

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD ArtesiaFORM 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

8. Well Name and No.

Multiple--See Attached Williams A Jed # 10

9. API Well No. 30502540980
Multiple--See Attached

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

VANGUARD OPERATING LLC

Contact: KYLE ZIMMERMANN

E-Mail: kzimmerman@vnrlc.com

3a. Address

5847 SAN FELIPE, SUITE 3000
HOUSTON, TX 77057

3b. Phone No. (include area code)

Ph: 432-202-0145

10. Field and Pool or Exploratory Area

RED LAKE-QUEEN-GRAYBURG-SA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Multiple--See Attached

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleate 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 recompleation 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.

Vanguard Operating, LLC requests an extension to the sundry submitted and approved by the prior operator (LRE Operating) dated May 2014. The recompleation operations have not changed from the approved sundry and are outlined as follows:

MIRUSU. TOH w/ all production equipment. Set a 5-1/2" CBP @ ~3350' & PT 5-1/2" csg and CBP to 3500 psi. (Existing Yeso perms are @ 3403-3585'). Perf lower San Andres @ ~2896-3251' w/ ~33 holes. Stimulate w/ ~1500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh & ~316,875# 40/70 Ottawa sand in slick water. Set a 5-1/2" CBP @ ~2800' and PT to 3500 psi. Perf middle San Andres @ ~2324-2692' w/ ~33 holes. Stimulate w/ ~1500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh & ~316,875# 40/70 Ottawa sand in slick water. Set a 5-1/2" CBP @ ~2,260' & PT to 3,500 psi. Perf upper San Andres @ ~1880-2193' w/ ~31 holes. Stimulate w/ ~1500 gals 15% HCL acid & frac w/ ~30,000# 100 mesh & ~253,500# 40/70 Ottawa sand in slick water. CO after frac, drill out CBP's @ 2260' & 2800' & CO to

GC 123-18
Accepted for record - NMOCD

RECEIVED

NOV 28 2018

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #428903 verified by the BLM Well Information System
For VANGUARD OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/27/2018 (18PP2364SE)

Name (Printed/Typed) KYLE ZIMMERMANN

Title OPERATIONS ENGINEER I

Signature (Electronic Submission)

Date 07/26/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JONATHON SHEPARD

Title PETROLEUM ENGINEER

Date 11/14/2018

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 Carlsbad

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.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #428903 that would not fit on the form

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM048344	NMNM048344	WILLIAMS A FEDERAL 10	30-015-40480-00-S1	Sec 29 T17S R28E SWSW 600FSL 645FWL
NMNM048344	NMNM048344	WILLIAMS A FEDERAL 10	30-015-40480-00-S2	Sec 29 T17S R28E SWSW 600FSL 645FWL

32. Additional remarks, continued

CBP @ 3350'. Land tbg and rod pump @ ~3050 and test SA.

LEASE/WELL: WILLIAMS A FEDERAL #10

SURF LOCATION: 600' FSL & 645' FWL
BH LOCATION: 335' FSL & 336' FWL
M-29-T175-R28E

CO/ST: EDDY COUNTY, NEW MEXICO

FIELD: ARTESIA; GLORIETA-YESO

API NO. 30-015-40480

GR 3645

SFUDDER 7/25/2012

COMPLETED 8/13/2012 ORIGINAL YESO COMPLETION

LAT 32.799511

LONG -104.2043304

FORMATION TOPS PER C-105

YATES 313

SEVEN RIVERS 547

QUEEN 1143

GRAYBURG 1602

SAN ANDRES 1928

GLORIETA 3314

YESO 3437

DEVIATION SURVEY DATA

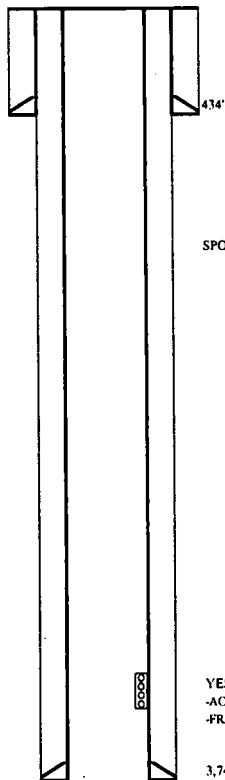
MD (ft)	Inclination (deg)	Azimuth (deg)
466	0.2	176.5
498	0.4	202.6
530	1.2	243.7
561	2.4	245
593	3.82	245
625	5.3	245.1
656	6.7	241.7
688	8.3	237.2
720	9.8	232.1
751	11.3	227.8
783	12.7	227.4
815	14.7	228.9
847	16.4	229.2
878	18.1	230.9
910	19.8	231.8
942	21.5	231.9
1005	24.7	232.1
1037	26.4	229.9
1068	28	227.9
1100	28.3	228.4
1132	27.5	227.8
1163	27.3	227.1
1195	27.6	227
1227	27.2	226.5
1259	28.1	225.5
1290	27.9	224.9
1322	28.1	225.5
1354	27.5	225.1
1385	26.8	224.6
1446	23.6	230.8
1477	22.1	236.5
1509	19.9	243.7
1541	18.5	248.4
1573	16.7	248.8
1604	14.7	246
1636	13.3	245.2
1668	12.3	240.9
1699	10.9	236.4
1731	9.5	232.6
1763	7.1	227
1785	5.9	224.9
1817	4.9	220.4
1848	3.5	197.5
1880	2.6	155.3
1912	3.3	118.6
1944	3.5	121.3
1975	3.1	138.6
2007	3.1	170.5
2039	2.7	195.6
2070	2.6	202.3
2102	1.9	221.7
2134	1.7	231
2166	1.2	326.4
2197	1.5	348.4
2229	1.5	347.6
2261	1.6	350.6
2293	1.6	348.9
2356	1.7	345.4
2419	1.8	343.6
2483	0.5	28.3
2546	0.4	63.5
2610	0.3	34
2673	0.4	24.7
2736	0.6	28.7
2800	0.7	131.4
2863	1.1	136.9
2927	1.1	141.5
2990	1.2	149.5
3054	1.3	166.2
3117	1.4	181.7
3212	1.5	205.6
3307	1.6	218.2
3466	1.1	214.6
3684	1.4	214.6
3750	1.4	214.6

12-1/4" HOLE

8-5/8" 24# J-55
CMT W/ 280 SX. CIRC.

7-7/8" HOLE

5-1/2" 17# J-55
CMT W/ 750 SX. CIRC.



SPOT CMT FROM MD 1,375-1,873: DRESS OFF TO KOP @ 1,412' & SIDETRACK

YESO PERFS: 3,403-3,585' (40 HOLES)
-ACIDIZE W/ 2,000 GALS 7.5%
-FRAC W/ 2,000# 100 MESH & 57,080# 16/30 BRADY & 24,615# 16/30 SIBERPROP SAND IN XL GEL.

PBTD: 3,695'
TD: 3,750' MD

KDZ 07-26-2018

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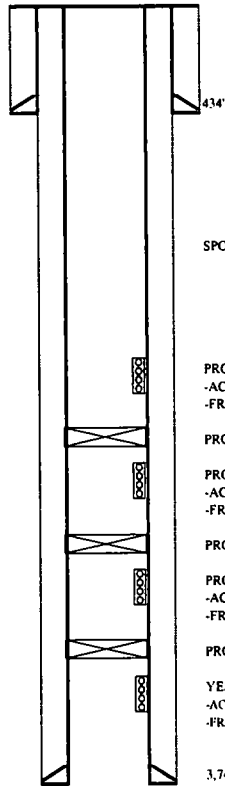
PROPOSED

12-1/4" HOLE

8-5/8" 24# J-55
CMT W/ 280 SX. CIRC.

7-7/8" HOLE

5-1/2" 17# J-55
CMT W/ 750 SX. CIRC.



PBTD: 3,695'
TD: 3,750' MD

SPOT CMT FROM MD 1,375-1,873'. DRESS OFF TO KOP @ 1,412' & SIDETRACK

PROPOSED UPPER SAN ANDRES PERFS: 1,880-2,193' (31 HOLES)
-ACIDIZE W/ 1,500 GALS 15%
-FRAC W/ 30,000# 100 MESH & 253,500# 40/70 OTTAWA SAND IN SW

PROPOSED CBP @ 2,260'

PROPOSED MIDDLE SAN ANDRES PERFS: 2,324-2,692' (33 HOLES)
-ACIDIZE W/ 1,500 GALS 15%
-FRAC W/ 37,500# 100 MESH & 316,875# 40/70 OTTAWA SAND IN SW

PROPOSED CBP @ 2,800'

PROPOSED LOWER SAN ANDRES PERFS: 2,896-3,251' (33 HOLES)
-ACIDIZE W/ 1,500 GALS 15%
-FRAC W/ 37,500# 100 MESH & 316,875# 40/70 OTTAWA SAND IN SW

PROPOSED CBP @ 3,350'

YESO PERFS: 3,403-3,585' (40 HOLES)
-ACIDIZE W/ 2,000 GALS 7.5%
-FRAC W/ 2,000# 100 MESH & 57,080# 16/30 BRADY & 24,615# 16/30 SIBERPROP SAND IN XL GEL.

3,743'

KDZ 07-26-2018