

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

OCD Hobbs

FORM APPROVED
OMB NO 1004-0135
EXPIRES NOVEMBER 30, 2000

Do not use this form for proposals to drill or to recomplete an abandoned well. Use Form 3160-3 (APU) for such proposals.

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
BHL: 660 FNL & 1980 FWL, Unit E Section 10 18S 33E

5 Lease Serial No	NM-89891
6. If Indian, Allottee or Tribe Name	
7 Unit or CA Agreement Name and No	
8 Well Name and No.	Cockburn Federal 4H
9 API Well No.	30-025-39599
10 Field and Pool, or Exploratory	Mescalero Escarpe, Bone Springs
12 County or Parish	LEA
13 State	NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ 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 deepens directionally or recompletes 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 change this well from a vertical to a horizontal drill with a new name of Cockburn Federal 4H. Below are the following casing and cement changes. A directional plan is attached.

New Casing Program:

Hole Size	Hole Interval	OD Casing	Casing Interval	Weight	Collar	Grade
17 1/2"	0 - 1600'	13 3/8"	0 - 1600'	54 5#	ST&C	J-55
12 1/4"	1600' - 2900'	9 5/8"	0 - 2900'	36#	LT&C	J-55
8 3/4"	2900' - 12,900'	5 1/2"	0' - 12,900'	17#	BT&C & LT&C	P-110

BT&C = 3500' LT&C = 9400'

New Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13 3/8", 54 5#, J-55 ST&C	1.40	3.50	5.80
9 5/8", 36#, J-55 LT&C	1.40	2.70	5.50
5 1/2", 17#, P-110 BT&C & LT&C	1.30	1.80	2.20

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Cement for 13 3/8" Surface Casing:

Cement: Lead with 910 sx (35:65) Poz Class C cement + 5% NaCl + 1/4 #/sx Cello Flake + 4% Bentonite; 12.5 ppg, 1.97 cf/sx, 10.56 gps. Tail with 350 sx Class C cement + 2% CaCl2 + 1/4 #/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps.

Cement for 9 5/8" Intermediate Casing:

Cement: Lead with 555 sx (35:65) Poz Class C cement + 5% NaCl + 1/4 #/sx Cello Flake + 4% Bentonite; 12.8 ppg, 1.97 cf/sx, 10.56 gps. Tail with 300 sx Class C cement + 1/4 #/sx Cello Flake; 14.8 ppg, 1.35 cf/sx, 6.35 gps.

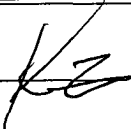
Cement for 5 1/2" Production Casing:

Cement: Stage 1; 760 sx (35:65) Poz Class H cement + 3% NaCl + 1/4 #/sx Cello Flake + 6% Bentonite + 0.7% FL-52A.; 12.5 ppg, 2.00 cf/sx, 10.99 gps. Tail with 1135 sx (50:50) Poz Class H cement + 5% NaCl + 0.3% CD-32 + 0.5% FL-25; 14.2 ppg, 1.28 cf/sx, 5.77 gps. DV tool at 5,500'. Stage 2: Lead with 425 sx Class C cement + 1/4 #/sx Cello Flake + 3% Sodium Metasilicate; 11.4 ppg, 2.89 cf/sx, 17.78 gps. Tail with 150 sx (60:40) Class C cement + 5% NaCl + 1/4 #/sx Cello Flake + 0.2% Sodium Metasilicate + 4% MPA-5; 13.8 ppg, 1.37 cf/sx, 6.43 gps.

14 I hereby certify that the foregoing is true and correct

Signed  Name Norvella Adams
Title Sr. Staff Engineering Technician Date 6/16/2010

(This space for Federal or State Office use)

Approved by  Title PETROLEUM ENGINEER Date JUL 12 2010

Conditions of approval, if any

Note: 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations to any matter within its jurisdiction.

*See Instruction on Reverse Side





Project: Lea Co., New Mexico (Nad 83)
Site: Cockburn Fed #4H
Well: Cockburn Fed #4H
Wellbore: Lateral #1
Design: Design #1



SECTION DETAILS									
Sec	MD	Inc	Asi	TVD	+N/S	+E/W	Dleg	TBase	Visc
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	923.75	93.32	0.00	923.56	606.14	0.00	10.00	0.00	606.14
4	12983.25	93.32	0.00	9065.00	3950.00	0.00	0.00	0.00	3950.00

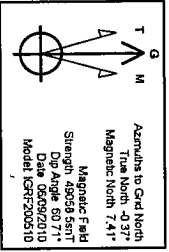
WELLBORE TARGET DETAILS (MAP COORDINATES AND LAT/LONG)

Name	TVD	+N/S	+E/W	Nothing	Nothing	Nothing	Nothing	Nothing	Nothing
PBHL - TD (C/F#4H)	9068.00	3950.00	0.00	643545.56	750463.47	32° 48' 3.248" N	103° 39' 10.741" W	Point	

ANNOTATIONS	
TVD	Annotation
8630.36	KOP - Blind 10710'
8623.75	ECC - Hold 19.32' @ A 0.00°

PROJECT DETAILS	
Lea Co., New Mexico (Nad 83)	
Geologic System: US State Plane 1983	
Datum: North American Datum 1983	
Elevation: Zone 10 North	
System Datum: Mean Sea Level	

WELL DETAILS	
Cockburn Fed #4H	
Ground Level	
3855.00	
WELL @ 3973.00' (Original VME Elev)	
+N/S	Nothing
+E/W	Nothing
0.00	639665.67
0.00	750463.47
	32° 48' 24.068" N
	103° 39' 11.045" W
	Skrt



Plan Design #1 (Cockburn Fed #4H Lateral #1)	
Created By	Mike Stanley
Checked	
Reviewed	
Approved	
Date	10/14/2010
Date	
Date	

