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FORM APPROVED  
OMB NO. 1004-0136  
Expires: November 30, 2000

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work  DRILL  REENTER  
1b. Type of Well  Oil Well  Gas Well  Other  Single Zone  Multiple Zone  
2. Name of Operator  
**Attn: Diane Busch Devon Energy Production Company, L.P.**

59 Lease Serial No.  
**NM-03357**  
6. If Indian, Allottee or Tribe Name  
**N/A**  
7. If Unit or CA Agreement, Name and No.  
**NORTHEAST BLANCO UNIT**  
8. Lease Name and Well No.  
**NEBU 304E**  
9. API Well No.  
**30-039-27446**

3a. Address  
**20 N. Broadway Oklahoma City, OK 73102**  
3b. Phone No. (include area code)  
**(405) 228-4362**

10. Field and Pool, or Exploratory  
**Blanco Mesaverde Basin Dakota**

4. Location of well (Report location clearly and in accordance with any State requirements. \*)  
At surface **2080' FNL & 895' FWL SW NW Unit E**  
At bottom hole **Same**  
At proposed prod. zone **Same**

11. Sec., T., R., M., or Blk. And Survey or Area  
**E** Sec. **30**, T **31N**, R **6W**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 58 miles northeast of Bloomfield, New Mexico**

12. County or Parish  
**Rio Arriba**  
13. State  
**NM**

15. Distance from proposed\* location to nearest property or lease line, ft.  
**895'**  
(Also to nearest drlg unit line, if any)  
16. No. of Acres in lease  
**640**

17. Spacing Unit dedicated to this well  
**320 w/2**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
19. Proposed Depth  
**8060'**

20. BLM/ BIA Bond No. on file  
**CO-1104**

21. Elevations (Show whether DF, RT, GR, etc.)  
**6374' GL**  
22. Approximate date work will start\*  
**Upon Approval**

23. Estimated Duration  
**20 Days**

24. Attachments **Drilling operations authorized and subject to compliance with attached General Requirements**  
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:  
**This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4**

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan ( if the location is on National Forest System Lands, SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/ or plans as may be required by the authorized official.

25. Signature  
*Diane Busch*  
Title  
**Sr. Operations Technician**

Name (Printed/ Typed)  
**Diane Busch**  
Date  
**5-28-03**

Approved By (Signature)  
*Jim Lovato*  
Title

Name (Printed/ Typed)  
**Jim Lovato**  
Office  
Date  
**JUN 30 2003**



Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* (Instructions on reverse)

NMOC

District I  
 PO Box 1980, Hobbs NM 88241-1980  
 District II  
 PO Drawer KK, Artesia, NM 87211-0719  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 PO Box 2088  
 Santa Fe, NM 87504-2088

Form C-102  
 Revised February 21, 1994

Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-27446		<sup>2</sup> Pool Code 92319 / 71599		<sup>3</sup> Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
<sup>4</sup> Property Code 19641		<sup>5</sup> Property Name NEBU			<sup>6</sup> Well Number # 304E
<sup>7</sup> OGRID No. 6137		<sup>8</sup> Operator Name Devon Energy Production Company, L.P.			<sup>9</sup> Elevation 6374

<sup>10</sup> Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	30	31 N	6 W		2080	NORTH	895	WEST	Rio Arriba

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres MV-W/320 DAK-W/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p><sup>16</sup></p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Diane Busch</i>        Signature        DIANE BUSCH        Printed Name        SR OPERATIONS TECH        Title        5-28-03        Date</p>
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>January 27, 2003        Date of Survey</p> <p>Signature and Seal of Professional Surveyor          7016        Certificate Number</p>	

**NEBU 304E  
Unit E 30-31N-6W  
Rio Arriba Co., NM**

**DRILLING PLAN**

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:**

<b>Formation</b>	<b>Depth (ft)</b>	<b>Hydrocarbon/Water Bearing Zones</b>
San Jose	Surface	
Ojo Alamo	2280	Aquifer
Kirtland	2405	
Fruitland	2895	Gas
Pictured Cliffs	3280	Gas
Lewis	3415	Gas
<b>Intermediate TD</b>	<b>3515</b>	
Huerfanito bentonite	4050	
Massive Cliff House	5250	Gas
Menefee	5310	Gas
Massive Point Lookout	5550	Gas
Mancos	6000	Gas
Gallup	6890	Gas
Greenhorn	7605	
Graneros	7655	
Dakota	7785	Gas
<b>TD</b>	<b>8060</b>	

All shows of fresh water and minerals will be adequately protected and reported.

**2. PRESSURE CONTROL EQUIPMENT:**

All well control equipment shall be in accordance with Onshore Order #2 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram which shows the size and pressure ratings.

2000# BOP With Pipe Rams and 2000# BOP With Blind Rams

Auxiliary equipment to be used:

- Upper kelly cock with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) or 70% of the internal yield pressure (without a test plug) at:

- Initial installation
- Whenever any seal subject to test pressure is broken
- Following related repairs
- At 30 day intervals

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew. All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to close all rams and retain 200 psi above pre-charge pressure without the use of closing unit pumps.

Master controls will be at the accumulator. Anticipated bottom hole pressure is 3400 psi.

**3. CASING & CEMENTING PROGRAM:**

A. The proposed casing program will be as follows:

Depth	Hole Size	Size	Grade	Weight	Thread	Condition
0-250'	12-1/4"	9-5/8"	H-40	32#	STC	New
0-3515'	8-3/4"	7"	K-55	23#	LTC	New
0-TD	6-1/4"	4-1/2"	K-55	11.6 #	LTC	New

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

**Surface:** The bottom three joints of the surface casing will have a minimum of one centralizer per joint and one centralizer every joint thereafter (Total 5 centralizers estimated)

**Intermediate:** The bottom three joints of the 7" casing will have a minimum of one centralizer per joint and one centralizer every fifth joint thereafter to above Ojo Alamo with turbolizers below and throughout the Ojo Alamo. (Total 12 centralizers, 3 turbolizers estimated).

**Production:** The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 4500' (estimated 22 centralizers used). Centralizers will be open bow spring or basket bow spring type.

B. The proposed cementing program will be as follows:

**Surface String:** Cement will be circulated to surface.

**Lead:** 200 sks Class "B" with additives mixed at 15.6 ppg, 1.19 ft<sup>3</sup>/sks.

**Intermediate String:** Cement will be circulated to surface.

**Lead:** 575 sks 50/50 Poz with additives mixed at 13.0 ppg, 1.44 ft<sup>3</sup>/sks prior to foaming, 9 ppg, 2.18 ft<sup>3</sup>/sks after foaming.

**Tail:** 75 sks 50/50 Poz with additives mixed at 13.0 ppg, 1.44 ft<sup>3</sup>/sks.

If hole conditions dictate, an alternate, two stage cement design will be used: Stage 1: 85 sacks Class B 50/50 POZ, 3% gel, 5# Gilsonite, 1/4# Flocele, 1/10% CFR 3, .2% Halad 344, Yield 1.47 ft<sup>3</sup>/sks. Stage 2: 450 sacks Class B 50/50 POZ, 3% gel, 5# Gilsonite, 1/4# Flocele, .1% CFR 3, .2% Halad 344, Yield 1.47 ft<sup>3</sup>/sks. Cement designed to circulate to surface.

**Production String:** TOC designed to circulate to surface, cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

**Lead:** 500 sks 50/50 Poz with additives mixed at 13.0 ppg, Yield 1.47 ft<sup>3</sup>/sks.

Actual volumes will be calculated and adjusted with caliper log prior to cementing.

If hole conditions dictate, an alternate, two stage cement design will be used. Stage 1: 325 sks 50/50 POZ, 3% gel, .9% Halad 9, .2% CFR 3, 5# Gilsonite & 1/4# Flocele. Yield 1.47 13#. Stage 2: Lead: 450 sks 50/50 POZ, 3% Gel, .9% Halad 9, .2% CFR 3, 5# Gilsonite & 1/4# Flocele. Yield 1.47 13 ppg. Tail: 25 sks (5 bbls) Class B .4% Halad 9. Yield 1.18 15.6#.

**4. DRILLING FLUIDS PROGRAM:**

Interval	Type	Weight (ppg)	Viscosity	pH	Water Loss	Remarks
0-3515'	Spud-foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
3515'-7785'	Air				NC	
7785'-TD	Mud	8.5-9.0*	30-50	8.0-10.0	8-10cc @ TD	Low solids – nondispersed. * Min Wt. to control formation pressure.

NC = no control