

NM OIL CONSERVATION

ARTESIA DISTRICT

OCDA Artesia  
MAR 19 2018

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No 1004-0137  
Expires July 31 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No  
NMLC046250B

1a Type of Well  Oil Well  Gas Well  Dry  Other

b Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvz  
Other \_\_\_\_\_

2 Name of Operator VANGURARD OPERATING, LLC Contact MIKE PIPPIN  
E-Mail mike@pippinllc.com

3 Address C/O MIKE PIPPIN 3104 N SULLIVAN FARMINGTON, NM 87401 3a Phone No (include area code) Ph 505-327-4573

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface SENW 1650FNL 2285FWL  
At top prod interval reported below SENW 1650FNL 2285FWL  
At total depth SENW 1650FNL 2285FWL

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

8 Lease Name and Well No WILLIAMS B FEDERAL 10

9 API Well No 30-015-41778 - 52

10 Field and Pool, or Exploratory RED LAKE, SAN ANDRES 97253

11 Sec, T, R, M, or Block and Survey or Area Sec 29 T17S R28E Mer

12 County or Parish EDDY COUNTY 13 State NM

14 Date Spudded 12/20/2013 15 Date T D Reached 12/24/2013 16 Date Completed  D & A  Ready to Prod. 12/19/2017 17 Elevations (DF, KB, RT, GL)\* 3624 GL

18 Total Depth MD 3615 TVD 19 Plug Back T D MD 3562 TVD 20 Depth Bridge Plug Set MD 3300 TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each) CASED HOLE NEUTRON LOG 22 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 Skis & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
12 250	8 625 J-55	24 0	0	426		300	72	0	0
7 875	5 500 J-55	17 0	0	3610		630	194	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	3115							

25 Producing Intervals 26 Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
RED LAKE, SAN ANDRES 97253	1862	3231	2024 TO 2281		33	OPEN
B)			2390 TO 2661		32	OPEN
C)			2740 TO 3101		36	OPEN
D)			3350 TO 3510	0 340	33	SI BELOW CBP @ 3300'

27 Acid, Fracture, Treatment, Cement Squeeze, Etc

Depth Interval	Amount and Type of Material
2024 TO 2281	2000 GAL 15% HCL & FRACED W/29 485# 100 MESH & 178 369# 40/70 SAND IN SLICK WATER
2390 TO 2661	1500 GAL 15% HCL & FRACED W/30 642# 100 MESH & 266 746# 40/70 SAND IN SLICK WATER
2740 TO 3101	1000 GAL 15% HCL & FRACED W/30 233# 100 MESH & 313 825# 40/70 SAND IN SLICK WATER
3350 TO 3510	2500 GAL 15% HCL & FRACED W/61 252# 16/30 & 22 780# 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
12/20/2017	01/09/2018	24	→	68 0	158 0	247 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		→	68	158	247	2324	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
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	SI		→						

ACCEPTED FOR RECORD  
MAR 13 2018  
Dinah Negrete  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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
GLORIETA	1862	3231	OIL & GAS	QUEEN	1121
GLORIETA	3231	3348	OIL & GAS	GRAYBURG	1536
YESO	3348		OIL & GAS	SAN ANDRES	1862
				GLORIETA	3231
				YESO	3348
				7 RIVERS	556

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-4745

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 #403290 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