

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

WELL API NO. 30-015-26369
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SOUTH CULEBRA BLUFF 23
8. Well Number 9
9. OGRID Number 258350
10. Pool name or Wildcat EAST LOVING DELAWARE

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 PERMIAN LLC

3. Address of Operator
1209 SOUTH MAIN ST, LOVINGTON, NM 88260

4. Well Location

Unit Letter O: 660 feet from the SOUTH line and 980 feet from the EAST line
Section 23 Township 23S Range 28E NMPM EDDY County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3002 GL

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

NOTICE OF INTENTION TO:

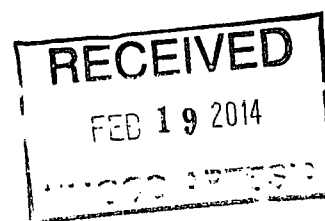
PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

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.

SEE ATTACHMENT



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 Gaye Heard TITLE AGENT DATE 2-18-14

Type or print name GAYE HEARD E-mail address: gheard@oilreportsinc.com PHONE: 575-393-2727

For State Use Only

APPROVED BY: T. C. Shepard TITLE "Geologist" DATE 2-19-2014

Conditions of Approval (if any):

VANGUARD PERMIAN LLC

SOUTH CULEBRA BLUFF 23 #9

Sec 23 T23S R28E API #30-015-26369

1. MIRU completion rig and test anchors.
2. Kill well with 2% KCl water, if necessary. Unseat pump and POOH w/ rods and pump.
3. ND WH and NU BOP. Release TAC and POOH w/ tubing.
4. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scraper and 2-7/8" tubing. Clean out hole to PBTD (6303') until clean returns, POOH
5. MI wireline w/ packoff. RIH GR/CCL & Casing guns, correlate to the Atlas Density/Neutron/GR log dated 6/7/1990.
6. MU 3-1/8" casing guns set at 2 spf, 120° phasing (0.38" hole, 39.5" penetration).
7. Perforate as follows:
 - a. 5762' - 5772' (10', 20 shots)
 - b. 5808' - 5823' (15', 30 shots)
 - c. 5912' - 5920' (8', 16 shots)
 - d. 5966' - 5998' (32', 64 shots)
 - e. 6036' - 6050' (14', 28 shots), total 158 shots
8. RD wireline.
9. PU a 5-1/2" RBP and a 5-1/2" Arrowset I packer on tubing and RIH to ~6100' and set RBP.
10. Pull up to set Arrowset packer at ~5750'. Load tubing/hole with 2 % KCl and set packer. Test csg/packer down backside to 3500 psi.
11. MIRU pump truck and test lines to 3500 psi.
12. Pump 4500 gals 15% NEFE acid with rock salt.
 - a. Pump 500 gal then pump 2000 lbs rock salt over next 3000 gals.
 - b. Pump last 1000 gals and flush to 6050'.
 - c. Record ISIP, 5 min, 10 min and 30 min.
13. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry.
14. Release Arrowset packer and GIH to retrieve RBP at ~6100', POOH.
15. Lay out packer and RBP.
16. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing.
17. RIH w/ rods and pump.
18. RD & MO.
19. Turn well on to production.



SCB 23 #9

Loving East - 30-015-26369

Eddy County, New Mexico

PROPOSED COMPLETION - 1/2014

KB: 3016.9'

GL: 3002'

TOC @ surf

350 sxs

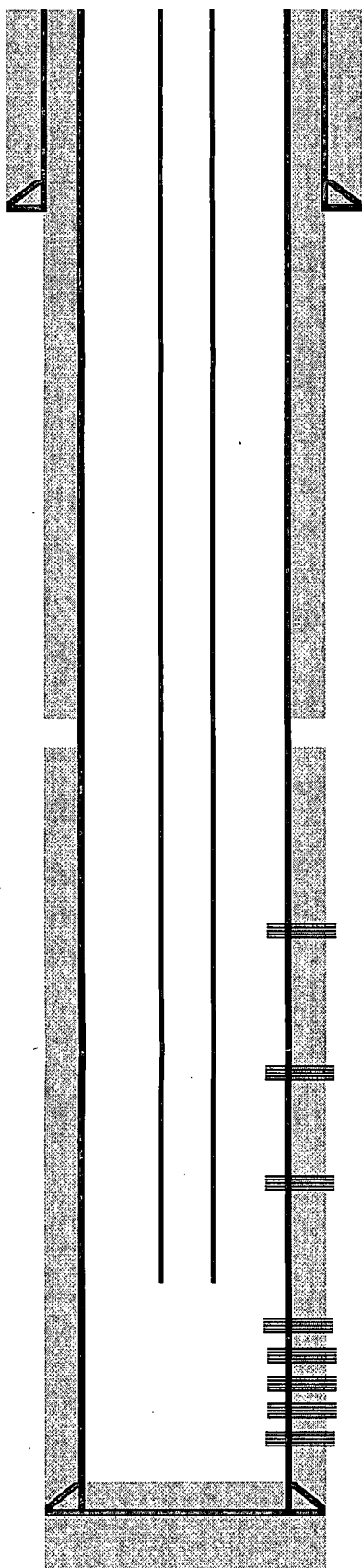
8 5/8" csg @ 545'

TOC @ surf

950 sxs

DV Tool @ 3479'

5 1/2" csg @ 6350'

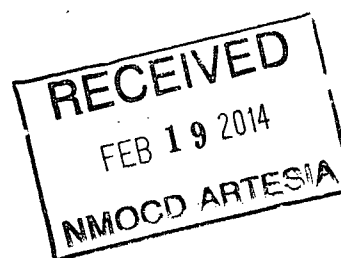


CASING PROGRAM

Depth	Size	Weight	Grade	I.D.	Collapse	Burst
545'	8 5/8"	24#	J-55	8.097	1,370	2,950
6350'	5 1/2"	15.5#	J-55	4.950	4,040	4,810

PRODUCTION TUBING

Depth	Size	Weight	Grade	Threads
6162'	2 7/8"	6.5#	J-55	EUE



Brushy Canyon AA Perforations:

5,762' - 5,772' (2 spf, 20 holes)

5,808' - 5,823' (2 spf, 30 holes)

5,858' - 5,860' (6 spf, 13 holes)

5,912' - 5,920' (2 spf, 16 holes)

PROPOSED

PROPOSED

PROPOSED

Brushy Canyon A Perforations:

5,950' - 5,952' (5 spf, 10 holes)

5,966' - 5,998' (2 spf, 64 holes)

Frac'd AA, A&B together in 2005

PROPOSED

Brushy Canyon B Perforations:

6,030' - 6,032' (5 spf, 10 holes)

6,036' - 6,050' (2 spf, 28 holes)

PROPOSED

Brushy Canyon C Perforations:

6,138' - 6,140' (2 spf, 8 holes)

6,148' - 6,150' (2 spf, 8 holes)

6,156' - 6,160' (2 spf, 8 holes)

6,164' - 6,180' (2 spf, 32 holes)

6,205' - 6,209' (2 spf, 8 holes)

Frac'd in 1990

PBTD = 6,340' FC

Note: This schematic is not to scale. For display purposes only.



SCB 23 #9
Loving East - 30-015-326369
Eddy County, New Mexico
 CURRENT COMPLETION - 1/2014

KB: 3016.9'

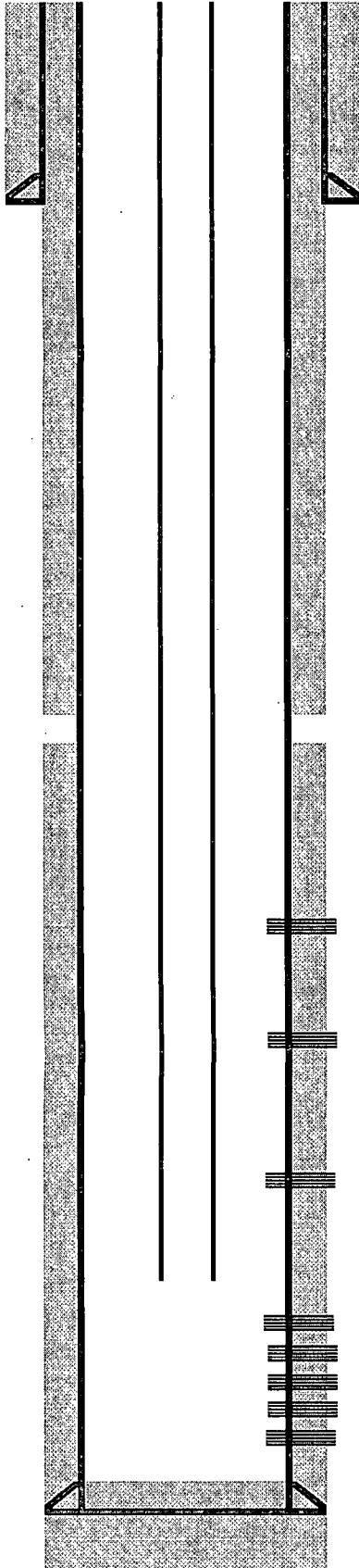
GL: 3002'

TOC @ surf
 350 sxs

8 5/8" csg @ 545'

TOC @ surf
 950 sxs
 DV Tool @ 3479'

5 1/2" csg @ 6350'



CASING PROGRAM

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
545'	8 5/8"	24#	J-55	8.097	1,370	2,950
6350'	5 1/2"	15.5#	J-55	4.950	4,040	4,810

PRODUCTION TUBING

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Threads</u>
6162'	2 7/8"	6.5#	J-55	EUE

Brushy Canyon AA Perforations:
 5,858' - 5,860' (6 spf, 13 holes)

Brushy Canyon A Perforations:
 5,950' - 5,952' (5 spf, 10 holes)

Brushy Canyon B Perforations:
 6,030' - 6,032' (5 spf, 10 holes)

Brushy Canyon C Perforations:
 6,138' - 6,140' (2 spf, 8 holes)
 6,148' - 6,150' (2 spf, 8 holes)
 6,156' - 6,160' (2 spf, 8 holes)
 6,164' - 6,180' (2 spf, 32 holes)
 6,205' - 6,209' (2 spf, 8 holes)

Frac'd AA, A&B together in 2005

Frac'd in 1990

PBTD = 6,340' FC

Note: This schematic is not to scale. For display purposes only.

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
JUN 19 2014
NMOCD ARTESIA

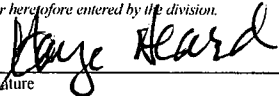
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

¹ API Number 30-015-26369	² Pool Code 40370	³ Pool Name EAST LOVING DELAWARE
⁴ Property Code 312399	⁵ Property Name SOUTH CULEBRA BLUFF 23	⁶ Well Number 9
⁷ OGRID No. 258350	⁸ Operator Name VANGUARD PERMIAN LLC	⁹ Elevation 3002

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	23S	28E		660	SOUTH	1980	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <div><div></div><div>2-18-14</div></div> <div>SignatureDate</div> <div>GAYE HEARD</div> <div>Printed Name</div> <div>gheard@oilreportsinc.com</div> <div>E-mail Address</div>
					18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>
					<div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> <div>Certificate Number</div>