

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. 30-015-33606
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 10
9. OGRID Number 258350
10. Pool name or Wildcat LOVING BRUSHY CANYON, EAST

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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator VANGUARD PERMIAN LLC	
3. Address of Operator 1209 SOUTH MAIN ST, LOVINGTON, NM 88260	
4. Well Location Unit Letter _____ P: 330 feet from the SOUTH line and 330 feet from the EAST line Section 23 Township 23S Range 28E NMPM EDDY County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

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

NOTICE OF INTENTION TO:

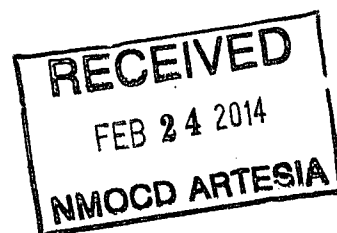
PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

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 2-21-14

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 2-24-2014
Conditions of Approval (if any):

VANGUARD PERMIAN LLC

SOUTH CULEBRA BLUFF 23 #10

API# 30-015-33606 Sec 23 T23S R28E

Here is the procedure:

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. MU 3-1/8" casing guns set at 4 spf, 120° phasing (0.38" hole, 39.5" penetration).
5. Perforate as follows:
 - a. 5963' - 5972' (9', 36 shots)
 - b. 5996' - 6028' (32', 128 shots)
 - c. 6082' - 6094' (6', 48 shots)
 - d. 6166' - 6170' (4', 16 shots), total 228 shots
6. RD wireline.
7. PU a 5-1/2" Arrowset I packer and RIH to ~5950'. Load tubing/hole with 2 % KCl and set packer. Test csg/packer down backside to 3500 psi.
8. MIRU pump truck and test lines to 3500 psi.
9. Pump 4000 gals 15% NEFE acid with rock salt.
 - a. Pump 500 gal then pump 4000 lbs rock salt over next 3000 gals.
 - b. Pump last 500 gals and flush to 6164'.
 - c. Record ISIP, 5 min, 10 min and 30 min.
10. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry.
11. Load hole and release packer, POOH and lay out 2-7/8" tubing.
12. MI wireline w/ packoff. RIH CBP, GR/CCL & correlate to the Halliburton Spectral Density/Neutron/GR log dated 5/27/2005
13. Set CBP at ~5920' and test CBP to 1500 psi, dump sand on top.
14. MU 3-1/8" casing guns set at 2 spf, 120° phasing (0.38" hole, 39.5" penetration).
15. Perforate as follows:
 - a. 5790' - 5794' (4', 8 shots)
 - b. 5832' - 5835' (3', 2 shots)
 - c. 5880' - 5886' (6', 12 shots)
16. RD wireline.
17. PU a 5-1/2" Arrowset packer and 3-1/2" tubing and RIH with tubing to ~5760' and set packer. Test tubing going in the hole to 5000 psi. (3-1/2" L-80 is rated to 8,640 psi Burst)
18. MIRU pump truck (with 2000 gals acid) and test lines to 4500 psi.
 - a. Pump 1000 gals 15% NEFE acid with 20 ball sealers.
 - b. Pump last 1000 gals and flush to 5886'.
 - c. Record ISIP, 5 min, 10 min and 30 min.

VANGUARD PERMIAN LLC

SOUTH CULEBRA BLUFF 23 #10

API# 30-015-33606 Sec 23 T23S R28E

19. Wait at least 1 hr then RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry, if possible.
20. RDMO completion rig.
21. RU frac Co. and test lines & pump as per frac schedule.
22. Monitor ISIP, 5 min, 10 min, 15 min. Flowback until well dies.
23. MIRU completion rig.
24. PU a 4-3/4" bit, sand bailer and 2-7/8" tubing and RIH. Clean out the well as needed and knockout the CBP to comingle all zones, POOH.
25. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing.
26. RIH w/ rods and pump.
27. RD & MO.
28. Turn well on to production.



SCB 23 #10
Loving East - 30-015-33606
Eddy County, New Mexico
PROPOSED COMPLETION - 1/2014

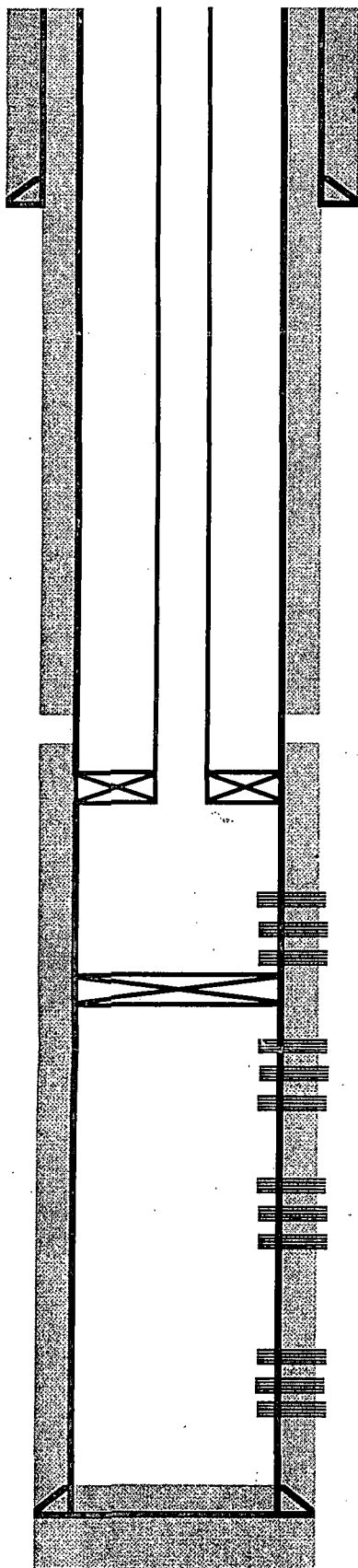
KB: 14'
 GL: -

TOC @ surf
 650 sxs

8 5/8" csg @ 557'

TOC @ surf
 1454 sxs
 DV Tool @ 3534'

5 1/2" csg @ 6500'



CASING PROGRAM

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
557'	8 5/8"	24#	J-55	8.097	1,370	2,950
6500'	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>
5770.00	3.5"	9.2#	N-80	EUE

Packer @ 5770'

Brushy Canyon AA Perforations:

5,790' - 5,794' (2 spf, 8 holes)
 5,832' - 5,835' (2 spf, 6 holes)
 5,880' - 5,886' (2 spf, 12 holes)

PROPOSED
PROPOSED
PROPOSED

CIBP @ 5920'

Brushy Canyon A Perforations:

5,963' - 5,972' (4 spf, 36 holes)
 5,976' - 5,984' (2 spf, 16 holes)
 5,996' - 6,028' (4 spf, 128 holes)

PROPOSED

PROPOSED

Brushy Canyon B Perforations:

6,055' - 6,061' (2 spf, 12 holes)
 6,070' - 6,075' (2 spf, 10 holes)
 6,082' - 6,094' (4 spf, 48 holes)

Frac'd A&B together in 2005

PROPOSED

Brushy Canyon C Perforations:

6,166' - 6,170' (4 spf, 16 holes)
 6,190' - 6,210' (1 spf, 25 holes)
 6,234' - 6,243' (2 spf, 18 holes)

PROPOSED

Frac'd in 2005

Added in 2009 & acid only

PBTD = 6,303' FC

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

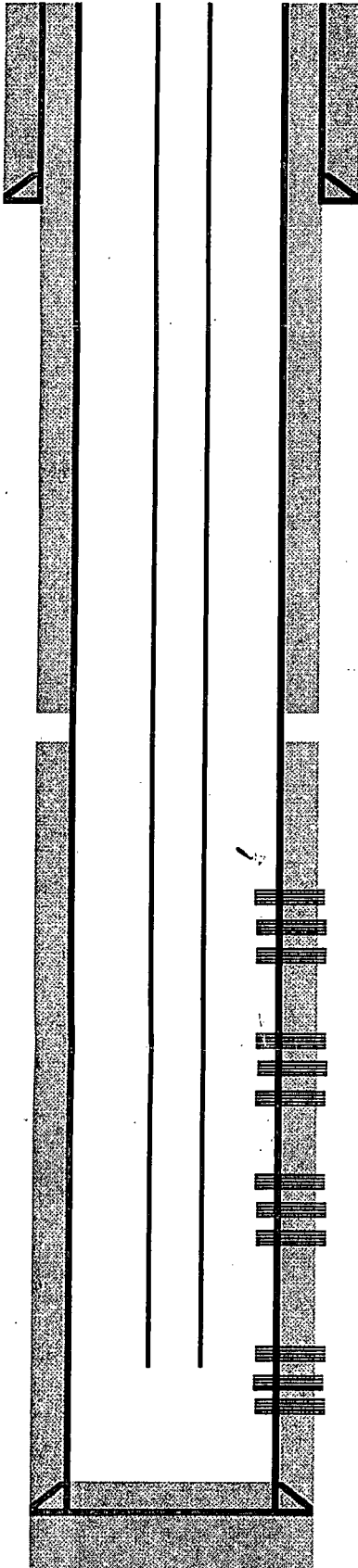


SCB 23 #10
Loving East - 30-015-33606
Eddy County, New Mexico
PROPOSED COMPLETION - 1/2014

KB: 14'
 GL: -

TOC @ surf
 650 sxs

8 5/8" csg @ 557'



TOC @ surf
 1454 sxs
 DV Tool @ 3534'

5 1/2\" csg @ 6500'

CASING PROGRAM

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
557'	8 5/8"	24#	J-55	8.097	1,370	2,950
6500'	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>
6215.00	2 7/8"	6.5#	J-55	EUE

Brushy Canyon AA Perforations:

5,790' - 5,794' (2 spf, 8 holes)
5,832' - 5,835' (2 spf, 6 holes)
5,880' - 5,886' (2 spf, 12 holes)

PROPOSED
PROPOSED
PROPOSED

Brushy Canyon A Perforations:

5,963' - 5,972' (4 spf, 36 holes)
5,976' - 5,984' (2 spf, 16 holes)
5,996' - 6,028' (4 spf, 128 holes)

PROPOSED
PROPOSED

Brushy Canyon B Perforations:

6,055' - 6,061' (2 spf, 12 holes)
6,070' - 6,075' (2 spf, 10 holes)
6,082' - 6,094' (4 spf, 48 holes)

Frac'd A&B together in 2005

PROPOSED

Brushy Canyon C Perforations:

6,166' - 6,170' (4 spf, 16 holes)
6,190' - 6,210' (1 spf, 25 holes)
6,234' - 6,243' (2 spf, 18 holes)

PROPOSED
 Frac'd in 2005
 Added in 2009 & acid only

PBTD = 6,303' FC

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



SCB 23 #10
Loving East - 30-015-33606
Eddy County, New Mexico
 CURRENT COMPLETION - 1/2014

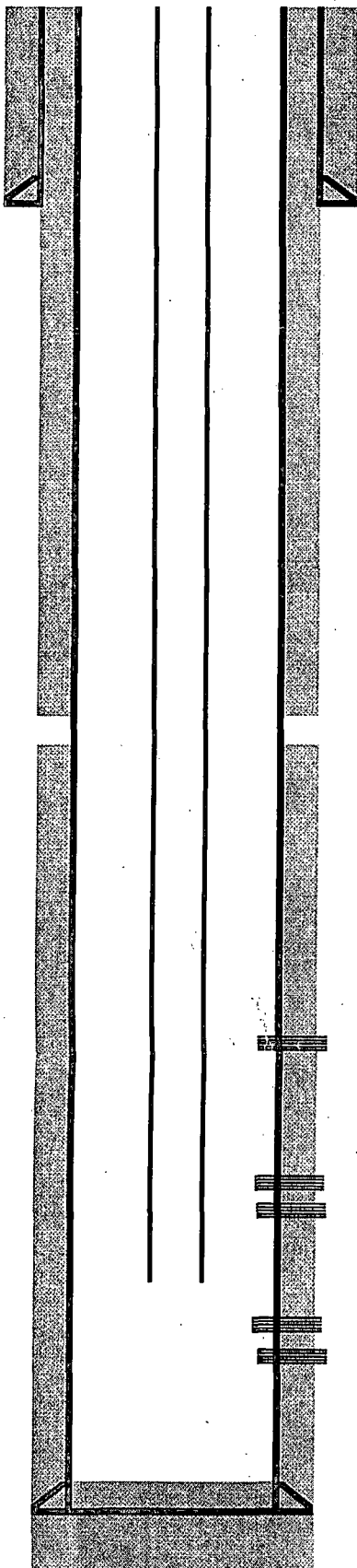
KB: 14'
 GL: -

TOC @ surf
 650 sxs

8 5/8" csg @ 557'

TOC @ surf
 1454 sxs
 DV Tool @ 3534'

5 1/2" csg @ 6500'



CASING PROGRAM

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
557'	8 5/8"	24#	J-55	8.097	1,370	2,950
6500'	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>
6215.00	2 7/8"	6.5#	J-55	EUE

Brushy Canyon A Perforations:
 5,976' - 5,984' (2 spf, 16 holes)

Brushy Canyon B Perforations:
 6,055' - 6,061' (2 spf, 12 holes)
 6,070' - 6,075' (2 spf, 10 holes)

Brushy Canyon C Perforations:
 6,190' - 6,210' (1 spf, 25 holes)
 6,234' - 6,243' (2 spf, 18 holes)

Frac'd A&B together in 2005

Frac'd in 2005
 Added in 2009 & acid only

PBTD = 6,303' FC

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