

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-104  
Revised Feb. 26, 2007

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to Appropriate District Office  
5 Copies

AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address <b>VANGUARD OPERATING, LLC</b> c/o Mike Pippin LLC, 3104 N. Sullivan Farmington, NM 87401		<sup>2</sup> OGRID Number <b>258350</b>
		<sup>3</sup> Reason for Filing Code/ Effective Date Re-completion
<sup>4</sup> API Number <b>30 - 015-41890</b>	<sup>5</sup> Pool Name <b>Artesia; Queen-Grayburg-San Andres</b>	<sup>6</sup> Pool Code <b>51300</b>
<sup>7</sup> Property Code <b>315559</b>	<sup>8</sup> Property Name <b>WILLIAMS A FEDERAL</b>	<sup>9</sup> Well Number <b>12</b>

**II. <sup>10</sup> Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	29	17-S	28-E		330	SOUTH	2200	WEST	EDDY

**<sup>11</sup> Bottom Hole Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	17-S	28-E		331	SOUTH	1642	WEST	EDDY

<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date READY	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
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**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
005108	Sentinel Transportation LLC 4001 E. 42 <sup>nd</sup> Street, Suite 307, Odessa, TX 79762	O
151618	Frontier Field Service LLC 4200 Skelly Drive, Suite 700, Tulsa, OK 74135	G
<b>NM OIL CONSERVATION ARTESIA DISTRICT SEP 19 2018 RECEIVED</b>		

**IV. Well Completion Data**

<sup>21</sup> Spud Date 2/28/14	<sup>22</sup> Ready Date WO: 8/17/18	<sup>23</sup> TD MD3700'	<sup>24</sup> PBTD MD3655' CBP@3480'	<sup>25</sup> Perforations MD1980'-3290'	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
12-1/4"	8-5/8" 24	437'	300 sx H		
7-7/8"	5-1/2" 17#	MD3694'	300 sx 35/65 C + 335 sx C		
	2-7/8" tubing	MD3273'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 8/16/18	<sup>32</sup> Gas Delivery Date 8/16/18	<sup>33</sup> Test Date 8/23/18	<sup>34</sup> Test Length 24 hrs	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil (bbbls) 127	<sup>39</sup> Water (bbbls) 255	<sup>40</sup> Gas (MCF) 235		<sup>41</sup> Test Method Pumping

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Mike Pippin</i> Printed name: Mike Pippin Title: Petroleum Engineer - Agent E-mail Address: mike@pippinllc.com Date: 9/17/18 Phone: 505-327-4573	OIL CONSERVATION DIVISION Approved by: <i>Rusty Klein</i> Title: <i>Business Ops Spec A</i> Approval Date: <i>9-27-18</i>
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Pending BLM approvals will subsequently be reviewed and scanned

10/5/18

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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 VANGURARD OPERATING, LLC Contact: MIKE PIPPIN  
 E-Mail: mike@pippinllc.com

8. Lease Name and Well No.  
WILLIAMS A FEDERAL 12

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

9. API Well No. 30-015-41890

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface SESW 330FSL 2200FWL  
 At top prod interval reported below NWSE 335FSL 1679FWL  
 At total depth SESW 331FSL 1642FWL

10. Field and Pool, or Exploratory  
RED LAKE, Q-GB-SA 51300  
 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 02/28/2014  
 15. Date T.D. Reached 03/06/2014  
 16. Date Completed  D & A  Ready to Prod. 08/17/2018

17. Elevations (DF, KB, RT, GL)\*  
3710 GL

18. Total Depth: MD 3700 TVD 3591  
 19. Plug Back T.D.: MD 3655 TVD 3546  
 20. Depth Bridge Plug Set: MD 3480 TVD 3383

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J-55	24.0	0	437		300	72	0	0
7.875	5.500 J-55	17.0	0	3694		635	181	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	3273							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
RED LAKE, Q-G-SA 51300	1219	3430	1980 TO 2199		32	OPEN
B)			2461 TO 2777		33	OPEN
C)			2920 TO 3290		33	OPEN
D)			3436 TO 3618		40	SI BELOW CBP @ 3480'

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

Depth Interval	Amount and Type of Material
1980 TO 2199	1500 GAL 15% HCL & FRACED W/29,430# 100 MESH & 163,130# 40/70 SAND IN SLICK WATER
2461 TO 2777	1500 GAL 15% HCL & FRACED W/30,100# 100 MESH & 243,950# 40/70 SAND IN SLICK WATER
2920 TO 3290	1500 GAL 15% HCL & FRACED W/30,240# 100 MESH & 292,260# 40/70 SAND IN SLICK WATER
3536 TO 3618	2500 GAL 15% HCL & FRACED W/54,545# 16/30 & 18,866# 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
08/16/2018	08/23/2018	24	→	127.0	235.0	255.0			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			→	127	235	255	1850	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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

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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	1682	2014	OIL & GAS	QUEEN	1219
SAN ANDRES	2014	3430	OIL & GAS	GRAYBURG	1682
				SAN ANDRES	2014
				GLORIETA	3430
				YESO	3462
				7 RIVERS	626

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 @ 3480' 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-4756.

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 #435636 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 09/17/2018

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

5. Lease Serial No.  
NMNM048344

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

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

3a. Address  
3104 N SULLIVAN  
FARMINGTON, NM 87401

3b. Phone No. (include area code)  
Ph: 505-582-1515

8. Well Name and No.  
WILLIAMS A FEDERAL 12

9. API Well No.  
30 58-015-41890

10. Field and Pool or Exploratory Area  
RED LAKE, Q-GB-SA 51300

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 29 T17S R28E SESW 330FSL 2200FWL

11. County or Parish, State  
EDDY COUNTY, NM

SEP 19 2018

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 recomplete 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 recompletion 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.

THIS IS THE RE-COMPLETION OF THIS WELL TO SAN ANDRES.

On 7/30/18, MIRUSU. TOH w/rods, pump, & tbg. Set 5-1/2" CBP @ 3480'. (Existing Yeso perms are @ 3536'-3618'). PT 5-1/2" csg to 1000 psi with certified chart recorder for 35 min-OK. See attached chart. PT csg to 4500 psi for 15 min-OK.  
On 8/7/18, perfed San Andres @ 2920'-3290' w/33 holes. On 8/10/18, treated new perms w/1500 gal 15% HCL acid & fraced w/30,240# 100 mesh & 292,260# 40/70 sand in slick water. Spotted 500 gal 15% HCL across next stage.  
Set 5-1/2" CBP @ 2865'. Perfed SA @ 2461'-2777' w/33 holes. Treated new San Andres perms w/1000 gal 15% HCL & fraced w/30,100# 100 mesh & 243,950# 40/70 sand in slick water. Spotted 500 gal 15% HCL across next stage.  
Set 5-1/2" CBP @ 2350'. Perfed SA @ 1980'-2199' w/32 holes. Treated new SA perms w/1000 gal 15% HCL

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #432369 verified by the BLM Well Information System For VANGURARD OPERATING, LLC, sent to the Carlsbad**

Name (Printed/Typed) MIKE PIPPIN Title PETROLEUM ENGINEER

Signature (Electronic Submission) Date 08/22/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE

Pending BLM approvals will subsequently be reviewed and scanned  
9-27-18

Approved By \_\_\_\_\_ Title \_\_\_\_\_

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 \_\_\_\_\_

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

10/15/18

**Additional data for EC transaction #432369 that would not fit on the form**

**32. Additional remarks, continued**

& fraced w/29,430# 100 mesh & 163,130# 40/70 sand in slick water.  
On 8/13/18, MIRUSU. CO after frac, drilled CBPs @ 2350' & 2865', & CO to CBP @ 3480'. On 8/15/18, landed 2-7/8" 6.5# J-55 tbg @ 3273'. Ran pump & rods. Released completion rig on 8/17/18. After production has stableized in a few months, we plan to remove the CBP @ 3480' & DHC as per State order DHC-4756 & the approved BLM DHC on 7/7/15.