

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 87400  
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. 30-025-22486
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-3480-1
7. Lease Name or Unit Agreement Name COLE
8. Well Number 12
9. OGRID Number 258350
10. Pool name or Wildcat PENROSE SKELLY GRAYBURG

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 P O BOX 1570 281 NORTH NM HIGHWAY 248, EUNICE, NM 88231	
4. Well Location Unit Letter <u>D</u> : <u>990</u> feet from the <u>NORTH</u> line and <u>330</u> feet from the <u>WEST</u> line Section <u>16</u> Township <u>22S</u> Range <u>37E</u> NMPM LEA 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 2-4-14

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE MAR 03 2014

Conditions of Approval (if any):

MAR 03 2014

VANGUARD PERMIAN LLC

COLE STATE #12

API #30-025-22486 Sec 16 T22S R37E

Plan to perf Grayburg & Treat this well in the following way:

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 & 2-3/8" tubing. Clean out hole to ~3900' until clean returns, POOH and rack back 2-3/8" tubing.
5. MI wireline w/ packoff.
6. Set CBP @ ~3840'. Test CBP and casing to 2500 psi.
7. MU 3-1/8" slick casing guns set at 2 spf, 120° phasing (0.40" hole, 21" penetration).
8. Perforate as follows:
  - a. 3644' – 3652' (8', 2 spf, 16 shots)
  - b. 3666' – 3672' (6', 2 spf, 12 shots)
  - c. 3692' – 3700' (8', 2 spf, 16 shots)
  - d. 3725' – 3730' (5', 2 spf, 10 shots)
  - e. 3770' – 3784' (14', 2 spf, 28 shots) for a total of 82 shots
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, pump acid.
  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 2-3/8" tubing. Set SN at ~3700'.
  14. RIH w/ rods and pump.
  15. RD & MO.
  16. Turn well on to production and test.



**Cole State #12**  
**Eunice Southwest -San Andres - 30-025-22486**

**Lea County, New Mexico**  
 CURRENT COMPLETION - 12/2013

KB: -

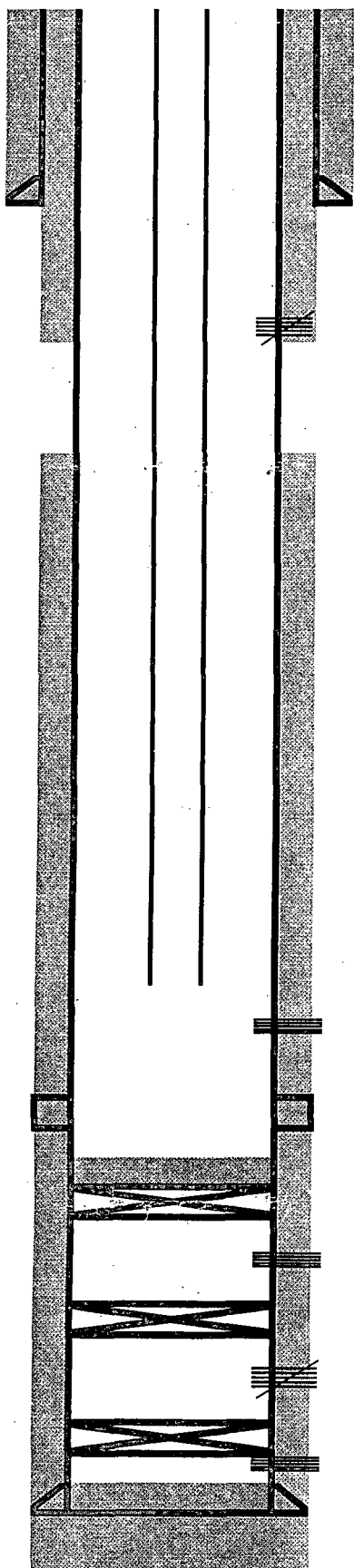
GL: 3393'

TOC @ surf  
 500 sxs

9 5/8" csg @ 1196

TOC @ 2350'  
 855 sxs

5 1/2" csg @ 7350



**CASING PROGRAM**

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>I.D.</u>	<u>Collapse</u>	<u>Burst</u>
1196	9 5/8"	32.3#	H-40	9.001	1,400	2,270
7350	5 1/2"	15.5#&17#	K-55	4.892	4,910	5,320

**PRODUCTION TUBING**

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Threads</u>
unknown	2-3/8"	4.7#	J-55	EUE

Squeeze perms @ 1250' - 1251'  
 in 1999

San Andres Perforations:  
 3,870' - 3,884'

DV Tool @ 4068'

CIBP @ 6040' - 35' of cmt on top

Abo  
 6772' - 7011'

Mccormick - Squeezed in 1976  
 7134' - 7260'

Montoya  
 7307' - 7338'

PBTD = 6,605' FC

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



**Cole State #12**  
**Eunice Southwest -San Andres - 30-025-22486**  
**Lea County, New Mexico**  
**PROPOSED COMPLETION - 1/2014**

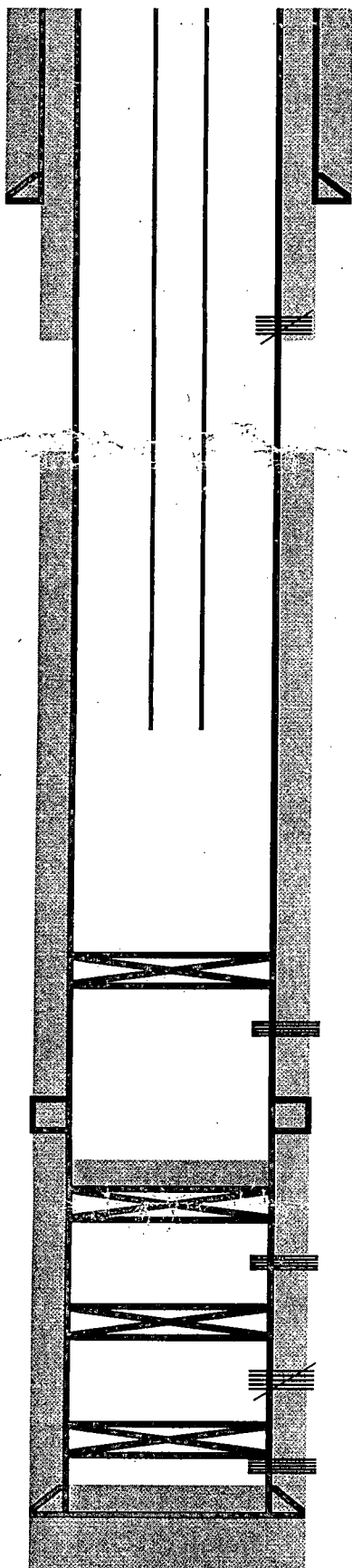
KB: -  
GL: 3393'

TOC @ surf  
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Squeeze perms @ 1250' - 1251'  
in 1999

**Grayburg Perforations:**

3644' - 3652' (2spf, 16 shots)  
3666' - 3672' (2 spf, 12 shots)  
3692' - 3700' (2 spf, 16 shots)  
3725' - 3730' (2 spf, 10 shots)  
3770' - 3784' (2 spf, 28 shots) - 82 shots total

**CIBP @ 3840'**

San Andres Perforations:  
3,870' - 3,884'

DV Tool @ 4068'

**CIBP @ 6640' - 35' of cmt on top**

Abo  
6772' - 7011'

Mccormick - Squeezed in 1976  
7134' - 7260'

Montoya  
7307' - 7338'

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