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(Instructions on page 2)	AD CONTROLLED MATER RASIN	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c states ony false, fictitious or fraudulent statements or representations as	rime for any person knowingly and to any matter within its jurisdiction.	willfully to ma	ke to any department or agen	icy of the United
	AD CONTROL UD WATER BASIN	(Instructions on page 2)			<u></u>	

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED SEE ATTACHED FOR CONDITIONS OF APPROVAL

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. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Approximately 1745' of new access road will need to be constructed.

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenus, Artesia, NM 88210

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 67410

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

CI AMENDED REPORT

API	Number			Pool Code		Pia	mondiail	Pool Name	·····	
30-025		567	46	910				Delaware c	Southere	51
Property 0 3642				Ţ	OMCAT	rty Nam 8 FED	ERAL	•	Well Nu 1	umber
OGRID N 6137			DEVON	I ENE	-	tor Nam DUCTI	ON COMPANY	LP	Elevat 3624	
		•			Surfac	e Loca	ntion		•	
UL or lot No.	Section	Township	Range	Lot Idr	Feet fro	m the	North/South line	Feet from the	East/West line	County
Р	8	23 S	32 E		95	0	SOUTH	570	EAST	LEA
		I	Bottom	Hole]	Location I	f Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idr	n Feet fro	m the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code	Order No.					
NO ALLO	WABLE W						INTIL ALL INTER		EN CONSOLIDA	ATED
			NON-STAN	DARD	UNIT HAS	BEEN	APPROVED BY	THE DIVISION		
								OPERATO	R CERTIFICAT	TION
	 					 		contained hereit the best of my this organisation interest or unlet location pursuar owner of such a or to a voluniar compulsory pool the division. Signature <u>No Evel1</u> : Printed Name SURVEYO I hereby certify	e PR CERTIFICAT	lete to , and that thug is in the hole
	 			Long -	N32*18'52.1 - W103*41'2 NAD-83)		-3618.7' - 3632.	ectual surveys supervison an correct to th JANU Date Survey Signature & Professioned Certificate No	as plotted from fiel made by me or d that the same is e best of my beke 2007 2007 2007 2007 2007 2007 2007 200	under my true and y.

DRILLING PROGRAM

Devon Energy Production Company, LP Tomcat 8 Federal #1

Surface Location: 950 FSL & 570 FEL, Unit P, Sec 8- T23S R32E, Lea, NM Bottom hole Location: 950 FSL & 570 FEL, Unit P, Sec 8- T23S R32E, Lea, NM

1. Geologic Name of Surface Formation

a. Alluvium

2. Estimated tops of geological markers:

a.	Rustler	1080'
b.	Top of Salt	1440'
c.	Base of Salt	4550'
d.	Bell Canyon	4750'
e.	Cherry Canyon	5633'
f.	Brushy Canyon	7230'
g.	Bone Spring Lime	8655'
h.	Total Depth	8800'

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

a. Upper Permian Sands	0-600'	Fresh Water	
b. Delaware	4750'-TD	Oil/Gas	
No other formations are expected t	o yield oil, gas or fresh	water in measurable volumes	. The
surface fresh water sands will be n	rotected by setting 13 3/	8" casing at 650' and circulat	ing ceme

surface fresh water sands will be protected by setting 13 3/8" casing at 650' and circulating cement back to surface. Salt will be protected by setting 8 5/8" casing at 4620' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 $\frac{1}{2}$ " casing to total depth and circulating cement above the base of the 8 5/8" casing.

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	OD Csg	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
30"	0'-40'	20"		Conductor	
17 ½"	0'-650'	13 3/8"	48#	H40	ST&C
11"	0'-4620'	8 5/8"	32#	J55	LT&C
7 7/8"	0' - 8800'	5 1/2"	15.5# & 17#	J55	LT&C

5. Cement & Setting Depth:

a. 20" Conductor

Cement with ready-mix to surface.

b. 13 3/8" Surface Cement to surface with 540 sx Poz C (35:65) + 6% Bentonite + 2% CaCl₂ ¹/₄# sx Cello Flake followed by 250 sx Class C + 2% CaCl₂ + ¹/₄ #/sx Cello Flake.

c. 8 5/8"	Intermediate	Cement to surface with 1050 sx Poz C (35:65) + 6% Bentonite +
		5% salt + ¼# sx Cello Flake followed by 250 sx Poz C + 5% Salt +
		0.25 lb/sx Cello Flake.
d. 5 ½"	Production	Cement with 370 sx Poz C $(35:65) + 3\%$ Salt + $\frac{1}{4}$ # sx Cello Flake.
		Followed by 600 sx Poz C (60:40) + 1% Salt + $\frac{1}{4}$ # sx Cello Flake.
TT1 1	1	

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach 500' above the 8 5/8'' casing seat @ 4620'.

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 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 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 check each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's 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. Proposed Mud Circulation System

Sec COA 1150	<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	Type System
	0' - 650' //50'	8.8	34 – 36	NC	Fresh Water
	' 650' - 4620'	10.0	28	NC	Brine Water
	4620' - 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 operations after drilling out the 13 3/8" casing shoe until the 8 5/8" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

9. 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 Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper. Compensated Neutron with Gamma Ray
- ii. Total Depth to Surface
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 $\frac{1}{2}$ " production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

10. **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°.

Anticipated Starting Date and Duration of Operations: 11.

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 32 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.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. If H2S is present in this area the following will apply.
- 2. 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.
- 3. 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.
- 4. 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
- 5. 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.
- 6. Well Control Equipment
 - a. See Exhibit "E" & "E-1"
- 7. 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.
- 8. 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.
- 9. 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.

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Production Company, LP Tomcat 8 Federal #1

Surface Location: 950 FSL & 570 FEL, Unit P, Sec 8- T23S R32E, Lea, NM Bottom hole Location: 950 FSL & 570 FEL, Unit P, Sec 8- T23S R32E, Lea, 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.

MINIMUM CHOKE MANIFOLD J.000, 5,000 and 10,000 PSI Working Pressure

EXHIBIT 1 DEVON ENERGY PRODUCTION COMPANY, L.P.



(10)

RESERVE PIT

Location of separator optional

BEYOND SUBSTRUCTURE

			MINI	MUM REOL	IREMENT	s				
			3.000 MWP			5,000 MWP			10,000 MWF	<u></u>
No.		1.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING	I.D.	NOMINAL	BATING
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
Э	Valves(1) Gate D Plug D(2)	3-1/8*		3,000	3-1/8-		5,000	3-1/8-		10,000
4	Gate G Valve Plug D(2)	1-13/16*		3,000	1-13/16"		5,000	1-13/16*		10,000
4a	Valves(1)	2-1/16*		0.000	2-1/16*	1	5,000	3-1/8*	<u> </u>	10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Gate C Valves 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-		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	Gate () Valves Plug ()(2)	3-1/8-		J 000	3-1/8*		5,000	3-1/8*		10,000
12	Lines		3*	1,000		3.	1,000		3.	3 000
13	Lines	1.	3-	1,000		3.	1,000		3-	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000		3	2,000
15	Gas Separator		2"x5"			2'x5'			2'x5'	· · · · · ·
16	Line		4"	1,000		4*	1,000		4'	2,000
17	Valves Gate [] Valves Plug [](2)	3-1/8-		3,000	3-1/8*		5,000	3-1/8*		10,000

(1) Only one required in Class 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydrautic choke required on 5,000 psl and 10,000 psi for dritting.

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.
- 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 vent as far as practical from the well.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psl Working Pressure

Eddy County, New Mwxico

EXHIBIT # 1

CONFIGURATION

3 MWP

STACK REQUIREMENTS

No.	ltem		Min. I.D.	Min. Nomina
1	Flowline	·····		
2	Fill up line	· · · · · · · · · · · · · · · · · · ·		2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual operated rams	hydraulically		
6 a	Drilling spool with 2" mi 3" min choke line outlet	in. kill line and s		
6b	2" min. kill line and 3" r outlets in ram. (Alternati	nin. choke line e to 6a above.)		
7	Valve	Gate 🛛 Plug 🗋	3-1/8*	
8	Gate valve-power oper	ated	3-1/8"	
9	Line to choke manifold		1.	3″
10	Valves	Gate 🗆 Plug 🗆	2-1/16"	<u>_</u>
11	Check valve		2-1/16"	
12	Casing head	· · · · · · · · · · · · · · · · · · ·		,,
13	Valve	Gate □ .Plug □	1-13/16"	<u>-</u>
14	Pressure gauge with nee	dle valve		
15	Kill line to rig mud pump i	manifold		2"

	ANNULAR PREVENTER JUIND RAMS	_]0	
	DRILLING SPOOL		
6	CASING	UPrex 12	14

	OP	TIONAL	
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.
- 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.
- 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.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

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

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling 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 choke. Valves must be full opening and suitable for high pressure mud service.
- 3.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.
- Choke lines must be suitably anchored.

- 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.
- 9.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 fill-up operations.

1625 N. French Dr., Hobbs, NM 88240 Energy N <u>District II</u> Energy N 1301 W. Grand Avenue, Artesia, NM 88210 Oil District III 001 Rio Brazos Road, Aztec, NM 87410 Oil District IV 122	State of New Mexico Ainerals and Natural Resources Conservation Division 20 South St. Francis Dr.	Form C-144 June 1, 2004 For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe
	Santa Fe, NM 87505	office
Pit or Below-G	rade Tank Registration or	Closure
Is pit or below-grade ta Type of action: Registration of a pi	ank covered by a "general plan"? Ye t or below-grade tank 🛛 Closure of a pit or	below-grade tank
Operator: _Devon Energy Production Company, LPTelephi Address: _PO Box 250 Artesia NM 88211 Facility or well name:Tomcat 8 Federal 1API #: County: _LeaLatitude _N Surface Owner: Federal 🛛 State 🗌 Private 🗋 Indian 📄 Pit Type: Drilling 🖾 Production 🗋 Disposal 🗋	U/L or Qtr/Qtr _P	Sec 8T 23SR 32E 103'41'24.1"NAD: 1927
Type: Drining ≤ Troduction ⊆ Disposat ⊆ Workover □ Emergency □ Lined ⊠ Unlined □ Liner type: Synthetic ⊠ Thickness _12_mil Clay □ Pit Volume 20000 bbl	Construction material: Double-walled, with leak detection? Ye	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) $\begin{array}{c} & & & \\ $	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	t (10 points) (0 points)
	Ranking Score (Total Points)	0 Points
If this is a pit closure: (1) Attach a diagram of the facility showing the p your are burying in place) onsite	Yes I f yes, show depth below ground s	a general description of remedial action taken including
I hereby certify that the information above is true and complete to the b has been/will be constructed or closed according to NMOCD guidel	est of my knowledge and belief. I further ce ines □, a general permit ⊠, or an (attach	ertify that the above-described pit or below-grade tank ed) alternative OCD-approved plan .
Date:3/22/07 Printed Name/Title Norvella Adams / Sr. Staff Engineering Technician Your certification and NMOCD approval of this application/closure do otherwise endanger public health or the environment. Nor does it reliev regulations.	Signature s not relieve the operator of liability should t	the contents of the pit or tank contaminate ground water or
Approval: Printed Name/Title <u>CHRIS WILLIAMS / DIST. SU</u>	PV. Signature Kuis III	illians Date: 6/12/07