



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
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Other	Multiple completion? No
Electric Log Other Description: RCBL	
Location of well, relative to nearest lease boundaries of lease on which this well is located:	Off Lease : Yes
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
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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 - 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			
<u>Row</u>	<u>Size (in.)</u>	<u>Depth Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
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	
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	SEE FRAC FOCUS	10017 22914

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
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
<b>PUBLIC COMMENTS:</b> [RRC Staff 2017-11-06 15:29:22.584] EDL=12897 feet, max acres=800, SPRABERRY (TREND AREA) oil well
<b>CASING RECORD :</b>
<b>TUBING RECORD:</b>
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>
<b>POTENTIAL TEST DATA:</b>

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Kathy Thomasson	<b>Title:</b> Sr. Staff Regulatory Specialist
<b>Telephone No.:</b> (432) 221-7409	<b>Date Certified:</b> 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?			Setting depth shoe (ft.):	Top of liner (ft.):	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO    If no for surface casing, explain in Remarks.				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	>24	Calculated top of cement (ft.):	0 surface	Cementing date:	3/19/2017

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

Name and title of cementer's representative

O-TEX PUMPING

Cementing Company

Signature

2609 E I-20

Address

Midland TX 79706

City, State, Zip Code

432-686-8559

Tel: Area Code Number

3/19/2017

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.

Kathy Thomasson

Typed or printed name of operator's representative

Sr. Regulatory Specialist

Title

Signature

500 W Texas, Suite 1200

Address

Midland, TX 79701

City, State, Zip Code

432-221-7409

Tel: Area Code Number

10/06/17

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\\_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 If no for surface casing, explain in Remarks.

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

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

### 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.)

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 ☒ 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

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	875	C	SEE REMARKS #1	1883	6012
2	250	H	SEE REMARKS #2	308	983
3					
Total	1125			2191	6995

### 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.)

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 ☒ 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

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1230	C	SEE REMARKS #3	3025	9658
2	250	C	SEE REMARKS #4	331	1056
3					
Total	1480			3356	10714



**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

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**

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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\\_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/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.
- 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.





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

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

### 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? <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:

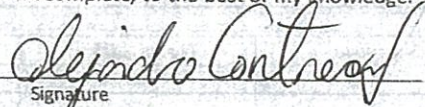
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					



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
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.

<b>ALEJANDRO CONTRERAS FSIII</b>	<b>BJ SERVICES LLC</b>	
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.

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

## Instructions for Form W-15, Cementing Report

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

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

Name (print)

Sr. Staff Regulatory Specialist

Title

(432) 221-7409

Phone

10/09/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



# Radial Cement Bond Gamma Ray Casing Collar Log

Company Well Field County State	UL Mason West Unit 8LS  Andrews Texas	Country U.S.A.	
		Company	
		Well	UL Mason West Unit 8LS
		Field	
County	Andrews	County	Andrews
State	Texas	State	Texas
Country U.S.A.		Country U.S.A.	
Location:		API # : 42-003-47471	Other Services
656' FEL & 901' FNL		N/A	
SEC 47 TWP RGE		Elevation	
Permanent Datum		Ground Level	Elevation 2943'
Log Measured From		Kelly Bushing 32' APD	K.B. 2975'
Drilling Measured From		Kelly Bushing	D.F. 2974
			G.L. 2943'
Date		27-May-2017	
Run Number		One	
Depth Driller		23031'	
Depth Logger		9825'	
Bottom Logged Interval		9823'	
Top Log Interval		Surface	
Open Hole Size		13.375"	
Type Fluid		Water	
Density / Viscosity		-	
Max. Recorded Temp.		181°	
Estimated Cement Top		720'	
Time Well Ready		ROA	
Time Logger on Bottom		14:45 PM	
Equipment Number		W7052	
Location		Midland, Texas	
Recorded By		Miguel A. Vaquera	
Witnessed By			
Borehole Record			
Run Number	Bit	From	To
Tubing Record			
Run Number	Bit	From	To
Casing Record			
Size	Wgt/Ft	Top	Bottom
Surface String	13.375"	54.5 lb.	Surface
Prot. String	9.625"	40 lb.	Surface
Production String	5.5"	20 lb.	Surface
Liner			
Marker Joint	5.5"	20 lb.	8232'-8254'

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

No logs available for correlation  
Log was adjusted to pipe tally  
at customer request

Thank You for using  
Dynasty Wireline Services!!  
Midland, Texas  
(432)363-3100



# MAIN PASS



# 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.: 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>	7. RRC district <b>08</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>				
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) <b>a. Change of:</b> <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>b. New RRC Number for:</b> <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <b>Due to:</b> <input 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 (see instruction A)		11. Effective Date <b>07/28/2017</b>		
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		ENLINK NORTH TEXAS GATHERING, LP(252776)			50.0	
	X	CORONADO MIDSTREAM LLC(179361)		0001	50.0	
X	X	AMERICAN MIDSTREAM PERMIAN, LLC(018731)		0001	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>						
<b>15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING.</b> 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"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b> _____ Date _____ Phone with area code _____		
<b>16. CURRENT OPERATOR CERTIFICATION.</b> 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.						
<b>DIAMONDBACK E&amp;P LLC</b> Name (print) <u>Sr. Staff Regulatory Specialist</u> Title <u>kthomasson@diamondbackenergy.com</u> E-mail Address (optional)				<b>Kathy Thomasson</b> Signature <input checked="" type="checkbox"/> <b>Authorized Employee of current operator</b> <input type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b> _____ Date <u>10/09/2017</u> Phone with area code <u>(432) 221-7409</u>		

**CERTIFICATE OF  
POOLING AUTHORITY**

Revised 05/2001

**P-12**

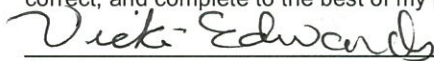
1. Field Name(s) Spraberry (Trend Area)	2. Lease/ID Number (if assigned)	3. RRC District Number 08
4. Operator Name Diamondback E&P LLC	5. Operator P-5 Number 217012	6. Well Number 8LS
7. Pooled Unit Name UL Mason West Unit	8. API Number	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling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

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	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"/>
			<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

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

- 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.



## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 18 January 2017**GAU Number:** 165774**Attention:** DIAMONDBACK E&P LLC  
500 W TEXAS AVE STE 1200  
MIDLAND, TX 79701**Operator No.:** 217012**API Number:**  
**County:** ANDREWS  
**Lease Name:** UL MASON WEST UNIT  
**Lease Number:**  
**Well Number:** 8LS  
**Total Vertical Depth:** 9500  
**Latitude:** 32.415180  
**Longitude:** -102.234620  
**Datum:** 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.

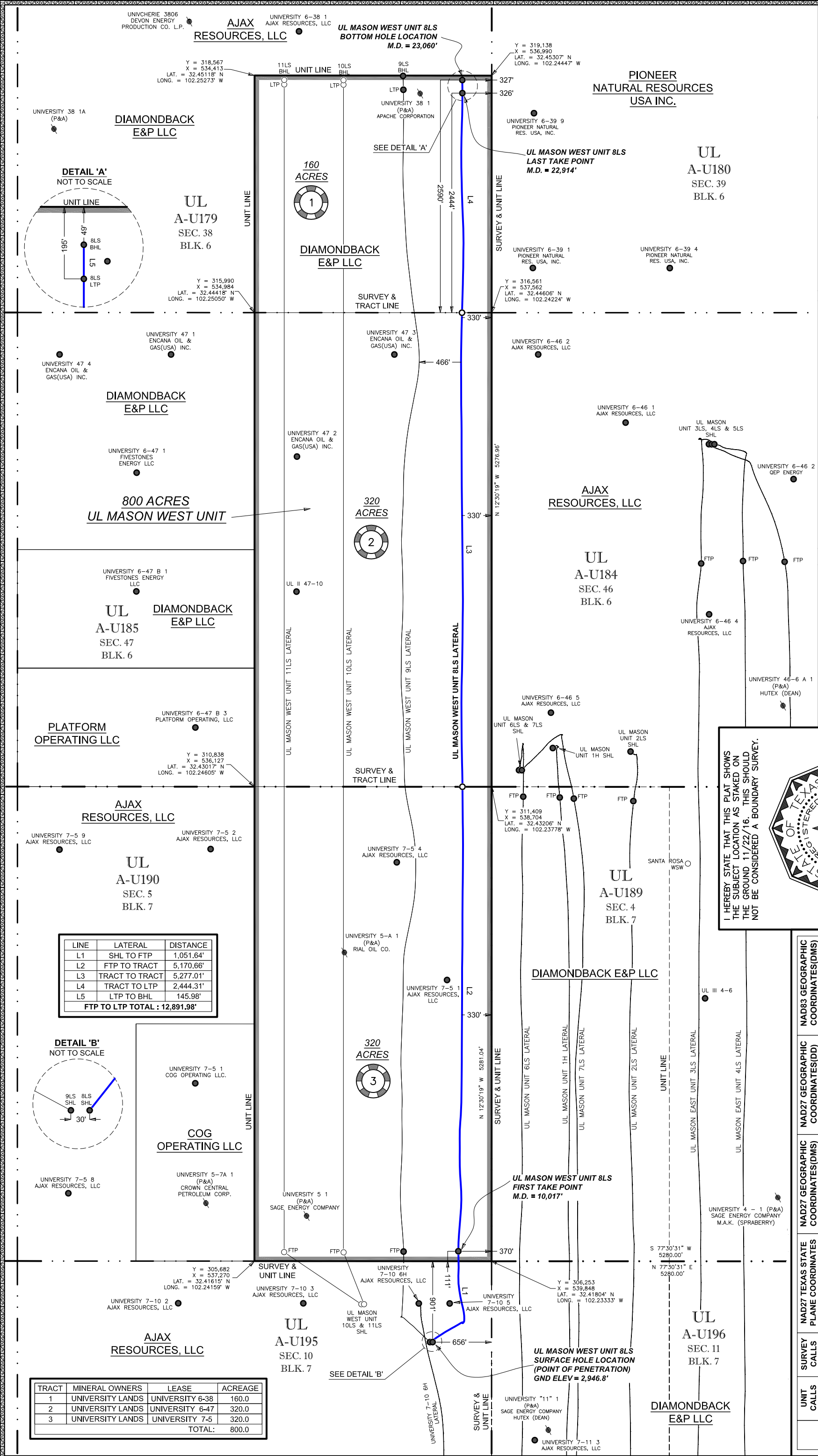
This recommendation is applicable for all wells drilled in this Section 10.

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



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

SCALE: 1" = 1000 FEET

NOTE:  
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  
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TEPE FIRM NO. F-396  
TEPE-LS FIRM NO. 0105500  
surveyors  
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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.

	SURVEY CALLS	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES(DMS)	NAD83 GEOGRAPHIC COORDINATES(DMS)
8LS SHL	OFF LEASE 901' FNL	Y = 305,231 X = 539,402	LAT. = 32°24'55.03" N LONG. = 102°14'06.20" W	LAT. = 32°24'55.03" N LONG. = 102°14'06.20" W
8LS FTP	370' FEL 111' FSL	Y = 306,281 X = 539,463	LAT. = 32°25'05.06" N LONG. = 102°14'04.49" W	LAT. = 32°25'05.06" N LONG. = 102°14'04.49" W
8LS LTP	326' FEL 195' FNL	Y = 318,877 X = 536,714	LAT. = 32°27'08.34" N LONG. = 102°14'43.16" W	LAT. = 32°27'08.34" N LONG. = 102°14'43.16" W
8LS BHL	327' FEL 2,590' FSL	Y = 319,019 X = 536,682	LAT. = 32°27'09.74" N LONG. = 102°14'43.61" W	LAT. = 32°27'09.74" N LONG. = 102°14'43.61" W

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			