

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division

811 S. 1st Street  
Artesia, NM 88210-2834

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 proposal.

5. Lease Designation and Serial No.  
NM 29233

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No.  
P.O. Box 2100, Denver Colorado 80201

(303)621-4851

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter I 1980 Feet From The SOUTH Line and 990 Feet From The

EAST Line Section 13 Township 22-S Range 31-E

8. Well Name and Number  
NEFF '13' FEDERAL

12

9. API Well No.

30-015-29247

10. Field and Pool, Exploratory Area  
LIVINGSTON RIDGE - DELAWARE

11. County or Parish, State

EDDY, NM

12. 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

ACCEPTED FOR RECORD

DEC 10 1996

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing

OTHER: SPUD, SURF CSG, PROD CSG

- ☐ 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.)

- PETERSON RIG #2 SPUD 14.750 INCH HOLE @ 9:00 PM 11-14-96. DRILLED TO 782'. TD @ 7:00 AM 11-16-96.
- RAN 18 JOINTS OF 14 3/4 INCH. 42# WC-40, STC CASING SET @ 782'. RAN 10 CENTRALIZERS. 11 3/4" 20#.
- DOWELL CEMENTED WITH 500 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S). F/B 140 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S). PLUG DOWN @ 11:30 AM 11-16-96. CIRCULATED 52 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 11:00 PM TO 11:30 PM 11-16-96.
- WOC TIME 11-1/2 HOURS FROM 11:30 AM 11-16-96 TO 11:30 PM 11-16-96.
- DRILLING 11 INCH HOLE.
- DRILLED 11 INCH HOLE TO 4380'. TD @ 4 15 PM 11-20-96.
- RAN 55 JOINTS OF 8 5/8 INCH. 32# K55 AND 47 JOINTS (2102') OF 32# WC-50, LTC CASING SET @ 4380'.
- DOWELL CEMENTED: 900 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S). F/B 150 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 6:30 AM 11-21-96. CIRCULATED 159 SACKS.
- NU BOP & TESTED TO 3000#. TESTED CASING TO 1500# FOR 30 MINUTES FROM 6:30 PM TO 7:00 PM 11-21-96.
- WOC TIME 12 HOURS FROM 6:30 PM 11-21-96 TO 6:30 PM 11-21-96.
- DRILLED 7 7/8" HOLE TO 8550'. TD @ 8:45 PM 11-27-96. 13. RU SCHLUM. LOGGING - PLATFORM EXPRESS.
- RAN FS 1 JOINT OF 5 1/2 INCH. 20# L-80 LTC. FC 33 JOINTS OF 5 1/2 INCH 20# L-80 LTC. 35 JOINTS OF 5 1/2 INCH 17# WC70 LTC. DV TOOL. 3 JTS 5 1/2" 17# WC-70 LTC. 122 JTS 5 1/2" 17# WC-50 LTC. TOTAL PIPE AND FE 8563'. SET @ 8545'.
- DOWELL CEMENTED: 1ST STAGE - 1167 SACKS 50/50 POZ CLASS H (15.6 PPG, 1.18 CF/S). OPEN DV TOOL. DID NOT CIRC CMT OFF DV TOOL. 2ND STAGE - 500 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S). F/B 100 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 12:15 AM 11-30-96. DID NOT CIRC CMT.
- ND RELEASE RIG @ 5:00 AM 11-30-96. 17. PREP TO COMPLETE.

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

SIGNATURE C.P. Basham / scc TITLE Eng. Assistant.

DATE 12/4/96

TYPE OR PRINT NAME Sheilla D. Reed-High

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Schlumberger  
Dowell

CemDABE Cement Test Report

November 28, 1996

DATE OF TEST : 28-Nov-1996

TEST NUMBER : NPD684600002

CUSTOMER : TEXACO  
FIELD : EDDY NM  
WELL : NEFF FED 13 12

CEMENT

Class : H  
Blend : 3565  
Brand : LONESTAR  
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal  
Volume : 11.95 gal/sk  
Type : LO  
Total liquid : 11.95 gal/sk

SLURRY

Density : 12.40 lb/gal  
Yield : 2.14 ft<sup>3</sup>/sk

B.H.S.T. : 118.0 F

B.H.C.T. : 107.0 F

| ADDITIVES |          |        |
|-----------|----------|--------|
| Code      | Concent. | Unit   |
| D020      | 6.000    | % BWOC |
| D029      | 0.260    | % BWOC |
| D044      | 5.000    | % BWOW |

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 9.034 lb<sub>f</sub>/100ft<sup>2</sup>

$P_v$  : 18.076 cP

Correlation coefficient : 1.000

Thickening Time : 5 hr12 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

... No Fluid Loss data available

No Free Water data available

| Rheological data     |        |        |
|----------------------|--------|--------|
| Temp. (F) :          | 75.0   | 0.0    |
| R.P.M.               | Dial 1 | Dial 2 |
| 300.0                | 27.0   | 0.0    |
| 200.0                | 21.0   | 0.0    |
| 100.0                | 15.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 7.0    | 0.0    |
| 3.0                  | 6.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 10 minutes Gel : 0.0 |        |        |

| Compressive strength |       |           |
|----------------------|-------|-----------|
| PSI                  | Hours | Temp. (F) |
| 262                  | 6.0   | 118.0     |
| 366                  | 12.0  | 118.0     |
| 475                  | 24.0  | 118.0     |

Comment :

FIELD BLEND

35/65 POZ/R + 6% D20 + 5% D44 (BWOW) + 0.25PPS D29

LOCATION WATER USED

LONG STRING 2D STAGE LEAD 5500' POD = 3:00

Schlumberger

Dowell

CemDABE Cement Test Report

November 28, 1996

DATE OF TEST : 28-nov-1996

TEST NUMBER : NPD684600003

CUSTOMER : TEXACO  
FIELD : EDDY NM  
WELL : NEFF FED 13 12

CEMENT

Class : H  
Blend :  
Brand : LONESTAR  
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal  
Volume : 5.20 gal/sk  
Type : LO  
Total liquid : 5.20 gal/sk

SLURRY

Density : 15.60 lb/gal  
Yield : 1.18 ft<sup>3</sup>/sk

B.H.S.T. : 118.0 F

B.H.C.T. : 107.0 F

No additives

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 30.113 lbf/100 ft<sup>2</sup>

$P_v$  : 12.051 cP

Correlation coefficient : 1.000

Thickening Time : 4 hr47 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

| Rheological data     |        |        |
|----------------------|--------|--------|
| Temp. (F) :          | 75.0   | 0.0    |
| R.P.M.               | Dial 1 | Dial 2 |
| 300.0                | 42.0   | 0.0    |
| 200.0                | 38.0   | 0.0    |
| 100.0                | 34.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 23.0   | 0.0    |
| 3.0                  | 15.0   | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 10 minutes Gel : 0.0 |        |        |

| Compressive strength |       |           |
|----------------------|-------|-----------|
| PSI                  | Hours | Temp. (F) |
| 686                  | 6.0   | 118.0     |
| 1025                 | 12.0  | 118.0     |
| 1498                 | 24.0  | 118.0     |

Comment :

FIELD BLEND

CLASS H NEAT

LOCATION WATER USED

LONG STRING 2D STAGE TAIL 5500'

Schlumberger

Dowell

**CemDABE Cement Test Report**

November 22, 1996

DATE OF TEST : 22-nov-1996

TEST NUMBER : NPD683300001

**CUSTOMER** : TEXACO  
**FIELD** : EDDY NM  
**WELL** : NEFF FED 13 12

**CEMENT**

Class : H  
Blend : 3565  
Brand : LONESTAR  
Plant : MARYNEAL

**BASE FLUID**

Density : 8.32 lb/gal  
Volume : 11.95 gal/sk  
Type : LO  
Total liquid : 11.95 gal/sk

**SLURRY**

Density : 12.40 lb/gal  
Yield : 2.14 ft<sup>3</sup>/sk

B.H.S.T. : 111.0 F

B.H.C.T. : 101.0 F

| ADDITIVES |          |        |
|-----------|----------|--------|
| Code      | Concent. | Unit   |
| D020      | 2.000    | % BWOC |
| D029      | 0.250    | % BWOC |
| D044      | 5.000    | % BWOW |

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 8.030 lbf/100ft<sup>2</sup>

$P_y$  : 9.038 cP

Correlation coefficient : 1.000

Thickening Time : 13 hr 0 min to 50 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

| Rheological data     |        |        |
|----------------------|--------|--------|
| Temp. (F) :          | 75.0   | 0.0    |
| R.P.M.               | Dial 1 | Dial 2 |
| 300.0                | 17.0   | 0.0    |
| 200.0                | 14.0   | 0.0    |
| 100.0                | 11.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 8.0    | 0.0    |
| 3.0                  | 7.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 10 minutes Gel : 0.0 |        |        |

| Compressive strength |       |           |
|----------------------|-------|-----------|
| PSI                  | Hours | Temp. (F) |
| 122                  | 6.0   | 111.0     |
| 245                  | 12.0  | 111.0     |
| 309                  | 24.0  | 111.0     |

Comment :

**FIELD BLEND**

3S/65POZ/H + 6%D20 + 5%D44(BWOW) + 0.25PPSD29

LOCATION WATER USED

INTERMEDIATE LEAD 4400'

Schlumberger

Dowell

CemDABE Cement Test Report

November 22, 1996

DATE OF TEST : 22-nov-1996

TEST NUMBER : NPD683300002

CUSTOMER : TEXACO  
FIELD : EDDY NM  
WELL : NEFF FED 13 12

CEMENT  
Class : H  
Blend :  
Brand : LONESTAR  
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal  
Volume : 5.29 gal/sk  
Type : LO  
Total liquid : 5.29 gal/sk

SLURRY

Density : 15.60 lb/gal  
Yield : 1.18 ft<sup>3</sup>/sk

B.H.S.T. : 111.0 F

B.H.C.T. : 101.0 F

No additives

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 30.113 lbf/100ft<sup>2</sup>

$P_y$  : 15.063 cP

Correlation coefficient : 1.000

Thickening Time : 5 hr 39 min to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

| Rheological data     |        |        |
|----------------------|--------|--------|
| Temp. (F) :          | 75.0   | 0.0    |
| R.P.M.               | Dial 1 | Dial 2 |
| 300.0                | 45.0   | 0.0    |
| 200.0                | 40.0   | 0.0    |
| 100.0                | 35.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 26.0   | 0.0    |
| 3.0                  | 16.0   | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 10 minutes Gel : 0.0 |        |        |

| Compressive strength |       |           |
|----------------------|-------|-----------|
| PSI                  | Hours | Temp. (F) |
| 630                  | 6.0   | 111.0     |
| 1200                 | 12.0  | 111.0     |
| 1749                 | 24.0  | 111.0     |

Comment :

FIELD BLEND

CLASS H-NEAT

LOCATION WATER USED

INTERMEDIATE TAIL 4400' POD = 4:45

Schlumberger

Dowell

CemDABE Cement Test Report

November 26, 1996

DATE OF TEST : 26-nov-1996

TEST NUMBER : NPD684600001

CUSTOMER : TEXACO  
FIELD : EDDY NM  
WELL : NEFF FEDERAL 13 12

CÉMENT  
Class : H  
Blend : 5050  
Brand : LONESTAR  
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal  
Volume : 6.18 gal/sk  
Type : LO  
Total liquid : 6.18 gal/sk

SLURRY

Density : 14.20 lb/gal  
Yield : 1.34 ft<sup>3</sup>/sk

| ADDITIVES |          |        |
|-----------|----------|--------|
| Code      | Concent. | Unit   |
| D013      | 0.250    | % BWOC |
| D020      | 2.000    | % BWOC |
| D044      | 5.000    | % BWOW |

B.H.S.T. : 140.0 F  
B.H.C.T. : 120.0 F

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 10.707 lbf/100 ft<sup>2</sup>

$P_0$  : 16.370 cP

Correlation coefficient : 0.999

Thickening Time : 6 hr35 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

| Rheological data     |        |        |
|----------------------|--------|--------|
| Temp. (F) :          | 75.0   | 0.0    |
| R.P.M.               | Dial 1 | Dial 2 |
| 300.0                | 27.0   | 0.0    |
| 200.0                | 22.0   | 0.0    |
| 100.0                | 16.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 10.0   | 0.0    |
| 3.0                  | 9.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 0.0                  | 0.0    | 0.0    |
| 10 minutes Gel : 0.0 |        |        |

| Compressive strength |       |           |
|----------------------|-------|-----------|
| PSI                  | Hours | Temp. (F) |
| 154                  | 6.0   | 140.0     |
| 874                  | 12.0  | 140.0     |
| 1395                 | 24.0  | 140.0     |

Comment :

FIELD BLEND

50/50P0Z/H + D020 + 5%D44(BWOW) + 0.25%D13

LOCATION WATER USED

PRODUCTION FIRST STAGE 8500' (RUN 40 MIN., STOP 45 MIN., RESTART)