

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

HOBBS OGD
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
JAN 31 2014

Cole <i>Di Wen</i>	7. Lease Name or Unit Agreement Name COLE STATE
2. Name of Operator VANGUARD PERMIAN LLC	8. Well Number 15
3. Address of Operator P O BOX 1570 281 NORTH HIGHWAY 240, EUNICE, NM 88231	9. OGRID Number 258350
4. Well Location Unit Letter C: 660 feet from the NORTH line and 1280 feet from the WEST line Section 16 Township 22S Range 37E NMPM LEA County	10. Pool name or Wildcat EUNICE SAN ANDRES SW
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 1-28-14

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

For State Use Only

APPROVED BY: *Maley Brown* TITLE Compliance Officer DATE 2/11/2014

Conditions of Approval (if any):

FEB 11 2014

Vanguard Permian LLC

Cole State #15

API #30-025-36024 Sec 16 T22S R37E Unit C

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. PU, strap and TIH with 4-3/4" bit, 5-1/2" casing scrapper & 2-7/8" tubing. Clean out hole to ~4100' until clean returns, POOH and rack back 2-7/8" tubing.
5. MI wireline w/ packoff.
6. MU 3-1/8" GR/CCL on slick casing guns set at 1 spf, 60° phasing (0.40" hole, 21" penetration).
7. Perforate as follows:
 - a. 3782' – 3812' (30', 1 spf, 30 shots)
 - b. 3848' – 3880' (32', 1 spf, 32 shots)
 - c. 3912' – 3924' (12', 1 spf, 12 shots) for a total of 74 shots
8. RD wireline.
9. PU a 5-1/2" Arrowset packer and RIH with tubing to ~3784'. Test tubing going in the hole to 3500 psi.
10. MIRU pump truck (with 4500 gals 15% NEFE acid) and test lines to 3500 psi.
 - a. Spot 500 gals of acid across perforations. Load tubing with 2 % KCl and set packer at 3750'. Test packer to 1000 psi.
 - b. Pump 1000 gals 15% NEFE acid with 1000# rock salt.
 - c. Pump 2000 gal then drop 2000# rock salt.
 - d. Pump last 500 gals and flush to 3924'.
 - e. Record ISiP, 5 min, 10 min and 30 min.
11. RU swabber and swab well in to test acid job. Recover load and report fluid/gas entry, if possible.
12. Release packer and POOH with tubing, lay out packer.
13. RIH w/ 5-1/2" TAC, SN and 2-7/8" tubing. Set SN at ~4095'.
14. RIH w/ rods and pump, RD & MO, Turn well on to production and test.



Cole State #15
San Andres - 30-025-36024
Lea County, New Mexico
 CURRENT COMPLETION - 12/2013

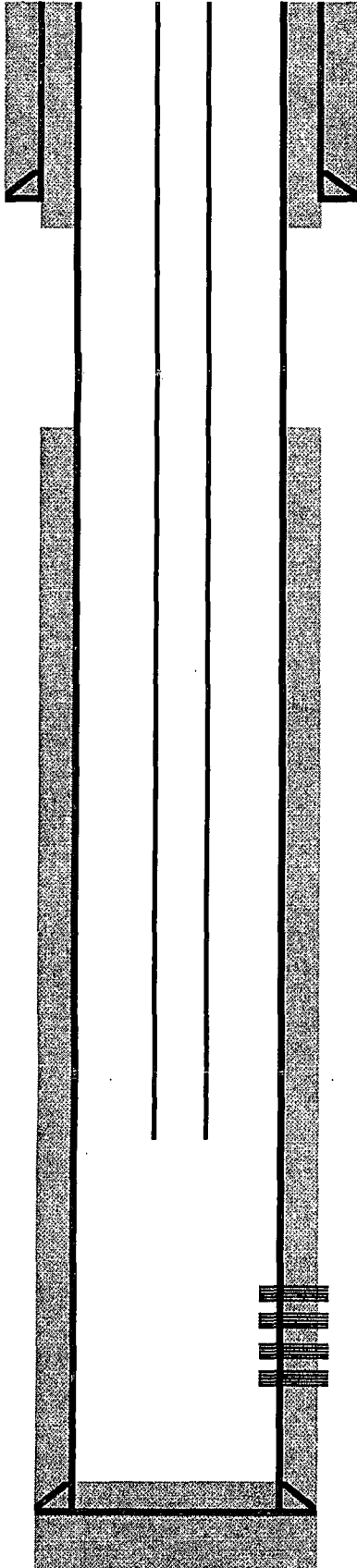
KB: -
 GL: '

TOC @ surf
 650 sxs

8 5/8" csg @ 1127

TOC @ 1860'
 975 sxs

5 1/2" csg @ 4217



CASING PROGRAM

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
1127	8 5/8"	24#	K-55	8.097	1,370	2,950
4217	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>
unknown	2 7/8"	6.5#	J-55	EUE

San Andres Perforations 88 holes:

3,772' - 3,782' (20 holes)
 3,824' - 3,834' (20 holes)
 3,880' - 3,904' (24 holes)
 3,940' - 3,966' (24 holes)

PBSD = 4,172' FC

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



Cole State #15
San Andres - 30-025-36024
Lea County, New Mexico
PROPOSED COMPLETION - 12/2013

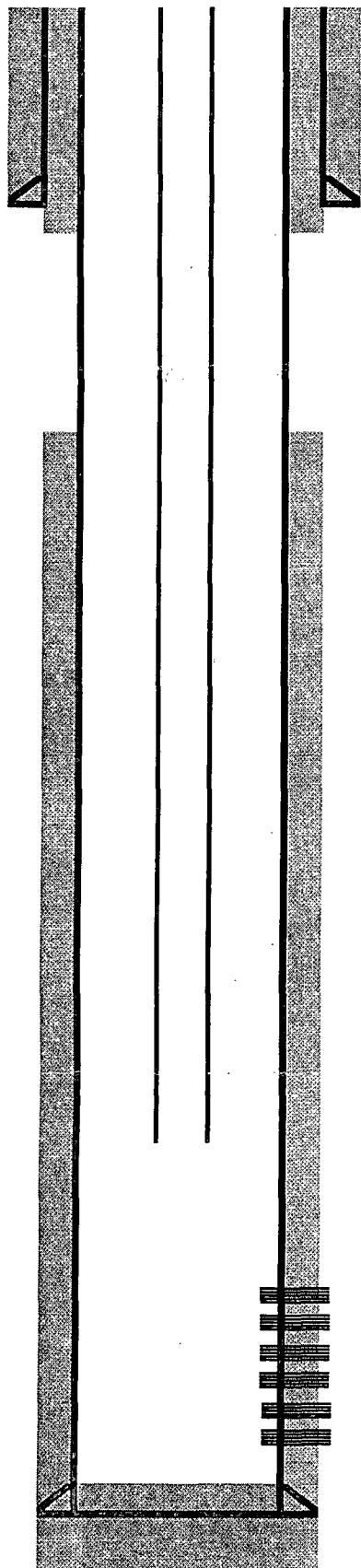
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unknown	2 7/8"	6.5#	J-55	EUE

San Andres Perforations:

3,772' - 3,782' (20 holes)
3782' - 3812' (1 spf, 30 shots)
3,824' - 3,834' (20 holes)
3848' - 3880' (1 spf, 32 shots)
3,880' - 3,904' (24 holes)
3,912' - 3,924' (1 spf, 12 shots)
3,940' - 3,966' (24 holes)

PROPOSED

PROPOSED

PROPOSED

PBTD = 4,172' FC

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