

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTEMNRD-OCD ARTESIA
REC'D: 07/31/2020FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM97122

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr. Other DHC; C1 + C2			7. Unit or CA Agreement Name and No.		
2. Name of Operator VANGUARD OPERATING, LLC Contact: MIKE PIPPIN E-Mail: mike@pippinllc.com			8. Lease Name and Well No. CHALK FEDERAL 2		
3. Address C/O MIKE PIPPIN 3104 N SULLIVAN FARMINGTON, NM 87401			9. API Well No. 30-015-29706		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENW 1980FNL 2310FWL At top prod interval reported below SENW 1980FNL 2310FWL At total depth SENW 1980FNL 2310FWL			10. Field and Pool, or Exploratory RED LAKE, GL-YESO 51120		
14. Date Spudded 10/10/2000			15. Date T.D. Reached 10/16/2000		
16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 12/26/2000			17. Elevations (DF, KB, RT, GL)* 3496 GL		
18. Total Depth: MD 3221 TVD			19. Plug Back T.D.: MD 3184 TVD		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) LDT-CNL-GR, DLL-GR		
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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	1168		575		0	0
7.875	5.500 K-55	14.0	0	3219		550		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	2952							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
RED LAKE, Q-GRY-SA 51300	C1 1645	2784	2784 TO 3050		24	OPEN C2
RED LAKE, GL-YESO 51120	C2 2784		1645 TO 1914		24	OPEN C1
C)			2252 TO 2462		21	OPEN C1
D)						

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

Depth Interval	Amount and Type of Material
2784 TO 3050	4000 GAL 15% NEFE
1645 TO 1914	400 GAL 15% NENE, 56,000 GAL VIKING 25 FLUID + 100,360# 16/30
2252 TO 2462	4000 GAL 15% HCL + 20,000 GAL GELLED & HEATED 20% HCL + 30,000 40# LINEAR GEL + 5000 GAL 15% NEFE

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
12/14/2000	12/26/2000	24	→	18.0	30.0	120.0			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	
			→	18	30	120	1667	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
12/14/2000	10/01/2001	744	→	42.0	62.0	1224.0			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	
			→	1	2	39		POW	

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

ELECTRONIC SUBMISSION #477243 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 GLORIETA-YESO	1645 2784	1964 3035	OIL & GAS OIL & GAS	SAN ANDRES GLORIETA YESO	1645 2784

32. Additional remarks (include plugging procedure):

THIS IS THE RECORDS CLEANUP FOR A WELL THAT HAS BEEN DHC FOR 18 YEARS BUT ITS PRODUCTION ATTRIBUTED TO ONLY ONE POOL. CHRIS WALLS REQUESTED THIS APPROACH TO THE RECORDS PROBLEM.

This oil well was opened in both the Red Lake, Glorieta-Yeso and the Red Lake, Queen-Grayburg-San Andres in December 2000. On 12/26/00, the well was completed in and only initially producing from the Red Lake, Queen-Grayburg-San Andres with a RBP set between the two pools at 2515'. On 9/23/01, additional San Andres was perfed and the RBP at 2515' removed resulting in the DHC of the two pools. However, all production since

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 #477243 Verified by the BLM Well Information System.
For VANGUARD OPERATING, LLC, sent to the Carlsbad

Name (please print) MIKE PIPPIN

Title PETROLEUM ENGINEER

Signature (Electronic Submission)

Date 08/08/2019

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.

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Additional data for transaction #477243 that would not fit on the form

32. Additional remarks, continued

9/23/2001 has been given to the Red Lake, Queen-Grayburg-San Andres although the two pools were actually DHC. Interests in these two pools are identical. We have applied for a Records Cleanup DHC order from the State. See the attached WBD, allocation calculations, C-107A, and production curve. The production allocations were calculated u