Form 3160-5
(August 1999)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals

OCD-HOBBS

FORM APROVED
OMB NO. 1004-0135
EXPIRES: NOVEMBER 30, 2000

5. Lease Serial No.	NM-89891
6 If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE

1a 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, Oklahoma City, OK 73102   405-552-8198

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

660 FSL & 1980 FWL,   Unit N   Section 10 18S 33E

7. Unit or CA Agreement Name and No.

8 Well Name and No.
Cockburn Federal 4

9. API Well No.
30-025-39599

10 Field and Pool, or Exploratory
Mescalero Escarpe, Bone Springs

12. County or Parish   13. State
LEA   NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OS SUBMISSION

☑ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize   ☐ Deepen   ☐ Production (Start/Resume)   ☐ Water Shut-Off
☐ Alter Casing   ☐ Fracture Treat   ☐ Reclamation   ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete   ☐ Other
☑ Change Plans   ☐ Plug and Abandon ☐ Temporarily Abandon   _____
☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13   Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof If the proposal deepen directionally or recomplete horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP respectfully requests approval to the following changes in our intermediate and production casing design.

New Casing Program:

Hole Size	Hole Interval	OD Casing	Casing Interval	Weight	Collar	Grade
11"	0 - 1400'	8 5/8"	0 -1400'	24#	ST&C	J-55
11"	1400' - 2950'	8 5/8"	1400' - 2950'	32#	LT&C	J-55
7 7/8"	2950' - 10,200'	5 1/2"	0' - 10,200'	17#	LT&C	N-80

New Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
8 5/8", 24#, J-55 ST&C	2 04	4.40	3 87
8 5/8", 32#, J-55 LT&C	1.63	2.54	4.07
5 1/2", 17#, N-80 LT&C	1.30	1.61	2.00

Cement for 8 5/8" Intermediate Casing:

Cement: Lead with 680 sx (35:65) Poz Class C cement + 5% NaCl + 1/4 #/sx Cello Flake + 6% Bentonite; 12.5 ppg, 2.04 cf/sx, 11.24 gps. Tail with 300 sx Class C cement + 1/4 #/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps.

Cement for 5 1/2' Production Casing:

Cement: Stage 1; 475 sx (15:61:11) Poz Class C cement + 1% KCl + 0.75% EC-1+ 0.4% CD-32 + 3 #/sx LCM-1 + 0.6% FL-25 + 0.6% FL-52A.; 13.3 ppg, 1.56 cf/sx, 7.55 gps. Stage 2: Lead with 695 sx (35:65) Poz Class C cement + 1/4 #/sx Cello Flake + 6% Bentonite; 12.5 ppg, 1.94 cf/sx, 10.65 gps. Tail with 150 sx (60:40) Class C cement + 2% NaCl + 0.1% Sodium Metasilicate + 4% MPA-5; 13.8 ppg, 1.35 cf/sx, 6.29 gps.

14   I hereby certify that the foregoing is true and correct

Signed _____

Name   Norvella Adams
Title   Sr Staff Engineering Technician   Date   12/21/2009

(This space for Federal or State Office use)

Approved by _____   Title _____   Date
Conditions of approval, if any·

APPROVED
DEC 2 9 2009
/s/ Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

*See Instruction on Reverse Side

JAN 06 2010