



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/19/2018
Tracking No.: 180585

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

OPERATOR INFORMATION

Operator Name: DIAMONDBACK E&P LLC Operator No.: 217012
Operator Address: 500 W TEXAS AVE STE 1200 MIDLAND, TX 79701-4203

WELL INFORMATION

API No.: 42-003-47471 County: ANDREWS
Well No.: 8LS RRC District No.: 08
Lease Name: UL MASON WEST UNIT Field Name: SPRABERRY (TREND AREA)
RRC Lease No.: 49200 Field No.: 85280300
Location: Section: 10, Block: 7, Survey: UL, Abstract: U195
Latitude: Longitude:
This well is located 19.3 miles in a NE direction from ANDREWS, which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 07/28/2017
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 01/25/2017 822151
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 03/19/2017 Date of first production after rig released: 07/28/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 03/19/2017 Date plug back, deepening, recompletion, or drilling operation ended: 05/01/2017
Number of producing wells on this lease in this field (reservoir) including this well: 2 Distance to nearest well in lease & reservoir (ft.): 466.0
Total number of acres in lease: 800.00 Elevation (ft.): 2947 GL
Total depth TVD (ft.): 9566 Total depth MD (ft.): 23060
Plug back depth TVD (ft.): 9523 Plug back depth MD (ft.): 22963
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 63.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Other
Electric Log Other Description: RCBL
Location of well, relative to nearest lease boundaries Off Lease : Yes
of lease on which this well is located: 656.0 Feet from the East Line and
901.0 Feet from the North Line of the
UL MASON WEST UNIT 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.):** 1775.0                      **Date:** 01/18/2017  
**SWR 13 Exception**                                                      **Depth (ft.):**

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

**Date of test:**                                                              **Production method:**  
**Number of hours tested:** 24                                      **Choke size:**  
**Was swab used during this test?** No                              **Oil produced prior to test:**

**PRODUCTION DURING TEST PERIOD:**

**Oil (BBLs):**                                                              **Gas (MCF):**  
**Gas - Oil Ratio:** 0                                                      **Flowing Tubing Pressure:**  
**Water (BBLs):**

**CALCULATED 24-HOUR RATE**

**Oil (BBLs):**                                                              **Gas (MCF):**  
**Oil Gravity - API - 60.:**                                              **Casing Pressure:**  
**Water (BBLs):**

**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	1851			C	1320	2268.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	8649			C, H	1125	2191.0	5755	Calculation
3	Intermediate	9 5/8	12 1/4	8649	5755		C	1480	3356.0	400	Calculation
4	Conventional Production	5 1/2	8 1/2	23031			C, H	3781	5256.0	720	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	8781	/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 10017	22914.0

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

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? Yes

If yes, actuation pressure (PSIG): 7500.0

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 6500

Actual maximum pressure (PSIG) during hydraulic fracturing: 8736

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>	
1	Fracture	SEE FRAC FOCUS	10017	22914

**FORMATION RECORD**

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
YATES	Yes	3124.0	3124.0	Yes	
SEVEN RIVERS	Yes	3284.0	3395.0	Yes	
QUEEN	Yes	3786.0	3803.0	Yes	
GRAYBURG	Yes	4194.0	4215.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4649.0	4675.0	Yes	
HOLT	No			No	NOT PRESENT IN THIS
GLORIETA	Yes	5500.0	5527.0	Yes	
TUBB	No			No	NOT PRESENT IN THIS
CLEARFORK	Yes	6677.0	6704.0	Yes	
PERMIAN DETRITAL	No			No	NOT PRESENT IN THIS
LEON	No			No	NOT PRESENT IN THIS
WICHITA ALBANY	No			No	NOT PRESENT IN THIS
SPRABERRY	Yes	8424.0	8450.0	Yes	
DEAN	No			No	BELOW TD
WOLFCAMP	No			No	BELOW TD
CANYON	No			No	BELOW TD
PENNSYLVANIAN	No			No	BELOW TD
MCKEE	No			No	BELOW TD
STRAWN	No			No	BELOW TD
FUSSELMAN	No			No	BELOW TD
DEVONIAN	No			No	BELOW TD
SILURIAN	No			No	BELOW TD
ELLENBURGER	No			No	BELOW TD

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? No

Is the completion being downhole commingled (SWR 10)? No

**REMARKS**

SPUD WELL 03/19/17. SET SURF CSG & MOVED OFF LOC. RESUMED DRLG 4/11/17. KOP = 8784'. P-12 IS PERMITTING P-12. IP TEST & FRAC FOCUS ENTRY TO BE SUPPLIED WITH IP COMPLETION.

## RRC REMARKS

### PUBLIC COMMENTS:

[RRC Staff 2017-11-06 15:29:22.584] EDL=12897 feet, max acres=800, SPRABERRY (TREND AREA) oil well

### CASING RECORD :

### TUBING RECORD:

### PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

### POTENTIAL TEST DATA:

## OPERATOR'S CERTIFICATION

**Printed Name:** Kathy Thomasson

**Title:** Sr. Staff Regulatory Specialist

**Telephone No.:** (432) 221-7409

**Date Certified:** 10/09/2017



# 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:	DIAMONDBACK E&P LLC	Operator P-5 No.:	217012
Cementer Name:	O - Tex Pumping , LLC	Cementer P-5 No.:	617021

### WELL INFORMATION

District No.:	08	County:	ANDREWS
Well No.:	8LS	API No.:	42-003-47471
Lease Name:	UL MASON WEST UNIT	Drilling Permit No.:	822151
Field Name:	Spraberry (Trend Area)	Lease No.:	
		Field No.:	85280300

### 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.):	1,866	Est. % wash-out or hole enlargement:	20
Size of casing in O.D. (in.):	13 3/8	Casing weight (lbs/ft) and grade:	54.5# J-55	No. of centralizers used:	12
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.):	Top of liner (ft.):	
Hrs. waiting on cement before drill-out:	>24	Calculated top of cement (ft.):	0 surface	Cementing date:	3/19/2017
				Setting depth liner (ft.):	

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	900	65:36 C	REMARKS 1	1701	2449
2	420	C	REMARKS 2	567	816
3					
Total	1320			2268	3265

### 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					

**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) 6% GEL+1/4#SX CELLO FLAKE+5% SALT  
 2) 2% CACL2

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.

EDWARD SALDANA SERVICE SUPERVISOR

O-TEX PUMPING



Name and title of cementer's representative

Cementing Company

Signature

2609 E I-20

Midland TX 79706

432-686-8559

3/19/2017

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

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

Kathy Thomasson

Sr. Regulatory Specialist



Typed or printed name of operator's representative

Title

Signature

500 W Texas, Suite 1200

Midland, TX 79701

432-221-7409

10/06/17

Address

City, State, Zip Code

Tel: Area Code Number

Date: mo. day yr.

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

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

- 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\\_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.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
  - E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
  - F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
  - G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



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Form W-15

Rev. 08/2014

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

CEMENTING REPORT

OPERATOR INFORMATION

Operator Name: DIAMONDBACK E&P LLC
Operator P-5 No.: 217012
Cementer Name: BJ SERVICES, LLC
Cementer P-5 No.: 403101

WELL INFORMATION

District No.: 08
County: ANDREWS
Well No.: 8LS
API No.: 42-003-47471
Drilling Permit No.: 822151
Lease Name: UL MASON West Unit
Lease No.:
Field Name: Spraberry (Trend Area)
Field No.: 85280300

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner 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? YES NO
Setting depth shoe (ft.):
Top of liner (ft.):
Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:
Calculated top of cement (ft.):
Cementing date: 4/16/17
SLURRY table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

II. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement shoe Multiple parallel strings
Drilled hole size (in.): 12 1/4
Depth of drilled hole (ft.): 8660
Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8
Casing weight (lbs/ft) and grade: 40#, 43.5# L-80
No. of centralizers used: 56
Tapered string drilled hole size (in.):
Upper: Lower:
Tapered string depth of drilled hole (ft.):
Upper: Lower:
Tapered string size of casing in O.D. (in.):
Upper: Lower:
Tapered string casing weight (lbs/ft) and grade:
Upper: Lower:
Tapered string no. of centralizers used:
Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES NO
Setting depth shoe (ft.): 8649
Hrs. waiting on cement before drill-out: 0
Calculated top of cement (ft.): 5755
Cementing date: 4/16/17
SLURRY table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

III. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement/DV tool Multiple parallel strings
Drilled hole size (in.): 12 1/4
Depth of drilled hole (ft.): 8660
Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8
Casing weight (lbs/ft) and grade: 40#, 43.5# L-80
No. of centralizers used: 19
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.): 5755
Hrs. waiting on cement before drill-out: 5.5
Calculated top of cement (ft.): 400
Cementing date: 4/16/17
SLURRY table with columns: Slurry No., No. of Sacks, Class, Additives, Volume (cu. ft.), Height (ft.)

**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: 60.40:POZ:C-5% MPA-5+0.3% MPA-250+0.2% SMS+1% BWOW SODIUM CHLORIDE+0.5% R-3+0.005 LB/SK STATIC FREE+0.005 GPS FP-6L REMARKS #2: 50.50:POZ:H+2% BENTONITE+0.5% FL-52+0.45% CD-32+2% BWOW SODIUM CHLORIDE+0.005 LB/SK STATIC FREE+0.005 GPS FP-6L REMARKS #3: 50.50:POZ:C+10% BENTONITE+0.4% CD-32+0.5% SMS+5% BWOW SODIUM CHLORIDE+0.7% R-3+0.005 LB/SK STATIC FREE+0.005 GPS FP-6L REMARKS #4: C+0.3% R-3+0.005 LB/SK STATIC FREE+0.005 GPS FP-6L  
 NO CEMENT CIRCULATED TO SURFACE ON BOTH STAGES.

**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.

Field Specialist-Richard F Raines BJ SERVICES, LLC   
 Name and title of cementer's representative Cementing Company Signature  
11211 FM 2920 RD. TOMBALL, TEXAS 77375 (281) 408-2361 04/16/2017  
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

Kathy Thomasson Sr. Regulatory Specialist   
 Typed or printed name of operator's representative Title Signature  
500 W Texas, Suite 1200 Midland, TX 79701 432-221-7409 10/06/17  
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

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

- 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.
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- 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.  
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- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.



# RAILROAD COMMISSION OF TEXAS

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

## Form W-15

Rev. 03/2014

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

### CEMENTING REPORT

#### OPERATOR INFORMATION

Operator Name: Diamondback E&P LLC	Operator P-5 No.: 217012
Cementer Name: BJ SERVICES LLC	Cementer P-5 No.: 403101

#### WELL INFORMATION

District No.: 08	County: ANDREWS	
Well No.: 8LS	API No.: 42-003-47471	Drilling Permit No.: 822151
Lease Name: UL Mason West Unit	Lease No.:	
Field Name: Spraberry (Trend Area)	Field No.: 85280300	

#### I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production		
Drilled hole size (in.): 8 1/2	Depth of drilled hole (ft.): 23,060	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 20# HCP-110	No. of centralizers used: 240
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.): 23,031	Top of liner (ft.):
Hrs. waiting on cement before drill-out: >24	Calculated top of cement (ft.): 720	Cementing date: 5/1/17

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	532	C	SEE REMARKS	1356.6	5918
2	3249	H	SEE REMARKS	3898.9	14181
3					
<b>Total</b>	3781		SEE REMARKS	5255.5	

#### II. CASING CEMENTING DATA

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

#### SLURRY

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

#### III. CASING CEMENTING DATA

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

#### SLURRY

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

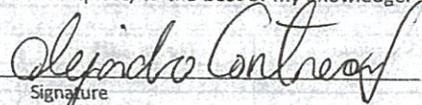
**CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON**

	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)							

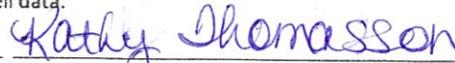
**REMARKS**

LEAD:60;40 CLASS C+5%MPA-5+.50%MPA250+2% A10+.60%SMS+.70% R-21+5#/SK LCM-1+.005#/SK STATIC FREE+.005%GPS FP-6L  
 TAIL:50;50;0 CLASS H+.70%BA-10+.50% CD-32+.50% SMS+.45% R-21+.005 GPS FP-6L+.005#/SK STATIC FREE

**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.

ALEJANDRO CONTRERAS FSIII BJ SERVICES LLC   
 Name and title of cementer's representative Cementing Company Signature  
11211 FM 2920 RD TOMBALL, TEXAS 77375 281-408-2361 5-1-2017  
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

Kathy Thomasson Sr. Regulatory Specialist   
 Typed or printed name of operator's representative Title Signature  
500 W Texas, Suite 1200 Midland, TX 79701 432-221-7409 10/06/17  
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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

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

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.  
 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.  
 To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p\\_dir=&p\\_floc=&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_floc=&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.

Tracking No.: 180585

*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: DIAMONDBACK E&P LLC	District No. 08	Completion Date: 07/28/2017
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 822151	
Lease Name UL MASON WEST UNIT	Lease/ID No. 49200	Well No. 8LS
County ANDREWS	API No. 42- 003-47471	

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

Kathy Thomasson _____ Signature DIAMONDBACK E&P LLC _____ Name (print)	Sr. Staff Regulatory Specialist _____ Title (432) 221-7409 _____ Phone 10/09/2017 _____ Date
---------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------

-FOR RAILROAD COMMISSION USE ONLY-



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.: 180585

1. Field name exactly as shown on proration schedule <b>SPRABERRY (TREND AREA)</b>		2. Lease name as shown on proration schedule <b>UL MASON WEST UNIT</b>		
3. Current operator name exactly as shown on P-5 Organization Report <b>DIAMONDBACK E&amp;P LLC</b>		4. Operator P-5 no. <b>217012</b>	5. Oil Lse/Gas ID no. <b>49200</b>	6. County <b>ANDREWS</b>
8. Operator address including city, state, and zip code <b>500 W TEXAS AVE STE 1200 MIDLAND, TX 79701-4203</b>		9. Well no(s) (see instruction E) <b>8LS</b>		7. RRC district <b>08</b>
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date <b>07/28/2017</b>
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 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
X		ENLINK NORTH TEXAS GATHERING, LP(252776)		50.0
	X	CORONADO MIDSTREAM LLC(179361)		50.0
X	X	AMERICAN MIDSTREAM PERMIAN, LLC(018731)		50.0
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
RELIANCE GATHERING, LLC(701107)				50.0
BRIDGER TRANSPORTATION, LLC(091157)				50.0
<b>RRC USE ONLY:</b> Reviewer's initials: <u>RRC Staff</u> Approval date: <u>01/19/2018</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.				
DIAMONDBACK E&P LLC		Kathy Thomasson		
Name (print)		Signature		
<u>Sr. Staff Regulatory Specialist</u>		<input checked="" type="checkbox"/> Authorized Employee of current operator		<input type="checkbox"/> Authorized agent of current operator (see instruction G)
Title		Date		Phone with area code
<u>kthomasson@diamondbackenergy.com</u>		<u>10/09/2017</u>		<u>(432) 221-7409</u>
E-mail Address (optional)		Date		Phone with area code

# CERTIFICATE OF POOLING AUTHORITY

# P-12

*Revised 05/2001*

1. Field Name(s) <b>Spraberry (Trend Area)</b>	2. Lease/ID Number <i>(if assigned)</i>	3. RRC District Number <b>08</b>
4. Operator Name <b>Diamondback E&amp;P LLC</b>	5. Operator P-5 Number <b>217012</b>	6. Well Number <b>8LS</b>
7. Pooled Unit Name <b>UL Mason West Unit</b>	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County <b>Andrews</b>	11. Total acres in pooled unit <b>800.0</b>	

### DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT <i>(See inst. #7 below)</i>	INDICATE UNDIVIDED INTERESTS	
			UNLEASED	NON-POOLED
1	University Lands	160.0	<input type="checkbox"/>	<input type="checkbox"/>
2	University Lands	320.0	<input type="checkbox"/>	<input type="checkbox"/>
3	University Lands	320.0	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**CERTIFICATION:**

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

*Vicki Edwards*

Vicki Edwards

Signature

Print Name

Regulatory Specialist

01/11/2017

(432) 221-7418

Title

E-mail *(if available)*

Date

Phone

**INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40**

1. 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.
2. 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.
3. If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
4. 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.
5. If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
6. Identify the drill site tract with an \* to the left of the tract identifier.
7. The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 18 January 2017      **GAU Number:** 165774

<b>Attention:</b>	DIAMONDBACK E&P LLC 500 W TEXAS AVE STE 1200 MIDLAND, TX 79701	<b>API Number:</b>	
<b>Operator No.:</b>	217012	<b>County:</b>	ANDREWS
		<b>Lease Name:</b>	UL MASON WEST UNIT
		<b>Lease Number:</b>	
		<b>Well Number:</b>	8LS
		<b>Total Vertical Depth:</b>	9500
		<b>Latitude:</b>	32.415180
		<b>Longitude:</b>	-102.234620
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Abstract-U195; Block-7; Section-10

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 300 feet, and the zone from 1375 to 1775 feet must be protected.

This recommendation is applicable for all wells drilled in this Section 10.

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 01/12/2017. 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

UNIVERSITY 3806  
DEVON ENERGY  
PRODUCTION CO. L.P.

**AJAX  
RESOURCES, LLC**

UNIVERSITY 6-38 1  
AJAX RESOURCES, LLC

**UL MASON WEST UNIT 8LS  
BOTTOM HOLE LOCATION  
M.D. = 23,060'**

**PIONEER  
NATURAL RESOURCES  
USA INC.**

**UL  
A-U180  
SEC. 39  
BLK. 6**

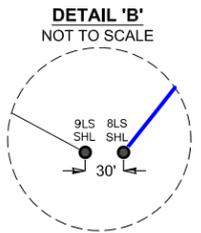
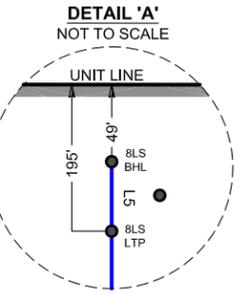
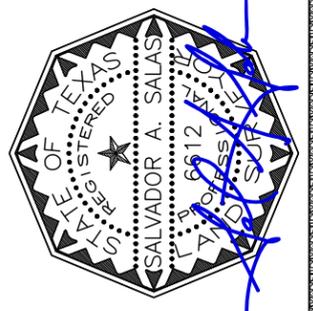
Survey Date: 11/22/16  
Surveyed By: NF/HS  
Drawn by: HR/AA  
Checked by: SS/HR  
Job #: 140205.741

SCALE: 1" = 1000 FEET  
1) COORDINATES SHOWN ARE BASED ON NAD27 TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS NORTH CENTRAL ZONE.  
2) ALL UNIT, TRACT AND LATERAL INFORMATION WAS PROVIDED BY DIAMONDBACK E&P LLC.

AN AS DRILLED WELL LOCATION FOR:  
**DIAMONDBACK E&P LLC  
UL MASON WEST UNIT 8LS**  
SITUATED IN THE U.L. SURVEYS SECTION NO. 10, A-U195, NO. 5, A-U190, OUT OF BLOCK 7, & THE U.L. SURVEYS SECTION NO. 47, A-U185, AND NO. 38, A-U179, OUT OF BLOCK 6, 19.3 MILES NORTHEAST OF ANDREWS IN ANDREWS COUNTY, TEXAS.

**LNW**  
engineers | architects  
SURVEYORS  
FIRM NO. F-396  
TBL-S FIRM NO. 0128500  
WWW.LNWINC.COM

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND 11/22/16. THIS SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.



LINE	LATERAL	DISTANCE
L1	SHL TO FTP	1,051.64'
L2	FTP TO TRACT	5,170.66'
L3	TRACT TO TRACT	5,277.01'
L4	TRACT TO LTP	2,444.31'
L5	LTP TO BHL	145.98'
FTP TO LTP TOTAL :		12,891.98'

TRACT	MINERAL OWNERS	LEASE	ACREAGE
1	UNIVERSITY LANDS	UNIVERSITY 6-38	160.0
2	UNIVERSITY LANDS	UNIVERSITY 6-47	320.0
3	UNIVERSITY LANDS	UNIVERSITY 7-5	320.0
TOTAL:			800.0

