API No. RAILROAD COMMISSION OF TEXAS FORM W-1 07/2004 42-301-33110 OIL & GAS DIVISION Drilling Permit # Approved Permit Status: 820301 APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER SWR Exception Case/Docket No. 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. 2. Operator's Name (as shown on form P-5, Organization Report) 1. RRC Operator No. 3. Operator Address (include street, city, state, zip): ATTN FRANK A. DAVIS 020528 ANADARKO E&P ONSHORE LLC PO BOX 1330 4. Lease Name 5. Well No. YELLOWJACKET UL UNIT 19-3 14H HOUSTON, TX 77251-1330 GENERAL INFORMATION ☐ Field Transfer X New Drill Recompletion Reclass Re-Enter 6. Purpose of filing (mark ALL appropriate boxes): ☐ Amended Amended as Drilled (BHL) (Also File Form W-1D) X Horizontal (Also File Form W-1H) ☐ Sidetrack ☐ Vertical Directional (Also File Form W-1D) 7. Wellbore Profile (mark ALL appropriate boxes): 8. Total Depth 9. Do you have the right to develop the 10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? 13000 minerals under any right-of-way? SURFACE LOCATION AND ACREAGE INFORMATION 11. RRC District No. 12. County X Land 13. Surface Location ☐ Bay/Estuary Inland Waterway ☐ Offshore 80 LOVING **MENTONE** 10.8 NE miles in a 14. This well is to be located direction from which is the nearest town in the county of the well site. 17. Survey 18. Abstract No. 15. Section 16. Block 19. Distance to nearest lease line: 20. Number of contiguous acres in 3 lease, pooled unit, or unitized tract: 19 UI A-U3 200 967.62 SOUTH 330 670 ft from the **EAST** 21. Lease Perpendiculars: line. ft from the line and **EAST** 2313 NORTH 670 ft from the line. ft from the line and 22. Survey Perpendiculars: 23. Is this a pooled unit? X Yes X No □ No (attach Form W-1A) 24. Unitization Docket No: FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line. 26. RRC 27. Field No. 28. Field Name (exactly as shown in RRC records) 29. Well Type 30. Completion Depth 31. Distance to Nearest 32. Number of Wells on District No. Well in this Reservoir this lease in this Reservoir 08 13000 330.00 2 71052900 PHANTOM (WOLFCAMP) Oil or Gas Well

[FILER Nov 10, 2016 6:12 PM]: Anadarko owns or controls the development rights of all leased and pooled tracts in the

Data Validation Time Stamp:

Remarks

RRC Use Only

unit.; [RRC STAFF Nov 28, 2016 5:21 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.: IRRC STAFF Nov 29, 2016 12:11 PMI: Problems identified with this permit are resolved.: IRRC STAFF Nov 29, 2016 12:11 PMI: Per Laura Caskey, the P-12 tracts are 100% pooled and leased, so therefore there is no internal lease line Rule 37.

BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS

Dec 6, 2016 8:16 AM(Current Version)

Name of filer

Certificate:

I certify that information stated in this application is true and complete, to the best of my knowledge.

Laura Caskey, Regulatory Analyst I

Nov 11, 2016 Date submitted

(see W-1H attachment)

(832)6361677 Phone

laura.caskey@anadarko.com E-mail Address (OPTIONAL)

Permit Status:

Approved

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

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

Form W-1H **Supplemental Horizontal Well Information**

07/2004

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 # 820301 Approved Date: Nov 29, 2016

1. RRC Operator No. 2. Operator's Name (exactly as shown on form P-5, Organization Report) 4. Well No. 3. Lease Name 14H YELLOWJACKET UL UNIT 19-3 020528 ANADARKO E&P ONSHORE LLC Lateral Drainhole Location Information PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08) 5. Field as shown on Form W-1 6. Section 7. Block 10. County of BHL LOVING 8. Survey 9. Abstract 46 29 PSL / FERGUSON, J L 1047 11. Terminus Lease Line Perpendiculars Е Ν 903 12. Terminus Survey Line Perpendiculars line. and ft. from the Ε Ν 903 60 ft. from the ft. from the line, and line 13. Penetration Point Lease Line Perpendiculars S Ε 330 670 ft. from the line. and ft. from the line

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 820301		DATE PERMIT ISSUED OR AM Nov 29, 2016	ENDED	DISTRICT * 08		8	
API NUMBER	42-301-33110	FORM W-1 RECEIVED Nov 11, 2016		COUNTY	LOVI	NG	
TYPE OF OPER ATI				ACDEC	LOVI	110	
TYPE OF OPERATI	W DRILL	WELLBORE PROFILE(S) Horizontal		ACRES 967.62			
	V DICIEL				NOTI		
OPERATOR O20528 ANADARKO E&P ONSHORE LLC ATTN FRANK A. DAVIS PO BOX 1330 HOUSTON, TX 77251-1330				This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581			
LEASE NAME	17 77251-1550			WELL NU	. ,		
YELLOWJACKET UL UNIT 19-3				14H			
LOCATION 10	.8 miles NE direc	ction from MENTONE		TOTAL D	EPTH	13000	
Section, Block and/or	Survey			•			
SECTION ∢ 3		BLOCK ∢ 19	ABSTRA	ACT ∢ U3			
SURVEY ◀ UL							
DISTANCE TO SURVEY LINES 2313 ft. NORTH 670 ft. EAST				DISTANCE TO NEAREST LEASE LINE 200 ft.			
DISTANCE TO LEASE LINES 330 ft. SOUTH 670 ft. EAST				DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below			
FIELD(s) and LIMIT		EE FIELD DISTRICT FOR RE	PORTING	PURPOS ACRES NEAREST L	DEPTH	WELL # NEAREST WE	DIST
PHANTOM (WOL	•			967.62	13,000	14H	08
YELLOW	JACKET UL UNIT	19-3		200		330	
WELLBORE PRO	FILE(s) FOR FIELD:	Horizontal					
RESTRICTIONS:	isolated and te Fields with SWR individually pr Lateral: TH1 Penetration Poi Lease Lines: Terminus Locati BH County: LO Section: 46	330.0 F S L 670.0 F E L on	and a Form	n H-9 file	d with the lated and t	district offi	Lce.
	Lease Lines: Survey Lines:	60.0 F N L 903.0 F E L 60.0 F N L 903.0 F E L					

THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER	DATE PERMIT ISSUED OR AMENDE	DISTRICT	
820301	Nov 29, 2016	* 08	
API NUMBER	FORM W-1 RECEIVED	COUNTY	
42-301-33110	Nov 11, 2016	LOVING	
TYPE OF OPERATION	WELLBORE PROFILE(S)	ACRES	
NEW DRILL	Horizontal	967.62	
OPERATOR	NOTICE		
ANADARKO E&P ONSHO	This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the		
ATTN FRANK A. DAVIS	Commission is not honored.		
PO BOX 1330	District Office Telephone No: (432) 684-5581		
HOUSTON, TX 77251-1330	` '		
LEASE NAME YELLOWJACK	WELL NUMBER 14H		
LOCATION	TOTAL DEPTH		
10.8 miles NE direc	13000		
Section, Block and/or Survey			
section ∢ 3	ACT ∢ U3		
survey ∢ UL			
DISTANCE TO SURVEY LINES	DISTANCE TO NEAREST LEASE LINE		
2313 ft. NORT	200 ft.		
DISTANCE TO LEASE LINES 330 ft. SOUT	DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIFI D(s) and I IMITATIONS:		,	

FIELD(s) and LIMITATIONS:

FIELD NAME ACRES DEPTH WELL # DIST LEASE NAME NEAREST LEASE NEAREST WE

This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.

This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.

^{*} SEE FIELD DISTRICT FOR REPORTING PURPOSES *

RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION

SWR #13 Formation Data

LOVING (301) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RED BLUFF	3,900	3,900		1	12/17/2013
BELL CANYON	4,700	4,700		2	12/17/2013
BRUSHY CANYON	6,000	6,000		3	12/17/2013
DELAWARE	3,000	6,500		4	12/17/2013
CHERRY CANYON	3,700	7,800		5	12/17/2013
BONE SPRINGS	8,200	9,800		6	12/17/2013
WOLFCAMP	11,000	12,900		7	12/17/2013
PENNSYLVANIAN	14,900	15,000		8	12/17/2013
STRAWN	14,700	15,000		9	12/17/2013
ATOKA	15,200	16,000	high pressure	10	12/17/2013
MORROW	15,700	17,000		11	12/17/2013
DEVONIAN	17,800	17,800		12	12/17/2013
FUSSELMAN	18,900	19,000		13	12/17/2013
ELLENBURGER	21,000	21,000		14	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



Operator No.:

Groundwater Advisory Unit

Date Issued:15 November 2016GAU Number:163186

Attention: ANADARKO E&P ONSHORE API Number:

ATTN FRANK A. DAVIS County: LOVING

HOUSTON, TX 77251 Lease Name: YELLOWJACKET UL UNIT 19-3

Lease Number:

Well Number: 14H

Total Vertical Depth: 13000

Latitude: 31.719983

Longitude: -103.415409

Datum: NAD27

Purpose: New Drill

020528

Location: Survey-UNIVERSITY LAND; Abstract-NONE; Block-19; Section-3

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

The interval from the land surface to the base of the Rustler, which is estimated to occur at a depth of 1000 feet, must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

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 11/11/2016. 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

