Form 3160 -3 (April 2004)				APPROVED 5. 1004-0137 March 31, 200	17
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	INTERIOR INTERIOR	AM 1	5.0 Lease Serial No. SF 079001		
APPLICATION FOR PERMIT TO	DRILL OR REENTER CE	IVED	6. If Indian, Allotee	or Tribe Na	ame
	<u> 070 FARMI</u>	NGION	NM CAA		131
la. Type of work: DRILL REENTE	ER '		7. If Unit or CA Agre Northeast Blan		ie and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and NEBU 409A	Well No.	
2. Name of Operator  Devon Energy Production Company, L	.Р.		9. API Well No.	9-29	628
3a. Address PO Box 6459	3b. Phone No. (include area code)		10. Field and Pool, or	. ,	
Farmington, NM 87419	505-632-0244		Basin Fruitlan		
4. Location of Well (Report location clearly and in accordance with an NW NW, Unit D, 940' FNL & 1,315		1	11. Sec., T. R. M. or B	llk.and Surv	ey or Area
7 it surface			Sec. 10, T30N,	R7W	
At proposed prod. zone SW NW, Unit E, 1,400' FNL & 1,30	JU' FWL		12 Con Donish		13. State
14. Distance in miles and direction from nearest town or post office*  Approximately 36 miles			12. Con or Parish	1	13. State 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. (Also to nearest drig. unit line, if any)  940'	638.75 Acres	320 A	cres W/2		· P
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 3,313'	20. BLM/B	IA Bond No. on file		,
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GR 6,329'	22. Approximate date work will sta 10/09/2005	rt*	23. Estimated duratio Unknown	n	1,500
	24. Attachments	_			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be a	ttached to thi	s form:		
Well plat certified by a registered surveyor.     A Drilling Plan.			is unless covered by an	existing bo	and on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5. Operator certific	specific info	rmation and/or plans as	s may be rec	quired by the
25. Signature 1/1, 5, 5	Name (Printed/Typed)  Melisa Zimmerman	1		Date 8-9-	-05
Title Senior Operations Technician			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Approved by Approv	Name (Printed/Typed)			Date	La/

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 conduct operations thereon. Conditions of approval, if any, are attached.

Office

Title

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 page 2) NMOCD

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

320

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

2005 AUG 12 AM 10 07 \_\_AMENDED REPORT

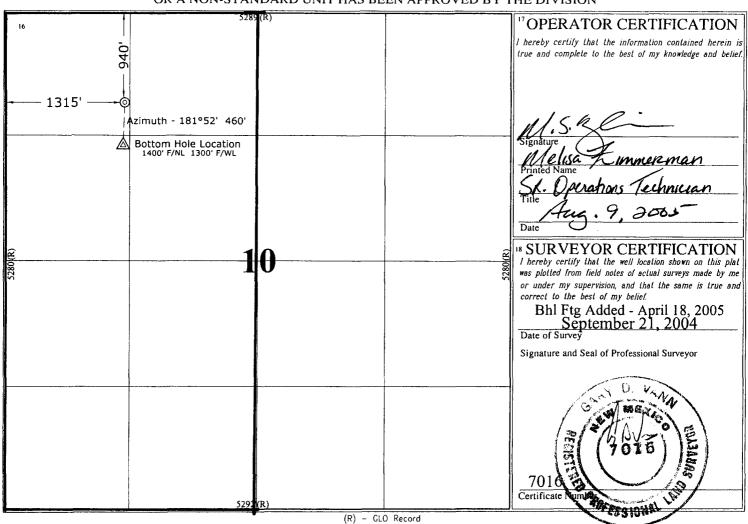
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		<sup>1</sup> Pool Code	Pool Code UTUT ATATA POOL Name . 13			
30-039-29628 74		74629	.29 Basin Fruitland Coal			
Property Code		<u> </u>	5 Property Name	6 Well Number		
19641	NE	EBU		# 409A		
OGRID No.			* Operator Name	<sup>♥</sup> Elevation		
6137	De	von Energy Produc	ction Company, L.P.	6329		

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	10	30 N	7 W		940	NORTH	1315	WEST	Rio Arriba
			" Bott	om Hole	Location If	Different Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
$\mathbf{E}$	10	30 N	7 W		1400	NORTH	1300	WEST	Rio Arriba
Dedicated Acre	s O Join	t or Infill	Consolidatio	n Code 15 (	Order No.	.l		1	

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

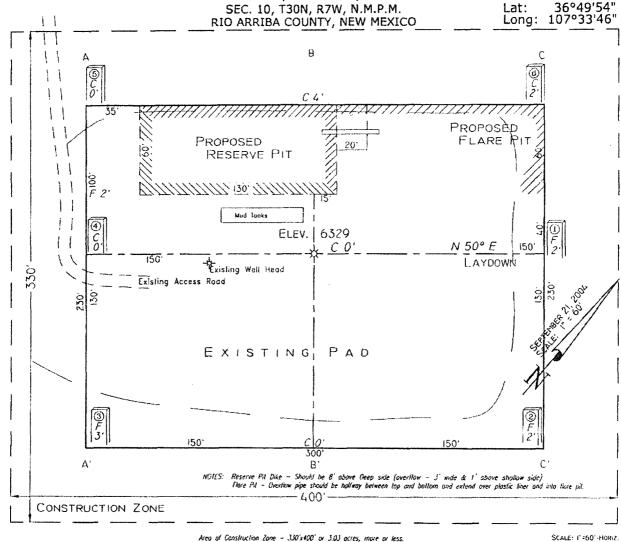


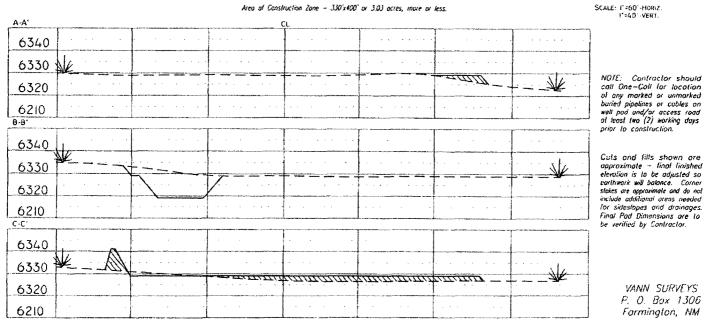
Submit 3 Copies To Appropriate District	State of New	Mexico		Form C-103
Office <u>District I</u>	Energy, Minerals and N	Vatural Resources		March 4, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	039-29628
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	ON DIVISION	5. Indicate Type	
District III	1220 South St. F	Francis Dr.	STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM	1 87505	6. State Oil & C	
1220 S. St. Francis Dr., Santa Fe, NM			SF 079001	
87505 SUNDRY NOTIC	CES AND REPORTS ON WEI	LLS	7. Lease Name	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA	ALS TO DRILL OR TO DEEPEN OR	R PLUG BACK TO A		3
DIFFERENT RESERVOIR. USE "APPLICA" PROPOSALS.)	ATION FOR PERMIT" (FORM C-10	1) FOR SUCH		BLANCO UNIT
1. Type of Well:			8. Well Number	•
Oil Well Gas Well	Other		409A	
2. Name of Operator			9. OGRID Num	ber
	rgy Production Company, L	.P.	6137	
3. Address of Operator	27410		10. Pool name o	1
PO Box 6459, Navajo Dam, NM 8 4. Well Location	3/419		Basin Fruitland	Coal
4. Well Location				
Unit Letter D: 940	0'feet from theNorth_	line and 1,315'	feet from the	West line
	ip 31N Range 7W	NMPM NMPM CD		Rio Arriba
	11. Elevation (Show whether GR 6,329'	DR, RKB, RT, GR, etc.	)	
Pit or Below-grade Tank Application (For		form C-144 must be attache	<u>d)</u>	
Pit Location: UL_D_ Sect_10_Twp31	N Rng 7W Pit type Drilling	Depth to Groundwater >1	00' Distance from ne	arest fresh water well >1000'
Distance from nearest surface water >10				
feet from the line and				·
10 (1 1 1		27	D	<b></b>
·	ppropriate Box to Indicate		•	
NOTICE OF INT PERFORM REMEDIAL WORK □			SEQUENT RE	=PORTOF: ALTERING CASING □
PERFORM REMEDIAL WORK	PLUG AND ADANDON []	REMEDIAL WOR	к 🗆	ALTERING CASING []
TEMPORARILY ABANDON 🔲	CHANGE PLANS	COMMENCE DR	LLING OPNS.	
PULL OR ALTER CASING	MILITIDIE -	CASING TEST A	up $\square$	ABANDONMENT
PULL OR ALTER CASING	MULTIPLE  COMPLETION	CASING TEST A	ND 🗆	
				<u></u>
OTHER: CONSTRUCT DRILLING I		OTHER:		
13. Describe proposed or comple				
· · · · · · ·	k). SEE RULE 1103. For Mu	iltiple Completions: A	tach wellbore diag	gram of proposed completion
or recompletion. 14.				
	constructing a lined dril	ling pit. The closu	re of said pit y	vill be in accordance
			b	
WITH THE LINE CD ICE				l rules.
	ılations with the cutting			I rules.
I hereby certify that the information a	bove is true and complete to the	of the liner apply	ng to the BLM	her certify that any pit or below-
	bove is true and complete to the	of the liner apply	ng to the BLM	her certify that any pit or below- native OCD-approved plan .
I hereby certify that the information a grade tank has been/will be constructed or c	bove is true and complete to the losed according to NMOCD guideling.	of the liner apply ne best of my knowledg nes ⊠, a general permit □	e and belief. I furt or an (attached) alter	her certify that any pit or below- native OCD-approved plan .
I hereby certify that the information a	bove is true and complete to the losed according to NMOCD guideling.	of the liner apply	e and belief. I furt or an (attached) alter	her certify that any pit or below-
I hereby certify that the information a grade tank has been/will be constructed or c	bove is true and complete to the losed according to NMOCD guideling.	of the liner apply ne best of my knowledg nes ⊠, a general permit □	e and belief. I furt or an (attached) alter	her certify that any pit or below- native OCD-approved plan .
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I hereby certify that the information a grade tank has been/will be constructed or c	bove is true and complete to the losed according to NMOCD guideling.	of the liner applyine best of my knowledgnes ⊠, a general permit □  ESr_Operations Tec	e and belief. I furt or an (attached) alter	her certify that any pit or below- rnative OCD-approved plan [].  DATE 8-9-05
I hereby certify that the information a grade tank has been/will be constructed or constructed o	bove is true and complete to the losed according to NMOCD guideling.  TITLE  TI	of the liner applyine best of my knowledgenes ⊠, a general permit □  ESr_Operations Teck felisa.zimmerman@dvr	e and belief. I furt or an (attached) alter hnician	her certify that any pit or below- rnative OCD-approved plan  DATE 8-9-05  e No. 405-552-7917
I hereby certify that the information a grade tank has been/will be constructed or constructed o	bove is true and complete to the losed according to NMOCD guideling.  TITLE  TI	of the liner applyine best of my knowledgnes ⊠, a general permit □  E Sr Operations Teckets a summer of the second control of the s	e and belief. I furt or an (attached) alter	her certify that any pit or below- rnative OCD-approved plan [].  DATE 8-9-05

Submit 3 Copies To Appropriate District

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

Nebu # 409A 940' F/NL 1315' F/WL SEC. 10, T30N, R7W, N.M.P.M.





### NEBU 409A Unit D 10-31N-7W San Juan Co., NM

#### **DRILLING PLAN**

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

Formation	TVD (ft)	TMD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2146	2198	Aquifer
Kirtland	2290	2344	
Fruitland	2710	2766	Gas
Fruitland 1 <sup>st</sup> Coal	2981	3037	Gas
Pictured Cliffs Tongue	3129	3185	Gas
Pictured Cliffs Main	3213	3269	Gas
PTD	3313	3369	

All shows of fresh water and minerals will be adequately protected and reported.

A 100' sump will be drilled into the Picture cliffs. A mud logger will be on location collecting samples and measuring gas levels. Should the Picture Cliffs interval appear to be productive the sump will be filled with cuttings and abandoned

#### 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 1000 psi.

#### 3. Casing & Cementing Program:

A. The proposed casing program will be as follows:

TVD	TMD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285	0-285	12-1/4"	9-5/8"	H-40	32#	STC	New
0-2710	0-2766	8-3/4"	7"	J-55	23#	LTC	New
0- TD	0- TD	6-1/4"	5-1/2"*	J-55	15.5 #	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>7" Casing</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).

#### B. The proposed cementing program will be as follows:

**Surface String:** 

9-5/8" Surface cemented in a 12-1/4" hole at 285'.

32.3# H-40 ST&C 8 Rnd Saw tooth guide shoe

Cemented with 200 sacks Class B mixed at 15.6 ppg w/.25 pps

Celloflake, 2% calcium chloride. Yeild 1.19 ft3/sx. \*

Cement designed to circulate to surface.

<sup>\*</sup> Minor variations possible due to existing hole conditions

**Production String:** 

7" Production casing cemented in an 8-3/4" hole

23# J-55 LT&C 8 Rnd

Float collar

Joint

Float Shoe Cement with

**Lead:** 500 sacks Class B 50/50 POZ, 3% gel, 5# gilsonite, 1/4"#

Flocele, .1% CFR 3, .2% Halad 344, yield 1.47 ft3/sx.

Tail: 25 sx Class 'B'. 1.18 ft3/sx. \*

Cement designed to circulate to surface.

Pending hole conditions, cement baskets may be installed above

TD

\* Minor variations possible due to existing hole conditions.

Liner:

5-1/2" liner\*

15.5# J-55 LT&C 8 Rnd

Shoe

Not Cemented

\* May not be run pending hole conditions.

If well does not respond to proposed to completion, the 5 ½ "
liner will be cemented using 300 sacks class B 50/50 POZ, 3% gel, 5# gilsonite, ½"# Flocele, .1% CFR 3, .2% Halad 344, yield 1.47 ft3/sx. \*\*

#### 4. DRILLING FLUIDS PROGRAM:

TVD	TMD	Type	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285	0-285	Spud	8.4-9.0	29-70	8.0	NC	FW gel,
285-2710	285-2766	LSND	8.4-9.0	29-70	8.0	10-12	LCM as needed
2775 - TD	3842 - TD	Air					Foam as needed

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.

<sup>\*\*</sup> Minor variations possible due to existing hole conditions

#### 5. EVALUATION PROGRAM:

Wireline Logs:

None

Mud Logs: mud logging in Fruitland Coal.

Survey:

Deviation surveys will be taken every 500' from 0-TD of 8 3/4" hole or first

succeeding bit change.

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:

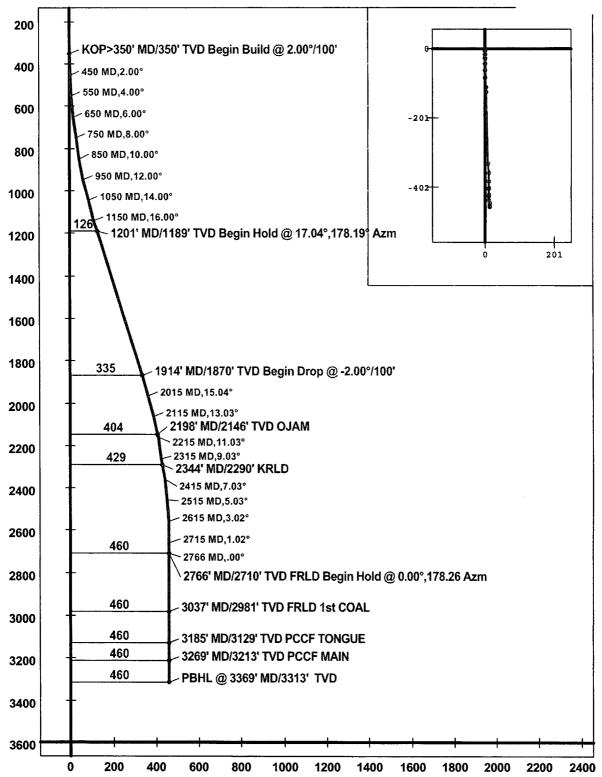
20 days

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 409A Location: Rio Arriba County

State/Country: NM





# Well Control Equipment 2,000 psi Configuration

