

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTRECEIVED  
OCD Artesia

NOV 06 2018

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010WELL COMPLETION OR RECOMPLETION REPORT AND LOG  
DISTRICT II-ARTESIA O.C.D.5. Lease Serial No.  
NMNM048344

- 1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
- b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Resvr.
- Other **RECOMPLETION**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
VANGUARD OPERATING LLCContact: MIKE PIPPIN  
E-Mail: mike@pippinllc.com8. Lease Name and Well No.  
WILLIAMS A FEDERAL 103. Address 5847 SAN FELIPE, SUITE 3000  
HOUSTON, TX 770573a. Phone No. (include area code)  
Ph: 505-327-45739. API Well No.  
30-015-40480-00-52

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface SWSW 600FSL 645FWL

At top prod interval reported below SWSW 353FSL 339FWL

At total depth SWSW 335FSL 336FWL

10. Field and Pool, or Exploratory  
RED LAKE-QUEEN-GRAYBURG-SA11. Sec., T., R., M., or Block and Survey  
or Area Sec 29 T17S R28E Mer NMP12. County or Parish  
EDDY13. State  
NM14. Date Spudded  
07/25/201215. Date T.D. Reached  
08/05/201216. Date Completed  
☐ D & A ☐ Ready to Prod.  
08/14/201817. Elevations (DF, KB, RT, GL)\*  
3645 GL18. Total Depth: MD 3750  
TVD 367319. Plug Back T.D.: MD 3695  
TVD 360720. Depth Bridge Plug Set: MD 3350  
TVD 327121. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CASEDHOLENEUTRO22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☐ No ☒ Yes (Submit analysis)

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J-55	24.0	0	434		280	68	0	0
7.875	5.500 J-55	17.0	0	3743		750	214	0	0

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	3240							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>SAN ANDRES</b>	1143	3314	1880 TO 2191		31	OPEN - San Andres
B)			2355 TO 2691		33	OPEN - San Andres
C)			2895 TO 3251		36	OPEN - San Andres
D)			3403 TO 3585		40	SI BELOW CBP @ 3350' - GL-Yes

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
1880 TO 2191	1500 GAL 15% HCL & FRACED W/31,570# 100 MESH & 224,711# 40/70 SAND IN SLICK WATER
2355 TO 2691	1500 GAL 15% HCL & FRACED W/31,345# 100 MESH & 289,041# 40/70 SAND IN SLICK WATER
2895 TO 3251	1500 GAL 15% HCL & FRACED W/30,045# 100 MESH & 290,708# 40/70 SAND IN SLICK WATER
3403 TO 3585	2000 GAL 7.5% HCL & FRACED W/2000# 100 MESH, 57,080# BRADY, & 24,615# 16/30 SIBER PROP SAND

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/13/2018	08/25/2018	24	→	90.0	122.0	204.0			ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→	90	122	204	1356	POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NOV - 1 2018
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

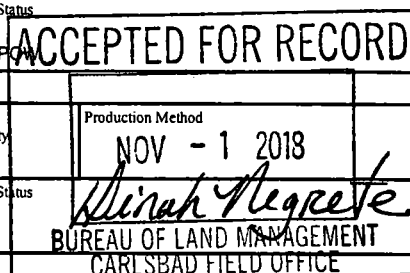
(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #435658 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

Accepted For Record

NMOCD



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GRAYBURG	1602	1928	OIL & GAS	YATES	313
SAN ANDRES	1928	3314	OIL & GAS	SEVEN RIVERS	547
GLORIETA	3314			QUEEN	1143
YESO	3437			GRAYBURG	1602
				SAN ANDRES	1928
				GLORIETA	3314
				YESO	3437

## 32. Additional remarks (include plugging procedure):

THIS IS FOR A RECOMPLETION FROM YESO TO SAN ANDRES.

Following a few months production from the San Andres, the CBP @ 3350' will be removed & the well will be DHC with the Yeso as per the approved BLM DHC application on 6/2/14 and State order DHC-4673.

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
- 7 Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #435658 Verified by the BLM Well Information System.  
For VANGUARD OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by DINAH NEGRETE on 11/01/2018 (19DCN0007SE)

Name (please print) MIKE PIPPIN

Title PETROLEUM ENGINEER

Signature \_\_\_\_\_ (Electronic Submission)

Date 09/18/2018

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.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***