Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

c151

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

***SUBMIT IN TRIPLICATE***

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other proposed gas well

2. Name of Operator
**DEVON ENERGY CORPORATION (NEVADA)**

3. Address and Telephone No.
**20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611**

4. Location of Well (Footage. Sec., T., R., M., or Survey Description)
**1650' FNL & 1650' FEL, Unit G, Section 11-T21S-R25E, Eddy Cnty, NM**

5. Lease Designation and Serial No.
NM-LC070409

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
PURE FEDERAL #3

9. API Well No.
30-015-30350

10. Field and Pool, or Exploratory Area
Catclaw Draw (Devonian)

11. County or Parish, State
Eddy Cnty, New Mexico

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☒ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Altering Casing | ☐ Conversion to Injection |
| | ☒ Other amend proposed casing design | ☐ Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised, concerning the Pure Federal #3, that Devon Energy Corporation (Nevada) is amending the 5 1/2" casing setting depth, due to Geological considerations, from 10,200' to ±10,550'. See attached casing design for details. As per date of this request, we have received verbal approval for this action from David Glass.

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

Signed Candace R. Graham Title Engineering Technician Date September 14, 1998

Candace R. Graham

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date SEP 22 1998

Conditions of approval, if any:

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

***See Instruction on Reverse Side**

| | |
|---|---|
| Well name: | **Pure Federal #3** |
| Operator: | **Devon Energy Corporation (Nevada)** |
| String type: | Production |
| Location: | Section 11, T21S, R25E, Unit G |

**Design parameters:**

**Collapse**

Mud weight: 8.500 ppg
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 4,654 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 4,658 psi

Annular backup: 9.00 ppg

Packer fluid details:
Fluid density: 8.400 ppg
Packer depth: 10,000 ft

**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: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 9,271 ft

**Environment:**

H2S considered? No
Surface temperature: 100 °F
Bottom hole temperature: 248 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 450 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) | Internal Capacity ($ft^3$) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 1000 | 5.5 | 17.00 | L-80 | LT&C | 1000 | 1000 | 4.767 | 34.5 |
| 2 | 6900 | 5.5 | 15.50 | K-55 | LT&C | 7900 | 7900 | 4.825 | 216.3 |
| 1 | 2650 | 5.5 | 17.00 | L-80 | LT&C | 10550 | 10550 | 4.767 | 91.3 |

| 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 | 442 | 5566 | 12.61 | 4623 | 8691 | 1.88 | 147 | 338 | 2.30 J |
| 2 | 3488 | 3934 | 1.13 | 4408 | 5021 | 1.14 | 130 | 239 | 1.83 J |
| 1 | 4658 | 6290 | 1.35 | 4365 | 7740 | 1.77 | 23 | 338 | 14.51 J |

Prepared by: W.M. Frank
Devon Energy
Phone: (405) 552-4595
FAX: (405) 552-4621
Date: September 14,1998
Oklahoma City, Oklahoma

Remarks:
Collapse is based on a vertical depth of 10550 ft, a mud weight of 8.5 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.

In addition, burst strength is biaxially adjusted for tension.