•	M. Oi	Cons. D	V-Di	st. 2			
Form 3160-3 (April 2004) UNITED STATES	Artes	V. Grand sia, NM 8	Aven	LIO FORM OMB I Expires	APPROVEI No. 1004-0137 March 31, 20	,	
DEPARTMENT OF THE I BUREAU OF LAND MAN	AGEMENT	REC	EIVED	5. Lease Serial No. NM-NM0405			
APPLICATION FOR PERMIT TO	DRILL OF	REENTERAUG	2 9 2005	6. Il Indian, Allote			_
la. Type of work: DRILL REENTE	ER	QÇÜng	TEO	7 If Unit or CA Ag	reement, Na	me and No.	_
Ib. Type of Well: Oil Well Gas Well Other	Oil Well Gas Well Other Single Zone Multiple Zone			8. Lease Name and Todd 22A Fe		32119	2
2. Name of Operator <u>4137</u> Devon Energy Production Company, L	-	11-POTASH		9. API Well No.			<u> </u>
3a. Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		. (include area code) 2-7802		10. Field and Pool, or Ingle Well (D		у	
4. Location of Well (Report location clearly and in accordance with an	y State requiren	nents.*)		11. Sec., T. R. M. or	Blk. and Sur	vey or Area	
At surface 600 FAL & 000 FEL At proposed prod. zone 660' FNL & 660' FEL	At surface 660' FNL & 660' FEL Sec 22-T23S R31E Sec 22-T23S R31E						
14. Distance in miles and direction from nearest town or post office* Approximately 35 miles WNW from Jal, NM	•		•••••	12. County or Parish Eddy County		13. State NM	
15. Distance from proposed* location to nearest	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this	well		
property or lease line, ft. (Also to nearest drig. unit line, if any)	1240		40				
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose 8800'	d Depth	20. BLM/	BIA Bond No. on file			-
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3449' GL	22. Approxi	mate date work will sta 08/15/2005	rt*	23. Estimated duration 45 days			
	24. Attac			SBAD CONTROL	LED WA	ATER BAS	IN
 The following, completed in accordance with the requirements of Onshor Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 		 Bond to cover the lemma 20 above). Operator certified 	he o <mark>per</mark> atio cation	is form: ns unless covered by a ormation and/or plans a	C	,	e
25. Signature	Nama	(Printed/Typed)		ormation and/or prairs a	Date	quirea by the	=
Title Title		Stephanie A. Ysasa	ga			0/2005	_
Senior Engineeing Technician Approved by (Signature) /S/ Linda/S. C. Rundell							_
Approved by (Signafure) /S/ L1n/da/S. C. Rundell	Name	(Printed/Typed) /s/ Line	la S. C	C. Rundell	DateAU	G 1821	005
Title STATE DIRECTOR	Office	NM	STAT	E OFFICE			-
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equi			jectlease which would FOR 1 YEA		pplicant 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 any po o any matter w	erson knowingly and w vithin its jurisdiction.	villfully to n	nake to any department	or agency of	of the United	2
*(Instructions on page 2) 5- >9	H ··			<u> </u>			=

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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Witness Surface & Intermediate Casing

Additional Operator Remarks:

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Devon Energy Production Company, LP proposes to drill a Delaware well to 8800' for commercial quantities of oil and gas. If the well is deemed noncommercial, the wellbore will be plugged and abandoned per Federal regulations. Devon Energy Production Co., LP plans to drill the well per the attached Drilling and Surface Use Plan.

Directions: From the Jct. of S.H. 128 & Co. Rd. 798, 34.00 miles west of Jal, go north 2.1 miles on Co. Rd. 798 to the southeast corner of Section 23.

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State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec. NM 87410

0X 2088, SANTA FE, N.M. 87504-208 API Number	Pool Code	WELL LOCATION AND ACREAGE DEDICATION PLAT				
	33745	Pool Name				
Deve out a final		Ingle Wells (Delaware)				
Property Code	-	Property Name TODD 22A				
OGRID No. 6137	DEVON ENERGY PRO	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.				

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line				
		07 0	.			North/South line	Feet from the	East/West line	County	1
A	22	23-5	131-E		660'	NORTH	660'	FAST	EDDY	
		1					000	LASI		

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
								-	
Dedicated Acres	Joint o	r Infill C	onsolidation	Code Or	der No.				
40				ĺ					
									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



LOCATION VERIFICATION MAP



OPERATOR DEVON ENERGY PROD. CO. L.P. LEASE_ TODD 22A

U.S.G.S. TOPOGRAPHIC MAP LOS MEDANOS, N.M.

HOBBS, NEW MEXICO (505) 393-3117

DRILLING PROGRAM

Attached to Form 3160-3 Devon Energy Corporation (Nevada) TODD "22A" FEDERAL #1 660' FNL & 660' FEL Section 22-T23S-R31E, Unit A Eddy County, New Mexico

1. <u>Geologic Name of Surface Formation</u>

Permian

2. Estimated Tops of Important Geologic Markers

Rustler	800'
Top of Salt	1100'
Base of Salt	3900'
Bell Canyon	4400'
Cherry Canyon	5600'
Brushy Canyon	7000'
Bone Spring Lime	8300'
Total Depth	8800'

3. Estimated Depths of Possible Fresh Water-, Oil-, or Gas-Bearing Formations

Upper Permian Sands	above 800'	fresh water
Delaware (Bell Canyon)	4400'	oil
Delaware (Cherry Canyon)	6000'	oil
Delaware (Brushy Canyon)	8000'	oil

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 850' and circulating cement back to surface. The Potash and Salt intervals will be protected by setting 8 5/8" casing at 4350' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 8 5/8" casing.

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TODD "22A" FEDERAL #1 Drilling Program Page 2

4. Casing Program

Hole Size	Interval	Casing OD	Weight	Grade	Туре
30"	0-40'	20"	-	Conductor	0.30" wall
17 1/2"	0-850' WITT	NESS 13 3/8"	48#	H-40	ST&C, new R-3
11"	0-4350' WI	TNES S 5/8 "	32#	J-55	ST&C, new R-3
7 7/8"	0'-TD (8800	'±) 5 1/2"	15.5# & 17#	J-55	LT&C, new R-3

Cementing Program

20" Conductor Casing	Cement with Ready-mix to surface.
13 3/8" Surface Casing	Cement to surface using 500 sx Poz (35% Poz, 65% Class C, 6% gel) with 2% CaCl ₂ and 1/4 lb/sx Cellophane flakes + 200 sx Class C with 2% CaCl ₂ and 1/4 lb/sx Cellophane flakes.
8 5/8" Intermediate Casing	Cement to surface using 1600 sx Poz (35% Poz, 65% Class C, 6% gel, 15% salt) with 1/4 lb/sx Cellophane flakes + 200 sx Class C with 2% CaCl ₂ , 1/4 lb/sx Cellophane flakes
5 1/2" Production Casing	Cement 1st stage with 525 sx Silica Lite (Class H) with 3% salt, 0.6% FL additive, 1/4 lb/sx Cellophane flakes
with DV tool at ±5500'	Cement 2nd stage with 225 sx Poz (35% Poz, 65% Class H, 6% gel) with 1/4 lb/sx Cellophane flakes + 400 sx Class H with 4% gel, 5% salt, 1/4 lb/sx Cellophane flakes.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach $450'\pm$ above the 8 5/8" casing seat at 4350'.

5. <u>Minimum Specifications for Pressure Control</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (2000 psi WP) preventer and a bag-type (Hydril) preventer (2000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOP's will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested to 1200 psi

TODD "22A" FEDERAL #1 Drilling Program Page 3

before drilling out the 13 3/8" casing shoe (70% of 48# H-40 casing). Prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydril will be function tested as per BLM drilling Operations Order #2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

6. <u>Types and Characteristics of the Proposed Mud System</u>

The well will be drilled to total depth using brine, cut brine and polymer mud systems. Depths of systems are as follows.

		Weight	Viscosity	Water Loss
Depth	Туре	(ppg)	(1/sec)	(cc/30 mins)
0-850'	Fresh water	8.8	34-36	No control
850-4350'	Brine water	10.0	28	No control
4350'-TD	Fresh water polymer	8.8	32-36	10-20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- C. Hydrogen Sulfide detection equipment (Compliance Package) will be in operation when drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented.

SURFACE USE AND OPERATING PLAN

Attachment to Form 3160-3 Devon Energy Corporation (Nevada) TODD "22A" FEDERAL #1 660' FNL & 660' FEL Section 22-T23S-R31E, Unit A Eddy County, New Mexico

1. Existing Roads

- A. The well site and elevation plat for the proposed TODD "22A" FEDERAL #1 are reflected on Exhibit #2. This well was staked by Topographic Land Surveyors of Midland, Texas.
- B. All roads into the location are depicted in Exhibit #3. New construction from the County road will be used to access the location. New construction will conform to the specifications outlined in item 2 below.
- C. Directions to location: Travel west-northwest from Jal, NM approximately 35 miles on State Highway #128 to County Road #798, just into Eddy County from Lea County. Turn north (right) on County Road #798 and travel approximately 3.0 miles. Then, turn left (west) onto existing lease road. Go approximately 1.10 miles to proposed TODD "22A" FEDERAL #1 location.

2. Proposed Access Road

Access to this location will require the construction of approximately 3960' of new access road from the County road. All new road construction would adhere to the following specifications:

- A. The maximum width of the road will be fifteen (15) feet.
- B. It will be crowned and made of 6 inches of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- C. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location.
- D. The average grade will be approximately 1%.

TODD "22A" FEDERAL #1 Surface Use and Operating Plan Page 6

13. Lessee's and Operator's Representative

The Devon Energy Corporation (Nevada) representatives responsible for ensuring compliance of the surface use plan are:

Walter Frank	Daryl Lowder
District Engineer	Superintendent
DEVON ENERGY CORPORATION 20 North Broadway, Suite 1500 Oklahoma City, OK 73102	DEVON ENERGY CORPORATION Post Office Box 250 Artesia, NM 88211-0250
(405) 552-4595 (office)	(505) 748-3371 (office)

(405) 552-4595 (office) (405) 364-3504 (home) (505) 748-3371 (office) (505) 677-2103 (home)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Devon Energy Corporation (Nevada) and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Signed:

Frank after M

Date:

Walter M. Frank District Engineer

3,000 psi Working Pressure

EXHIBIT# 1

3 MWP

No.	liem		Min. I.D.	Min. Nominal
ſ	Flowline	1		
2	Fill up line		2*	
3	Orilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams			
6 a	Drilling speel with 2" min. 3" min choke line autlets			
65	2° min. kill line and 3° mi outlets in ram. (Alternate			
7	Valve	Gale 🛛 Plug 🔾	3-1/8*	
8	Gate valve-power opera	ted	3-1/8"	
9	Line to choke manifold			3"
10	Valves	Gate C Plug C	2-1/16"	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gate 🛛 Plug 🗆	1-13/16*	
14	Pressure gauge with nee	die valve		
15	Kill line to rig mud pump			2"





OPTIONAL				
16 Flanged valve	1-13/16"			

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- 2.Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 8. Type RX ring gaskats in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves.
- 2.Wear bushing, if required.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Dritting Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

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- 7.Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10. Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine lill-up operations.

MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



			MINI	MUM REQU	REMENT	5				
		3.000 MWP			5.000 MWP			10,000 MWP		
No.		1.0.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3.	3,000		3-	5,000		3.	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
_	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate C Plug C(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
4	Valve Gate C Plug C(2)	1-13/16*		3,000	1-13/16*		5,000	1-13/16*		10,000
4a	Valves(1)	2-1/16"		3.000	2-1/16*		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate C Plug (2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
7	Adjustable Choke(3)	2*		3,000	2*		5.000	2-	1	10,000
8	Adjustable Choke	1*		3,000	1*		5,000	2*		10,000
9	Line		3-	3,000		3-	5,000		3*	10,000
10	Line		2"	3,000		2*	5,000		3.	10,000
11	Valves Gate C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
12	Lines		3*	1,000		3.	1,000	1	3-	2,000
13	Lines		3.	1,000		3.	1,000	·	3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000	·		10.000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4*	1,000		4*	1,000	1	4*	2,000
17	Valves Gate C Plug C(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8"		10,000

(1) Only one required in Class 3M.

(2) Gele volves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using buil plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well,

Exhibit #1A NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Corporation (Nevada) TODD "22A" FEDERAL #1 660' FNL & 660' FEL Section 22-T23S-R31E, Unit A Eddy County, New Mexico

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

DEVON ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

A. Hydrogen Sulfide Training

All rig crews and company personnel will receive training from a qualified instructor in the following areas prior to penetrating any hydrogen sulfide bearing formations during drilling operations:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of the H2S safety equipment and of personal protective equipment to be utilized at the location such as H2S detection monitors, alarms and warning systems, and breathing equipment. Briefing areas and evacuation procedures will also be discussed and established.
- 3. Proper rescue techniques and procedures will be discussed and established.

In addition to the above, supervisory personnel will be trained in the prevention of oil and gas well blowouts in accordance with Minerals Management Service Standards Subpart - 0 - 250 - 212.

Prior to penetrating any known H2S bearing formation, H2S training will be required at the rig sight for all rig crews and company personnel that have not previously received such training. This instruction will be provided by a qualified instructor with each individual being required to pass a 20 question test regarding H2S safety procedures. All contract personnel employed on an unscheduled basis will be required to have received appropriate H2S training.

This Hydrogen Sulfide Drilling And Operations Plan shall be available at the wellsite during drilling operations.

B. H2S Safety Equipment And Systems

All H2S safety equipment and systems will be installed, tested, and operational when drilling operations reach a depth approximately 500' above any known or probable H2S bearing formation. The safety systems to be utilized during drilling operations are as follows:

- 1. Well Control Equipment
 - (a) Double ram BOP with a properly sized closing unit and pipe rams to accommodate all pipe sizes in use.
 - (b) A choke manifold with a minimum of one remote choke.
- 2. H2S Detection And Monitoring Equipment
 - (a) Three (3) H2S detection monitors will be placed in service at the location. One monitor will be placed near the bell nipple on the rig floor; one will be placed at the rig substructure; and, one will be at the working mud pits or shale shaker. This monitoring system will have warning lights and audible alarms that will alert personnel when H2S levels reach 10 ppm.
 - (b) One (1) Sensidyne Pump with the appropriate detection tubes will also be available to perform spot checks for H2S concentrations in any remote or isolated areas.
- 3. Protective Equipment For Essential Personnel

Protective equipment will consist of the following:

- (a) Four (4) five minute escape packs located at strategic points around the rig.
- (b) Two (2) thirty minute rescue packs to be located at the designated briefing areas.
- 4. Visual Warning System

Visual warning system will consist of the following:

- (a) Two wind direction indicators.
- (b) One condition / warning sign which will be posted on the road providing direct access to the location. The sign will contain lettering of sufficient size to be readable at a reasonable distance from the immediate location. The sign will inform the public that a hydrogen sulfide gas environment could be encountered at the location.

5. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight and safe drilling practices (for example, keeping the hole filled during trips) will minimize hazards when drilling in H2S bearing formations.

6. Metallurgy

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spools, kill lines, choke manifold and lines and valves shall be suitable for H2S service.

7. Communication

Cellular telephone communication will be available in company vehicles.

C. Diagram of Drilling Location

Attached is a diagram representing a typical location layout as well as the location of H2S monitors, briefing areas and wind direction indicators.

CONDITIONS OF APPROVAL - DRILLING

Well Name & No.	Devon Energy Production Company, LP Todd 22A Federal # 1 660' FNL, 660' FEL, Section 22, T. 23 S., R. 31 E., Eddy County, New Mexico NM-0405444-A

II. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

- A. Well spud
- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

5. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The 13-3/8 inch surface casing shall be set at approximately 850 feet in the top of the Rustler anhydrite and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is to be sufficient to circulate to the surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is to be sufficient to reach approximately 500 feet above the base of the 8-5/8 inch casing shoe.

4. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.