TX NC - N.(Y)=6838179.3', E.(X)=683395.0' - LAT=32°21'24.14"N, LON=102°39'46.04"W.
	NAD 27, TX NC - N.(Y)=290161.3', E.(X)=406508.1' - LAT=32.3566000°N, LON=102.6623448°W

NAME	JV 14-1H	JV 14-2H	JV 14-4H	JV 14-6H	JV 14-7H	JV 14-3H
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BHL-BHL	4954'	3220'	4651'	8896'	3036'	3485'

SURVEYOR'S NOTES:

- ALL DOWNHOLE, POINT OF PENETRATION AND BOTTOM HOLE INFORMATION AND THEIR LOCATIONS WERE PROVIDED BY PACESETTER ENERGY LLC, AND ARE NOT GUARANTEED BY THIS SURVEYOR.
- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS, USING FOUND MONUMENTATION, GLO AND COURTHOUSE DOCUMENTATION..
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY PACESETTER ENERGY, INC. AND NONE WAS RESEARCHED OR PROVIDED BY WEST TEXAS CONSULTANTS, INC.
- BASIS OF BEARINGS AND COORDINATES SHOWN HEREON ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS COORDINATE SYSTEM, STATE PLANE NORTH CENTRAL ZONE, 1983 NORTH AMERICAN DATUM.
- THIS LOCATION IS APPROXIMATELY 6.5 MILES N.45°W. FROM ANDREWS, TEXAS.



LEGEND

- DENOTES PROPOSED WELL LOCATION
- DENOTES EXISTING WELL
- ⊙ DENOTES BOTTOM HOLE LOCATION
- ⊗ DENOTES FOUND SECTION CORNER
- ⊗ DENOTES CALCULATED CORNER
- ▨ DENOTES LEASE BOUNDARY

1000 0 1000 2000 FEET
SCALE: 1" = 1000'



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY, AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T.B.P.L.S., "PROFESSIONAL LAND SURVEYING PRACTICES ACT." IF THERE ARE ANY ALTERATIONS MADE, (HAND DRAWN OR HANDWRITTEN ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

GREGORY W. SHOULTS RPLS #5356

SURVEY DATE: N/A
JOB NO.: 51420

10/22/2016

DATE

DRAFT: M.Y.
SHEET: 1 OF 1



UNIVERSITY JV 14-8H
SHL LOCATED 140 FEET FSL AND
320 FEET FWL OF SEC. 14, BLK. A-36,
PUBLIC SCHOOL LANDS SURVEY,
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