

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
DISTRICT IV ARTESIA O.C.D.

WELL API NO. 30-015-22249
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. K-6653
7. Lease Name or Unit Agreement Name Millman H.D. State Com
8. Well Number 2
9. OGRID Number 258350
10. Pool name or Wildcat South Millman (Morrow)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Vanguard Operating LLC	
3. Address of Operator 5847 San Felipe Ste 3000 Houston Texas 77057	
4. Well Location Unit Letter <u>B</u> : <u>660</u> feet from the <u>North</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>17</u> Township <u>19S</u> Range <u>28E</u> NMPM <u>Eddy</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,525 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☒ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

1. Notify NMOCD 24 hrs before rigging up.
2. MIRU WS. LD production equipment.
3. RU WL. Set CIBP at 10,720' (top perf 10,813). Cap with 35ft of cement.
4. Fill casing with treated water and pressure test casing to 500 psig for thirty minutes. Record pressure chart. Open all casing valves (bradenhead and intermediate) during the internal pressure tests and report a flow or pressure change occurring immediately before, during or immediately after the 30 minute pressure test.
5. RD WS & WL
6. File subsequent C103 complete with chart.

Notify OCD 24 hrs prior to any work done.

TA status may be granted after a successful MIT test is performed. Contact the OCD to schedule the test so it may be witnessed.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE M. Bloodworth TITLE Permian District Superintendent DATE 10/15/2018
Type or print name C.M. "Marty" Bloodworth, P.E. E-mail address: mbloodworth@vnrenergy.com PHONE: 432-770-9738

For State Use Only

APPROVED BY: [Signature] TITLE Staff Mgr DATE 10-16-18
Conditions of Approval (if any):

LEASE/WELL: MILLMAN H.D. STATE COM #2

LOCATION 660' FNL & 1,980' FEL
B-17-T19S-R28E

CO/ST: EDDY COUNTY, NEW MEXICO

FIELD: MILLMAN; MORROW, SOUTH

API NO. 30-015-22249

GR 3525

SPUDDED 8/20/1977

COMPLETED 11/10/1977

LAT 32.6659203
LONG -104.1959305

INCLINATION SURVEY DATA

MD (ft)	Inclination (deg)
195	1.5
425	1
910	1.5
1062	1
1573	1
2079	0.75
2262	0.5
2486	1.75
2968	1
3461	1
3892	1.25
4392	1.25
4892	1.5
5392	1.25
5774	0.25
6212	0.5
6713	1
7212	1.25
7700	1
8178	2.25
8687	2.25
9187	2
9515	2.5
10023	1.75
10523	1
10852	1.5
11160	1.5

FORMATION TOPS PER C-105

SAN ANDRES	2319
BONE SPRINGS	3403
WOLFCAMP	8538
CANYON	9292
STRAWN	9695
ATOKA	10230
MORROW	10776
CHESTER	11126

17-1/2" HOLE

13-3/8" 48# ST&C
CMT W/ 360 SX. CIRC.

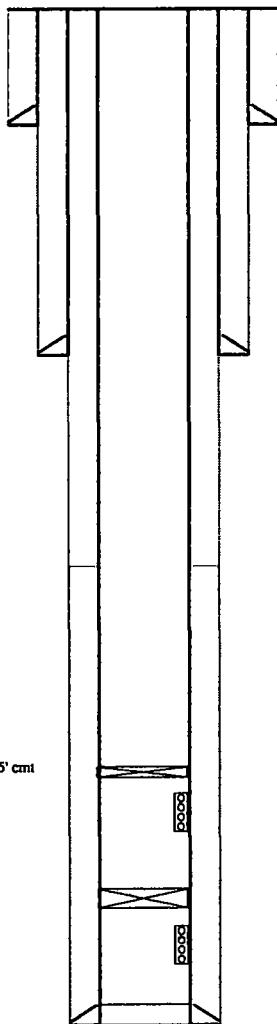
12-1/4" HOLE

8-5/8" 24#
CMT W/ 750 SX

7-7/8" HOLE

Proposed
CIBP at 10,720' Cap w/ 35' cmt

5-1/2" 17# N-80
CMT W/ 580 SX.



425'

2,486'

TOC @ 7,000'

UPPER MORROW PERFS: 10,813-10,818' (20 HOLES)
-ACIDIZE W/ 1,000 GALS 7.5% ACID
-FRAC W/ 13,000 GALS LINEAR GEL & 70 QUALITY FOAM
& 20,000# 20/40 TEMPERED DUAL COAT SAND

CIBP @ 11,075'. CAP W/ 35' CMT

MORROW PERFS: 11,096-11,106' (40 HOLES)

11,168'

PBTD: 11,160'
TD: 11,171'