F-06-15

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Devon Energy Production Company, LP 26.37 30-025-337913 a. Address 20 North Breadway Oktahoma City, Oktahoma City 73102-8260 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Wildcar; Wolfcamp / Location of Well (Report location clearly and in accordance with any State requirements?) 11. Sec. T. R. M. or Bik and Survey or Area Sec 14, T26S R34E At proposed prod. zone Unit 12. County or Parish Location form nearest town or post office" Approximated frag. unit line; if any) 13. State B. Distance from proposed protein to marke town or post office" 16. No. of acres in lease 17. Spacing Unit dedicated to this well south to brazest well, diffling, completed, applied for, on this lease, fit 13. State A. Statace from proposed location* to nearest well, diffling, completed, applied for, on this lease, fit 16. No. of acres in lease 17. Spacing Unit dedicated to this well 320 acres R. Distance from proposed location* to nearest well, diffling, completed, applied for, on this lease, fit 16. No. of acres in lease 17. Spacing Unit dedicated to this form: R. Distance from proposed location* to nearest well, diffling, completed, applied for, on this lease, fit 18. Orgon acres well, well well well 23. Estimated duration 70 days 22. A Not Strate from proposed location is on National Forest System Lands, the Strate Use Plan (if the location is on National Forest System Lands, the Strate Use Plan (if the location is on National Forest System Lands, the submord of t	Sii	ngle Zone Multip				(31 nit 7 _	(38)
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*(Instructions on page 2)

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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Additional Operator Remarks:

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Devon Energy Production Company, LP proposes to drill to approximately 16,600' to test the Wolfcamp for commercial quantities of gas. If deemed non-commercial, the wellbore will be plugged and abandoned as per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Approximately 1022' of new access road will need to be constructed.

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DISTRICT I 1625 N. French Dr., Hobbs, NM 85240 DISTRICT II

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811 South First, Artesia, NM 88210

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37913	Pool Code Wild	Pool Name Cat Wolfcamp	
Property Code	Property Name	We	l Number
34380	RATTLESNAKE FEDERAL UNIT		
OGRID No. 6137	Operator Name Elevation		
6137	DEVON ENERGY PRODUCTION CO., L.P. 3264'		
	Surface Locat	ion	

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
н	14	26-S	34-E		1980	NORTH	660	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot ldn	Peet from the	North/South line	Feet from the	Bast/West line	County
Dedicated Acres 320	Joint of	r Infill (Consolidation (Xode Ori	der No.	I	I	<u>.</u>	
520									

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

				A
				OPERATOR CERTIFICATION
1		1	i /	I hereby certify the the information contained herein is true and complete to the
				best of my knowledge and belief.
X	1			
	/		1980	Signature
4	┝ <i>─────</i> ┤	+	 ┼───┤	Ť
			3264.5' 3271.1'	Norvella Adams
ł	1			Sr. Staff Eng. Tech.
			660'	Title
	K I			February 27 2006
1				Date
			3261.3' 3257.2'	
1	///	1-1-1-	 ×/_7/	SURVEYOR CERTIFICATION
			LAT.32°02'42.7"N LONG.103°26'03.5"W	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
				DECEMBER 18, 2005
				Date Surveyed
			 +	Signature & Seal of
				Professional Surveyor
				Certificate No. Gary L. Jones 7977 Basin Sukvers







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focused on excellence in the oilfield

(505) 392-2206 - Fax Date: basinsurveys.com

PRODUCTION CO., LP DECEMBER 12, 2005

DRILLING PROGRAM

Devon Energy Production Company, LP **RATTLESNAKE FEDERAL UNIT #7** Unit Letter H, 1980 FNL & 660 FEL, Section 14-26S-34E Lea County, New Mexico

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

Alluvium

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2. Estimated Tops of Important Geologic Markers

Rustler	950'
Delaware	5,340'
Bone Spring	9,490'
Wolfcamp	12,600'
Strawn	15,050'
Atoka	15,150'
M Morrow	16,100'

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

The estimated depths at which water, oil and gas will be encountered are as follows.

Water:	None expected in area
Oil	Bone Spring @ 9,375'
Gas:	Wolfcamp @ 12,500'

4. Casing Program

INTERVALS	LENGTH	<u>CASING</u>
<u>Surface</u> 0 – 975'	975'	13 3/8" 48# H-40 ST&C
$\frac{\text{Intermediate}}{0-5335'}$	5,335'	9 5/8" 40# P-110 LT&C
Intermediate Production 0 - 13,400'	13,400'	7 5/8" 39# Q-125 LT&C

Liner

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13,100' – 15,600'	2,500'	5 ½" 23# HCP-110 FJ
15,300' – 16,600'	1,300'	3 ½" 10.2# P-110 FJ

Cementing Program

Hole Size	<u>DEPTH</u>	<u>CEMENT</u>
<u>Surface</u> 17 ½"	975'	Lead: 525 sx 35/65 Poz Class C + 2% $CaCl_2 + \frac{1}{4}$ #/sx Celloflake + 6% Bentonite Tail: 300 sx Class C + 2% $CaCl_2 + \frac{1}{4}$ #/sx Celloflake
Intermediate 12 ¼"	5335'	Lead: 1175 sx 50/50 Poz Class C + 5% NaCl + ¼ #/sx Celloflake + 0.05% ASA-301 + 10% Bentonite + 0.006 gps FP-13L Tail: 300 sx 60/40 Poz Class C + 5% NaCl + ¼ #/sx Celloflake + 4% MPA-1
Intermediate Production 8 ³ /4"	13,400'	Lead: 454 sx 50/50 Poz Class H + ¼ #/sx Celloflake + 0.5% FL-52A + 0.08% ASA-301 + 10% Bentonite + 0.3% R-21 Tail: 420 sx 15:61:11 Poz Class C + 2 % KCl + 0.75% EC-1 + ¼ #/sx Celloflake + 0.7% CD-32 + 3 #/sx LCM-1 + 0.6% FL-25 + 0.6% FL-52A + 0.5% BA-10 + 0.15% R-3
<u>Liner</u> 6 ¹ /2"	13,100' – 15,600'	245 sx Class H + 0.75% EC-1 + 0.75% CD-32 + 1.2% FL-62 + .1% Sodium Metasiliciate + 0.35% R-21
4 1/2"	15,300-16,600'	90 sx Class H +_ 0.75% EC-1 + 0.75% CD-32 + 1.2% FL-62 + 0.1% Sodium Metasilicate + 0.35% R-21

The above cement volumes could be revised pending the caliper measurement from the open hole logs.

5. Minimum Specifications for Pressure Control

Prior to intermediate, the blowout preventor equipment will consist of a 10M system. A 3000 WP double and a 3000 annular preventor. **The equipment will be tested to 1000 psi with the rig pump.** The 9 5/8" csg will have a 10M double and a 5M annular preventor. The 7 5/8" csg and the 5 1/2" will have a 10M double and single and a 10M annular preventor. Units will be hydraulically operated. See Exhibit #2 for Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be tested as well as choke manifold. BOP will be worked at least once each day

while drilling & blind ram will be worked on trips when no drill pipe is in hole. Full opening stabbing valve and upper Kelly cock will be utilized. Anticipated BHP 12991 psi and 214° BHT.

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 8000 psi WP rating.

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

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The well will be drilled to total depth with fresh water and brine mud systems. Depths of systems are as follows.

<u>Depth</u>	Туре	<u>Weight</u>	<u>Viscosity</u>	Water Loss
		<u>(ppg)</u>	<u>(1/sec)</u>	<u>(cc)</u>
0' – 975'	Fresh Water	8.4-9.4	32.40	No control
975' – 5335'	Brine	10	29-32	No control
5335' – 13,400'	Fresh/Brine	8.4-10	29-32	No control
13,400'-15,600'	Brine/Polymer	12-16.5	36-45	< 8 cc
15,600-16,600'	Brine/Polymer	14	42-48	6 cc

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.

8. Logging, Testing and Coring Program

- A. Drill stem tests may be run on potential pay interval.
- B. The open hole electrical logging program will be as follows.
 - 1) DLL/MSFL/GR from total depth to base of intermediate casing.
 - 2) CNL/LDT/GR from total depth to base of intermediate casing with CNL/GR to surface.

C. No coring program is planned.

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D. Additional testing may be initiated subsequent to setting the 5 ½" and 3 ½" production liners. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Abnormal Pressures, Temperatures and Potential Hazards

No abnormal pressures or temperatures are foreseen. However, the Atoka, if present may be overpressured and could require up to 16.5 ppg mud to control. The anticipated bottom hole temperature at total depth is 214 degrees and maximum bottom hole pressure is 12991 psi. No Hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated Starting Date and Duration of Operations

Road and location preparation will not be undertaken until approval has been received from the BLM. If approved, this well will be drilled as part of a development project. The anticipated spud date for the project is in May 2006. The drilling operation should require approximately 70 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

SURFACE USE AND OPERATING PLAN

Devon Energy Production Company, LP **RATTLESNAKE FEDERAL UNIT #7** Unit Letter H, 1980 FNL & 660 FEL, Section 14-26S-34E Lea County, New Mexico

1. Existing Roads

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- A. The well site and elevation plat for the proposed well are reflected on Exhibit #2. This well was staked by Basin Surveys in Hobbs, NM.
- B. All roads into the location are depicted in Exhibit #3. New construction from the existing lease road will be used to access the location. New construction will conform to the specifications outlined in Item #2 below.
- C. Directions to location: From the end of State Road # 205 go southwest on the Flying Pan Road 4.2 miles to Bechham, then west 5.2 miles, the north 0.5 miles, then northwest 2.9 miles, then southwest 0.4 miles to a "Y", go right 1.5 miles to beginning of road to # 4, then # 3 and # 7.

2. Proposed Access Road

Exhibit #3 shows the existing lease road. Access to this location will require the construction of about 1022' of proposed access road. All new construction will adhere to the following.

- A. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- B. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- C. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing and/or Proposed Facilities

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- A. In the event the well is found productive, a tank battery would be constructed and the necessary production equipment will be installed at the well site.
 - 1) If necessary, the well will be operated by means of an electric prime mover. Electric power poles will be set along side of the access road.

2) The tank battery, all connections and all lines will adhere to API standards.

- B. If the well is productive, rehabilitation plans are as follows.
 - 1) The reserve pit will be closed pursuant to OCD rules and guidelines and reclaimed as per BLM specifications.
 - 2) The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

4. Location and Type of Water Supply

The proposed well will be drilled using a combination of brine and fresh water mud systems (outlined in Drilling Program). The water will be obtained from commercial sources and will be transported over the existing and proposed roads. No water well will be drilled on the location.

5. <u>Source of Construction Materials</u>

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit. All roads will be constructed of 6" rolled and compacted caliche.

6. Methods of Handling Waste Disposal

- A. Drill cuttings will be disposed into the reserve pit.
- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain excess drilling fluid or fluid from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit roughly 200' x 240' x 8', or smaller, in size.
- C. The reserve pit will be fenced on three sides throughout drilling operations and will be totally isolated upon removal of the rotary rig. The pit will be lined using a 12 mil woven synthetic liner to minimize loss of drilling fluids.

- D. Water produced from the well during completion operations will be disposed into a steel tank or reserve pit, if volumes prove excessive. After placing the well on production through the production facilities, all water will be collected in tanks. Produced oil will be separated into steel stock tanks until sold.
- E. A portable chemical toilet will be available on the location for human waste during the drilling operations.
- F. Garbage, trash and waste paper produced during drilling operations will be collected in a contained trailer and disposed at an approved landfill. All waste material will be contained to prevent scattering by the wind. All water, fluids, salt or other chemicals will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be generated by this operation.
- G. All waste material will be removed within 30 days after the well is either completed or abandoned. The reserve pit will be completely fenced until it is reclaimed as per BLM specifications. Only the portion of the drilling pad used by the production equipment (pumping unit and tank battery) will remain in use. If the well is deemed non-commercial only a dry hole marker will remain.

7. Ancillary Facilities

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No permanent campsite or other facilities will be constructed as a result of this well.

8. Well Site Layout

- A. The drilling pad is shown on Exhibit #5 The pad, pits and general location of the rig equipment are displayed. Top soil will be stored adjacent to the pad until reclamation efforts are undertaken. Only modest cuts will be necessary to build the pad which will be covered with 6" of compacted caliche.
- B. No permanent living facilities are planned, but temporary trailers for the tool pusher, drilling foreman and mud logger may be on location throughout drilling operations.
- C. The reserve pit will be lined using a 12 mil woven synthetic liner.

9. Plans for Restoration of Surface

A. After concluding the drilling and/or completion operations, if the well is found non-commercial, the pad and road will be reclaimed as directed by the BLM.

The reserve pit area will be reclaimed pursuant to OCD rules and BLM specifications. The original top soil will be returned to the pad and contoured, as close as possible, to the original topography.

- B. The location and road will be rehabilitated as recommended by the BLM.
- C. The reserve pit will be fenced on three sides throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.
- D. If the well is deemed commercially productive, the reserve pit will be restored as described in 10 (A). Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drilling pad not necessary to operate the well. These unused areas of the drilling pad will be contoured, as closely as possible, to match the original topography.

10. Surface Ownership

The well site is owned by the Bureau of Land Management.

The surface location will be restored as directed by the BLM.

11. Other Information

- A. The project area is located in a relatively flat area. The top soil at the wellsite is sandy. Vegetation in the area is moderately sparse, with prairie grasses, some mesquite bushes, and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- B. There is no permanent water in the immediate area.
- C. Land use is for oil and gas production, grazing and hunting.
- D. A Cultural Resources Examination will be completed by Southern New Mexico Archaeological Services, Inc. and forwarded to the BLM office in Carlsbad, New Mexico.

12. Lessee's and Operator's Representative

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Bill Greenlees	Don Mayberry
Operations Engineering Advisor	Superintendent
Devon Energy Production Company, L.P.	Devon Energy Production Company, L.P.
20 North Broadway, Suite 1500	Post Office Box 250
Oklahoma City, OK 73102-8260	Artesia, NM 88211-0250
(405) 552-8194 (office)	(505) 748-3371 (office)
(405) 203-7778 (cell)	(505) 746-4945 (home)

Certification

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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 Production Company, L.P. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Signed:

Date: <u>March 7, 2006</u>

Norvella Adams Sr. Staff Engineering Technician

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Production Company, LP RATTLESNAKE FEDERAL UNIT #7 Unit Letter H, 1980 FNL & 660 FEL, Section 14-26S-34E Lea 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 5000/10000 psi working pressure.
- 4. All fittings will be flanged.

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- 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.

UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Carlsbad Field Office 620 E Greene Street Carlsbad, New Mexico 88221-1778

Statement Accepting Responsibility for Operations

Operator Name: Street or Box: City, State: Zip Code:

Devon Energy Production Company, LP 20 North Broadway Oklahoma City, Oklahoma 73102-8260

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No.:

NMNM94118

Legal Description of Land:

SE/4 NE/4

320 acres 14-26S-34E

Formation(s):

Bond Coverage:

BLM Bond File No.:

Wolfcamp

Nationwide

CO1104

Norvella Adams

Sr. Staff Engineering Technician

March 7, 2006

Authorized Signature:

Title:

Date:

Well name: DEVON Operator: String type: Surface

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Rattlesnake7

Collaps Mud	n paramete se weight: ign is based		9.000 ppg ed pipe.	<u>Collapse:</u> Design fac		ctors: 1.125	Temperatur Minimum se	ered? perature: e temperature e gradient: ection length:	1.40 °F/100ft 975 ft
<u>Burst</u> Max	anticipated			<u>Burst:</u> Design fao	ctor	1.00	Minimum Di	זת:	2.250 in
Inter Calc	ressure: nal gradient sulated BHP backup mud	: C 1	1,000 psi 0.332 psi/ft 1,324 psi	Tension: 8 Round S 8 Round L Buttress: Premium:		1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J)	Non-directio	onal string.	
				Body yield	l:	1.60 (B)	•	uent strings: ting depth:	5,335 ft
				Tension is Neutral po	based on air aint:	weight. 847 ft	Next mu Next set Fracture Fracture	id weight: ting BHP: mud wt:	5,335 ft 10.000 ppg 2,771 psi 19.250 ppg 5,335 ft 5,335 psi
Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (Ibs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	975	13.375	48.00	H-40	ST&C	975	975	12.59	12091
Run Seq 1	Collapse Load (psi) 456	Collapse Strength (psi) 740	Collapse Design Factor 1.62	Burst Load (psi) 1324	Burst Strength (psi) 1730	Burst Design Factor 1.31	Tension Load (kips) 46.8	Tension Strength (kips) 322	Tension Design Factor 6.88 J

Devon Energy

Date: February 22,2006 Oklahoma City, Oklahoma

Remarks: Collapse is based on a vertical depth of 975 ft, a mud weight of 9 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	
Operator:	DEVON
String type:	Intermediate

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Rattlesnake7

Collaps Mud	n paramete se weight: gn is based		10.000 ppg ted pipe.	Minimum <u>Collapse:</u> Design fact <u>Burst:</u> Design fact		tors: 1.125 1.00	Temperatur	ered? aperature: temperature e gradient: ection length:	No 75 °F 150 °F 1.40 °F/100ft 975 ft 8.750 in
Max pi Inter Calc	anticipated ressure: nal gradient ulated BHP rackup mud	:	2,512 psi 0.332 psi/ft 4,283 psi	<u>Tension:</u> 8 Round S1 8 Round LT Buttress: Premium:		1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J)	Non-directio	onal string.	
				Body yield:	based on air nt:	1.60 (B)	Next set Next mu Next set Fracture Fracture	uent strings: ting depth: id weight: ting BHP: mud wt: depth: pressure	13,400 ft 10.000 ppg 6,961 psi 19.250 ppg 5,335 ft 5,335 psi
Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5335	9.625	40.00	P-110	LT&C	5335	5335	8.75	67887
Run Seq 1	Collapse Load (psi) 2771	Collapse Strength (psi) 3090	•	Burst Load (psi) 4283	Burst Strength (psi) 5750	Burst Design Factor 1.34	Tension Load (kips) 213.4	Tension Strength (kips) 737	Tension Design Factor 3.45 J

Devon Energy

Date: February 22,2006 Oklahoma City, Oklahoma

Collapse is based on a vertical depth of 5335 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Remarks:

Well name: Operator:

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DEVON

Rattlesnake7

Intermediate: Prod'n String type:

Collaps Mud	n paramete <u>se</u> weight: ign is based	1(0.000 ppg ed pipe.	Minimum <u>Collapse:</u> Design fac	n design fac	tors: 1.125	Temperatur	ered? perature: temperature	No 75 °F 263 °F 1.40 °F/100ft 975 ft
Burst May	anticipated	surface		<u>Burst:</u> Design fac	tor	1.00	Minimum Di		8.750 in
p Inter Calo	ressure: mal gradient ulated BHP backup mud	: 0 12	,192 psi .332 psi/ft ,641 psi	<u>Tension:</u> 8 Round S 8 Round L Buttress: Premium:		1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J)	Non-directio	onal string.	
·				Body yield	based on air	1.60 (B)	Next set Next mu Next set Fracture Fracture	uent strings: ting depth: id weight: ting BHP: e mud wt: depth: pressure	15,600 ft 16.500 ppg 13,371 psi 30.000 ppg 13,400 ft 20,883 psi
Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
1	(ft) 13400	(in) 7.625	(lbs/ft) 39.00	Q-125	LT&C	(ft) 13400	(ft) 13400	(in) 6.5	(\$) 234897
Run Seq 1	Collapse Load (psi) 6961	Collapse Strength (psi) 12060	Collapse Design Factor 1.73	Burst Load (psi) 12641	Burst Strength (psi) 14340	Burst Design Factor 1.13	Tension Load (kips) 522.6	Tension Strength (kips) 1194	Tension Design Factor 2.28 J

Devon Energy

Date: February 22,2006 Oklahoma City, Oklahoma

Remarks: Collapse is based on a vertical depth of 13400 ft, a mud weight of 10 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: Operator: **DEVON** String type: Drilling Liner

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Rattlesnake7

Collaps Mud Desi	weight:		5.500 ppg d pipe.	Minimum <u>Collapse:</u> Design fac <u>Burst:</u> Design fac	ctor	t ors: 1.125 1.00	Temperatur	ered? perature: temperature e gradient: ection length:	1.40 °F/100ft
pi Inter Calc	anticipated ressure: nal gradient ulated BHP packup mud	6 : 0 13	,617 psi .433 psi/ft .371 psi	<u>Tension:</u> 8 Round S 8 Round L Buttress: Premium:	TC:	1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J)	Liner top: Non-directic	Ū	13,100 ft
				Body yield Tension is Neutral po	based on air	1.60 (B) weight. 4,982 ft	Next sel Next mu Next sel Fracture Fracture	uent strings tting depth: id weight: tting BHP: a mud wt: depth: n pressure	: 15,600 ft 16.500 ppg 13,371 psi 30.000 ppg 15,600 ft 24,312 psi
Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	2500	5.5	23.00	P-110	Type 511	15600	15600	4.545	26746
Run Seq 1	Collapse Load (psi) 13371	Collapse Strength (psi) 14540	Collapse Design Factor 1.09	Burst Load (psi) 13371	Burst Strength (psi) 14530	Burst Design Factor 1.09	Tension Load (kips) 57.5	Tension Strength (kips) 609	Tension Design Factor 10.59 J

Devon Energy

Date: February 22,2006 Oklahoma City, Oklahoma

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 15600 ft, a mud weight of 16.5 ppg The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Remarks:

Well name: Operator: DEVON String type:

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Rattlesnake7

Liner: Production

Design parameters: Collapse		Minimum design fa Collapse:	actors:	Environment: H2S considered?	No
Mud weight: Design is based on evac	14.000 ppg uated pipe.	Design factor	1.125	Surface temperature: Bottom hole temperature Temperature gradient: Minimum section length:	1.40 °F/100ft
		Burst:		Minimum Drift:	2.800 in
		Design factor	1.00		
<u>Burst</u>					
Max anticipated surface					
pressure:	10,081 psi			Liner top:	15,300 ft
Internal gradient:	0.120 psi/ft	Tension:		Non-directional string.	
Calculated BHP	12,073 psi	8 Round STC:	1.80 (J)	-	
	•	8 Round LTC:	1.80 (J)		
No backup mud specified	l.	Buttress:	1.60 (J)		
, .		Premium:	1.50 (J)		
		Body yield:	1.60 (B)		
		Tension is based on a	ir weight.		

Neutral point: 16,324 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1300	4.5	15.10	P-110	LT&C	16600	16600	3.701	8151
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
1	12073	14350	1.19	12073	14420	1.19	19.6	406	20.68 J

Will use 31/2" 10,2" PILO 574 EU

Devon Energy

Date: February 22,2006 Oklahoma City, Oklahoma

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 16600 ft, a mud weight of 14 ppg The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Remarks:



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

3 MWP - 5 MWP - 10 MWP



REYOND SUBSTRUCTURE

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		MINIMUM REQ			IREMENTS	5					
		3,000 MWP				5,000 MWP			10,000 MWP		
No.		1.D.	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 D Plug D(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000	
4	Gate □ Vaive Piug □(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	Gate D Valves Plug D(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"		3,000	3-1/8*		5,000	3-1/8*		10,000	
12	Lines	1	3*	1,000		3*	1,000		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		4-	2,000	
17	Gate D Valves Plug D(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 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.
- 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.



	State of New Mexico Minerals and Natural Resources	Form C-144 June 1, 2004
1000 Rio Brazos Road, Aztec, NM 8/410	il Conservation Division 220 South St. Francis Dr. Santa Fe, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office
Pit or Below-(Brade Tank Registration or (Closure
Is pit or below-grade	tank covered by a "general plan"? Yes	s 🖾 No 🗍
Type of action: Registration of a	pit or below-grade tank 🛛 Closure of a pit or b	below-grade tank
Operator: _Devon Energy Production Company, LPTelep Address:PO Box 250 Artesia NM 88211 Facility or well name:Rattlesnake Federal Unit 7API #: 3 0		
County: _Lea Latitude		
Surface Owner: Federal 🛛 State 🗌 Private 🗋 Indian 🗌		
<u>Pit</u>	Below-grade tank	
Type: Drilling 🛛 Production 🗋 Disposal 🗌	Volume:bbl Type of fluid:	
Workover 🗌 Emergency 🗋	Construction material:	
Lined 🛛 Unlined 🗌	Double-walled, with leak detection? Yes	
Liner type: Synthetic 🛛 Thickness _12mil Clay 🗌 Pit Volumebbl		
	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasona	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water.)	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic		(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points)
	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)
	Ranking Score (Total Points)	0 Points
If this is a pit closure: (1) Attach a diagram of the facility showing the your are burying in place) onsite i offsite i If offsite, name of facili remediation start date and end date. (4) Groundwater encountered: No (5) Attach soil sample results and a diagram of sample locations and exc	ty (3) Attach a	a general description of remedial action taken including
Additional Comments:		151 10
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I hereby certify that the information above is true and complete to the has been/will be constructed or closed according to NMOCD guide		
Date: 3/21/06	$\gamma_{\alpha} \sim$	-
Printed Name/Title Norvella Adams / Sr. Staff Engineering Technician	n Signature	
Your certification and NMOCD approval of this application/closure de otherwise endanger public health or the environment. Nor does it relie regulations.	bes not relieve the operator of liability should the event the operator of its responsibility for compliant	nce with any other federal, state, or local laws and/or
	-IGNED B	
Approval:	Signatu ORIGINAL SIGNED B PAUL F. KAUTZ PETROLEUM ENGINI	Date Date Date Date Date Date Date Date
Printed Name/Title	Signatuto PAUL F. NOIN	Date.

Page 1 of 1

Mull, Donna, EMNRD				
From:	Phillips, Dorothy, EMNRD	Sent: Mon 6/5/2006 9:18 AM		
То:	Mull, Donna, EMNRD			
Cc:				
Subject:	RE: Financial Assurance Requirement			
Attachmen	ts:			

All have blankets and one appear on Jane's list.

From: Mull, Donna, EMNRD
Sent: Monday, June 05, 2006 8:06 AM
To: Phillips, Dorothy, EMNRD
Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Pogo Producing Co (17891) Devon Energy Production Co LP (6137) Pride Energy Co (151323) BTA Oil Producers (3002) Chesapeake Operating Inc (147179) B C Operating Inc (160825)

I have check the inactive well list for each of these operators.

Please let me know. Thanks and have a nice day. Donna

https://webmail.state.nm.us/exchange/dmull/Inbox/RE:%20Financial%20Assurance%20Requirement.EML... 6/5/2006