Form 3160-3 (August 1999)

\* (Instructions on reverse)

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

**UNITED STATES** 

### DEPARTMENT OF THE INTERIOR () BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRIVE OR REENGER

FORM APPROVED OMB NO. 1004-0136

	Expires: November	30, 200
~ ~		
5. Lease	Serial No.	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

APPLICATION FOR PERMIT TO DRI							
	New OTO FARM機能	N/A					
1a. Type of Work DRILL REEN	TER	<ol> <li>If Unit or CA Agreement, Name and No. NORTHEAST BLANCO UNIT</li> </ol>					
1b. Type of Well Oil Well Gas Well Other	Single Zone Multiple Z	8. Lease Name and Well No. NEBU 50E					
2. Name of Operator		9. API Well No.					
Attn: Dwane Oliver Devon Energy Production	on Company, L.P.	30-045-32409					
3a. Address 3b. Pho	one No. (include area code)	10. Field and Pool, or Exploratory					
PO Box 6459 Navajo Dam NM, 87419	Basin Dakoda						
4. Location of well (Report location clearly and In accordance with any State requirements.*)  11. Sec., T., R., M., or Blk. And State requirements.							
At surface 1055' FSL & 910' FWL SW SW At bottom hole 1055' FSL & 1510' FWL	Unit M SE SW Unit N	SL Sec. 25 ,T 31N ,R 8W					
At proposed prod. zone Same	SE SW CHILLY	BHL SEC 25 T 31N R 8W					
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TO	NALOR ROOT OFFICE						
		12. County or Parish 13. State					
Approximately 29 miles northeast of		San Juan / NM					
15. Distance from proposed*	16. No. of Acres in lease	17. Spacing Unit dedicated to this well					
location to nearest property or lease line, ft.	1022	310.83 W/S					
(Also to nearest drlg unit line, if any)	1022	310.83 0/					
18. Distance from proposed location*	19. Proposed Depth	20. BLM/ BIA Bond No. on file					
to nearest well, drilling, completed,	8100MD, 8039 TVD	CO-1104					
applied for, on this lease, ft.							
21. Elevations (Show whether DF. RT, GR, etc.)	22. Aproximate date work wi	ill start* 23. Estimated Duration					
6397' GL	Upon Approva	d 20 Days					
24. Attachments							
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas Order No. 1 sl	hall be attached to this form:					
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan ( if the location is on National Forest System L SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	item 20 above). ands, the 5. Operator certificat	ecific information and/ or plans as may be required by t					
25. Signature Name Dwan	(Printed/Typed)	Date					
	ne Oliver	10-14-04					
Title							
Construction Foreman							
Approved By Signature Name	(Printed/ Typed)	Date / ( / Z / 04					
Title Office	$\alpha$						
Application approval does not warrant or certify that the applicant holds	s legal or equitable title to those	e rights in the subject lease which would entitle the app					
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	• •						
States any false, fictitious or fraudulent statements or representations as	to any matter within its jurisdi	iction.					

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 Bnergy, 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

		WE	LL LO			EAGE DEDIC	ATIO	N PLA	ΛT		
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4 Property	Code				<sup>1</sup> Propert	y Name				-	Well Number
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6137	No.	n	evon R	enerov 1	•	Company, L.P			1		6397
0131				mer gy		Location	•		i		- 0037
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(R) · BLM Record

Form 3160-5 (August 1999).

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED	
OMB NO. 1004-0135	
 Expires: November 30, 200	ú

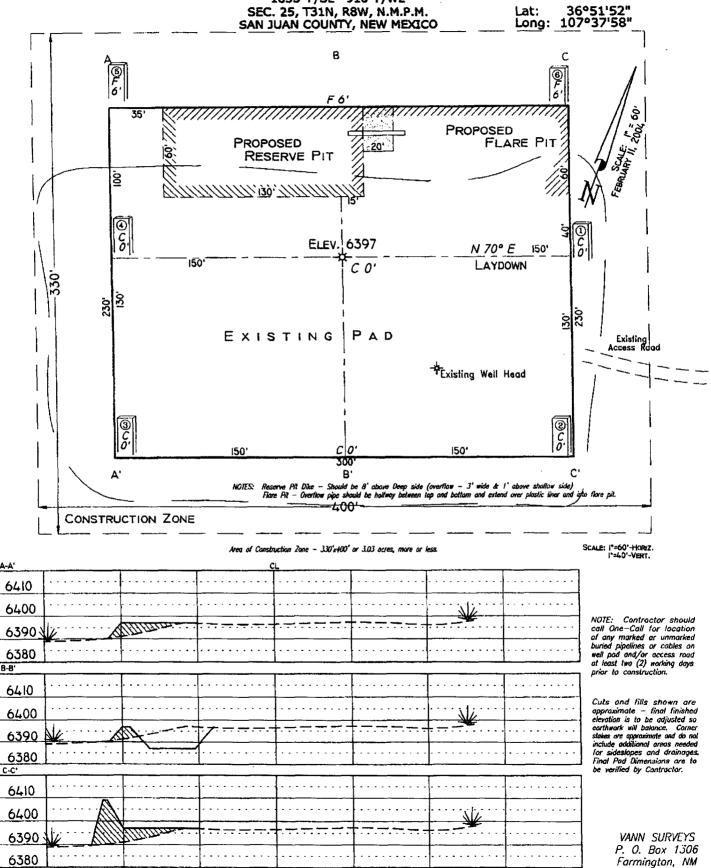
5.	Lease Serial No.
	SF 079082

Do not use thi abandoned wel	s form for proposals to I. Use form 3160-3 (API	drill or to re- D) for such(p	enter an oposals. ] [	68 11	6 If Indian, Allottee or	Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	tions on reve			7. If Unit or CA/Agree	ment, Name and/or No.
1. Type of Well Gas Well Oth	er		070 FARA	HMGTGI	8: Well Name and No. NEBU 50E	·
Name of Operator     DEVON ENERGY CORP.		CHARLES MU E-Mail: charles.		m	9. API Well No. 30645	32409
3a. Address 20 NORTH BOARDWAY OKLAHOMA CITY, OK 73102	2	3b. Phone No. Ph: 405.552 Fx: 405.552			10. Field and Pool, or I BASIN DAKOTA	Exploratory
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	<i>i</i> :		500a	11. County or Parish, a	nd State
Sec 25 T31N R8W SESW 105	55FSL 910FEL		, i		SAN JUAN COL	INTY, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE	RECEI NO.	C/ 1/ 1/20	EPORT, OR OTHER	R DATA
TYPE OF SUBMISSION			TYPE	OF ACTION	<del>_</del>	
Notice of Intent     ■	☐ Acidize	☐ Deep	en	☐ Produc	tion (Start/Resume)	■ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fract	ure Treat	☐ Reclan	nation	■ Well Integrity
	☐ Casing Repair	_	Construction	☐ Recom	-	Other Change to Original A
☐ Final Abandonment Notice	☐ Change Plans	_ ~	and Abandon		rarily Abandon	PD
13. Describe Proposed or Completed Op-	☐ Convert to Injection	☐ Plug		☐ Water		
If the proposal is to deepen directions Attach the Bond under which the won following completion of the involved testing has been completed. Final Al determined that the site is ready for f We are requesting the following original APD:  Alternate slurry for the 7" casi Lead:500 SX OF 50/50/STD/ ADDITIVES 2% GEL, 0.2% V Tail: 75 SX50/50/STD/ POZ,	rk will be performed or provide operations. If the operation repandonment Notices shall be filinal inspection.)  In g as an addition to the country of the c	e the Bond No. on sults in a multiple led only after all rement design a dictate:  GAL/SK 6.8, I	file with BLM/B completion or recurrences, included program subm	IA. Required standard in a buding reclamation in a buding reclamation itted on the app FOAMED	ubsequent reports shall be new interval, a Form 316 on, have been completed, a W/ N2 DOWN TO 9.	filed within 30 days )-4 shall be filed once and the operator has
LWL  14. I hereby certify that the foregoing is	Electronic Submission	#33722 verified ENERGY COR	by the BLM W	ell Information	n System	
Name (Printed/Typed) CHARLES	S MUZZY		Title SR. C	PERATIONS	STECH	
Signature (Electronic	Submission)		Date 07/28	/2004		
	_THIS SPACE FO	OR FEDERA	L OR STAT	E OFFICE L	JSE	
Approved By  Conditions of approval, if any, are attache certify that the applicant holds legal or or which would entitle the applicant to conduct the second of the secon	uitable title to those rights in the uct operations thereon.	e subject lease	Title A CTION	70	M	Date /1/z/00
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	s to any matter wi	son knowingly a thin its jurisdiction	na willfully to n on.	nake to any department or	agency of the United

Submit 3 Copies To Appropriate District	State of	New Mexico		Form		
Office District I	Energy, Minerals	and Natural Resource	s	March		
1625 N. French Dr., Hobbs, NM 88240	WELL A	PI NO.				
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERY	VATION DIVISION	30-045-	te Type of Lease		
District III 1000 Rio Brazos Rd., Aztec, NM 87410		h St. Francis Dr.		TATE FEE		
District IV	istrict IV Santa Fe, INIVI 8/303					
1220 S. St. Francis Dr., Santa Fe, NM 87505			Fedural	SF 079082		
SUNDRY NOTE	CES AND REPORTS O		7. Lease	Name or Unit Agreement		
(DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR. USE "APPLICE"				IN A COR DE A NO CO VINCED		
PROPOSALS.)	(101	2	8. Well	IEAST BLANCO UNIT		
1. Type of Well:   Oil Well □ Gas Well ⊠	Other					
	Once			7 E ID Number		
2. Name of Operator DEVON I	ENERGY CORP.		6137	ILY MUNDEL		
3. Address of Operator			10. Pool	name or Wildcat		
20 NORTH BROADWAY, OKL	AHOMA CITY, OK 7.	3102	Basin	1 Dakota		
4. Well Location						
Unit Letter	19255 feet from the	South line an	d <i>910</i>	feet from the west		
Section 25 Townsh	ip 3/N Range &	W NMPM	County -	SAN JUAN		
		vhether DR, RKB, RT, G	R, etc.)			
Pit or Below-grade Tank Application (Fo	GR 6,397	surge a form C-144 must be	attached)			
Pit Location: UL M Sect 25 Twp.3  Distance from nearest surface water > 2  feet from theline and	(200) Below-grade Tank Lo	ocation ULSect		L;		
Distance from nearest surface water_>z	Below-grade Tank Localized From the	ndicate Nature of No	TwpRng otice, Report of SUBSEQUE	or Other Data		
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### PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P.

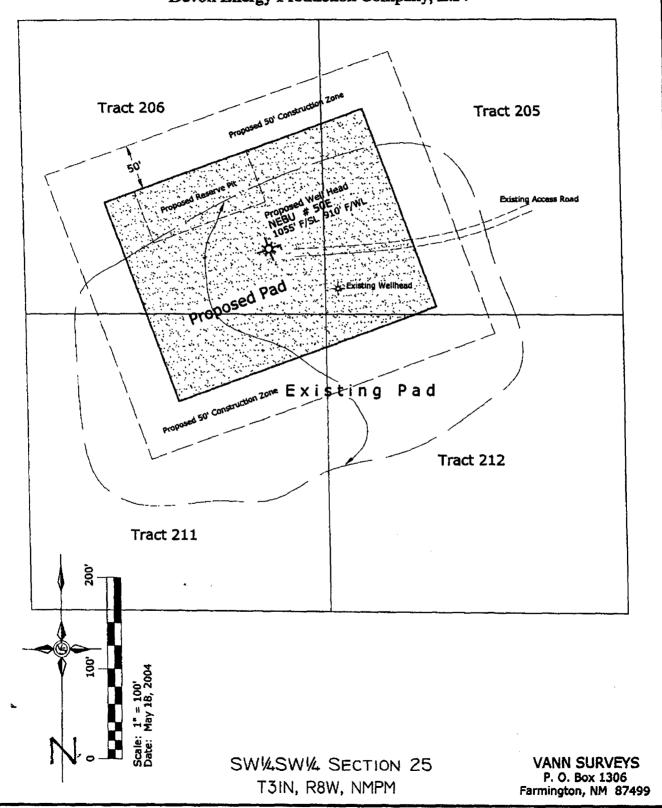
NEBU #50E 1055' F/SL 910' F/WL SEC. 25, T31N, R8W, N.M.P.M.



### Sketch Showing Proposed Pad Layout for NEBU # 50E

Within the SW¼SW¼ of Sec. 25, T31N, R8W, N.M.P.M., San Juan County, New Mexico

Devon Energy Production Company, L.P.



### NEBU 50E Unit M 25-31N-8W San Juan Co., NM

### **DRILLING PLAN**

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

annakon -			Telle Bysley (File log) Alegaria
San Jose	Surface	Surface	
Ojo Alamo	2218	2255	Aquifer
Kirtland	2313	2352	
Fruitland	2865	2917	Gas
Pictured Cliffs	3341	3402	Gas
Lewis	3438	3499	Gas
Intermediate TD	3538	3599	
Mesaverde	4083	4144	Gas
Chacra	4456	4517	Gas
Cliff House	5258	5319	Gas
Menefee	5300	5361	Gas
Point Lookout	5609	5670	Gas
Mancos	5981	6042	Gas
Gallup	6898	6959	Gas
Greenhorn	7635	7696	
Graneros	7683	7744	Gas
Dakota	7782	7843	Gas
Morrison	7989	8050	
TD	8039	8100	

<sup>\*</sup>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 precharge 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:

0-285	0-285	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3538	0-3599	8-3/4"	7"	K-55	23#	LTC	New
0-8039	0.9100	6-1/4"	4-1/2"	J-55	11.6#	LTC	New

The 9-5/8" surface pipe will be tested to 750 psi. All casing strings below the surface shoe 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.

<u>Surface</u>: 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)

<u>Intermediate</u>: 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).

<u>Production</u>: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3500' (estimated 25 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 100% Standard Cement, 2.00% CaCl2, .25 #/sk Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sk;

Water: 5.24 gal/sk

Intermediate String:

Cement will be circulated to surface.

Lead: 575 sks 50/50 Poz with 50% Class B Cement, 50% San Juan Poz, .4% Halad-344, .1% CFR-3, 3% Bentonite, 5#/sk Gilsonite, .25#/sk Flocele. Density: 13.0 lb/gal; Yield: 1.46 cuft/sk; Water: 6.42 gal/sk

Tail: 75 sks 50/50 Poz with 94#/sk Standard Cement, 0.3% Halad-344, .25 #/sk Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sk; Water: 5.23 gal/sk

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, 1/10% CFR 3, .2% Halad 344, Yield 1.47 ft3/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 ft3/sks.

**Production String:** 

TOC designed to circulate 1000' into intermediate string, cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

Lead: 450 sks 50/50 Poz with 50% Standard Cement, 50% San Juan POZ, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sk Gilsonite, 0.25 #/sk Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sk; Water: 6.35 gal/sk

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 sxs 50/50 POZ, 3% gel, .9% Halad 9, .2% CFR 3, %# Gilsonite & ¼# Flocele. Yield 1.47 13#.

Stage 2:

Lead: 450 sx 50/50 POZ, 3% Gel, .9% Halad 9, .2% CFR 3, 5#

Gilsonite & 1/4# Flocele. Yield 1.47 13 ppg.

Tail: 25 sx (5 bbls) Class B .4% Halad 9. Yield 1.18 15.6#.

#### 4. DRILLING FLUIDS PROGRAM:

							Some se
0-3538	0-3599	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
3538-7782	3599-7843	Air				NC	
7782 - TD	7843 - TD	Air/N2 or Mud	8.5-9.0*	30-50	8.0-10.0	8-810cc @ TD	Low solids- non-dispersed. * 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: [

Density Neutron Induction

In the event open hole logs are not run in the well, a cased hole evaluation log will Be run.

Survey:

Deviation surveys will be taken every 500' from 0-TD or first succeeding bit change. The hole will be air drilled from intermediate casing point to TD. The equipment used in this type of operation will not allow for single shot surveys without considerable operational delays. A survey will be taken at TD. Similar wells in this area have not shown significant deviation in this section of the hole.

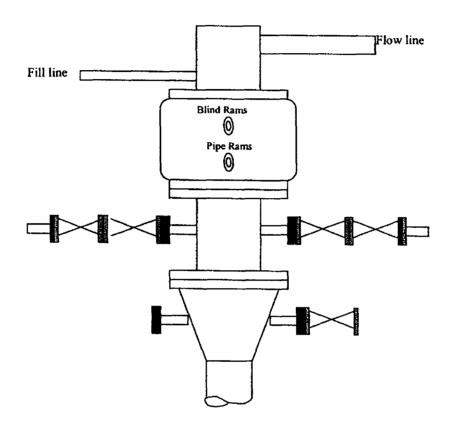
Cores: None anticipated.

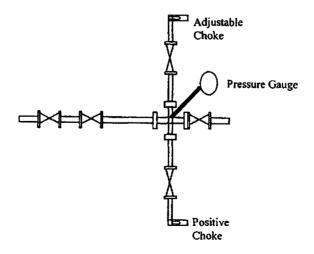
**DST's:** None anticipated.

#### 6. ABNORMAL CONDITIONS:

The Fruitland Coal will be encountered in the 8-3/4" hole. Estimated formation pressure is 300 psi. No other abnormal pressures and/or temperatures are expected. No hydrogen sulfide should be present.

# 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.