

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOIL CONSERVATION  
OCD Artesia

MAR 19 2018

FORM APPROVED  
OMB No 1004 0137  
Expires July 31 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No  
NMLC046250B1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Rev. ☐ Other \_\_\_\_\_

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

2 Name of Operator  
VANGUARD OPERATING, LLC Contact MIKE PIPPIN  
E-Mail mike@pippinllc.com8 Lease Name and Well No  
WILLIAMS B FEDERAL 113 Address C/O MIKE PIPPIN 3104 N SULLIVAN  
FARMINGTON, NM 874013a Phone No (include area code)  
Ph 505-327-45739 API Well No  
30-015-41889 -52

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

At surface SENW 2300FNL 1650FWL

At top prod interval reported below SENW 2300FNL 1650FWL

At total depth SENW 2300FNL 1650FWL

10 Field and Pool, or Exploratory  
RED LAKE, SAN ANDRES 9725311 Sec, T, R, M, or Block and Survey  
or Area Sec 29 T17S R28E Mer12 County or Parish  
EDDY COUNTY13 State  
NM14 Date Spudded  
03/08/201415 Date T D Reached  
03/11/201416 Date Completed  
☐ D & A ☐ Ready to Prod  
12/18/201717 Elevations (DF, KB, RT, GL)\*  
3647 GL18 Total Depth MD  
TVD 353819 Plug Back T D MD  
TVD 352520 Depth Bridge Plug Set MD  
TVD 330021 Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CASED HOLE NEUTRON LOG22 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 Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
12 250	8 625 J-55	24 0	0	437		300	71	0	0
7 875	5 500 J-55	17 0	0	3535		685	197	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	3065							

25 Producing Intervals

26 Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
RED LAKE, SAN ANDRES 97253	1879	3251	1887 TO 2324		35	OPEN
B)			2400 TO 2701		31	OPEN
C)			2750 TO 3087		33	OPEN
D)			3370 TO 3510	0 340	36	SI BELOW CBP @ 3300'

27 Acid Fracture Treatment Cement Squeeze Etc

Depth Interval	Amount and Type of Material
1887 TO 2324	2000 GAL 15% HCL & FRACED W/30 037# 100 MESH & 179 756# 40/70 SAND IN SLICK WATER
2400 TO 2701	1500 GAL 15% HCL & FRACED W/29 959# 100 MESH & 257 340# 40/70 SAND IN SLICK WATER
2750 TO 3087	1000 GAL 15% HCL & FRACED W/30 124# 100 MESH & 282 116# 40/70 SAND IN SLICK WATER
3370 TO 3510	2500 GAL 15% HCL & FRACED W/73 060# 16/30 & 18 060# 16/30 RESIN 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
12/17/2017	01/29/2018	24	→	55 0	166 0	345 0			ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	SI		→	55	166	345	3018	POV	

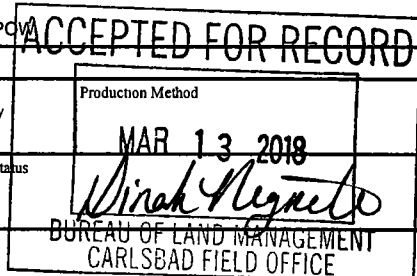
28a Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	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 #403366 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



## 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
SAN ANDRES	1879	3251	OIL & GAS	QUEEN	1130
GLORIETA	3251	3370	OIL & GAS	GRAYBURG	1544
YESO	3370		OIL & GAS	SAN ANDRES	1879
				GLORIETA	3251
				YESO	3370
				7 RIVERS	565

## 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, it will be DHC with the Yeso as per the approved BLM DHC application and State order DHC-4733

## 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 #403366 Verified by the BLM Well Information System  
For VANGURARD OPERATING, LLC, sent to the Carlsbad

Name (please print) MIKE PIPPIN

Title PETROLEUM ENGINEER

Signature (Electronic Submission)

Date 02/05/2018

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

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***