

Form C-103  
March 4, 2004State of New Mexico  
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Well API NO.	30-015-34070
5. Indicate Type of Lease	<input checked="" type="checkbox"/> State <input type="checkbox"/> Fee
6. State Oil & gas Lease No.	
7. Lease Name or Unit Agreement Name	Rifleman 5
8. Well Number	4
9. Ogrid Number	6137
10. Pool Name or Wildcat	Morrow

## 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

DEVON ENERGY PRODUCTION COMPANY, LP

## 3. Address and Telephone No.

20 North Broadway, Ste 1500, Oklahoma City, OK 73102

405-552-8198

## 4. Well Location

Unit Letter A 990 feet from the North line and 990 feet from the East line  
Section 5 22S Township 26E Range NMPM Eddy County11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3263' 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 COMPLETION  
☒ Other CHANGE IN ORIGINAL APD

## SUBSEQUENT REPORT OF:

- ☐ REMEDIAL WORK ☐ ALTERING CASING  
☐ COMMENCE DRILLING OPN ☐ PLUG AND ABANDONMENT  
☐ CASING TEST AND 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 1103.  
For Multiple Completions: Attach wellbore diagram or proposed completion or recompletion. If a pit or below-grade tank is involved in the operation, complete the reverse side of this form.

Devon Energy Production Company, LP respectfully requests approval to the following changes in the original approved APD.

## Casing/Cement Program:

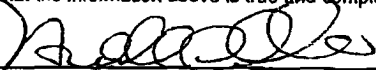
Change 5.5" production casing to 7", 26# P-110 LT&amp;C intermediate 2 casing set at 8200'. Cement stage 1 with 596 sx 60:40 Poz, stage 2 with 135 sx 35:65 CI C, tall with 337 sx 60:40 CI C.

Add 4.5", 13.5# HCP-110 LT&amp;C liner set at 11300'. Cement with 325 sx 15:61 Poz.

\* Tie back to @ 1650 TOC as originally planned on APD  
or circ. to surface.CEMENT TO COVER ALL OIL,  
GAS AND WATER BEARING  
ZONES

hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE Sr. Staff Engineering Technician

DATE 5/24/2005

Type or Print name Norvella Adams

E-mail Address: Norvella.adams@devon.com

Telephone No. 405-552-8198

This space for State use)

APPROVED BY



TIM W. GUM

TITLE

DATE MAY 27 2005

Conditions of approval, if any:

DISTRICT II SUPERVISOR

Well name:	<b>RIFLEMAN 5-4</b>
Operator:	<b>Devon Energy</b>
String type:	<b>Intermediate: Prod'n</b>
Location:	<b>Section 5 - T22S - R26E</b>

**Design parameters:****Collapse**

Mud weight: 10.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 149 °F  
Temperature gradient: 0.90 °F/100ft  
Minimum section length: 8,200 ft

**Burst**

Max anticipated surface pressure: 5,500 psi  
Internal gradient: 0.059 psi/ft  
Calculated BHP 5,982 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 6,938 ft

**Re subsequent strings:**

Next setting depth: 11,300 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 6,164 psi  
Fracture mud wt: 30.000 ppg  
Fracture depth: 8,200 ft  
Injection pressure 12,779 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8200	7	26.00	P-110	LT&C	8200	8200	6.151	85236
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4345	6230	1.43	5982	9950	1.66	180.4	693	3.84 J

Prepared by: Wes Handley  
by: Devon Energy

Date: May 23, 2005  
Oklahoma City, Oklahoma

**Remarks:**

Collapse is based on a vertical depth of 8200 ft, a mud weight of 10.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	<b>RIFLEMAN 5-4</b>
Operator:	<b>Devon Energy</b>
String type:	<b>Liner: Production</b>
Location:	<b>Section 5 - T22S - R26E</b>

**Design parameters:****Collapse**

Mud weight: 10.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 177 °F  
Temperature gradient: 0.90 °F/100ft  
Minimum section length: 8,200 ft

**Burst:**

Design factor 1.00

**Burst**

Max anticipated surface pressure: 5,500 psi  
Internal gradient: 0.043 psi/ft  
Calculated BHP 5,987 psi  
Annular backup: 8.34 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Liner top: 7,900 ft  
Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 10,788 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3400	4.5	13.50	HCP-110	LT&C	11300	11300	3.795	19049
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5987	10680	1.78	2418	12410	5.13	39	338	8.67 J

Prepared by: Wes Handley  
by: Devon Energy

Date: May 24, 2005  
Oklahoma City, Oklahoma

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11300 ft, a mud weight of 10.2 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.