

API No. <u>42-003-47471</u> Drilling Permit # <u>822151</u> SWR Exception Case/Docket No. _____	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>
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1. RRC Operator No. <b>217012</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>DIAMONDBACK E&amp;P LLC</b>	3. Operator Address (include street, city, state, zip): <b>500 W TEXAS AVE STE 1200 MIDLAND, TX 79701-4203</b>
4. Lease Name <b>UL MASON WEST UNIT</b>		5. Well No. <b>8LS</b>

**GENERAL INFORMATION**

6. Purpose of filing (mark ALL appropriate boxes):				
<input checked="" type="checkbox"/> New Drill	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Reclass	<input type="checkbox"/> Field Transfer	<input type="checkbox"/> Re-Enter
<input type="checkbox"/> Amended	<input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)			
7. Wellbore Profile (mark ALL appropriate boxes):				
<input type="checkbox"/> Vertical	<input checked="" type="checkbox"/> Horizontal (Also File Form W-1H)	<input type="checkbox"/> Directional (Also File Form W-1D)	<input type="checkbox"/> Sidetrack	
8. Total Depth <b>10500</b>	9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

**SURFACE LOCATION AND ACREAGE INFORMATION**

11. RRC District No. <b>08</b>	12. County <b>ANDREWS</b>	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore		
14. This well is to be located <u>19.3</u> miles in a <u>NE</u> direction from <u>ANDREWS</u> which is the nearest town in the county of the well site.				
15. Section <b>10</b>	16. Block <b>7</b>	17. Survey <b>UL</b>	18. Abstract No. <b>A-U195</b>	19. Distance to nearest lease line: <b>100</b> ft.
20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>800</b>				
21. Lease Perpendiculars: <u>656</u> ft from the <u>E</u> line and <u>901</u> ft from the <u>N</u> line.				
22. Survey Perpendiculars: <u>656</u> ft from the <u>E</u> line and <u>901</u> ft from the <u>N</u> line.				
23. Is this a pooled unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		24. Unitization Docket No:		
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No				

**FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	85280300	SPRABERRY (TREND AREA)	Oil or Gas Well	9500	0.00	1

**BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)**

<b>Remarks</b>  	<p style="text-align: center;"><b>Certificate:</b></p> <p>I certify that information stated in this application is true and complete, to the best of my knowledge.</p> <p style="text-align: center;"> <u>Jerry Russell</u> <span style="float: right;"><u>Jan 16, 2017</u></span>          Name of filer <span style="float: right;">Date submitted</span> </p> <p style="text-align: center;"> <u>(512)4690064</u> <span style="float: right;"><u>swenergy@texasrrc.com</u></span>          Phone <span style="float: right;">E-mail Address (OPTIONAL)</span> </p>
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**RRC Use Only** Data Validation Time Stamp: Feb 6, 2017 8:19 AM( Current Version )

**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

**Form W-1H** 07/2004  
**Supplemental Horizontal Well Information**

Permit Status: **Approved**  
*The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.*

**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**

*This facsimile W-1 was generated electronically from data submitted to the RRC.  
A certification of the automated data is available in the RRC's Austin office.*

Permit # **822151**  
Approved Date: **Jan 25, 2017**

1. RRC Operator No. <b>217012</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>DIAMONDBACK E&amp;P LLC</b>	3. Lease Name <b>UL MASON WEST UNIT</b>	4. Well No. <b>8LS</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **SPRABERRY (TREND AREA) (Field # 85280300, RRC District 08)**

6. Section <b>38</b>	7. Block <b>6</b>	8. Survey <b>UL</b>	9. Abstract <b>179</b>	10. County of BHL <b>ANDREWS</b>
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11. Terminus Lease Line Perpendiculars <b>330</b> ft. from the <b>E</b> line. and <b>50</b> ft. from the <b>N</b> line
12. Terminus Survey Line Perpendiculars <b>330</b> ft. from the <b>E</b> line. and <b>2590</b> ft. from the <b>S</b> line
13. Penetration Point Lease Line Perpendiculars <b>656</b> ft. from the <b>E</b> line. and <b>901</b> ft. from the <b>N</b> line





**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION  
SWR #13 Formation Data**

**ANDREWS (003) County**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
YATES	2,500	3,200		1	12/17/2013
SEVEN RIVERS	3,000	3,000		2	12/17/2013
QUEEN	3,600	4,800		3	12/17/2013
GRAYBURG	3,100	5,000		4	12/17/2013
SAN ANDRES	3,700	5,300	CO2 flood, high flows, H2S, corrosive	5	12/17/2013
HOLT	5,000	5,500		6	12/17/2013
GLORIETA	5,100	6,000		7	12/17/2013
TUBB	6,100	6,300		8	12/17/2013
CLEARFORK	5,600	7,600		9	12/17/2013
PERMIAN DETRITAL	7,800	7,900		10	12/17/2013
LEON	7,900	7,900		11	12/17/2013
WICHITA ALBANY	6,500	8,100		12	12/17/2013
SPRABERRY	7,300	8,600		13	12/17/2013
DEAN	9,200	9,500		14	12/17/2013
WOLFCAMP	7,500	9,900		15	12/17/2013
CANYON	8,600	10,200		16	12/17/2013
PENNSYLVANIAN	8,700	10,200		17	12/17/2013
MCKEE	8,300	10,600		18	12/17/2013
STRAWN	8,800	11,000		19	12/17/2013
FUSSELMAN	8,400	11,900		20	12/17/2013
DEVONIAN	7,600	12,500		21	12/17/2013
SILURIAN	8,000	12,500		22	12/17/2013
ELLENBURGER	7,900	13,900		23	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.  
<http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

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

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

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

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 300 feet, and the zone from 1375 to 1775 feet must be protected.

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

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

This determination is based on information provided when the application was submitted on 01/12/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

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

UL  
A-U179  
SEC. 38  
BLK. 6

UNIVCHERIE 3806  
DEVON ENERGY  
PRODUCTION CO. L.P.

UNIVERSITY 6-38 1  
AJAX RESOURCES, LLC

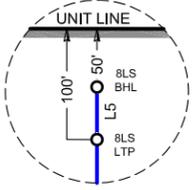
UNIVERSITY 38 1  
(P&A)  
APACHE CORPORATION  
9LS  
BHL

Y = 319,138  
X = 536,990  
LAT. = 32.45307° N  
LONG. = 102.24447° W

Y = 318,567  
X = 534,413  
LAT. = 32.45118° N  
LONG. = 102.25273° W

UNIVERSITY 38 1A  
(P&A)

DETAIL 'A'  
NOT TO SCALE



Y = 315,990  
X = 534,984  
LAT. = 32.44418° N  
LONG. = 102.25050° W

160  
ACRES



DIAMONDBACK  
E&P LLC

SURVEY & TRACT LINE

UNIVERSITY 47 4  
ENCANA OIL &  
GAS(USA) INC.

UNIVERSITY 47 1  
ENCANA OIL &  
GAS(USA) INC.

UNIVERSITY 47 3  
ENCANA OIL &  
GAS(USA) INC.

UNIVERSITY 6-46 2  
AJAX RESOURCES, LLC

Y = 316,561  
X = 537,562  
LAT. = 32.44606° N  
LONG. = 102.24224° W

UNIVERSITY 6-46 1  
AJAX RESOURCES, LLC

UNIVERSITY 6-47 1  
FIVESTONES  
ENERGY LLC

UNIVERSITY 47 2  
ENCANA OIL &  
GAS(USA) INC.

320  
ACRES



DIAMONDBACK  
E&P LLC

800 ACRES  
UL MASON WEST UNIT

UL  
A-U185  
SEC. 47  
BLK. 6

UNIVERSITY 6-47 B 1  
FIVESTONES  
ENERGY LLC

Y = 310,838  
X = 536,127  
LAT. = 32.43017° N  
LONG. = 102.24605° W

UNIVERSITY 7-5 9  
AJAX RESOURCES, LLC

UNIVERSITY 7-5 2  
AJAX RESOURCES, LLC

UL  
A-U190  
SEC. 5  
BLK. 7

UNIVERSITY 5-A 1  
(P&A)  
RIAL OIL CO.

UNIVERSITY 7-5 1  
AJAX RESOURCES, LLC

320  
ACRES

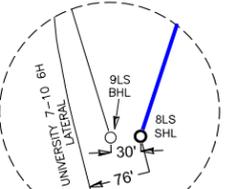


DIAMONDBACK  
E&P LLC

UL MASON WEST UNIT 8LS  
FIRST TAKE POINT

UNIVERSITY 7-5 1  
COG OPERATING LLC.

DETAIL 'B'  
NOT TO SCALE



UNIVERSITY 7-5 8  
AJAX RESOURCES, LLC

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

Y = 305,682  
X = 537,270  
LAT. = 32.41615° N  
LONG. = 102.24159° W

UNIVERSITY 7-10 2  
AJAX RESOURCES, LLC

UNIVERSITY 7-10 3  
AJAX RESOURCES, LLC

UL  
A-U195  
SEC. 10  
BLK. 7

UNIVERSITY 7-10 6H  
AJAX RESOURCES, LLC

UNIVERSITY 7-10 5  
AJAX RESOURCES, LLC

Y = 306,253  
X = 539,848  
LAT. = 32.41804° N  
LONG. = 102.23333° W

UL MASON WEST UNIT 8LS  
SURFACE HOLE LOCATION  
(POINT OF PENETRATION)  
GND ELEV = 2946.8'

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

SEE DETAIL 'B'

UNIVERSITY 7-11 3  
AJAX RESOURCES, LLC

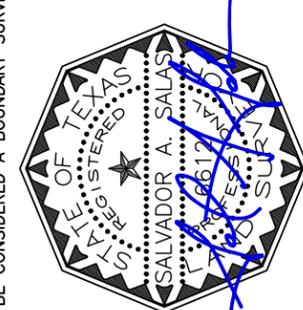
DIAMONDBACK  
E&P LLC

UL  
A-U196  
SEC. 11  
BLK. 7

UNIVERSITY 4 - 1 (P&A)  
SAGE ENERGY COMPANY  
M.A.K. (SPRABERRY)

UNIT CALLS	SURVEY CALLS	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES(DMS)	NAD27 GEOGRAPHIC COORDINATES(DD)	NAD83 GEOGRAPHIC COORDINATES(DMS)
8LS SHL	656' FEL 901' FNL	Y = 305,231 X = 539,402	LAT. = 32°24'54.65" N LONG. = 102°14'04.64" W	LAT. = 32.41518° N LONG. = 102.23462° W	LAT. = 32°24'55.03" N LONG. = 102°14'06.20" W
8LS FTP	330' FEL 100' FSL	Y = 306,280 X = 539,504	LAT. = 32°25'05.06" N LONG. = 102°14'04.01" W	LAT. = 32.41807° N LONG. = 102.23445° W	
8LS LTP	330' FEL 100' FNL	Y = 318,969 X = 536,690	LAT. = 32°27'09.24" N LONG. = 102°14'43.49" W	LAT. = 32.45257° N LONG. = 102.24541° W	
8LS BHL	330' FEL 2,590' FSL	Y = 319,018 X = 536,679	LAT. = 32°27'09.72" N LONG. = 102°14'43.64" W	LAT. = 32.45270° N LONG. = 102.24546° W	

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.



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

**LNW**  
engineers | architects  
801 NAVIGATION SUITE 300  
CORPUS CHRISTI, TX 78408  
WWW.LNWINC.COM  
PH. (817) 883-1984  
FAX. (817) 883-1986

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

SCALE: 1" = 1000 FEET  
NOTE: COORDINATES SHOWN ARE BASED ON NAD27 TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS NORTH CENTRAL ZONE.