



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/04/2018
Tracking No.: 178926

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

OPERATOR INFORMATION

Operator Name: BAM PERMIAN OPERATING, LLC **Operator No.:** 048351
Operator Address: SUITE 110 PMB #53 4416 BRIARWOOD AVE MIDLAND, TX 79707-0000

WELL INFORMATION

API No.: 42-103-36564 **County:** CRANE
Well No.: 2 **RRC District No.:** 08
Lease Name: UNIVERSITY ROLAND **Field Name:** UNIVERSITY 31 WEST (U. DEVONIAN)
RRC Lease No.: 49106 **Field No.:** 92505500
Location: Section: 42, Block: 30, Survey: UL, Abstract: U42

Latitude: 31.45241 **Longitude:** -102.39462
This well is located 4.3 **miles in a** NW **direction from** CRANE, **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:** 09/03/2017

<u>Type of Permit</u>	<u>Date</u>	<u>Permit No.</u>
Permit to Drill, Plug Back, or Deepen Rule 37 Exception	05/26/2017	826880
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 06/13/2017 **Date of first production after rig released:** 09/03/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 06/14/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 07/07/2017
Number of producing wells on this lease in this field (reservoir) including this well: 1 **Distance to nearest well in lease & reservoir (ft.):** 0.0
Total number of acres in lease: 120.20 **Elevation (ft.):** 2534 GL
Total depth TVD (ft.): 9425 **Total depth MD (ft.):**
Plug back depth TVD (ft.): 9410 **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? No **Rotation time within surface casing (hours):** 51.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No **Multiple completion?** No
Type(s) of electric or other log(s) run: Neutron/Density logs (combo of tools)
Electric Log Other Description:
Location of well, relative to nearest lease boundaries **Off Lease :** No
of lease on which this well is located: 467.0 **Feet from the** West **Line and**
1745.0 **Feet from the** North **Line of the**
UNIVERSITY ROLAND **Lease.**

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

Field & Reservoir Gas ID or Oil Lease No. 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 (ft.):** 675.0 **Date:** 05/17/2017
SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 09/12/2017 **Production method:** Pumping
Number of hours tested: 24 **Choke size:** N/A
Was swab used during this test? No **Oil produced prior to test:** 402.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 103.00 **Gas (MCF):** 327
Gas - Oil Ratio: 3174 **Flowing Tubing Pressure:**
Water (BBLs): 96

CALCULATED 24-HOUR RATE

Oil (BBLs): 103.0 **Gas (MCF):** 327
Oil Gravity - API - 60.: 43.0 **Casing Pressure:** 80.00
Water (BBLs): 96

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	757			C	500	794.2	SURF	Circulated to Surface ACE
2	Intermediate	8 5/8	11	4003			C	910	2008.0	SURF	Circulated to Surface ACE
3	Conventional Production	5 1/2	7 7/8	9425	7267		H	550	1108.0	3480	Cement Evaluation Log
4	Conventional Production	5 1/2	7 7/8	9425			H	450	553.0	7267	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 3/8	9351	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 8346	9310.0

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: 5500

Actual maximum pressure (PSIG) during hydraulic fracturing: 5340

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	7245 BBL FLUID, SEE FRAC FOCUS FOR DETAILS	8346	9310

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER	Yes	1028.0		Yes	
YATES	Yes	1860.0		Yes	
GRAYBURG - ACTIVE CO2 FLOOD	Yes	3096.0		Yes	
SAN ANDRES - USABLE QUALITY WATER/ACTIVE CO2 FLOOD	Yes	3399.0		Yes	
SAN ANGELO	No			No	NOT ENCOUNTERED
SEVEN RIVERS	No			No	NOT ENCOUNTERED
GLORIETA	Yes	4190.0		Yes	
PERMIAN GENERAL	No			No	NOT ENCOUNTERED
QUEEN	No			No	NOT ENCOUNTERED
CLEARFORK	Yes	4600.0		Yes	
MONTOYA	No			No	NOT DEEP ENOUGH
TUBB	Yes	5630.0		Yes	
WICHITA ALBANY	Yes	5955.0		Yes	
FUSSELMAN	No			No	NOT DEEP ENOUGH
WOLFCAMP	Yes	7290.0		Yes	
WADDELL	No			No	NOT DEEP ENOUGH
BEND	Yes	8340.0		Yes	
PENNSYLVANIAN	No			No	NOT ENCOUNTERED
CISCO	Yes	7470.0		Yes	
STRAWN	Yes	8155.0		Yes	
DEVONIAN - ACTIVE CO2 FLOOD	Yes	9198.0		Yes	
ELLENBURGER	No			No	NOT DEEP ENOUGH

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

RRC REMARKS

PUBLIC COMMENTS:

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: Blake Morhew

Title:

Telephone No.: (432) 413-9289

Date Certified: 10/18/2017



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name:	BAM PERMIAN OPERATING, LLC	Operator P-5 No.:	048351
Cementer Name:	O - Tex Pumping, LLC	Cementer P-5 No.:	617021

WELL INFORMATION

District No.:	CB	County:	Crane
Well No.:	2	API No.:	42-103-36564
Lease Name:	University Roland	Drilling Permit No.:	926880
Field Name:	University 31 west (u. Devonian)	Lease No.:	
		Field No.:	925055D

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.):	17 1/2"	Depth of drilled hole (ft.):	757'	Est. % wash-out or hole enlargement:	3090
Size of casing in O.D. (in.):	13 7/8"	Casing weight (lbs/ft) and grade:	54.5 J-55	No. of centralizers used:	8
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	757'	Top of liner (ft.):	
Hrs. waiting on cement before drill-out:	22	Calculated top of cement (ft.):	Surface	Setting depth liner (ft.):	
		Cementing date:	14-Jun		

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	265	35:65 C	See Remark #1	477	687
2	235	C	See Remark #2	317.25	405
3					
Total	500			794.25	1092

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:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Setting depth shoe (ft.):				
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:		

SLURRY

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

III. CASING CEMENTING DATA

Type of casing:	<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:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	YES <input type="checkbox"/> NO <input type="checkbox"/>	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					



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

OPERATOR INFORMATION

Operator Name:	BAM PERMIAN OPERATING, LLC	Operator P-5 No.:	048351
Cementer Name:	O - Tex Pumping, LLC	Cementer P-5 No.:	617021

WELL INFORMATION

District No.:	08	County:	CRANE
Well No.:	#2	API No.:	42-103-36564
		Drilling Permit No.:	826880
Lease Name:	UNIVERSITY ROLAND	Lease No.:	
Field Name:	University 31 West (U. Permian)	Field No.:	9250550

I. CASING CEMENTING DATA

Type of Casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input checked="" type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input type="checkbox"/> Production
Drilled hole size (in.):	11	Depth of drilled hole (ft.):	4003	Est. % wash-out or hole enlargement:	20%
Size of casing in O.D. (in.):	8-5/8"	Casing weight (lbs/ft) and grade:	32# J-55	No. of centralizers used:	23
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	4003	Top of liner (ft.):	
	If no for surface casing, explain in Remarks.	Setting depth liner (ft.):			
Hrs. waiting on cement before drill-out:	26	Calculated top of cement (ft.):	GL	Cementing date:	6/20/2017

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	710	50:50:C	REMARK #1	1740	6839
2	200	C	REMARK #2	268	1054
3					
Total	910			2008	7893

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?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Setting depth shoe (ft.):				
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:		

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

III. CASING CEMENTING DATA

Type of casing:	<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?	YES <input type="checkbox"/> NO <input type="checkbox"/>	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					



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CEMENTING REPORT

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

OPERATOR INFORMATION	
Operator Name: BAM PERMIAN OPERATING	Operator P-5 No.: 048351
Cementer Name: O - Tex Pumping, LLC	Cementer P-5 No.: 617021

WELL INFORMATION	
District No.: 08	County: CRANE
Well No.: 2	API No.: 42-103-36564 Drilling Permit No.: 826880
Lease Name: UNIVERSITY ROLAND	Lease No.:
Field Name: University 31 West (L. Davin)	Field No.: 92505500

I. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.):			
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input checked="" type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 7 7/8	Depth of drilled hole (ft.): 9425	Est. % wash-out or hole enlargement: 20%			
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 17#/L-80	No. of centralizers used: 35			
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 <input checked="" type="checkbox"/>	Setting depth shoe (ft.): 9425'				
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): 726'	Cementing date: 7/6/2017			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	450	50:50 CLASS H	REMARKS	553	3195
2					
3					
Total	450			553	3195

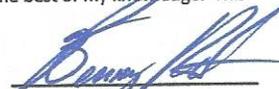
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input checked="" type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 7 7/8	Depth of drilled hole (ft.): 9425	Est. % wash-out or hole enlargement: 20%			
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 17#/L-80	No. of centralizers used: 35			
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 <input checked="" type="checkbox"/>	Setting depth shoe (ft.): 7267' (DV)				
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): 3480' (CAL)	Cementing date: 7/6/2017			
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	350	50:50 CLASS H	REMARKS	872	5030
2	200	CLASS H	REMARKS	236	1362
3					
Total	550			1108	6392

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							
REMARKS 1: 2% GEL +3/10% C-47A +2/10% C-49 +2/10% SMS +4/10% O-TX20 +1/4#/sx CELLO FLAKE + 2/10%C-40P							
REMARKS 2: 10% GEL + 1/10% O-TX20 + 1/4#/sx CELLO FLAKE + 5% SALT + 2/10%C-40P							
REMARKS 3: 1/10% O-TX20 + 2/10%C-40P							

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.

BENNY RODRIGUEZ (CEMENTER)
Name and title of cementer's representative

O-TEX LLC
Cementing Company


Signature

2609 E. I-20 MIDLAND TX 79601
Address City, State, Zip Code

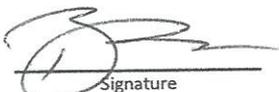
432-686-8559
Tel: Area Code Number

7/6/2017
Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.


Typed or printed name of operator's representative

Blake Woelfel Managing Member
Title


Signature

4416 Briarwood Ave.
Suite 110 Pmb #53 Midland, TX 79707
Address City, State, Zip Code

432-242-8851
Tel: Area Code Number

7/7/17
Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 787112967).

C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac?ext=TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)
FOD1296

INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report)		6. RRC District 08
		7. RRC Lease Number. (Oil completions only)
1. FIELD NAME (as per RRC Records or Wildcat)	2. LEASE NAME University Roland	8. Well Number 2
3. OPERATOR BAM Permian Operating, LLC		9. RRC Identification Number (Gas completions only)
4. ADDRESS 4416 Briarwood Ave., Suite 110 PMB #53 Midland, TX 79707		10. County Crane
5. LOCATION (Section, Block, and Survey) Section 42, Block 30, Abstract U42, Survey UL		

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
250	250	0.50	0.87	2.18	2.18
513	263	0.20	0.35	0.92	3.10
1020	507	0.30	0.52	2.65	5.75
1526	506	1.20	2.09	10.60	16.35
1780	254	1.30	2.27	5.76	22.11
2033	253	1.80	3.14	7.95	30.06
2287	254	1.30	2.27	5.76	35.82
2540	253	1.00	1.75	4.42	40.24
3047	507	1.40	2.44	12.39	52.63
3523	476	0.70	1.22	5.82	58.44
3959	436	1.00	1.75	7.61	66.05
4494	535	0.04	0.07	0.37	66.42
4937	443	0.40	0.70	3.09	69.52
5476	539	0.00	0.00	0.00	69.52
5920	444	0.20	0.35	1.55	71.07

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? yes no
18. Accumulative total displacement of well bore at total depth of 9360 feet = 160.77 feet.
- *19. Inclination measurements were made in - Tubing Casing Open hole Drill Pipe
20. Distance from surface location of well to the nearest lease line..... 467 feet.
21. Minimum distance to lease line as prescribed by field rules..... 330 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? no

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

<p>INCLINATION DATA CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p><i>Michael Benetich</i> Signature of Authorized Representative Michael Benetich, COO Name of Person and Title (type or print) Sendero Drilling Company, LLC Name of Company Telephone: 325-655-7641 Area Code</p>	<p>OPERATOR CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p><i>Blake Morphey</i> Signature of Authorized Representative Blake Morphey, Managing member Name of Person and Title (type or print) BAM Permian Operating, LLC Operator Telephone: (432) 242-8851 Area Code</p>
---	---

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

Tracking No.: 178926

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: BAM PERMIAN OPERATING, LLC	District No. 08	Completion Date: 09/03/2017
Field Name UNIVERSITY 31 WEST (U. DEVONIAN)	Drilling Permit No. 826880	
Lease Name UNIVERSITY ROLAND	Lease/ID No. 49106	Well No. 2
County CRANE	API No. 42- 103-36564	

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). _____

Blake Morphew

Signature

Name (print)

_____ Title

(432) 413-9289

Phone

10/18/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-

Company: BAM PERMIAN OPERATING, LLC
 Well: UNIVERSITY ROLAND #2
 Field: UNIVERSITY 31 WEST (U. DEVONIAN)
 County: CRANE State: TEXAS

County: CRANE Field: UNIVERSITY 31 WEST (U. DEVONIAN) Location: 2175' FEL & 1745' FNL Well: UNIVERSITY ROLAND #2 Company: BAM PERMIAN OPERATING, LLC	PLATFORM EXPRESS Compensated Neutron Log Three Detector Litho-Density, Spectral GR			
	2175' FEL & 1745' FNL Sec: 42; Blk: 30; Abs: U42 Survey: UL		Elev.: K.B. 2548.00 ft G.L. 2534.00 ft D.F. 2547.00 ft	
	Location: Permanent Datum: Ground Level Log Measured From: Kelly Bushing Drilling Measured From: Kelly Bushing		Elev.: 2534.00 f 14.00 ft above Perm.Datum	
	API Serial No. 42-103-36564	Section: 42	Block: 30	Abstract: U42
Logging Date		04-Jul-2017		
Run Number		Run 1A		
Depth Driller		9425.00 ft		
Schlumberger Depth		9433.00 ft		
Bottom Log Interval		9433.00 ft		
Top Log Interval		4006.00 ft		
Casing Driller Size @ Depth		8.625 in @ 4003.00 ft		
Casing Schlumberger		4006 ft		
Bit Size		7.875 in		
Type Fluid In Hole		Chemical Gel		
MUD	Density	Viscosity	10.1 lbm/gal	33 s
	Fluid Loss	PH	4 cm3	9
	Source of Sample		Active Tank	
RM @ Meas Temp		0.04 ohm.m @ 89.1 degF		
RMF @ Meas Temp		0.04 ohm.m @ 89.1 degF		
RMC @ Meas Temp				
Source RMF		RMC	Calculated	
RM @ BHT		RMF @ BHT	0.03 @ 139	0.03 @ 139
Max Recorded Temperatures		139 degF		
Circulation Stopped		Time	03-Jul-2017	21:30:00
Logger on Bottom		Time	04-Jul-2017	11:11:00
Unit Number	Location:		9116	Abilene, TX
Recorded By		Kent Mustoe		
Witnessed By		Blake Morphew		

**CERTIFICATE OF COMPLIANCE
 AND TRANSPORTATION AUTHORITY**

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.: 178926

1. Field name exactly as shown on proration schedule UNIVERSITY 31 WEST (U. DEVONIAN)		2. Lease name as shown on proration schedule UNIVERSITY ROLAND					
3. Current operator name exactly as shown on P-5 Organization Report BAM PERMIAN OPERATING, LLC		4. Operator P-5 no. 048351	5. Oil Lse/Gas ID no. 49106	6. County CRANE	7. RRC district 08		
8. Operator address including city, state, and zip code SUITE 110 PMB #53 4416 BRIARWOOD AVE MIDLAND, TX 79707		9. Well no(s) (see instruction E) 2			11. Effective Date 09/03/2017		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)							
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 <input type="checkbox"/> other well (specify) _____ 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"/> consolidation, unitization, or subdivision (oil lease only)							
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).							
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)			Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	TARGA MIDSTREAM SERVICES LLC(836037)			0007	100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).							
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take	
LPC CRUDE OIL MARKETING LLC(480177)						100.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>01/04/2018</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				Signature			
Name (print)				<input type="checkbox"/> Authorized Employee of previous operator		<input type="checkbox"/> Authorized agent of previous operator (see instruction G)	
Title				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.							
Name (print)				Signature			
Title				<input checked="" type="checkbox"/> Authorized Employee of current operator		<input type="checkbox"/> Authorized agent of current operator (see instruction G)	
E-mail Address (optional)				Date		Phone with area code	
<u>blake.morphew@gmail.com</u>				<u>09/05/2017</u>		<u>(432) 413-9289</u>	

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 178926

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 BAM PERMIAN OPERATING, LLC ,

OPERATOR
UNIVERSITY ROLAND , No. 2 ; that such well is
LEASE WELL

completed in the UNIVERSITY 31 WEST (U. DEVONIAN) Field, CRANE 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 _____

40.0 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 10/18/2017 Signature Blake Morpew

Telephone (432) 413-9289 Title _____
AREA CODE

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 17 May 2017 **GAU Number:** 170961

Attention:	BAM PERMIAN OPERATING, SUITE 110 PMB #53 MIDLAND, TX 79707	API Number:	
Operator No.:	048351	County:	CRANE
		Lease Name:	University Roland
		Lease Number:	
		Well Number:	2
		Total Vertical Depth:	9600
		Latitude:	31.452411
		Longitude:	-102.394628
		Datum:	NAD27

Purpose: New Drill
Location: Survey-UL; Block-30; Section-42

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 the base of the Santa Rosa, which is estimated to occur at a depth of 675 feet, must be protected.

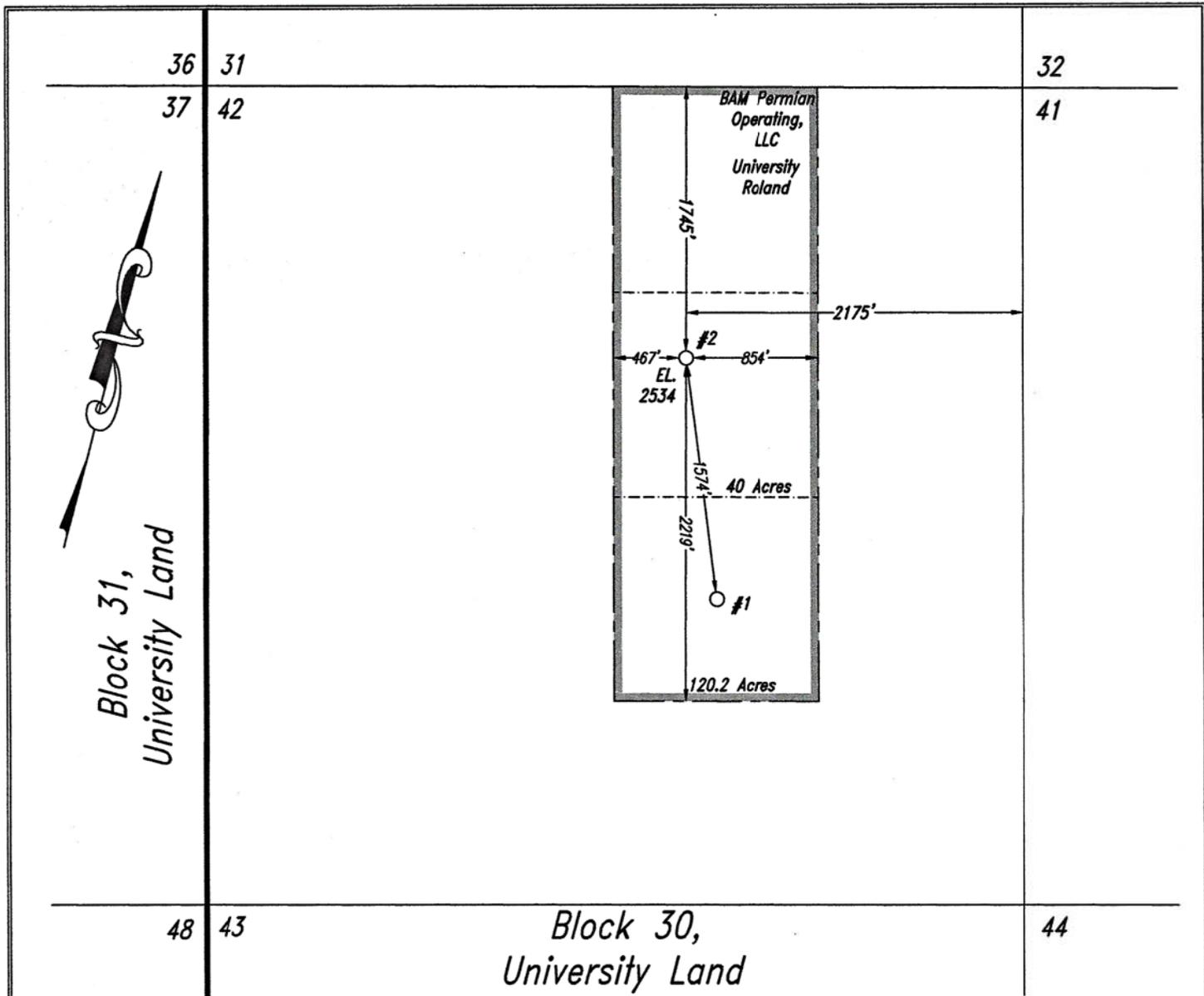
This recommendation is applicable for all wells drilled in this sec. 42.

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 04/26/2017. 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



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.
 Note: The above sketch represents the location as staked on the ground and is for permit purposes only.
 Note: NAD '27 Coordinates & NAD '83 Latitude/Longitude on well location in Section 42.
 Note: Well location is approximately 4.3 miles northwest of Crane.
 Note: This does not constitute a boundary survey.
 Note: Lease description provided by client.

#2
 X: 1357276.46 Latitude: 31.45241161°
 Y: 655411.14 Longitude: -102.39462641°
 NAD 83: Lat: 31.45255025°; Long: -102.39504686°
 1745' FNL, 2175' FEL - Section 42



Jeffrey D. Suiter

April 24, 2017
 170424R - SC



Railroad Commission Drawing
 #2 University Roland
 BAM Permian Operating, LLC
 "University Roland" Lease
 W/2 of the NE/4 and the NW/4 of the SE/4
 Section 42, Block 30
 University Land Survey
 Crane County, TX
 Scale: 1" = 1000'