

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 August 1, 2011

HOBBS OCD

OIL CONSERVATION DIVISION

MAR 01 2013

1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

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.)		WELL API NO. 30-025-05247
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD <input checked="" type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator VANGUARD PERMIAN LLC		6. State Oil & Gas Lease No. B-8944
3. Address of Operator 2626 JBS PARKWAY STE 205B ODESSA TEXAS 79761		7. Lease Name or Unit Agreement Name MEXICO F
4. Well Location Unit Letter _____ G: _____ 1980 _____ feet from the _____ NORTH _____ line and _____ 1980 _____ feet from the _____ EAST _____ line Section 2 Township 15S Range 37E NMPM LEA County		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,798' GR		9. OGRID Number 258350
		10. Pool name or Wildcat DENTON

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 ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒  
Per Underground Injection Control Program Manual  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASIN ☐  
11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perfs or open hole.

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 ATTACHED FOR WORK PLAN

*per attachments*

**The Oil Conservation Division  
MUST BE NOTIFIED 24 Hours  
Prior to the beginning of operations**

**Per Underground Injection Control Program Manual**

**11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perfs or open hole.**

**Condition of Approval: notify  
OCD Hobbs office 24 hours  
prior of running MIT Test & Chart**

Spud Date:

**The Oil Conservation Division**

Rig Release Date:

**MUST BE NOTIFIED 24 Hours**

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

SIGNATURE

*M. Bloodworth*

TITLE

*Sr. Oper. Eng.*

DATE

*2/27/2013*

Type or print name C.M. "MARTY" BLOODWORTH

E-mail address: MBLOODWORTH@VNRLLC.COM PHONE: 432-362-2209

For State Use Only

APPROVED BY:

*[Signature]*

TITLE

*Dist. Mgr.*

DATE

*3-6-2013*

Conditions of Approval (if any):

*X 207*  
**MAR 06 2013**

Vanguard Permian , LLC (258350)

Mexico F #2 SWD (30-025-05247)

UL G, Sec 2, T15S, R37E

Lea Co., NM

#### Remedial Work Plan 02/27/2013

The subject well was purchased from Blue Ridge Resources, LLC (Blue Ridge). Blue Ridge applied for and received a permit to dispose of water in the Denton (Upper Pennsylvanian) at a depth of 9,720' to 10,180'. The permit specified that the well be plugged back to within 200' of the bottom injection interval with a cast iron bridge plug capped with cement. Vanguard has discovered conflicting information on the down hole configuration of the well. Attached please find copies of a wellbore diagram provided with the sale package and a separate wellbore diagram submitted with the SWD permit. Further a C103 submitted by Blue Ridge dated 11-12-2007, obtained from the NMOCD website, indicates a CIBP was set at 10,700 and capped with cement. A subsequent C105 submitted by Blue Ridge dated 02-21-2008, also obtained from the NMOCD website, shows the PBTD to be either 11,180' or 11,558'. Vanguard attempted to resume injection in the well but ceased operations due the unknown down hole configuration of the well, ie a packer possibly at 5,922' , that would not be allowed by the permit, and the uncertainty of the PBTD.

Vanguard proposes the following :

1. MIRU Service Unit. Release the packer. Talley out of hole. Inspect the tubing and packer.
2. RU wire line company. TIH w/ casing inspection log. Establish PBTD, verify perforations and determine the condition of the casing.
3. If the required CIBP is not at the permitted depth, a CIBP will be set and capped with cement to make the PBTD at 10,380' as required by the permit.
4. The tubing will be supplemented with additional internally coated tubing if needed to allow the packer to be set at the permitted depth of 9,620' or deeper.
5. A new or repaired packer will be set and the casing tubing annulus filled with treated water. Timely notice will be given to witness the MIT.
6. The annulus will be equipped with a pressure gauge and monitored for leak detection.
7. The well will be returned to disposal service as specified by the permit.

Prepared by C.M. "Marty" Bloodworth, P.E. 02-27-13

Provided in Sale  
Package

**MEXICO F-2**  
**Denton Field**  
DF 3,811' GL 3,797'  
2-15S-37E

COPY

13-3/8" Casing, 44.5#/ft  
Set @ 338 w/325 sxs  
Cement Circulated

TOC @ 340' by TS

9-5/8" Casing, 36#/ft  
(2,690'), 40#/ft (2,152')  
Set @ 4,800' w/ 350 sxs

TOC @ 2,150' by TS

Tight Spot @ 11,981'

B.P @ 12,165', PBTD 12,145  
CMT. Retainer @ 12,342'

5-1/2" Casing, 9,105' of 17#ft  
3,849 of 20#ft set @  
12,840 w/ 1,645 sxs

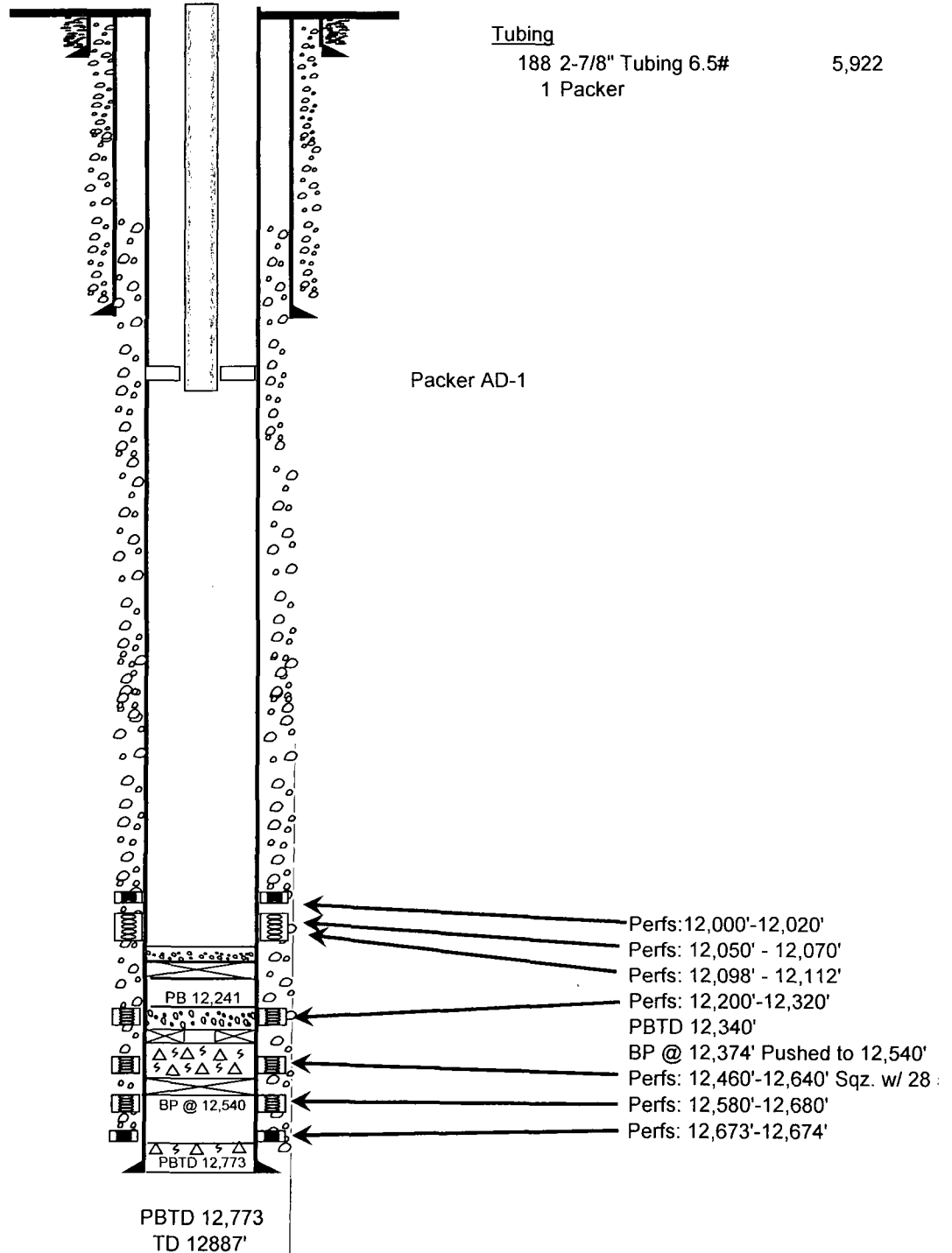
Tubing

188 2-7/8" Tubing 6.5#

5,922

1 Packer

Packer AD-1



Provided w/  
SWD permit

**MEXICO F-2**  
**Denton Field**  
Proposed  
DF 3,811' GL 3,797'  
2-15S-37E

COPY

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Set @ 338 w/325 sxs  
Cement Circulated

TOC @ 340' by TS

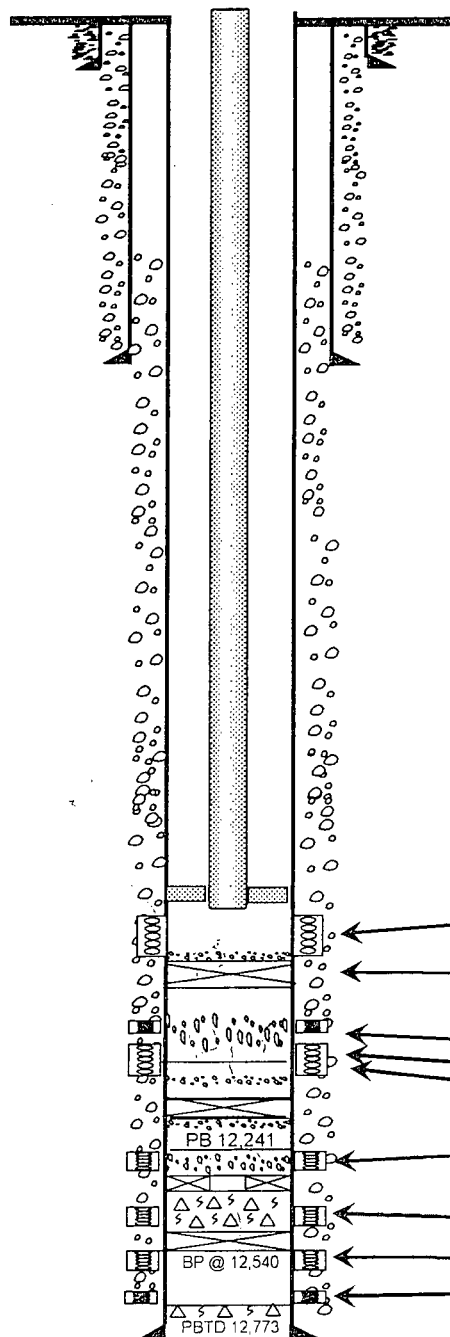
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5-1/2" Casing, 9,105' of 17#/ft  
3,849 of 20#/ft set @  
12,840 w/ 1,645 sxs



Tubing

9,650' 2-7/8" Fiberglass Lined Tubing  
1 Packer

Packer Set @ 9,650'

Perfs 9,700 - 10,600

PBTD 10,700'

Perfs: 12,000' - 12,020'

Perfs: 12,050' - 12,070'

Perfs: 12,098' - 12,112'

Perfs: 12,200' - 12,320'

PBTD 12,340'

BP @ 12,374' Pushed to 12,540'

Perfs: 12,460' - 12,640' Sqz. w/ 28

Perfs: 12,580' - 12,680'

Perfs: 12,673' - 12,674'

PBTD 12,773

TD 12887'