OPERATOR'S COPY

R-111-POTASH

Form 3160 -3 (April 2004)				FORM APPKO OMB No. 1004-0 Expires March 31	/ED 137 , 2007		
UNITED STATES DEPARTMENT OF THE IN	NTERIOR			5. Losse Serial No. NM-0418228-A			
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	AGEMENT	REENTER	-	6. If Indian, Allotee or Tribe Name			
ia. Type of work: DRILL REENTE	R			7 If Unit or CA Agreement,	Name and No.		
lb. Type of Well; Oil Well Gas Well Other	<b>√</b> Sim	gle Zone Multipi	e Zane	8. Lesse Name and Well N Todd 27B Federal 2	<i>)                                    </i>	12	
2. Name of Operator Devon Energy Production Company, LE	61	37		9. API WAI NO.	- 35 504	1	
3a. Address 20 North Broadway Oklahuma City, Oklahuma City 73102-8260	3b. Phone No. 405-228	(include circo codu) -8699		<ol> <li>Field and Pool, or Explor Ingle Well; Delawa</li> </ol>	ro		
4. Location of Well Report location electrly and in accordance with any At surface NWNE 660' FNL & 2140' FEL At proposed prod. zone NWNE 660' FNL & 2140' FEL	y State requireme	nkt.")		11, Sec., T. R. M. or Blk and SEC 27 T23S R31			
14 Distance in miles and direction from nearest cown of post office*  Approximately 30 miles southeast of Carlsbad.	<del>_</del>			12. County or Parish Eddy County	13. State NM		
15. Distance from proposed* location to nearest. property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of ac	res in lease	17. Spacin	g Unit dedicated to this well			
18. Distance from proposed location <sup>6</sup> to nearest well, drilling, completed, applied for, on this lease, fi.	19. Proposed TMD 850		20. BLMA COU	BIA Bond No. on tile			
21. Elevations (Show whether DF, KDB. RT, GL, cm.) 3411° GL	22. Approxim	nate date work will star 03/01/2007	1*	23. Estimated duration 45 days			
	24. Attac						
The following, completed in accordance with the requirements of Onshort.  1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filled with the appropriate Forest Service Office).		4. Bond to cover to liem 20 above). 5. Operator certification.	ne operatio acion apecific inf	ns unless covered by an exist			
25- Signature Lance		(Printed/Typed) Judy A. Barnett		Date	12/04/2006		
Title Regualtory Analyst							
Approved by (Spranne) Schulle.	Name 2)	SPrinsed Typed) rda 5. C	. Ru	rdell Dat	121/07-		
STATE DIRECTOR	Office	ı	IM ST	ATE OFFICE			
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	is legal or equi	table titio to shose rigi	us in the sul	pject leave which would challe			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a sistered any fulse, fielitious or fraudulent statements or representations as	nime for any p	erson knowingly and vithin its jurisdiction.	willfully to s			(EAT	
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\*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

SEE ATTACHED FOR CONDITIONS OF APPROVAL

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

#### **Additional Operator Remarks:**

Devon Energy Production Company, LP proposes to drill a Delaware well to 8,500' 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 To Location:** From the junction of State Hwy 128 and County Rd. 29, go north on County Rd. for approximately 2.3 miles to a lease road; then west winding northwest for approximately 1.0 mile to lease road, then proceed south for approximately 1.3 miles to dry hole marker and proposed lease road.

#### Access Road:

Approximately 1127.2' of access road will be required. Archeological survey's will be requested for the pad and access road.

#### H2S:

No H2S is anticipated to be encountered.

## LPC Timing Stipulation Areas:

The location of this well does not fall in the LPC Timing Stipulation Area per BLM-CFO 2006 LPC Timing Stipulation Areas map.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1801 W. Grand Avenue, Arlesia, NM 88210

1220 S. St. Francis Dr., Santa Fe, NM 87505

DISTRICT IV

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

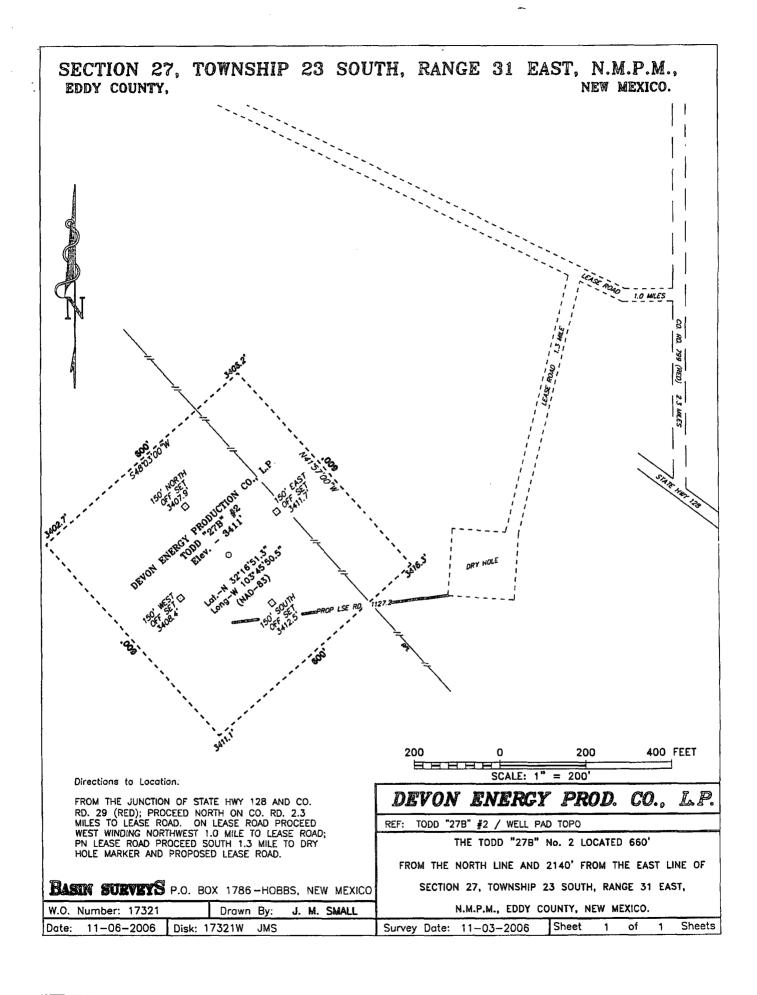
State Lease - 4 Copies Fee Lease - 3 Copies

## DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Fr. Sont Fo New Mey

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

AMENDED REPORT

			WELL LO	CATION	AND ACREA	AGE DEDICATION	ON PLAT		
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OGRID N	0.				Operator Nan			Eleva	tion
6137			DEVO	DEVON ENERGY PRODUCTION COMPANY				341	1'
		<b></b>			Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	27	23 S	31 E		660	NORTH	2140	EAST	EDDY
	<u> </u>	<u> </u>	Bottom	Hole Lo	cation If Diffe	erent From Sur	face	<u> </u>	/ <b></b>
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	<u> </u>		<u> </u>		<u> </u>			ļ	<u> </u>
Dedicated Acre	s Joint o	r Infill   C	onsolidation	Code 0	rder No.				
NO ALLO	DWABLE W	TILL BE A	SSIGNED	TO THIS	COMPLETION U	UNTIL ALL INTER	RESTS HAVE B	EEN CONSOLIDA	ATED
		OR A	NON-STAN	IDARD U	NIT HAS BEEN	APPROVED BY	THE DIVISION		
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ł i				3411.1	3416.3		compulsory poo	ry pooling agreement ling order heretofore	entered by
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## **DRILLING PROGRAM**

## Devon Energy Production Company, LP Todd 27B Federal 2

Surface Location: 660' FNL & 2140' FEL, Unit B, Sec 27 T23S R31E, Eddy, NM Bottom hole Location: 660' FNL & 2140' FEL, Unit B, Sec 27 T23S R31E, Eddy, NM

## 1. Geologic Name of Surface Formation:

a. Permian

## 2. Estimated tops of geological markers:

a.	Rustler	600'
b.	Top of Salt	900'
c.	Base of Salt	4070'
d.	Bell Canyon	4330'
e.	Cherry Canyon	5250'
f.	Brushy Canyon	6625'
g.	Bone Spring Lime	8165'

## 3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

a.	Rustler	Water	600'
b.	Cherry Canyon	Oil	5250'
c.	Brushy Canyon	Oil	6625'

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. Potash and salt 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 ½" casing to total depth and circulating cement above the base of the 8 5/8" casing.

## 4. Casing Program:

<b>Hole Size</b>	<u>Interval</u>	OD Csg	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
30"	0' -40'	20"	NA	NA	Conductor
17 ½"	0' - 850'	13 3/8"	48#	ST&C	H-40
11"	0' - 4350'	8 5/8"	32#	ST&C	J-55
7 7/8"	0'-8800'	5 ½"	15.5# & 17#	LT&C	J.55

## 5. Cement Program:

a.	20	Colluctor	Cement with ready-mix to surface.
<b>b</b> .	13 3/8"	Surface	Cement to surface using 500 sx Poz (35% Poz, 65% Class C, 6% gel) w/ 2% CaCl2, ¼ #/sx celloflk + 200 sx Class C w/ 2% CaCl2, ¼ #/sx celloflk.

c.	8 5/8"	Intermediate	Cement to surface w/ 1600 sx Poz (35% Poz, 65% Class C, 6% gel, 15% salt) w/ ½ #/sx celloflk + 200 sx Class C w/ 2% CaCl2, ½ #/sx celloflk.
d.	5 ½"	Production	Cement 1 <sup>st</sup> stage w/ 525 sx Silica Lite (Class H) w/ 3% salt, 0.6% FL additive, ¼ #/sx celloflk w/ DV tool at ~ 5500'. Cement 2 <sup>nd</sup> stage w/ 225 sx Poz (35% Poz, 65% Class H, 6% gel) w/ ¼ #/sx celloflk + 400 sx Class H w/ 4% gel, 5% salt, ¼ #/sx celloflk.

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' above the 8 5/8" casing seat at 4350'.

## 6. Pressure Control Equipment:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (2000 psi WP) preventor and a bag-type (Hydril) preventor (2000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 ½" drill pipe rams on bottom. The drilling head 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 with the rig pump 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 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.

## 7. Types and Characteristics of the Proposed Mud System

<b>Depth</b>	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0' - 850'	8.8	34-36	NC	Fresh Water
850' – 4350'	10.0	28	NC	Brine Water
4350' – TD	8.8	32-36	10-20	Fresh Water
				Polymer

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

## 8. 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 will be in operation when drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

## 8. Logging, Coring, and Testing Program:

- a. Drill stem tests will be based on geological sample shows.
- b. The open hole electrical logging program will be:

i. Total Depth to Intermediate Casing

Gamma Ray./ Neutron Density Log

ii. Total Depth to Surface

Neutron with Gamma Ray

iii. Rotary sidewalls cores are planned.

iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

#### 9. Potential Hazards:

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2900 psi and Estimated BHT 130°.

## 10. Anticipated Starting Date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 21 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

# Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

## Devon Energy Production Company, LP

## Todd 27B Federal 2

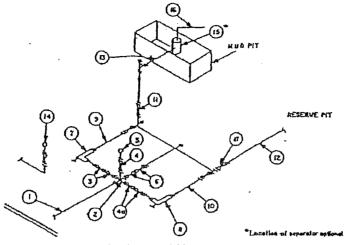
Surface Location: 660' FNL & 2140' FEL, Unit B, Sec 27 T23S R31E, Eddy, NM Bottom hole Location: 660' FNL & 2140' FEL, Unit B, Sec 27 T23S R31E, Eddy, NM

- 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.

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
  - a. Characteristics of H2S
  - b. Physical effects and hazards
  - c. Proper use of safety equipment and life support systems.
  - d. Principle and operation of H2S detectors, warning system and briefing areas
  - e. Evacuation procedures, routes and first aid.
  - f. Proper use of 30-minute pressure demand air pack.
- 2. H2S Detection and Alarm System
  - a. H2S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - a. Windsock at mud pit area should be high enough to be visible
  - b. Windsock at briefing area should be high enough to be visible
  - c. There should be a windsock at entrance to location
- 4. Condition Flags and Signs
  - a. Warning Sign on access road to location
  - b. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well Control Equipment
  - a. See Exhibit "E" & "E-1"
- 6. Communication
  - a. While working under masks chalkboards will be used for communication.
  - b. Hand signals will be used where chalk board is inappropriate
  - c. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drill stem Testing
  - a. Exhausts will be watered
  - b. Flare line will be equipped with an electric igniter or a propane pilot light in case gas reaches the surface.
  - c. If the location is near to a dwelling a closed DST will be performed.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.

If H2S is encountered, mud system will be altered if necessary to maintain control or formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.



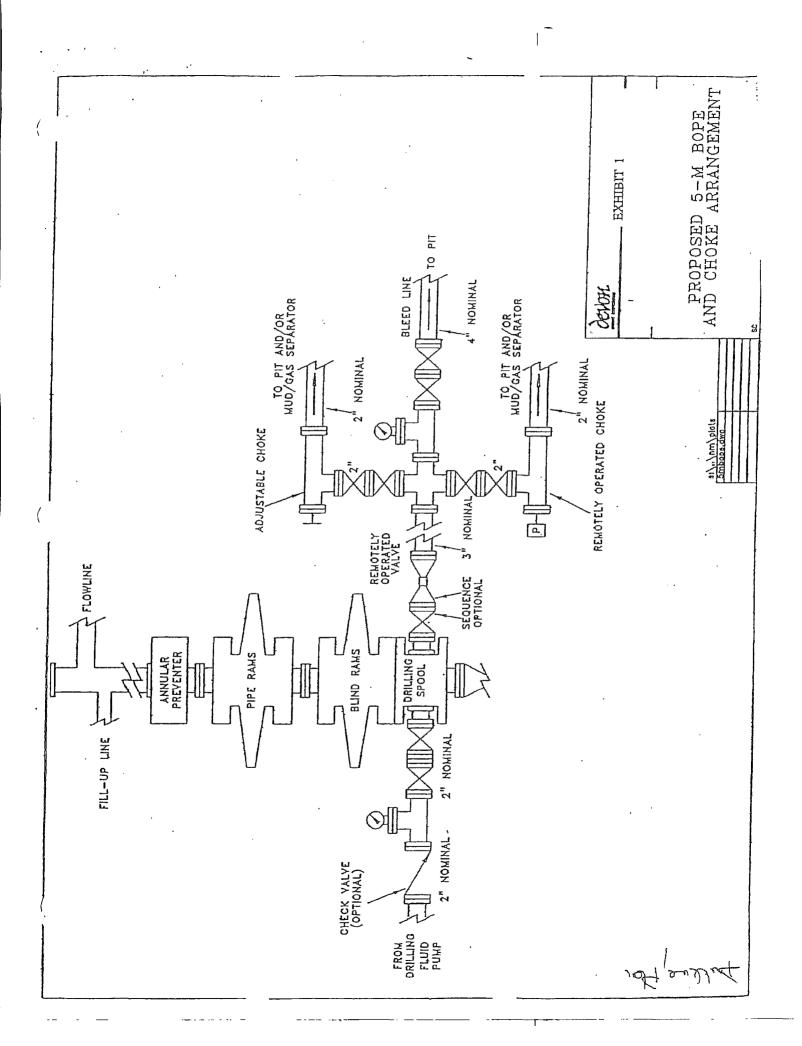
BEYO	MB	SURS	TRUC	TURE

			MIM	MUM AEO	UREWENT	3					
	3,000 MWP \$,000 MWP								10,000 MWP		
No.	J	111	NOMINAL	RATING	LO.	HOMINAL	RATTING	LD.	NOMINAL	PATING	
1	Line from driffing spool		2*	3,800		34	5,000		3"	10,000	
2	Cross3"43"42"			3,000		T	5,000				
	Cross 3"13"x3"x3"				T					000,00	
3	Valves(1) Gale 日 Plup 口图	3-1/8*		3,000	2-1/8"		\$,000	3-1/8"		10,000	
4	Valve Gate [] Plog [](2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000	
42	Valous(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	
5	Valves Gale () Plog ((Z)	3-1/8"		3,000	3-1/8"		5,000	3-1/8-		10,000	
7	Adjustable Choke(3)	20		000,E	2*		5,000	2"		10,000	
\$	Adjustable Chake	1"		3,000	1*		5,000	2"		10,000	
9	Line	-	3~	3,000		3- ;	5,000		5-	10,000	
10	Line		2"	3,000		2-	5,000		3-	10,000	
11	Valves Plug [](2)	3-1/8"		3,600	3-1/8"		5,000	3-1/8"		10,000	
12	Lines *		3,	1,000		3-	1,000		3"	2,033	
13	Lines	1	2.	1.000		3-	1,000		3-	2,000	
14	Remale reading compound standpipe pressure gauge			3,000	-		5,000	,		10,000	
15	Gas Separator		275			2:5			27257		
16	Line	1	4-	1,000		1-	1.000		4"	2,030	
17	Valves Plug □(2)	3-1/0"		3,000	1-1/8"		5,000	3-1/8*		10,000	

- (1) Only and required in Class 3AL
- (2) Gate valves only shall be used for Class 10H.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for dilling.

#### EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, llanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskels shall be API RX or BX. Use only 8X 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.
- 6. 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 bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should yent as far as practical from the well.



#### CONDITIONS OF APPROVAL - DRILLING

Well Name & No.

Todd 27B Federal # 2

Operator's Name:

Devon Energy Prod Co LP 660'FNL, 2140'FEL, SEC27, T23S, R31E, Eddy County, NM

Location:

NM-0418220A

#### I. 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; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

#### A. Spudding

B. Cementing casing: 20 inch, 13.375 inch, 8.625 inch, 5.5 inch

#### C. BOP tests

- 2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the N/A Formation. A copy of the plan shall be posted at the drilling site.
- 3 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.
- 4. 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.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.
- 7. 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 13.375 inch surface casing shall be set ABOVE THE SALT, AT LEAST 25 feet INTO THE RUSTLER ANHYDRITE @ APPROXIMATELY 850 FEET, below usable water 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. Operator will comply with all provisions of Order # R- 12513 of Case # 13580.
- 2. The minimum required fill of cement behind the <u>8.625</u> inch salt protection casing is <u>CIRCULATE</u> <u>CEMENT TO THE SURFACE</u>. This casing string will be set at least 100' below the Salt, but no more than 600' below the salt, in the Basal Anhydrite or the <u>Lamar Limestone</u>.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is cement shall CIRCULATE TO AT LEAST 500 FEET INTO THE 8.625 inch casing string.
- 5. 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 13.375 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) is 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A variance to test the <u>BOP and BOPE</u> to the reduced pressure of <u>1200</u> psi with the rig pumps is approved.
   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.

Engineers can be reached at 505-706-2770 for any variances that might be necessary.

F Wright 1/12/07