



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 02/01/2018
Tracking No.: 182076

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: Initial Potential
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 : No
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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PACKET: N/A

W2:	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: 08/16/2017		Production method: Pumping
Number of hours tested: 24		Choke size: 128
Was swab used during this test?	No	Oil produced prior to test: 11405.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLs): 1283.00		Gas (MCF): 826
Gas - Oil Ratio: 643		Flowing Tubing Pressure:
Water (BBLs): 1798		
CALCULATED 24-HOUR RATE		
Oil (BBLs): 1283.0		Gas (MCF): 826
Oil Gravity - API - 60.:	43.0	Casing Pressure: 190.00
Water (BBLs): 1798		

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			
Row	Size (in.)	Depth	Size (ft.)
1	2 7/8	8781	
			Packer Depth (ft.)/Type
			/

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)?		Yes	
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 04/11/17. NOTE:KOP UPDATED TO 8784'.

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2017-11-06 15:30:38.597] 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: 11/02/2017



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	Setting depth shoe (ft.):		Top of liner (ft.):	
	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:	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

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: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date: 4/16/17

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

II. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.): 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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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 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: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input checked="" type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings		
Drilled hole size (in.): 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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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 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

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.



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: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☒ 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? ☐ YES ☐ 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: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:
Tapered string drilled hole size (in.) Tapered string depth of drilled hole (ft.)
Upper: Lower: Upper: Lower:
Tapered string size of casing in O.D. (in.) Tapered string casing weight (lbs/ft) and grade Tapered string no. of centralizers used
Upper: Lower: Upper: Lower: Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

SLURRY

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

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): Casing weight (lbs/ft) and grade: No. of centralizers used:
Tapered string drilled hole size (in.) 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.):
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.

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

Signature

Typed or printed name of operator's representative

Title

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.

- 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.: 182076

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

11/02/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



Radial Cement Bond Gamma Ray Casing Collar Log

Company Diamondback E&P LLC Well UL Mason West Unit 8LS Field Spraberry (Trend Area) County Andrews State Texas	Country U.S.A.	Company	Diamondback E&P LLC	
		Well	UL Mason West Unit 8LS	
		Field	Spraberry (Trend Area)	
		County	Andrews	
	State	Texas	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				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size	Wgt/Ft	Top	Bottom		
Surface String		13.375"	54.5 lb.	Surface	1851'		
Prot. String		9.625"	40 lb.	Surface	8648'		
Production String		5.5"	20 lb.	Surface	23031'		
Liner							
Marker Joint		5.5"	20 lb.	8232'-8254'	8298'-8322'		

<<< 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.: 182076

1. Field name exactly as shown on proration schedule SPRABERRY (TREND AREA)		2. Lease name as shown on proration schedule UL MASON WEST UNIT					
3. Current operator name exactly as shown on P-5 Organization Report DIAMONDBACK E&P LLC		4. Operator P-5 no. 217012	5. Oil Lse/Gas ID no 49200	6. County ANDREWS	7. RRC district 08		
8. Operator address including city, state, and zip code 500 W TEXAS AVE STE 1200 MIDLAND, TX 79701-4203		9. Well no(s) (see instruction E) 8LS					
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)			11. Effective Date 07/28/2017		
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 Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)							
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	
BRIDGER TRANSPORTATION, LLC(091157)						50.0	
RELIANCE GATHERING, LLC(701107)						50.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>02/01/2018</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 Name (print) Title				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) 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 Name (print) <u>Sr. Staff Regulatory Specialist</u> Title <u>kthomasson@diamondbackenergy.com</u> E-mail Address (optional)				Kathy Thomasson Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) <u>11/02/2017</u> Date <u>(432) 221-7409</u> Phone with area code			

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 42-003-47471	9. Purpose of Filing <input type="checkbox"/> Drilling Permit (W-1) <input checked="" type="checkbox"/> Completion Report
10. County Andrews	11. Total acres in pooled unit 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.

Kathy Thomasson

Signature

Kathy Thomasson

Print Name

Sr. Regulatory Specialist

11/02/2017

(432) 221-7409

Title

E-mail (if available)

Date

Phone

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

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

Clear Form

RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name: Diamondback E&P LLC	Operator P-5 No.: 217012
Operator Address: 500 West Texas Avenue, Suite 1200 Midland, TX 79701	

SECTION II. WELL INFORMATION

District No.: 08	County: Andrews	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 8LS	API No.: 42-003-47471	
Total Lease Acres: 800.0	Drilling Permit No.: 822151	
Lease Name: UL Mason West Unit	Lease No.:	
Field Name: Spraberry (Trend Area)	Field No.: 85280300	

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

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

[illegible]

Total Well Count >	7	800	< A. Total Assigned Horiz. Acreage	1,240	< C. Total Assigned Acreage
			< Total Remaining Horiz. Acreage		< Total Remaining Acreage
		440	< B. Total Assigned Vert./Dir. Acreage		
			< Total Remaining Vert./Dir. Acreage		

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

Encana Oil & Gas (USA) Inc. own and operate wellbores for University Lands 47 #2 & #3. Ajax Resources, LLC is operator of University 7-5 1 & University 7-5 4. Diamondback and Ajax Resources, LLC have a joint operating agreement to drill across Ajax's University 7-5 Lease and Diamondback's UL II 47 lease. UL Mason West Unit is for horizontal development only.

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

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

Kathy Thomasson
Signature

Kathy Thomasson, Sr. Regulatory Specialist

Email (include email address *only* if you affirmatively consent to its public release)

500 W Texas Ave., Suite 1200
Address

Midland	TX	79701
City,	State,	Zip Code

432
Tel: Area Code

221-7409
Number

11/02/2017

Date: mo. day yr.

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

UNIVERSITY 38 1A
DIVISION ENERGY
PRODUCTION CO. L.P.

UNIVERSITY 6-38 1
AJAX RESOURCES, LLC

UL MASON WEST UNIT 8LS
BOTTOM HOLE LOCATION
M.D. = 23,080'

PIONEER
NATURAL RESOURCES
USA INC.

UL
A-U180
SEC. 39
BLK. 6

DIAMONDBACK
E&P LLC

UL
A-U179
SEC. 38
BLK. 6

DIAMONDBACK
E&P LLC

DIAMONDBACK
E&P LLC

800 ACRES
UL MASON WEST UNIT

UL
A-U185
SEC. 47
BLK. 6

PLATFORM
OPERATING LLC

AJAX
RESOURCES, LLC

UL
A-U190
SEC. 5
BLK. 7

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'		

DETAIL 'B'
NOT TO SCALE

UNIVERSITY 7-5 1
COG OPERATING, LLC

COG
OPERATING LLC

UNIVERSITY 5-7A 1
(P&A)
CROWN CENTRAL
PETROLEUM CORP.

AJAX
RESOURCES, LLC

UL
A-U195
SEC. 10
BLK. 7

SEE DETAIL 'B'

DIAMONDBACK E&P LLC

UL
A-U189
SEC. 4
BLK. 7

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.



UNIT	CALLS	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES (DD)	NAD83 GEOGRAPHIC COORDINATES (DD)
8LS SHL	656' FEL	Y = 305,231 X = 539,402	LAT. = 32°24'54.65" N LONG. = 102°24'46.64" W	LAT. = 32°24'55.03" N LONG. = 102°24'46.20" W
8LS FTP	370' FEL	Y = 305,281 X = 539,463	LAT. = 32°25'05.08" N LONG. = 102°24'40.48" W	LAT. = 32°25'05.08" N LONG. = 102°24'40.48" W
8LS LTP	326' FEL	Y = 318,977 X = 536,714	LAT. = 32°27'08.34" N LONG. = 102°24'43.16" W	LAT. = 32°27'08.34" N LONG. = 102°24'43.16" W
8LS BHL	327' FEL	Y = 319,019 X = 536,682	LAT. = 32°27'09.74" N LONG. = 102°24'43.81" W	LAT. = 32°27'09.74" N LONG. = 102°24'43.81" W

TRACT	MINERAL OWNERS	LEASE	ACREAGE
1	UNIVERSITY LANDS	UNIVERSITY 6-38	180.0
2	UNIVERSITY LANDS	UNIVERSITY 6-47	320.0
3	UNIVERSITY LANDS	UNIVERSITY 7-5	320.0
TOTAL: 800.0			