FORM APPROVED Form 3160-3 OMB No. 1004-0137 (April 2004) Expires March 31, 2007 UNITED STATES 7005 JUN 23 Lease Serial No. DEPARTMENT OF THE INTERIOR SF 079043 BUREAU OF LAND MANAGEMENT RECEIVED 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL 7. If Unit or CA Agreement, Name and No. DRILL la. Type of work: REENTER Northeast Blanco Unit 8. Lease Name and Well No. Oil Well Gas Well Other Multiple Zone Ib. Type of Well: Single Zone NEBU 454A Name of Operator Devon Energy Production Company, L.P. 3a. Address PO Box 6459 3b. Phone No. (include area códe). (10) Field and Pool, or Exploratory Basin Fruitland Coal Farmington, NM 87419 505-632-0244 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requ SW SE, Unit O, 905' FSL & 2,145' FEL At surface 💋 Sec. 33, T31N, R7W At proposed prod. zone SE SE, Unit P, 1,000' FSL & 1,000' FEL 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office San Juan NM Approximately 16.8 miles 15. Distance from proposed 17. Spacing Unit dedicated to this well 16. No. of acres in lease 905 location to nearest property or lease line, ft. 211.62 320 Acres (Also to nearest drig. unit line, if any) 20. BLM/BIA Bond No. on file 18. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed, applied for, on this lease, ft. 3,3201 Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration GR 6,319' 08/20/2005 Unknown 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless'covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer. 25. Signature Name (Printed/Typed) Melisa Zimmerman Title Senior Operations Technician Name (Printed/Typed) Approved by (Signature Title 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. 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) HOLD C164 FOR Directional Survey

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".

OPERATOR

District I
PO Box {980, Hobb\$ NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aziec, 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 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 Number	¹ Pool Code	³ Pool Name	Pool Name	
	76629	Basin Fruitland Coal	•	
' Property Code	\$	Property Name	" Well Number	
19641	NEBU		# 454A	
OGRID No.	1	Operator Name	9 Elevation	
4137	Devon Energy Product	6319		

¹⁰ Surface Location

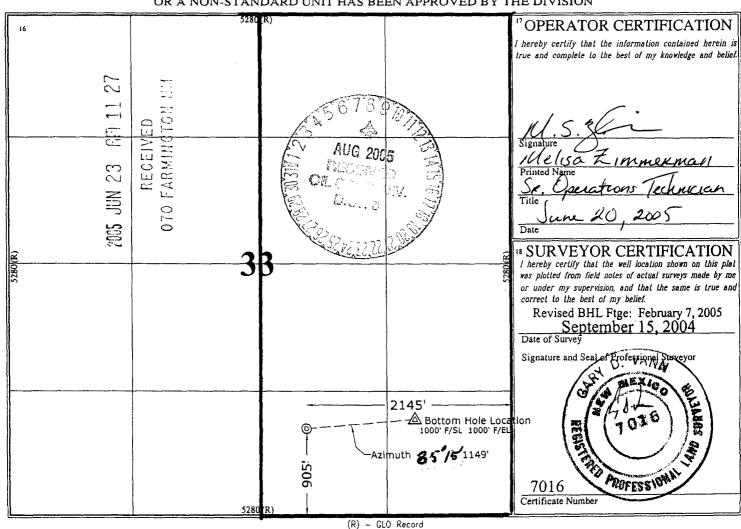
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	33	31 N	7 W		905	SOUTH	2145	EAST	SAN JUAN

"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
P	33	31 N	7 W		1000	SOUTH	1000	EAST	SAN JUAN
12 Dedicated Acres	¹³ Join	or Infill 14	Consolidatio	n Code 15	Order No.				
320									

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

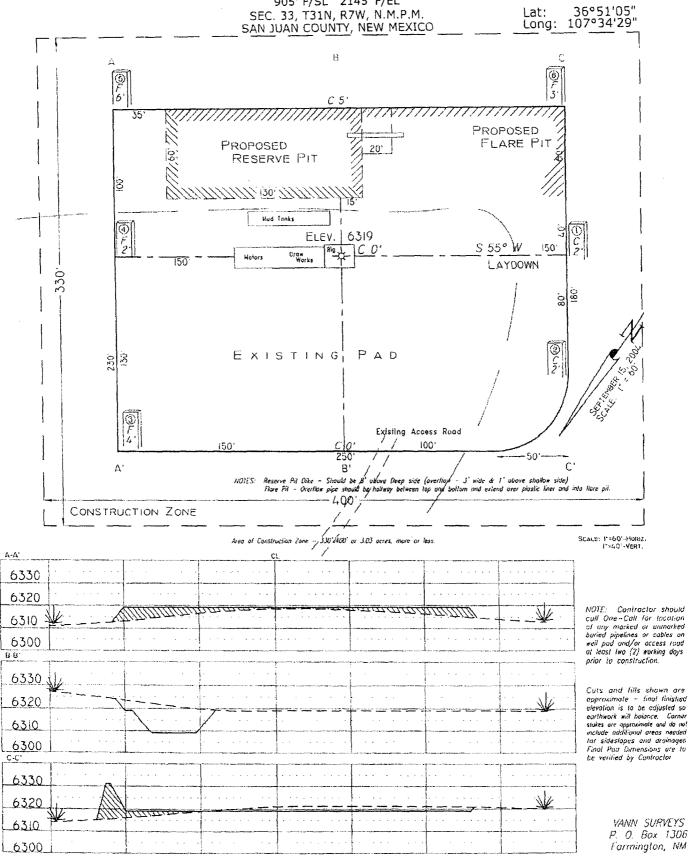
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Submit 3 Copies To Appropriate District	State of N	Vew Mex	cico		Form C-103
Office District I	Energy, Minerals a	ind Natur	al Resources	<u></u>	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240	.			WELL API NO.	ļ
District II	OIL CONSERV	ATION	DIVISION		
1301 W. Grand Ave., Artesia, NM 88210	1220 South			5. Indicate Type	
District III 1000 Rio Brazos Rd., Aztec, NM 87410				STATE	FEE
District IV	Santa Fe	, NM 87:	505	6. State Oil & Ga	as Lease No.
1220 S. St. Francis Dr., Santa Fe, NM				SF 079043	
87505	TO AND DEDORTE ON	LWITLE		7 Logge Name o	r Unit Agreement Name
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOS	ES AND REPORTS ON		IC DACK TO A	1. Lease Name o	1 Offit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICA				NORTHEAST	OLANICO UNIT
PROPOSALS.)	THOM FOR FEIGHT (FORM			NORTHEAST E	BLANCO UNII
1. Type of Well:				8. Well Number	
Oil Well 🔲 Gas Well 🛛	Other			454A	
2. Name of Operator				9. OGRID Numl	per
	rgy Production Compa	nv. L.P.		6137	
3. Address of Operator	igj i roddetion compa	11, 12, 12, 1		10. Pool name of	r Wildcat
PO Box 6459, Navajo Dam, NM 8	R7419			Basin Fruitland C	Į.
	77417			Duoin I tuttunia (
4. Well Location					,
	2051	a 1		5) 6 (6	
Unit LetterO::	905'feet from the	_South	$\underline{\hspace{0.5cm}}$ line and $\underline{\hspace{0.5cm}}$ 2,14	5'teet from t	heEastline
Section 33 Townsh		7W	NMPM	County - S	AN JUAN
	11. Elevation (Show wh	ether DR,	RKB, RT, GR, etc.		
	GR 6,319'		_		
Pit or Below-grade Tank Application (For	pit or below-grade tank closu	res, a form	C-144 must be attache	ed)	
Pit Location: UL_O_Sect_33_Twp_31	N Rng 7W Pit type D	rilling Dep	oth to Groundwater >	·100' Distance from ne	earest fresh water well >1000'_
Distance from nearest surface water_>10			seciIwi)Kiig;	
feet from theline and	feet from the	_line			
NOTICE OF INTERPORARILY ABANDON			SUE REMEDIAL WOF	SEQUENT RE	
PULL OR ALTER CASING	MULTIPLE COMPLETION		CASING TEST A CEMENT JOB	ND 🗆	
OTHER: CONSTRUCT DRILLING	PIT	\boxtimes	OTHER:		
				1	4 - 1 - 1 - 2 - 4 - 4 - 1 - 4
 13. Describe proposed or complor of starting any proposed work or recompletion. 14. Devon Energy will be a NIMOCED was at the ALMOCED was at the starting any proposed work. 	constructing a lined	or Multipl I drilling	g pit. The close	ttach wellbore diag	ram of proposed completion vill be in accordance
with the NMOCD regu	mations with the cu	tting of t	tne liner apply	ing to the BLM	rules.
			·		
		1			
I hereby certify that the information a grade tank has been/will be constructed or					
	closed according to NMOCD	guidelines 🛭		or an (attached) alter	
1115 16/	closed according to NMOCD	guidelines 🛭	, a general permit [or an (attached) alter	native OCD-approved plan .
grade tank has been/will be constructed or c	rman E-mail addres	guidelines ∑ TITLE — ss: Melisa	Sr. Operations Te	or an (attached) alter chnician n.com Telephon	DATE 6-30-05

PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P. Nebu #454A

905' F/SL 2145' F/EL SEC. 33, T31N, R7W, N.M.P.M.



NEBU 454A Unit O 33-31N-7W San Juan Co., NM

DRILLING PLAN

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

Formation	TVD (ft)	TMD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2196	2488	Aquifer
Kirtland	2294	2596	
Fruitland	2731	3230	Gas
Fruitland 1st Coal	2916	3415	
Pictured Cliffs Tongue	3148	3462	
Pictured Cliffs	3220	3534	Gas
PTD	3320	3634	

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
0-2731	0-3230	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.

^{*} 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	Туре	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285	0-285	Spud	8.4-9.0	29-70	8.0	NC	FW gel,
285-2731	285-3230	LSND	8.4-9.0	29-70	8.0	10-12	LCM as needed
2731 - TD	3230 - 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.

^{**} 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

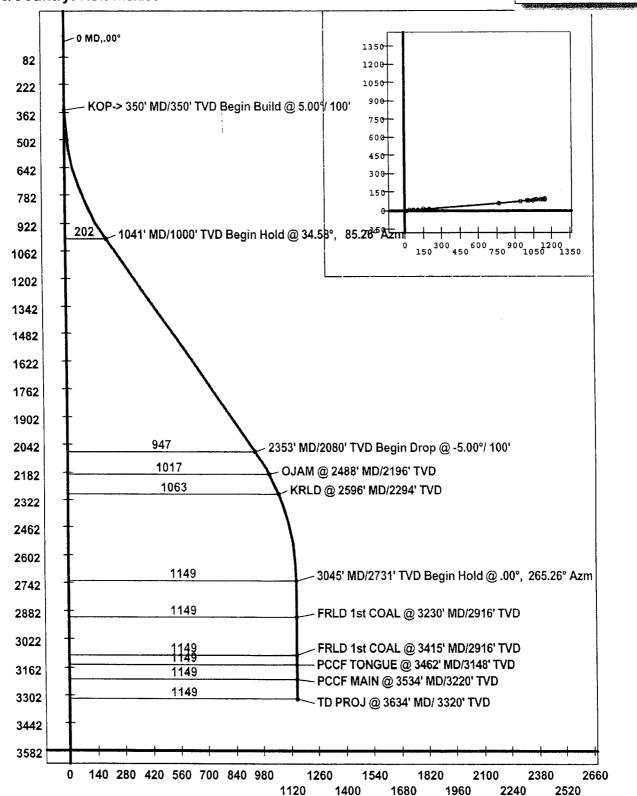
Duration:

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 454A Location: San Juan County State/Country: New Mexico





Well Control Equipment 2,000 psi Configuration

