Form 3160-3 April 2004) UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	50 20 50 20	FORM APPROVED OMB No. 1004-0137 Did 2: HExpires March 31, 2007 5. Lease Serial No. SF 079060		
APPLICATION FOR PERMIT TO		NEUTE Terr	6. If Indian, Allotee or Tribe Name		
Ia. Type of work: ✓ DRILL REENT	ER		7 If Unit or CA Agreement, Name and No. Northeast Blanco Unit		
lb. Type of Well: ☐ Oil Well	Single Zone Multi	ple Zone	8. Lease Name and Well No. NEBU 19M		
Name of Operator     Devon Energy Production Company, I	L.P.		9. API Well No. 30-30/50		
3a. Address PO Box 6459 Farmington, NM 87419	3b. Phone No. (include area code) 405-552-7917		10. Field and Pool, or Exploratory La Tava Basin Dakota/S beathers P/C		
4. Location of Well (Report location clearly and in accordance with a At surface 840' FNL & 1,380' FEL, Unit B, N	W NE		11. Sec., T. R. M. or Blk and Survey or Area 20-30N-7W		
At proposed prod. zone 1,225' FNL & 1,650' FEL, Unit B,	NW NE				
14. Distance in miles and direction from nearest town or post office*  Approximately 28.5 miles			12 Sounty or Parish. 13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)  840'			ing Unit dedicated to this well  3 > 0 0 K E N E 4		
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth <b>8,351 TMD</b>	20. BLM/	I/BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GR 6,388'	22 Approximate date work will sta 02/01/2007	art*	23. Estimated duration Unknown		
	24. Attachments				
<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 SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover tem 20 above).  Lands, the 5. Operator certifi	the operation	this form:  ions unless covered by an existing bond on file (see  aformation and/or plans as may be required by the		
	authorized offi Name (Printed/Typed)	cer.	Date		
25. Signature	Melisa Castro		12-19-06		
Title Senior Staff Operations Technician			4		
Approved by (Signature) Mandeolist	Name (Printed/Typed)		Date 123/07		
Title AFM	Office TT				
Application approval does not warrant or certify that the applicant hol conduct operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those right	hts in the su	ubject lease which would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as	crime for any person knowingly and s to any matter within its jurisdiction.	willfully to i	make to any department or agency of the United		
*(Instructions on page 2)	actional Sorv	ey+	NOTIFY AZTEC OCD 244/3 CS		

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

P/3

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

DIL COMS. DIV.

District I PO Box 1980, Hobbs NM 88241-1980

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

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 Number 30-039-301	50 71599/soco Basin Dakota/Silver	- Pictured Cliffs
<sup>4</sup> Property Code	¹ Property Name	<sup>6</sup> Well Number
19641	NEBU	# 19M
OGRID No.	* Operator Name	<sup>9</sup> Elevation
6137	Devon Energy Production Company, L.P.	6388

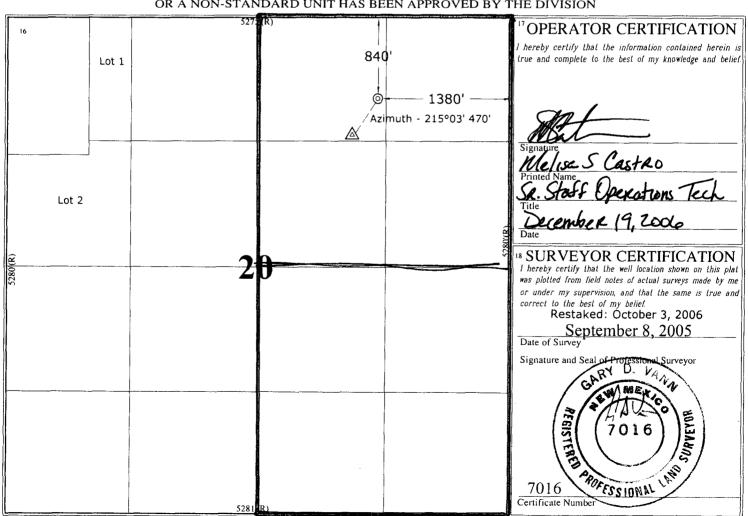
#### **Surface Location**

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	20	30 N	7 W		840	NORTH	1380	EAST	Rio Arriba

#### 11 Bottom Hole Location If Different From Surface

<sup>7</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	20	30 N	7 W		1225	NORTH	1650	EAST	Rio Arriba
Dedicated Acre	K 1 Join	t or Infill 14	Consolidatio	on Code 15 C	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

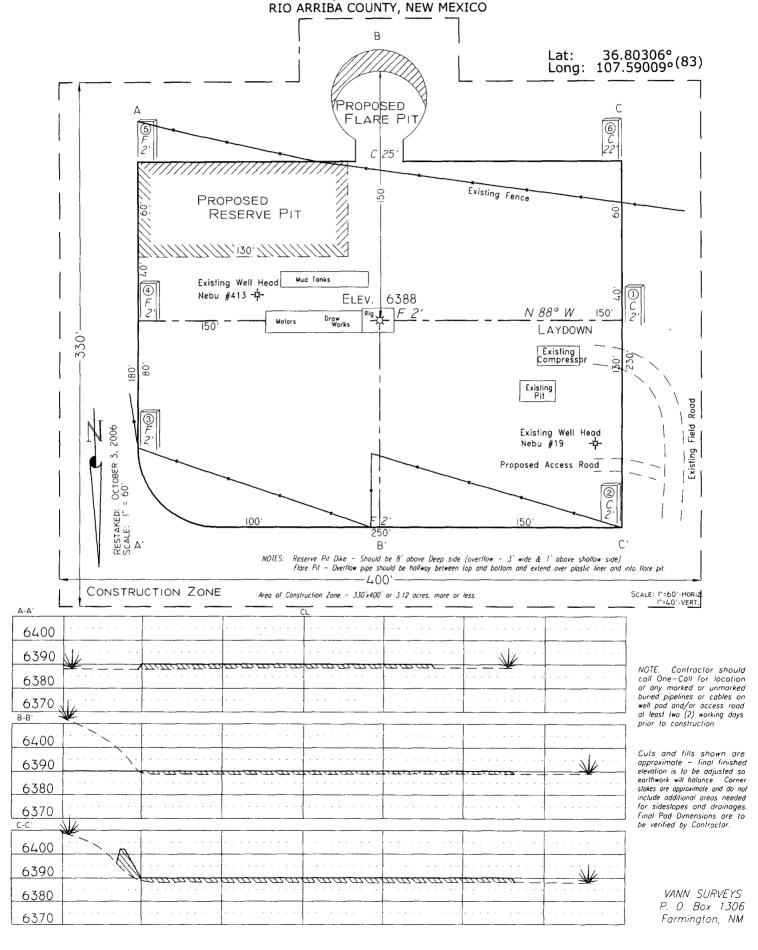


(R) - GLO Record

Submit 3 Copies To Appropriate District  Office  State of New Mexico	Form C-103
District 1 Energy, Minerals and Natural Resources	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	30-039-30150
District III 1220 South St. Francis Dr.	5. Indicate Type of Lease  STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	STATE FEE  6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM	SF 079060
87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	NORTHEACT DIANGO IDUT
PROPOSALS.)	NORTHEAST BLANCO UNIT
1. Type of Well:	8. Well Number 19M
Oil Well Gas Well Other	19101
2. Name of Operator	9. OGRID Number
Devon Energy Production Company, L.P.	6137
3. Address of Operator	10. Pool name or Wildcat
PO Box 6459, Navajo Dam, NM 87419	Dakota / S Los Pinos Pictured Cliffs
4. Well Location	
Unit Letter B : 840 feet from the North line and 1,380 fe	est from the Fast line
Cint LetterB640lett from theNorm fine and1,300let	tet from theLastime
Section 20 Township 30N Range 7W NMPM	County - Rio Arriba
11. Elevation (Show whether DR, RKB, RT, GR,	
GR 6,388'	Table 1
Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be atta	iched)
Pit Location: UL_B_Sect_20_Twp_30N_Rng_7W_Pit type_Drilling_Depth to Groundwater_	>100'_Distance from nearest fresh water well_>1000'_
Distance from nearest surface water_>1000'_ Below-grade Tank Location ULSect	Two Pag .
Distance from hearest surface water_>1000 _ Below-grade fails Location OLSect	, wp, kiig,
feet from theline andfeet from theline	, , , , , , , , , , , , , , , , , , ,
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# PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY , LP. Nebu # 19M

840' F/NL 1380' F/EL SEC. 20, T30N, R7W, N.M.P.M.



### NEBU 19M Unit B 20-30N-7W San Juan Co., NM

### **DRILLING PLAN**

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

	TMD (ft)	TVD (ft)	Hydrocarbon/Water
Formation	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(1-6)	Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2332	2288	Aquifer
Kirtland	2441	2395	
Fruitland	2865	2816	Gas
Fruitland 1 <sup>st</sup> Coal	3092	3043	Gas
Pictured Cliffs Tongue	3362	3313	Gas
Pictured Cliffs Main	3363	3314	Gas
Lewis	3447	3398	Gas
Intermediate TD	3547	3498	
Huefanito Bentonite	4041	3992	Gas
Chacra / Otera	4408	4359	Gas
Cliff House	4906	4857	Gas
Menefee	5251	5202	Gas
Point Lookout	5564	5515	Gas
Mancos	5939	5890	Gas
Gallup	6881	6832	Gas
Greenhorn	7551	7502	
Graneros	7622	7573	Gas
Paguate	7753	7704	
Cubero	7776	7727	
Oak Canyon	7840	7791	
Encinal Canyon	7865	7816	

Lower Encinal Canyon	7895	7846	
Burro Canyon	7935	7886	
Morrison	7975	7926	
TD	8351	8302	

<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, with a size of 2", 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:

TMD	TVD:	Hole Size	Size	Grade	Weight	Thread	Condition
0-285'	0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3547	0-3498	8-3/4"	7"	K-55	23#	LTC	New
0- TD	0- TD	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).

**Production**: 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 sx Class "B" with 100% Standard Cement, 2.00% CaCl2, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.24 gal/sx

\* Minor variations possible due to existing conditions

Intermediate String:

Cement will be circulated to surface.

**Lead:** 500 sx 50/50 Poz, Yd-1.45, Water Gal/sx 6.8, Mixed @ 13ppg Foamed W/ N2 Down To 9.0# Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

**Tail:** 75 sx 50/50 Poz, Yd-1.45, Water Gal/Sk 6.8, Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

\* Minor variations possible due to existing conditions

If hole conditions dictate, an alternate, cement design will be used:

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

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

\* Minor variations possible due to existing conditions

**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:** 250 sx 50/50 Poz with 2% Gel, 0.2% Halad, 0.1% CFR-3, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Mixed at 13 ppg, 1.47 ft 3/sx foamed to 9 ppg, 2.18 ft 3/sx.

Tail: 450 sx 50/50 Poz with 50% Standard Cement, 50% San

Juan Poz, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sx; Water: 6.35 gal/sx \*

\* Minor variations possible due to existing conditions

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

#### 4. DRILLING FLUIDS PROGRAM:

TMD Interval	TVD Interval	Type	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285'	0-285'	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
285'-3,547'	285'-3,498'	Air				NC	
3,547' - TD	3,498' - 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.

#### 7. OTHER INFORMATION:

The anticipated starting date and duration of the operation will be as follows:

Starting Date:

**Upon Approval** 

Duration:

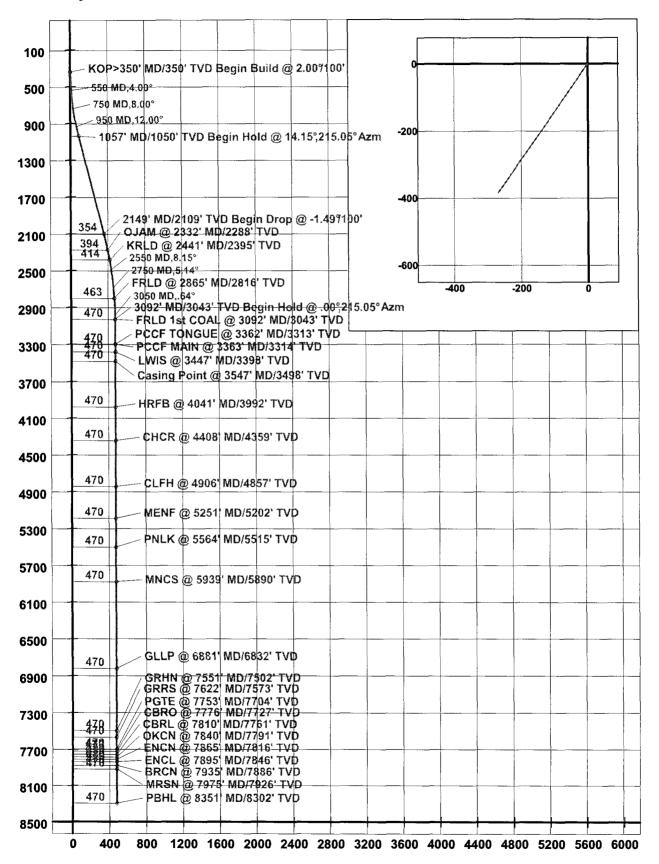
20 days

If the well is completed as a dry hole or as a producer, Well Completion or Recompletion Report and Log (Form 3160-4) will be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3160. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be submitted directly to the Authorized Officer or filed with Form 3160-4.

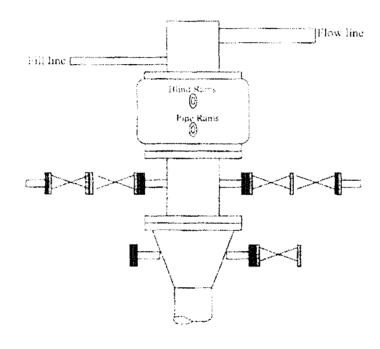
Company: Devon Energy Lease/Well: NEBU 19 M Location: Rio Arriba County

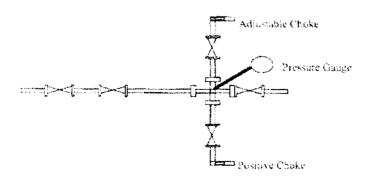
State/Country: TX





## 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 CTR 3350 requirements for 2M systems.