

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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 _____

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.com**

3. Address **5847 SAN FELIPE, SUITE 3000 HOUSTON, TX 77057** 3a. Phone No. (include area code) **505-327-4573**

4. Location of Well (Report location clearly and in accordance with Federal requirements)
 At surface **NWSW 2310FSL 0330FWL 32.804072 N Lat, 104.204717 W Lon**
 At top prod interval reported below **NWSW 2310FSL 330FWL**
 At total depth **NWSW 2310FSL 330FWL**

8. Lease Name and Well No. **WILLIAMS A FEDERAL 14**
 9. API Well No. **30-015-41891-00-52**

10. Field and Pool, or Exploratory **RED LAKE-QUEEN-GRAYBURG-SA**
 11. Sec., T., R., M., or Block and Survey or Area **Sec 29 T17S R28E Mer NMP**
 12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **01/04/2014** 15. Date T.D. Reached **01/09/2014** 16. Date Ready to Prod. **06/25/2018**

17. Elevations (DF, KB, RT, GL)* **3620 GL**

18. Total Depth: **MD 3600 TVD** 19. Plug Back T.D.: **MD 3549 TVD** 20. Depth Bridge Plug Set: **MD 3250 TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **CASEDHOLENEUTRO**
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

**NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 20 2018**

RECEIVED

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	427		300	72	0	0
7.875	5.500 J-55	17.0	0	3596		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	3051							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) SAN ANDRES	1088	3182	1782 TO 2006		34	Open - San Andres
B)			2170 TO 2583		37	Open - San Andres
C)			2664 TO 3072		36	Open - San Andres
D)			3305 TO 3510		42	SI - RBP @ 3250' (Plan to Commir

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

Depth Interval	Amount and Type of Material
1782 TO 2006	2000 GAL 15% HCL & FRACED W/29,485# 100 MESH & 178,369# 40/70 SAND IN SLICK WATER
2170 TO 2583	1500 GAL 15% HCL & FRACED W/30,642# 100 MESH & 266,746# 40/70 SAND IN SLICK WATER
2664 TO 3072	1000 GAL 15% HCL & FRACED W/30,233# 100 MESH & 313,825# 40/70 SAND IN SLICK WATER
3305 TO 3510	2500 GAL 15% HCL & FRACED W/76,571# 16/30 & 17,915# 16/30 RESIN COATED 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
06/30/2018	07/18/2018	24	→	64.0	110.0	316.0			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		→	64	110	316	1719	POW	

ACCEPTED FOR RECORD
SEP 13 2018
Dinah Maguete
 BUREAU OF LAND MANAGEMENT
 CARLSBAD FIELD OFFICE

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		→						

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 YESO	3182	3302		SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETA YESO	523
	3302	3600			1088 1508 1815 3182 3302

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 @ 3250' will be removed & the well will be DHC with the Yeso as per the approved BLM DHC application on 7/7/15 and State order DHC-4755.

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 #431794 Verified by the BLM Well Information System.
For VANGUARD OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by DINAH NEGRETE on 09/14/2018 (18DCN0073SE)

Name (please print) MIKE PIPPIN Title PETROLEUM ENGINEER

Signature _____ (Electronic Submission) Date 08/17/2018

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 ****