

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

|                                                    |                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------|
| WELL API NO.                                       | 30-025-33599                                                           |
| 5. Indicate Type of Lease                          | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil / Gas Lease No.                       |                                                                        |
| 7. Lease Name or Unit Agreement Name               | WEST VACUUM UNIT                                                       |
| 8. Well No.                                        | 57                                                                     |
| 9. Pool Name or Wildcat                            | GRAYBURG                                                               |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | 4030'                                                                  |

|                                                                                                                                                                                                          |                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUNDRY NOTICES AND REPORTS ON WELLS<br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO<br>DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT<br>(FORM C-101) FOR SUCH PROPOSALS. |                                                                                                                                                                                                    |
| 1. Type of Well:                                                                                                                                                                                         | OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                                      |
| 2. Name of Operator                                                                                                                                                                                      | TEXACO EXPLORATION & PRODUCTION INC.                                                                                                                                                               |
| 3. Address of Operator                                                                                                                                                                                   | P.O. Box 2100, Denver Colorado 80201                                                                                                                                                               |
| 4. Well Location                                                                                                                                                                                         | Unit Letter <u>P</u> : <u>75</u> Feet From The <u>SOUTH</u> Line and <u>1305</u> Feet From The <u>EAST</u> Line<br>Section <u>34</u> Township <u>17-S</u> Range <u>34-E</u> NMPM <u>LEA</u> COUNTY |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)                                                                                                                                                       | 4030'                                                                                                                                                                                              |

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☒ SPUD, SURF CSG, PROD CSG.

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- NABORS RIG SPUD 11 INCH HOLE @ 5:00 PM 10-16-96. DRILLED TO 1545'. TD @ 10:15 AM 10-17-96.
- RAN 34 JOINTS OF 8 5/8 INCH, 24#, WC-50, STC CASING SET @ 1545'. RAN 10 CENTRALIZERS.
- DOWELL CEMENTED WITH 400 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S). F/B 150 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S). PLUG DOWN @ 10:50 PM 10-17-96. CIRCULATED 81 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 4:30 PM TO 5:00 PM 10-18-96.
- WOC TIME 17 HOURS AND 30 MINUTES FROM 10:50 PM 10-17-96 TO 4:30 PM 10-18-96. REQUIREMENTS OF RULE 107, OPTION 2:
  - VOLUME OF CEMENT SLURRY: LEAD 696 (CU. FT.), TAIL 201 (CU. FT.).
  - APPROX. TEMPERATURE OF SLURRY WHEN MIXED: 50 F.
  - EST. FORMATION TEMPERATURE IN ZONE OF INTEREST: 90 F.
  - EST. CEMENT STRENGTH AT TIME OF CASING TEST: 2133 PSI.
  - ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 17 HOURS AND 30 MINUTES.
- DRILLING 7 7/8 INCH HOLE.
- DRILLED 7 7/8 INCH HOLE TO 4798'. TD @ 2:30 PM 10-22-96.
- RU SCHLUMBERGER. RAN GR-DLL-MSFL-SONIC AND GR-DSN-SDL-SGR-CAL FROM 4798' TO SURFACE. PULLED GR-DSN TO SURFACE.
- RAN 114 JOINTS OF 5 1/2 INCH, 15.5#, WC-50, LTC CASING SET @ 4800'.
- DOWELL CEMENTED: 950 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 @ 1:30 PM 10-23-96. CIRCULATED 66 SACKS.
- ND. RELEASE RIG @ 5:30 PM 10-23-96.
- PREP TO COMPLETE.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. P. Busham / SRH TITLE Eng. Assistant.

DATE 10/31/96

TYPE OR PRINT NAME Sheilla D. Reed-High

Telephone No. (303)621-4851

(This space for State Use)

ORIGINAL FILED BY JERRY SEXTON

APPROVED WILLIAM J. SEXTON

CONDITIONS OF APPROVAL, IF ANY: TITLE

DATE NOV 13 1996

DeSoto/Nichols 10-9-96/2.0



**Dowell**

**CamDABE Cement Test Report**

October 22, 1996

DATE OF TEST : 22-oct-1996

TEST NUMBER : NPD673900001

CUSTOMER : TEXACO  
FIELD : LEA NM  
WELL : W V U

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

**BASE FLUID**

Density : 8.32 lb/gal  
Volume : 10.46 gal/sk  
Type : LO  
Total liquid : 10.46 gal/sk

**SLURRY**

Density : 12.80 lb/gal  
Yield : 1.94 ft<sup>3</sup>/sk

| ADDITIVES |          |        |
|-----------|----------|--------|
| Code      | Concent. | Unit   |
| D020      | 6.000    | % BWOC |
| D029      | 0.250    | % BWOC |
| D044      | 5.000    | % BWOW |

B.H.S.T. : 110.0 F  
B.H.C.T. : 103.0 F

Rheological model (Dial 1) : Bingham Plastic

$T_v$  : 15.726 lbf/100 ft<sup>2</sup>

$P_v$  : 9.038 cP

Correlation coefficient : 0.933

Thickening Time : 6 hr48 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                | 24.0   | 0.0    |
| 200.0                | 23.0   | 0.0    |
| 100.0                | 18.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 15.0   | 0.0    |
| 3.0                  | 14.0   | 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) |
| 145                  | 6.0   | 110.0     |
| 250                  | 12.0  | 110.0     |
| 380                  | 24.0  | 110.0     |

Comment :

**FIELD BLEND**

35/68POZ/H + 6%D20 + 5%D44(BWOW) + 0.25PPSD29

LOCATION WATER USED

LONG STRING LEAD 4800' POD = 4:00

**ComDABE Cement Test Report**

October 22, 1996  
DATE OF TEST : 22-oct-1996

TEST NUMBER : NPD673900002

CUSTOMER : TEXACO  
FIELD : LEA NM  
WELL : W V U 57

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

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. : 110.0 F  
B.H.C.T. : 103.0 F

No additives

Rheometer type : Fann 35  
Spring factor : 1.0  
Bob No : 1  
Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic  
 $T_y$  : 27.436 lbf/100ft<sup>2</sup>  
 $P_0$  : 18.076 cP  
Correlation coefficient : 0.995

Thickening Time : 4 hr 5 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                | 33.0   | 0.0    |
| 60.0                 | 0.0    | 0.0    |
| 30.0                 | 0.0    | 0.0    |
| 6.0                  | 18.0   | 0.0    |
| 3.0                  | 13.0   | 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) |
| 840                  | 6.0   | 110.0     |
| 1700                 | 12.0  | 110.0     |
| 2000                 | 24.0  | 110.0     |

Comment :

FIELD BLEND  
CLASS H-NEAT  
LOCATION WATER USED  
LONG STRING TAIL 4800' POD = 2:12



## CEMENTING REPORT

Report Date: \_\_\_\_\_

No. \_\_\_\_\_

Fracture: Taraco  
 Job No: W. Vacuum Unit 57  
 Location: Lee NM

Requested By: \_\_\_\_\_  
 Service Point: HUN  
 Type of Job: Surface

Conditions:

Temp: 1550 °F. Temp Grad: \_\_\_\_\_  
 Density (pcf): 12.5 Yield (cc/gal): 1.74 Mix Water (gal/sk): 9.11 Total Liquid (gal/sk): 9.11 Water Source: Loc Cement Source: C  
 System No. 1: \_\_\_\_\_  
 System No. 2: \_\_\_\_\_  
 System No. 3: \_\_\_\_\_  
 System No. 4: \_\_\_\_\_

Cement System Compositions:

System No. 1: C + 4% D20 + 27.51  
 System No. 2: C + 27.51  
 System No. 3: \_\_\_\_\_  
 System No. 4: \_\_\_\_\_

Setting Time Results

Rheology Results

| SYSTEM | Wt MIN | 30 | 300 | 200 | 100 | 50 | 25 | 5  | 3  | SV or n | Typical | REMOVAL<br>MODEL | LOG |
|--------|--------|----|-----|-----|-----|----|----|----|----|---------|---------|------------------|-----|
| No. 1  | 3:40   | 70 | 76  | 31  | 27  | 22 | 17 | 14 | 12 |         |         |                  |     |
| No. 2  | 2:10   | 70 | 40  | 36  | 31  | 26 | 20 | 17 | 14 |         |         |                  |     |
| No. 3  |        |    |     |     |     |    |    |    |    |         |         |                  |     |
| No. 4  |        |    |     |     |     |    |    |    |    |         |         |                  |     |

Compressive Strengths - psi

| SYSTEM | TEMP. | 6 HRS. | 12 HRS. | 27 HRS. |
|--------|-------|--------|---------|---------|
| No. 1  | 90 °F | 250    | 500     | 800     |
| No. 1  | °F    |        |         |         |
| No. 2  | 90 °F | 600    | 1400    | 2000    |
| No. 2  | °F    |        |         |         |
| No. 3  | °F    |        |         |         |
| No. 3  | °F    |        |         |         |
| No. 4  | °F    |        |         |         |
| No. 4  | °F    |        |         |         |

FLUID LOSS

FREE WATER

| SYSTEM | °F. _____ PSI _____ | ML/min | ML |
|--------|---------------------|--------|----|
| No. 1  |                     |        |    |
| No. 2  |                     |        |    |
| No. 3  |                     |        |    |
| No. 4  |                     |        |    |

Remarks: Previous Data