Form 3160-3. (August 1999)

UNITED STATE

FORM APPROVED OMB NO. 1004-0136

S COUNTY	4	The second		Expires: November 30, 2	200
NTERI	ORma	ner 1.9	AM	1: Besse Serial No.	

DEPARTMENT OF THE	SINTERIORS OF LY	AM H-	Bease Senai No.		
BUREAU OF LAND MA	VAGEMENT		SF-079		
APPLICATION FOR PERMIT TO	DRILL OR REENTE	R gion [6.]	Mandian, Allottee or T	ribe Name	
	(A) 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10		N/A		
		7.	If Unit or CA Agreem		
Type of Work X DRILL F	REENTER	/	NORTHEAST BI		
Гъ Года Гъ	□ . □.		Lease Name and Well		
Type of Well Oil Well Gas Well Other	Single Zone Multiple Z			U 13B	
Name of Operator		9.	API Well No.		
Attn: Diane Busch Devon Energy Prod	luction Company, L.P.		30-039.	- 27480	
Address	b. Phone No. (include area code)	10.	Field and Pool, or Exp		
20 N. Broadway Oklahoma City, OK 73102	(405) 228-4362	Bla	anco Mesaverde	Basin Dakota	
Location of well (Report location clearly and In accordan		11.	. Sec., T., R., M., or Bil	k. And Survey or Area	
At surface 2560 FSL & 1800' FWL SW	Unit K		G 20 T 20	N D 7511	
At bottom hole 660' FSL & 660' FWL SV At proposed prod. zone Same as BHL	V SW Unit M		Sec. 20 ,T 30	N ,R 7W	
	· · · · · · · · · · · · · · · · · · ·	1	ζ		
DISTANCE IN MILES AND DIRECTION FROM NEAR		12	. County or Parish	13. State	
Approximately 27.4 miles NE of A	ztec, New Mexico		San Juan	NM	
Distance from proposed*	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this	well	
location to nearest	2236	220	08 ill/ 220 .		
property or lease line, ft. (Also to nearest drlg unit line, if any)	2230	STORE	23 W/2-320		
Distance from proposed location*	19. Proposed Depth	20. BLM/	BIA Bond No. on file		
to nearest well, drilling, completed,	8000'		CO 1104		
applied for, on this lease, ft.	8000		CO-1104		
Elevations (Show whether DF. RT, GR, etc.)	22. Aproximate date work w	rill start*	23. Estimated Durati	on	
6407' GL	Upon Approva	Upon Approval		20 Days	
. Attachments					
he following, completed in accordance with the requirements	of Onshore Oil and Gas Order No.	1 shall be a	ttached to this form:		
777 11 1 4 427 13 24 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	la practica				
Well plat certified by a registered surveyor. A Drilling Plan.	item 20 above).	operations	unless covered by exis	and oour ou me(see	
A Surface Use Plan (if the location is on National Forest S		tion.		•	
SUPO shall be filed with the appropriate Forest Service Of			mation and/or plans as	may be required by the	
	authorized officer	r			
Signature A	Name (Printed/Typed)		Date		
Drane Busch	Diane Busch		12	-16-02	
tle					
r. Operations Technicían					
pproved By (Signature)	Name (Printed/Typed)		Date	5-30-03	
	Office				
religation approved does not represent as and G. A. A. A	nt holdslogel on a mitchle title to the	000 mink4- i	the mhiast lases and in	h	
application approval does not warrant or certify that the applications thereon.	nu notas legat of editinole due to me	ose ugue m	i ine subject lease which	n would entitle the app	
Conditions of approval, if any, are attached.					
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212				1	

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* (Instructions on reverse)

HOLD C184 FOR

Diloict 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 Pe, NM 87504-2088

State of New Mexico Briefgy, Minerals & Natural Resources Dep

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

API Numbe		² Pool Code	Pool Name	/
30-045-3	31292 73	2319/71599	BLANCO MESAVERDE	BASIN DAKOTA
Property Code		, s p	roperty Name	Well Number
19641	NEBU	J		# 13B
7 OGRID No.		* 0	Operator Name	9 Elevation
6137	Devor	n Energy Producti	6407	

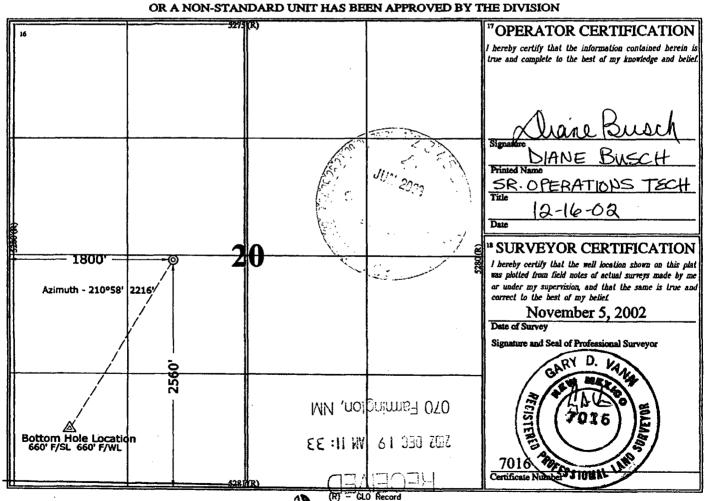
Surface Location

UL or Lot No.	Section	Township	Range	. Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	20	30 N	7 W		2560	SOUTH	1800	WEST	Rio Arriba

11 Bottom Hole I ocation If Different From Surface

Bottom flore excauton in Different 1 form Surface									
7 UL or lot no.	Section 20	30 N	Range 7 W	Lot ldn	Post from the 660	North/South line SOUTH	Peet from the	East/West line WEST	Rio Arriba
" Dedicated Acres " John or Infill " Consolidation Code M ✓ - W 3333 37003					Order No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



UNITED STATES FORM APPROVED Form 3160- 5 DEPARTMENT OF THE INTERIOR (November, 1996) OMB No. 1004- 0135 Expires: July 31, 1996 BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS SF-079060 0 Do not use this form for proposals to drill or to re-enter an 6. If Indian, Allottee, or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. 7:((เก็ป่าit or CA. Agreement Designation SUBMIT IN TRIPLICATE- Other Instructions on the reverse side 1. Type of Well **Northeast Blanco Unit** 8. Well Name and No. X Gas Well Oil Well 2. Name of Operator **NEBU 13B** 9. API Well No. Attn: Diane Busch **Devon Energy Production Company, L.P.** 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Area (405) 228-4362 20 N. Broadway Oklahoma City, OK 73102 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Blanco Mesaverde **Basin Dakota** 11. County or Parish, State 2560' FSL & 1800' FWL SW/4. 20 .T 30N R. 7W 14. Sec. Latitude Longitude San Juan NM CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Production (Start/ Resume) Water Shut-off Acidize Deepen Fracture Treat Altering Casing Reclamation Well Integrity X Subsequent Report Casing Repair New Construction Recomplete Other Changes to submitted 2003 APD Change Plans Plug and abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required susequinet reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in anew interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.) #1. Anticipated bottom hole pressure is 3400 psi. #2. Under #3, Intermediate String, the Yield should be 1.47 #3. Anticipated # of centralizers for intermediate & production casing are as follows: 1. Intermediate: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 2000' (estimatd 12 centralizers used). Centralizers will be open bow spring or basket bow spring type. 2. **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. #4. Density's: Should be 13 ppg #5. The inconsistency with #4 chart: The hole will be air drilled from 3630'-7585'. The well will be mud drilled from 7585'-TD. #6. Please see attached 3 APD pages showing the distinction between TVD & TMD.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Diane Busch

Sr. Operations Technician

Date

1-27-03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

David J. Mankiewicz

Title

Date

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

Title 18 U.S.C. Section1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictit or fraudulent statements or representations as to any matter within its jurisdiction.

#7. Please see the attached 2 pages - directional survey.

NEBU 13B Unit K 20-30N-7W San Juan Co., NM

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DRILLING PLAN

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

Formation	III YMD:	11V.60 (201 (0)	davaroranori/Marec Esanne Zones
San Jose	Surface	Surface	
Ojo Alamo	2661'	2330	Aquifer
Kirtland	2824'	2465	
Fruitland	3324'	2880	Gas
Pictured Cliffs	3903'	3360	Gas
Lewis	4048'	3480	Gas
Intermediate TD	4198	3630	
Huerfanito bentonite	4741'	4110	
Massive Cliff House	5766'	5135	Gas
Menefee	5871'	5240	Gas
Massive Point Lookout	6191'	5560	Gas
Mancos	6541'	5910	Gas
Gallup	7407'	6775	Gas
Greenhorn	8167'	7535	
Graneros	8217'	7585	
Dakota	8362'	7730	Gas
TD	8633	8000	

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:

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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 precharge 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:

TABLE S		(10) (15) (15) (20)	-\$j72:s	C)etije	(vycili)ie	Threat (Meionenilens
0-250'	0-250'	12-1/4"	9-5/8"	H-40	32#	STC	New
0-4198'	0-3630'	8-3/4"	7"	K-55	23#	LTC	New
0-TD	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 a minimum of 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.

Lead: 200 sks Class "B" with additives mixed at 15.6 ppg, 1.19

ft³/sks.

Intermediate String: Cement will be circulated to surface.

Lead: 575 sks 50/50 Poz with additives mixed at 13.0 ppg, 1.44 ft³/sks prior to foaming, 9 ppg, 2.18 ft³/sks after foaming.

Tail: 75 sks 50/50 Poz with additives mixed at 13.0 ppg, 1.44

ft³/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, ¼# Flocele, 1/10% CFR 3, .2% Halad 344, Yield 1.47 ft³/sks. Stage 2: 450 sacks Class B 50/50 POZ, 3% Gel, 5# Gilsonite, ¼# Flocele, .1% CFR 3, .2% Halad 344, Yield 1.47

ft³/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, 1.47

ft³/sks.

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

4. DRILLING FLUIDS PROGRAM:

	iskon Historia			VIScosiiv			in in the second se
0-4198'	0-3630'	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gei, LSND or stiff foam
4198'-8362'	3630'-7730'	Air				NC	
8362'-TD	7730'-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.