#3

Form 3160 -3 (April 2004)	<u>የመ</u> ለ ስርር ኃ) B B B	OMB No	APPROVED b. 1004-0137 March 31, 2007	
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	cuca cuca	5. Lease Serial No. SF 079010	March 31, 2007	
APPLICATION FOR PERMIT TO	,,,,		6. If Indian, Allotee	or Tribe Name	
la. Type of work: DRILL REENTI	ER		7 If Unit or CA Agre Northeast Bla		No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and NEBU 344M	Well No.	
2 Name of Operator Devon Energy Production Company, L				9-30/4	19
3a. Address PO Box 6459 Farmington, NM 87419	3b. Phone No. (include area code) 405-552-7917			/ Blanco Mesav	
4. Location of Well (Report location clearly and in accordance with ar At surface 1,775' FSL & 1,485' FEL, Unit J,	•		11. Sec., T. R. M. or B	lk. and Survey or a	Area
At proposed prod. zone 2,300' FSL & 1,900' FWL, Unit 14. Distance in miles and direction from nearest town or post office*	K		12. County or Parish	13. Sta	nte .
Approximately 59.25 miles			Rio Arriba		NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,485'	16. No. of acres in lease 320 Acres	17. Spacing	ng Unit dedicated to this well ≠cres		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8,569'	20. BLM/E	BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GR 6,281'	22 Approximate date work will star 04/01/2007	rt*	23. Estimated duration Unknown		
	24. Attachments				
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover to Item 20 above). Lands, the 5. Operator certification is a second to cover the second	he operation cation specific info	s form: ns unless covered by an mrmation and/or plans as	J	·
25. Signature	Name (Printed/Typed) Melisa Castro			Date 12-17	-06
Title Senior Staff Operations Technician					
Approved by (Signature) Original Signed: Stephen Mason	Name (Printed/Typed)			Date FEB 2	E 2007
Title Original Signed: Stephen Mason	Office				
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	ts in the sub	ject lease which would	entitle the applicar	itto
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and v to any matter within its jurisdiction.	willfully to m	ake to any department	or agency of the I	Jnited
*(Instructions on page 2)	1/			1. L	
•	r	NOTIF ALT SIL	TY AZTEC OCD ME TO WITNES	2595	eemo

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

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

NMOCD

107 \$ 3/2/07

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

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

Form C-102

RCUD MARZNOZ REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT -039 - 301 U 9 Hanco Mesaverde **NEBU** # 344M 19641 ^q Elevation * Operator Name 6137 Devon Energy Production Company, L.P. 6281

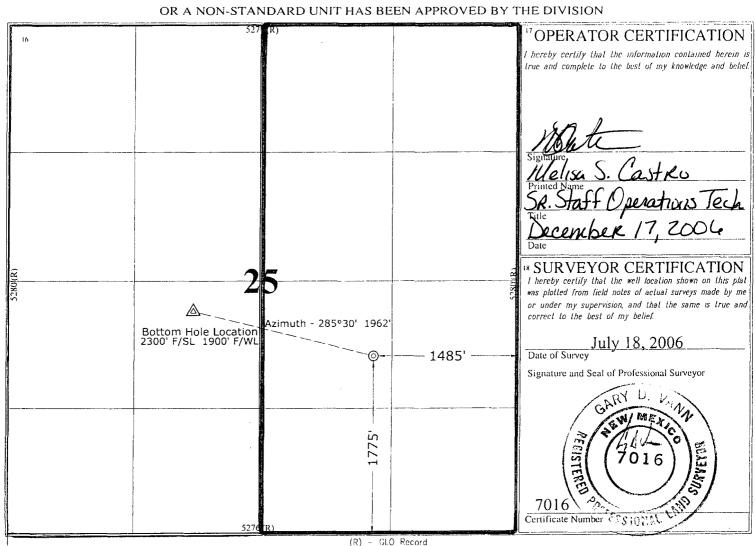
Surface Location

UI	or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	J	25	31 N	7 W		1775	SOUTH	1485	EAST	Rio Arriba
				1.1						

"Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
. J	25	31 N	7 W		2300	SOUTH	1900	WEST	Rio Arriba
Dedicated Acres	1 Join	ı or İnfill	Consolidatio	n Code 15	Order No.				

LLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

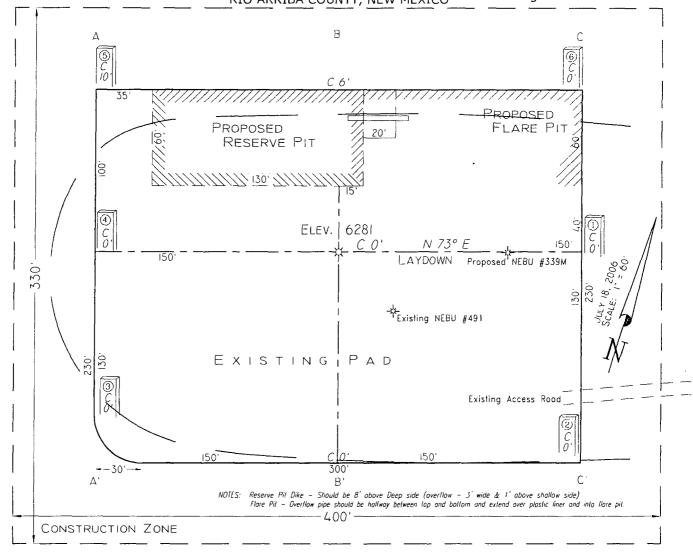


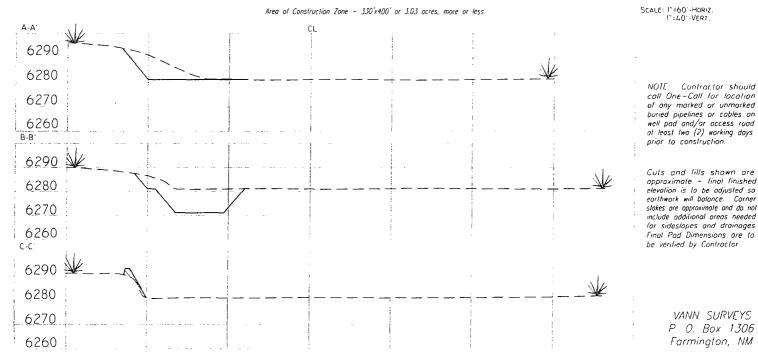
Submit 3 Copies To Appropriate District Office	State of				Form C-103
District I	Energy, Minerals	and Natu	ral Resources	WELL API NO.	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	OH COMCEDI	LATION	30-039	- 30149	
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERV 1220 South			5. Indicate Type	of Lease
1000 Rio Brazos Rd., Aztec, NM 87410				STATE	FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe	5, INIVI 6	7303	6. State Oil & G SF 079010	as Lease No.
87505	TEG AND DEDODERS ON				
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSA	ES AND REPORTS OF			7. Lease Name o	or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICA				NORTHEAST I	BLANCO UNIT
PROPOSALS.) 1. Type of Well:				8. Well Number	
Oil Well Gas Well	Other			344M	
2. Name of Operator				9. OGRID Numl	ber
	rgy Production Compa	any, L.P.		6137	
3. Address of Operator	7410			10. Pool name o	r Wildcat
PO Box 6459, Navajo Dam, NM 8 4. Well Location	0/419			Basin Dakota / B	nanco iviesaverue
4. Well Location					
Unit LetterJ:1,775_	feet from theSout	h line a	nd1,485feet fr	om theEastlir	ne
Section 25 Township	31N Range 7W	NMPM	County	Rio Arriba	
	11. Elevation (Show wh				
12 (4.2)	GR 6,281'		Ź		
Pit or Below-grade Tank Application (For p					
Pit Location: UL_J_Sect_25_Twp_31					
Distance from nearest surface water_>100			SectTwp	Rng;	
feet from theline and	feet from the	line			
12. Check Ap	ppropriate Box to In	dicate N	lature of Notice,	Report or Other	r Data
NOTICE OF INT				SEQUENT RE	
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WOR	к 🗆	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DR	LLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	MULTIPLE		CASING TEST A	ND 🗆	
	COMPLETION		CEMENT JOB		
OTHER: CONSTRUCT DRILLING F	PIT	\boxtimes	OTHER:		
13. Describe proposed or comple					
of starting any proposed wor or recompletion.	k). SEE RULE 1103. I	or Multip	ole Completions: At	tach wellbore diag	ram of proposed completion
14.					
Devon Energy will be o	constructing a lineo	d drillin	g pit. The close	re of said pit v	vill be in accordance
with the NMOCD regu	ılations with the cu	tting of	the liner apply	ing to the BLM	rules.
	 			11 1: 6	
I hereby certify that the information a grade tank has been/will be constructed or c					
SIGNATURE SIGNATURE		TITLE _	Sr_Staff Operation	s Technician	
Type or print name Melisa Castro	E-mail address: M	elisa.castr	o@dvn.com Tel	ephone No. 405-55	52-7917
(This space for State use)	、				
APPPROVED BY	1// -	TITI F	TITY OIL & GAS IN:	PECTOP mer -	DATE MAR 0 2 2007
Conditions of approval if any:		YYYDD <u>well</u>	A O O O O O O O O O O O O O O O O	u zi iya, iist. G	— 2007 € 2007

PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P. Nebu # 344M

1775' F/SL 1485' F/EL SEC. 25, T31N, R7W, N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO

Lat: 36.86814° (83) Long: 107.51838° (83)





NEBU 344M

From the town of Aztec, NM, take State HWY 64 for 37.4 miles to State HWY 527. Turn left on State HWY 527 and travel 7.9 miles. Take a right onto Rosa Road and go 6.8 miles. Turn left and travel 3.2 miles to locked gate. Proceed through gate for 3.4 miles to location turn off. Turn left and travel 0.25 miles to location road. Turn right onto location road and travel 0.3 miles to well location.

NEBU 344M Unit J 25-31N-7W San Juan Co., NM

DRILLING PLAN

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

Formation	TMD (ft)	TVD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2530	2110	Aquifer
Kirtland	2842	2331	
Fruitland	3376	2752	Gas
Fruitland 1 st Coal	3548	2905	Gas
Pictured Cliffs Tongue	3764	3106	Gas
Pictured Cliffs Main	3874	3212	Gas
Lewis	3999	3333	Gas
Intermediate TD	4100	3433	
Huefanito Bentonite	4618	3950	Gas
Chacra / Otera	5008	4340	Gas
Cliff House	5613	4945	Gas
Menefee	5845	5177	Gas
Point Lookout	6120	5452	Gas
Mancos	6594	5926	Gas
Gallup	7497	6829	Gas
Greenhorn	8173	7505	
Graneros	8222	7554	Gas
Paguate	8341	7673	1
Cubero	8351	7683	
Oak Canyon	8429	7761	
Encinal Canyon	8456	7788	·

Lower Encinal Canyon	8470	7802	
Burro Canyon	8533	7865	
TD	8569	7901	

^{*}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
0-4100	0-3433	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).

<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 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:

2

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	Typë	Weight (ppg)	Viscosity	pΗ	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'-4,100'	285'-3,433'	Air				NC	
4,100' - TD	3,433' - 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.

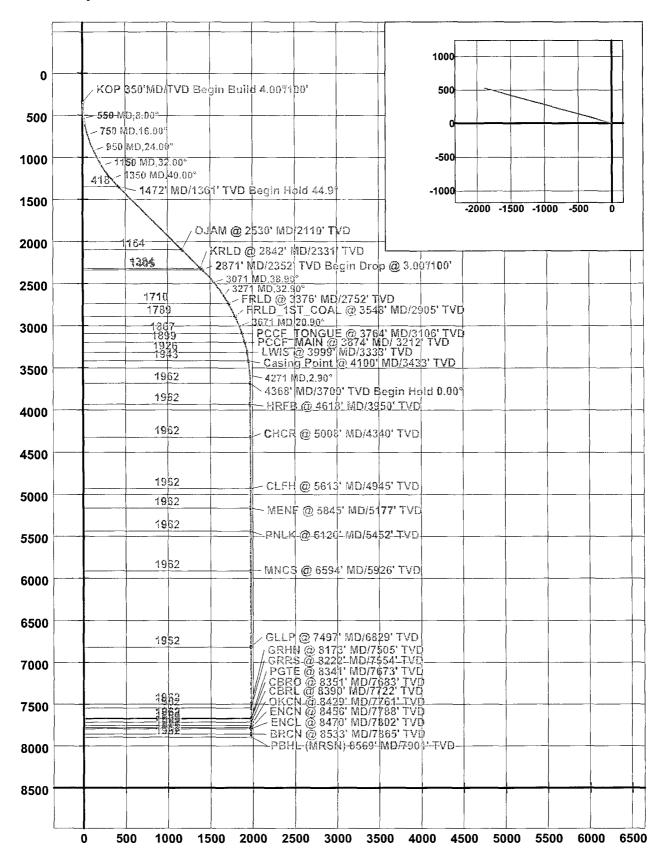
DST's: None anticipated.

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.

Company: Devon Energy Lease/Well: NEBU 344M Location: Rio Arriba County State/Country: New Mexico





Well Control Equipment 2,000 psi Configuration

