

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CCW - Hddhs

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

2. Name of Operator

DEVON SFS OPERATING, INC.

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)

660' FSL & 990' FEL, Unit "P", Sec 31, T22S-R34E

5. Lease Designation and Serial No.

LC-070544B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Bell Lake Unit #22

9. API Well No.

30-015- 35592

10. Field and Pool, or Exploratory Area

West Ojo Chiso (Morrow)

11. County or Parish, State

Lea County, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☒ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ 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.)*

The original Application for Permit to Drill, Form 3160-3, was approved on 6/20/01. Devon Energy Production Company, L.P. requests to amend the casing program as follows:

0 - 800' 20" 94# K55 BT&C - Cmt to surface

0 - 2200' 13 3/8" 54.5# J55 ST&C - Cement to surface

Intermediate 0' - 2000' 9 5/8" 40# N80 LT&C

2000' - 5100' 9 5/8" 40#, HCK-55, LT&C - Cement to surface

The 7" csg and 4 1/2" csg program will remain as originally proposed

Please see the attached casing design for design conditions.

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

Signed

Karen A. Cotton

Title Engineering Technician

Date June 25, 2001

(This space for Federal or State office use)

Approved by

Title Petroleum Engineer

Date 6/26/2001

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 representations to any matter within its jurisdiction.

*See Instruction on Reverse Side

Well name:
Operator: **Devon SFS Operating, Inc**
String type: **Surface**

Bell Lake Unit #22

Design parameters:

Collapse

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 86 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 800 ft

Burst

Max anticipated surface pressure: 586 psi
Internal gradient: 0.268 psi/ft
Calculated BHP 800 psi

No backup mud specified.

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: 693 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,750 ft
Next mud weight: 10.000 ppg
Next setting BHP: 2,987 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 800 ft
Injection pressure 800 psi

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 (\$)
1	800	20	94.00	K-55	Buttress	800	800	18.999	21503

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (klps)	Tension Strength (klps)	Tension Design Factor
1	374	520	1.39	800	2110	2.64	75.2	1479	19.67 J

Devon Energy

Date: June 25, 2001
Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 800 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.

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

Well name:

Bell Lake Unit #22Operator: **Devon SFS Operating , Inc**String type: **Surface (2)****Design parameters:****Collapse**Mud weight: 8.400 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 800 ft**Burst**Max anticipated surface
pressure: 897 psiInternal gradient: 0.268 psi/ft
Calculated BHP 1,486 psi

No backup mud specified.

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: 1,927 ft

Non-directional string.

Re subsequent strings:Next setting depth: 5,100 ft
Next mud weight: 10.000 ppg
Next setting BHP: 2,649 psi
Fracture mud wt: 13.000 ppg
Fracture depth: 2,200 ft
Injection pressure 1,486 psi

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 (\$)
1	2200	13.375	54.50	J-55	ST&C	2200	2200	12.49	27296
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 (klps)	Tension Design Factor
1	960	1130	1.18	1486	2730	1.84	119.9	514	4.29 J

Devon Energy

Date: June 25,2001
Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 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.

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

Bell Lake Unit #22

Well name:
Operator: **Devon SFS Operating , Inc**
String type: **Intermediate**

Design parameters:

Collapse

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 148 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Surface pressure: 100 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 2,000 psi
Internal gradient: 0.267 psi/ft
Calculated BHP 3,361 psi

No backup mud specified.

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: 4,341 ft

Estimated cost: 63,586 (\$)

Non-directional string.

Re subsequent strings:

Next setting depth: 11,800 ft
Next mud weight: 8,400 ppg
Next setting BHP: 5,149 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,100 ft
Injection pressure 5,100 psi

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 (\$)
2	2000	9.625	40.00	N-80	LT&C	2000	2000	8.75	25450
1	3100	9.625	40.00	HCK-55	LT&C	5100	5100	8.75	38136

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
2	1139	2955	2.59	2534	5750	2.27	204	737	3.61 J
1	2749	4230	1.54	3361	3950	1.18	124	630	5.08 B

Devon Energy

Date: June 25, 2001
Oklahoma City, Oklahoma

Remarks:
Collapse is based on a vertical depth of 5100 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.

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