

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

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

1a. Type of Work ☒ DRILL ☐ REENTER
1b. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone
2. Name of Operator

5. Lease Serial No.
NM-03356
6. If Indian, Allottee or Tribe Name
7. If Unit or CA Agreement, Name and No.
Northeast Blanco Unit 19641
8. Lease Name and Well No.
NEBU 77M
9. API Well No.
30-045-30960

3a. Address
20 North Broadway, Suite 1500, OKC, OK 73102
3b. Phone No. (include area code)
(405) 552-4734

4. Location of well (Report location clearly and in accordance with any State requirements. *)
At surface 1390' FNL & 1030' FWL SW NW Unit E
At proposed prod. zone 1390' FNL & 1030' FWL SW NW

10. Field and Pool, or Exploratory
Blanco Mesaverde Basin Dakota
11. Sec., T., R., M., or Blk. And Survey or Area
E Sec. 15 ,T 31N ,R 7W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx. 25 miles SE of Ignacio, CO

12. County or Parish
San Juan
13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft.
1030'
(Also to nearest drlg unit line, if any)
16. No. of Acres in lease
840.00
17. Spacing Unit dedicated to this well
320 ac.
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
8195'
19. Proposed Depth
8195'
20. BLM/ BIA Bond No. on file
CO-1104
21. Elevations (Show whether DF, RT, GR, etc.)
6588' GL
22. Approximate date work will start*
Upon Approval
23. Estimated Duration
20 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

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

25. Signature
Kim Walker
Name (Printed/ Typed)
Kim Walker
Date
12/21/01

Title
Regulatory Technician

Approved By (Signature)
JL
Name (Printed/ Typed)
Office
Date
3-13-02 Sh/Alme

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)

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30960	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 19641	⁵ Property Name NEBU	⁶ Well Number 77MD1
⁷ OGRID No. 6137	⁸ Operator Name Devon Energy Production Company, L.P.	⁹ Elevation 6588'

¹⁰ Surface Location

UL or lot no. E	Section 15	Township 31-N	Range 7-W	Lot Idn	Feet from the 1390	North/South line NORTH	Feet from the 1030	East/West line WEST	County SAN JUAN
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¹¹ 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
¹² Dedicated Acres MV - W/320 DK - W/320				¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.		

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

¹⁶ FD U.S.G.L.O. BC. 1914	S 89-52-48 E	5279.52'	FD U.S.G.L.O. BC. 1914	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <u>Kim Walker</u> Printed Name <u>Kim Walker</u> Title <u>Regulatory Technician</u> Date <u>12/21/01</u>
1390'				18 SURVEYOR CERTIFICATION 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 knowledge. Date of Survey <u>12/21/01</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> 8894 Certificate Number <u>8894</u>
1030'	290'	70'		
5278.04	1249'			
S 0-04-13 E		15		
FD U.S.G.L.O. BC. 1914				

**NEBU 77MD1
Unit E-15-31N-7W
San Juan Co., NM**

DRILLING PLAN

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

Formation	Depth (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	
Ojo Alamo	2375'	Aquifer
Kirtland	2495'	
Fruitland	2960'	Gas
Pictured Cliffs	3345'	Gas
Lewis	3530'	Gas
Intermediate TD	3630'	
Mesaverde	4125'	Gas
Chacra	4525'	
Massive Cliff House	5225'	Gas
Menefee	5500'	Gas
Massive Point Lookout	5745'	Gas
Mancos	6050'	
Gallup	6725'	Gas
Greenhorn	7760'	Gas
Graneros	7810'	
Dakota	7945'	Gas
TD	8195'	

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
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.

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
0-3630'	8-3/4"	7"	K-55	20#	STC	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.

The bottom three joints of the surface casing will have one centralizer per joint and one centralizer every fourth joint thereafter.

B. The proposed cementing program will be as follows:

Surface String: Cement will be circulated to surface. Estimated volume (180% of theoretical value):

Lead: 200 sks Class "B" with additives mixed at 15.6 ppg, 1.18 ft³/sks.

Intermediate String: Cement stage collar at 2900'.

First Stage: 225 sks 50/50 "G" Poz with additives mixed at 13.5 ppg, 1.28 ft³/sks, circulated to stage collar.

Second Stage: 350 sks Lite cement with additives mixed at 11.5 ppg, 2.40 ft³/sks, circulated to surface.

Production String: TOC will be tied into the intermediate casing.

Lead: 600 sks Class "G" cement with additives mixed at 15.8 ppg, 1.15 ft³/sks.

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

4. DRILLING FLUIDS PROGRAM:

Interval	Type	Weight (ppg)	Viscosity	PH	Water Loss	Remarks
0-3630'	Spud	8.4-9.0	29-70	8.0	NC	FW gel, LSND
3630-7900'	Air				NC	
7900-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

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

5. EVALUATION PROGRAM:

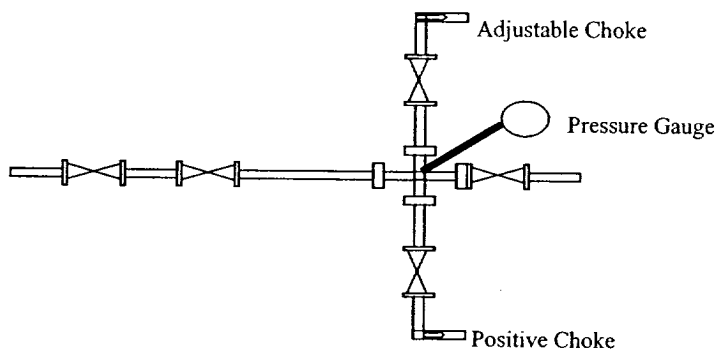
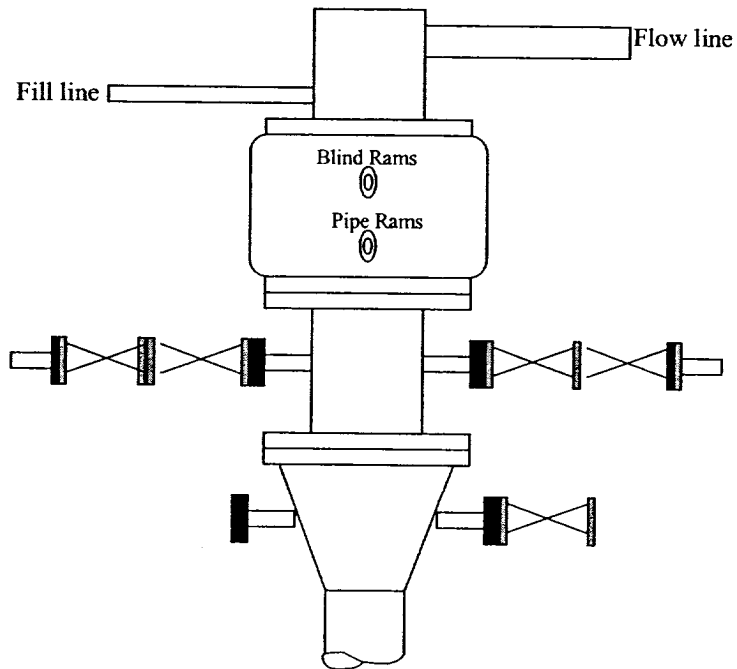
Logs: Platform Express AIT/GR/SP: Intermediate casing point to the base of the surface casing and TD to the base of the intermediate casing.

Platform Express CNL/LDT/PE: Intermediate casing point to the base of the surface casing and TD to the base of the intermediate casing.

Cores: None anticipated.

DST's: None anticipated.

Well Control Equipment 2,000 psi Configuration



All well control equipment designed to meet or exceed the Onshore Oil and Gas Order No. 2, BLM 43 CFR 3160 requirements for 2M systems.

1390' FNL 1030' FWL

