RCVD UCT30'06 OIL CONS. DIV. DIST. 3

Form 3160 - 3

FORM APPROVED

(April 2004)				OMB No. 100- Expires March	4-0137 31, 2007	
UNITED STATES	NTEDI	OP		5. Lease Serial No.		
DEPARTMENT OF THE II BUREAU OF LAND MANA	AGEMI	SINDEP 13 AM	11 0	<u> </u>		
APPLICATION FOR PERMIT TO D			· s	6. If Indian, Allotee or T	ribe Name	
		RECEIVE:) ^ 11 11 1	f 7 If II-it on CA Agreeme	nt Nome and No	_
1a. Type of work: ✓ DRILL REENTE	R C)70 FARMINGT	UN NO	7 If Unit or CA Agreement, Name and No. Northeast Blanco Unit		
	_	¬		8. Lease Name and Well	No.	_
1b. Type of Well: Oil Well Gas Well Other	L	Single ZoneMultip	le Zone	NEBU 4M		_
2. Name of Operator Devon Energy Production Company, L.1	P.			9. API Well No. 30-039	7-3007	2-
3a. Address PO Box 6459	3b. Phon	e No. (include area code)		10. Field and Pool, or Explo	oratory La Ja	- Vil
Farmington, NM 87419		Blanco Mesaverde	/S-bes-Pines PC	_		
4. Location of Well (Report location clearly and in accordance with any		uirements.*)		11. Sec., T. R. M. or Blk.ar	nd Survey or Area	
At surface 1,800' FNL & 2,610' FWL, Unit F, S At proposed prod. zone 1,940' FNL & 1,940 FWL, Unit F, Sl				Sec. 21, T30N, R7	w	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	_
Approximately 29.3 miles				Rio Arriba	NM	_
15. Distance from proposed* location to nearest	Distance from proposed* 16. No. of acres in lease 17. Spa					
property or lease line, ft. (Also to nearest drig. unit line, if any) 1,800'	2236.	44 Acres	320 A	Acres W/L		
18. Distance from proposed location*	19. Pro	posed Depth	20. BLM/	MBIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	5,955	5' TMD				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Apr	proximate date work will star	t*	23. Estimated duration		_
GR 6,287'		11/01/2006		Unknown		
	24. A	Attachments				
The following, completed in accordance with the requirements of Onshore	e Oil and	Gas Order No.1, shall be at	ttached to th	is form:		
1. Well plat certified by a registered surveyor.			he operatio	ons unless covered by an exis	sting bond on file (so	ee
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I 	i ande th	Item 20 above). 5. Operator certific	ation			
SUPO shall be filed with the appropriate Forest Service Office).	-ands, ui	•	specific infe	formation and/or plans as mag	y be required by the	
25. Signature	N	lame (Printed/Typed)		Dat		
Title M. D. T.		Melisa Zimmerman	l 	9	9-11-06	_
Title Senior Operations Technician						
Approved by (Signature)	N	Name (Printed/Typed)		Da	1_ 1	Ī_
Title Title		Office			10/52	
Athy AFM Myner	206					
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or	equitable title to those righ	ts in the sub	oject lease which would entitl	e the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	ime for a to any ma	any person knowingly and vatter within its jurisdiction.	willfully to n	nake to any department or ag	gency of the United	=

*(Instructions on page 2)

HOLD CTOA FOR divectional Survey to TA

OPERATIONS AUTHORIZED ARE

BH Survey to TA DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

District 1 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
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

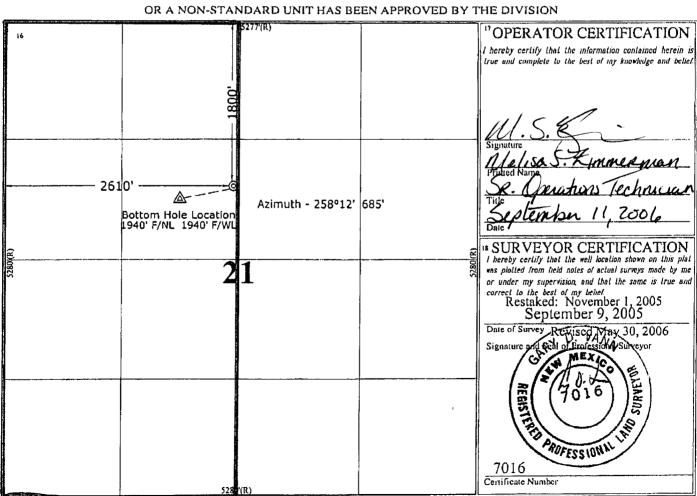
API Numbe	•	1 Pool Cride 96199	21 41 1	Prol Name Ly Java ClA	75
30-039-300	0'1 0	72319/	Blanco Mesaverde	/Situation 15 /1chured	μ
* Property Code		1 1	roperty Name	" Well Number	
19641	NI	EBU		# 4M	
7 OGRID No		" (Operator Name	Y Elevation	
4137	De	evon Energy Producti	on Company, L.P.	6287	

Surface Location

UL or Lot No.	Section	Township	Range	Loi Ido	Feet from the	North/South line	Feet from the	East/West line	County
\mathbf{F}	21	30 N	7 W		1800	NORTH	2610	WEST	Rio Arriba
			" Bott	om Hole	Location If	Different Fron	n Surface		
⁷ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
${f F}$	21	30 N	7 W		1940	NORTH	1940	WEST	Rio Arriba
¹ Dedicated Acre	s 13 Join	t or Infill	Consolidatio	n Code 15	Order No.			· · · · · · · · · · · · · · · · · · ·	1
320									

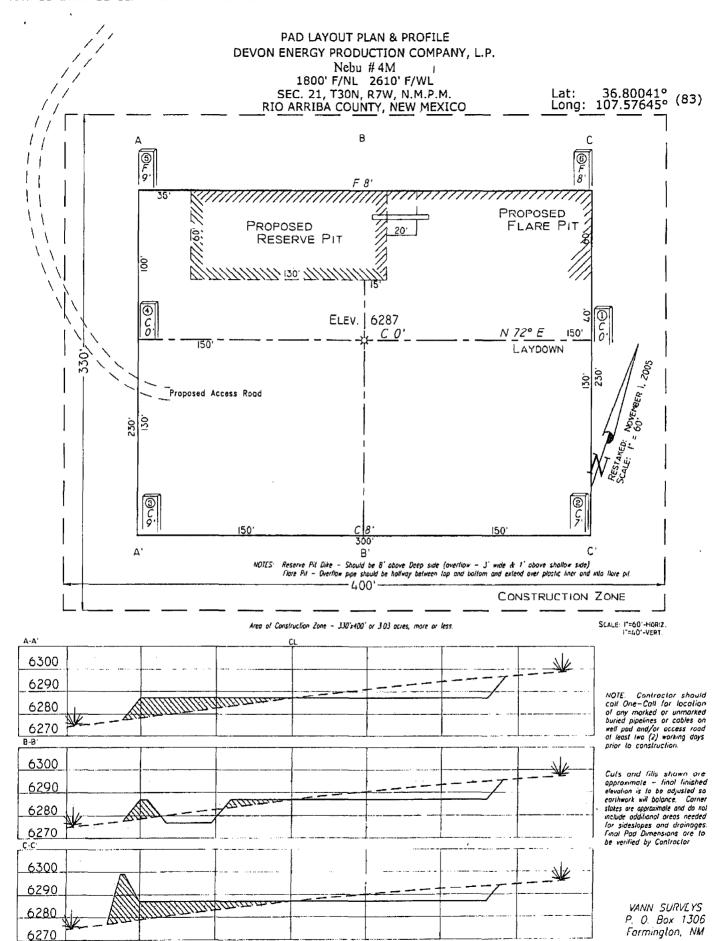
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

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



(R) - GLO Record

Submit 3 Copies To Appropriate District State of New M	Texico Form C-103
Office District I Energy, Minerals and Nat	tural Resources March 4, 2004
1625 N. French Dr., Hobbs, NM 88240	WELL API NO.
District II 1301 W. Grand Ave. Artesia, NM 88210 OIL CONSERVATIO	30-039-30072
1501 W. Gland Ave., Altesia, INVI 60210	1.5 Indicate Type of Lease
District III 1220 South St. Fra	ancis Dr. STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV Santa Fe, NM 8	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM	SF 079060
87505	51 0/7000
SUNDRY NOTICES AND REPORTS ON WELL	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR P	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101)	FOR SUCH NORTHEAST BLANCO UNIT
PROPOSALS.)	8. Well Number
1. Type of Well:	4M
Oil Well Gas Well Other	1474
2. Name of Operator	9. OGRID Number
Devon Energy Production Company, L.P	1
3. Address of Operator	10. Pool name or Wildcat
	Blanco Mesaverde/S Los Pinos Pictured
PO Box 6459, Navajo Dam, NM 87419	
	Cliffs
4. Well Location	
Unit Letter F : 1,800 feet from the North line	and2,610feet from theWestline
Section 21 Township 30N Range 7W N	MPM County - Rio Arriba
11. Elevation (Show whether D	
GR 6.287'	
Pit or Below-grade Tank Application (For pit or below-grade tank closures, a for	m C-144 must be attached)
Pit Location: UL_F_Sect_21_Twp_30N_Rng_7W_Pit type_Drilling_De	
Distance from nearest surface water_>1000'_ Below-grade Tank Location UL	SectTwpRng;
feet from the line and feet from the line	
feet from theline andfeet from theline	
feet from theline andfeet from theline	
	Notice of Natice Report or Other Date
12. Check Appropriate Box to Indicate	
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
12. Check Appropriate Box to Indicate	
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON DEMPORABILY ABANDON CHANGE PLANS DEMONSED DE	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER:
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Multiple ROTHER COMPLETION.	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT MILE OF Starting any proposed work). SEE RULE 1103. For Multiple or recompletion.	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER:
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14.	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Il pertinent details, and give pertinent dates, including estimated date iple Completions: Attach wellbore diagram of proposed completion
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14.	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER:
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PLUG AND ABANDON MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state allow of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilli	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Il pertinent details, and give pertinent dates, including estimated date iple Completions: Attach wellbore diagram of proposed completion ong pit. The closure of said pit will be in accordance
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14.	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Il pertinent details, and give pertinent dates, including estimated date iple Completions: Attach wellbore diagram of proposed completion ong pit. The closure of said pit will be in accordance
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK □ PLUG AND ABANDON □ TEMPORARILY ABANDON □ CHANGE PLANS □ PULL OR ALTER CASING □ MULTIPLE □ COMPLETION OTHER: CONSTRUCT DRILLING PIT □ 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14. Devon Energy will be constructing a lined drilli with the NMOCD regulations with the cutting of	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Dispersion of proposed completion In pertinent details, and give pertinent dates, including estimated date in the Completions: Attach wellbore diagram of proposed completion on pit. The closure of said pit will be in accordance of the liner applying to the BLM rules.
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON DEPORT	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Dispersion of proposed completion In pertinent details, and give pertinent dates, including estimated date in the Completions: Attach wellbore diagram of proposed completion on pit. The closure of said pit will be in accordance of the liner applying to the BLM rules. best of my knowledge and belief. I further certify that any pit or below-
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK □ PLUG AND ABANDON □ TEMPORARILY ABANDON □ CHANGE PLANS □ PULL OR ALTER CASING □ MULTIPLE □ COMPLETION OTHER: CONSTRUCT DRILLING PIT □ 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14. Devon Energy will be constructing a lined drilli with the NMOCD regulations with the cutting of	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Dispersion of proposed completion In pertinent details, and give pertinent dates, including estimated date in the Completions: Attach wellbore diagram of proposed completion on pit. The closure of said pit will be in accordance of the liner applying to the BLM rules. best of my knowledge and belief. I further certify that any pit or below-
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of I hereby certify that the information above is true and complete to the grade tank has been/will be constructed or closed according to NMOCD guideline	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of I hereby certify that the information above is true and complete to the grade tank has been/will be constructed or closed according to NMOCD guideline	SUBSEQUENT REPORT OF: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB OTHER: Dispersion of proposed completion In pertinent details, and give pertinent dates, including estimated date in the Completions: Attach wellbore diagram of proposed completion on pit. The closure of said pit will be in accordance of the liner applying to the BLM rules. best of my knowledge and belief. I further certify that any pit or below-
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state allow of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of the starting and the constructed or closed according to NMOCD guideline SIGNATURE.	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state all of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of the starting and the constructed or closed according to NMOCD guideline SIGNATURE.	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state allow of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of the starting and the constructed or closed according to NMOCD guideline SIGNATURE.	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state allow of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of the starting and the constructed or closed according to NMOCD guideline SIGNATURE.	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PLUG AND ABANDON DEMPORABILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state at of starting any proposed work). SEE RULE 1103. For Multiple or recompletion. 14. Devon Energy will be constructing a lined drilling with the NMOCD regulations with the cutting of the proposed to the grade tank has been/will be constructed or closed according to NMOCD guideline SIGNATURE TITLE Type or print name Melisa Zimmerman E-mail address: Melical Mocanism Melical Zimmerman E-mail address: Melical Ximmerman E-mail Address:	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state at of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14. Devon Energy will be constructing a lined drilli with the NMOCD regulations with the cutting of the proposed to the grade tank has been/will be constructed or closed according to NMOCD guideline SIGNATURE Type or print name Melisa Zimmerman E-mail address: Mel (This space for State use)	SUBSEQUENT REPORT OF: REMEDIAL WORK
12. Check Appropriate Box to Indicate NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPLETION OTHER: CONSTRUCT DRILLING PIT 13. Describe proposed or completed operations. (Clearly state at of starting any proposed work). SEE RULE 1103. For Mult or recompletion. 14. Devon Energy will be constructing a lined drilli with the NMOCD regulations with the cutting of the proposed to the grade tank has been/will be constructed or closed according to NMOCD guideline SIGNATURE Type or print name Melisa Zimmerman E-mail address: Mel (This space for State use)	SUBSEQUENT REPORT OF: REMEDIAL WORK



NEBU 4M Unit F 21-T30N-R7W Rio Arriba 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	2209	2266	Aquifer
Kirtland	2309	2369	
Fruitland	2719	2795	Gas
Pictured Cliffs	3189	3274	Gas
Lewis	3293	3379	Gas
Intermediate TD	3393	3479	
Huefanito Bentonite	3899	3985	Gas
Chacra \ Otera	4268	4354	Gas
Cliff House	5046	5132	Gas
Menefee	5091	5177	Gas
Point Lookout	5417	5503	Gas
Mancos	5855 ←	³ 5769	Gas
TD	5955 ←	5869	

^{*}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:

TVD	TMD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285'	0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3393	0-3479	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 3400' (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 *

* 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:

4-1/2" Production casing cemented in an 6-1/4" hole

11.6# J-55 LT&C 8 Rnd

Float collar Joint Float Shoe

Cement with 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.

Cement designed to circulate to surface.

Pending hole conditions, cement baskets may be installed above TD

* Minor variations possible due to existing conditions

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

If hole conditions dictate an alternate cement design will be used.

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

Tail: 75 Sx50/50/Std/ 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

4. DRILLING FLUIDS PROGRAM:

TVD Interval	TMD Interval	Туре	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'-3,393'	285'-3,479'	Air				NC	
3,393' - TD	3,479' - 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 from

Survey:

Deviation surveys will be taken every 500' of the 8 ¾" hole, or first succeeding bit change. The hole will be air drilled from intermediate TD – well TD. The equipment used in this type of operation will not allow for single shot suveys 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.

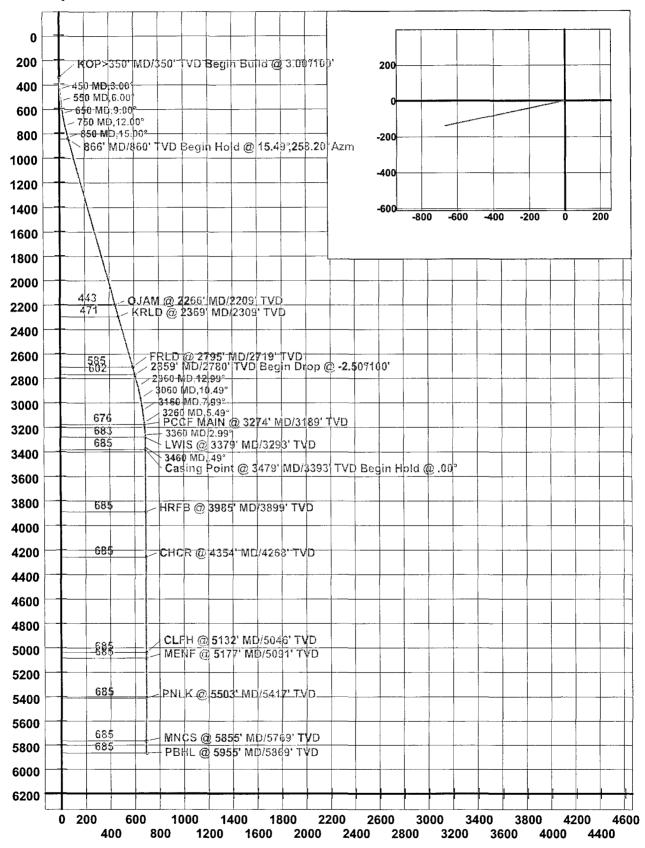
6. ABNORMAL CONDITIONS:

The Fruitland Coal will be encountered within the 8 ¾" 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:

Company: Devon Energy Lease/Well: NEBU # 4 M Location: Rio Arriba County State/Country: New Mexico





Well Control Equipment 2,000 psi Configuration

