Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APROVED
OMB NO. 1004-0135
EXPIRES: NOVEMBER 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. **NMNM-100568**
	6. If Indian, Allottee or Tribe Name
	7. Unit or CA Agreement Name and No. NM 111796 X
2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY, LP**	8. Well Name and No. **RATTLESNAKE FEDERAL UNIT 6**
3. Address and Telephone No. **20 North Broadway, Ste 1500, Oklahoma City, OK 73102** **405-228-8209**	9. API Well No. **30-025-37629**
4. Location of Well (Report location clearly and in accordance with Federal requirements)* **660 FSL & 660 FEL UNIT P** **SEC 13 T26S R34E**	10. Field and Pool, or Exploratory **WILDCAT; DELAWARE**
	12. County or Parish **LEA** 13. State **NM**

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OS SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. . Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepen directionally or recomplete horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP respectfully requests approval of the following changes to the original APD submitted:

Production casing:
0'-1400' - Set 5 1/2", 17#, N-80, LT&C casing
1400'-8500' - Set 5 1/2", 17#, K-55, LT&C casing
8500'-9600' - Set 5 1/2", 17#, N-80, LT&C casing

Change intermediate hole size to 11" and cement casing with: Lead 1125 sacks 35:65 Poz Class C and tail with 300 sx 60:40 Poz Class C.

Cement on above 5 1/2" string to extend a minimum of 200' into intermediate casing.

Ignore casing design on attached page.

Received
Hobbs
OCD
DEC 2006

14. I hereby certify that the foregoing is true and correct

Signed _____ Name **Norvella Adams** Title Sr. Staff Engineering Technician Date 12/13/2006

(This space for Federal or State Office use)

Approved by Chris Williams OC DISTRICT SUPERVISOR/GENERAL MANAGER Title _____ Date DEC 22 2006

Conditions of approval, if any:

APPROVED
DEC 18 2006
WESLEY W. INGRAM
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations to any matter within its jurisdiction.

***See Instruction on Reverse Side**

Well name: **RatFu # 6**
Operator: **Devon**
String type: Production

Design parameters:

Collapse
Mud weight: 9.500 ppg
Internal fluid density: 1.100 ppg

Burst
Max anticipated surface pressure: 3,500 psi
Internal gradient: 0.129 psi/ft
Calculated BHP 4,738 psi

Annular backup: 8.40 ppg

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 8,306 ft

Estimated cost: 42,958 ($)

Environment:
H2S considered? No
Surface temperature: 60 °F
Bottom hole temperature: 137 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 1,000 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
3	1000	5.5	17.00	K-55	LT&C	1000	1000	4.767	4699
2	6800	5.5	15.50	K-55	LT&C	7800	7800	4.825	29800
1	1800	5.5	17.00	K-55	LT&C	9600	9600	4.767	8459

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
3	436	3728	8.54	3500	5320	1.52	153	272	1.78 J
2	3404	3892	1.14	3193	4810	1.51	136	239	1.76 J
1	4189	4910	1.17	1102	5320	4.83	30.6	272	8.89 J

Date: December 12,2006
Devon Energy
Oklahoma City, Oklahoma

Remarks:
Collapse is based on a vertical depth of 9600 ft, a mud weight of 9.5 ppg An internal gradient of .057 psi/ft was used for collapse from TD to
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.