

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD Artesia
FORM APPROVED
OMB NO. 1004-0137
Expires: January 1, 2018
5. Lease Serial No.
AMN1848314**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator VANGUARD OPERATING LLC		7. If Unit or CA/Agreement, Name and/or No.
Contact: KYLE ZIMMERMANN E-Mail: kzimmerman@vnrllc.com		8. Well Name and No. WILLIAMS A FEDERAL 16
3a. Address 5847 SAN FELIPE, SUITE 3000 HOUSTON, TX 77057	3b. Phone No. (include area code) Ph: 432-202-0145	9. API Well No. 30-015-42116-00-S1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T17S R28E SESW 0990FSL 2160FWL 32.800522 N Lat, 104.198795 W Lon		10. Field and Pool or Exploratory Area ARTESIA
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Vanguard Operating, LLC requests to recompleate this well to the San Andres and DHC as follows:

MIRUSU. TOH w/ all production equipment. Set a 5-1/2" CBP @ ~3,370' (existing Yeso perforations are @ 3,424-3,517') & PT csg and CBP to 1,000 psig for 30 minutes and chart casing integrity test. PT CBP to 3,500 psig. Perforate lower San Andres @ ~3,053-3,278' w/ ~33 holes. Stimulate w/ ~1,500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh, ~131,775# 40/70 Ottawa, & ~72,450# 40/70 Coolset sand in slick water. Set a 5-1/2" CBP @ ~3,040' & PT to 3,500 psig. Perforate middle San Andres @ ~2,766-3,026' w/ ~33 holes. Stimulate w/ ~1,500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh, ~149,100# 40/70 Ottawa, & ~79,800# 40/70 Coolset sand in slick water. Set a 5-1/2" CBP @ ~2,710' & PT to 3,500 psig. Perforate upper San Andres @ ~2,377-2,676' w/ ~32 holes. Stimulate w/ ~1,500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh, ~174,300# 40/70 Ottawa, & ~92,400# 40/70 Coolset sand in slick water. CO after frac, drill out CBP's @ 2,710' & 3,040' & CO to CBP @ 3,370'. Land tbg and

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DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #488819 verified by the BLM Well Information System For VANGUARD OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 10/21/2019 (20PP0178SE)	
Name (Printed/Typed) KYLE ZIMMERMANN	Title OPERATIONS ENGINEER I
Signature (Electronic Submission)	Date 10/18/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JONATHON SHEPARD</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>10/30/2019</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>Carlsbad</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RSP 11-5-19

Additional data for EC transaction #488819 that would not fit on the form

32. Additional remarks, continued

rod pump @ ~3,200' and test SA. Complete as a single San Andres well. Following a test of the San Andres alone and the submittal and approval of State and BLM DHC applications, the CBP @ 3,370' will be removed and the well producing DHC with San Andres and Yeso.

Revisions to Operator-Submitted EC Data for Sundry Notice #488819

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	RCMPL NOI	RCMPL NOI
Lease:	NMNM048344	NMNM048344
Agreement:		
Operator:	VANGUARD OPERATING, LLC 5847 SAN FELIPE, SUITE 3000 HOUSTON, TX 77057 Ph: 832-377-2255	VANGUARD OPERATING LLC 5847 SAN FELIPE, SUITE 3000 HOUSTON, TX 77057 Ph: 832-377-2243
Admin Contact:	KYLE ZIMMERMANN OPERATIONS ENGINEER E-Mail: kzimmerman@vnrenergy.com Ph: 432-202-0145	KYLE ZIMMERMANN OPERATIONS ENGINEER I E-Mail: kzimmerman@vnrlc.com Ph: 432-202-0145
Tech Contact:	KYLE ZIMMERMANN OPERATIONS ENGINEER E-Mail: kzimmerman@vnrenergy.com Ph: 432-202-0145	KYLE ZIMMERMANN OPERATIONS ENGINEER I E-Mail: kzimmerman@vnrlc.com Ph: 432-202-0145
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	RED LAKE; QN-GRBG-SA	ARTESIA
Well/Facility:	WILLIAMS A FEDERAL 16 Sec 29 T17S R28E Mer NMP SESW 990FSL 2160FWL	WILLIAMS A FEDERAL 16 Sec 29 T17S R28E SESW 0990FSL 2160FWL 32.800522 N Lat, 104.198795 W Lon

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Conditions of Approval for Workover/Deepening of a Well

1. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612
2. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
3. Cement: Notify BLM if cement fails to circulate.
4. Subsequent Reporting: Within 30 days after work is completed, file a Subsequent Report (Form 3160-5) to BLM. The report should give in detail the manner in which the work was carried out. Show date work was completed. If producing a new zone, submit a Completion Report (Form 3160-4) with the Subsequent Report.
5. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
6. If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken: From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.