

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.	30-025-33712
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	
7. Lease Name or Unit Agreement Name	CENTRAL VACUUM UNIT
8. Well No.	177
9. Pool Name or Wildcat	GRAYBURG/SA

SUNDY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMI (FORM C-101) FOR SUCH PROPOSALS.	
1. Type of Well:	OIL WELL ☒ GAS WELL ☐ OTHER ☐
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>J</u> : <u>1955</u> Feet From The <u>SOUTH</u> Line and <u>1335</u> Feet From The <u>EAST</u> Line	
Section <u>36</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.) <u>3990'</u>	

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 #348 SPUD 11 INCH HOLE @ 11:00 PM 12-16-96. DRILLED TO 535'. TD @ AM PM 12- -96.
- RAN 34 JOINTS OF 8 5/8 INCH, 24#, WC-50, STC CASING SET @ 1550'. 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 @ 11:30 AM 12-18-96. CIRCULATED 42 SACKS.
- NU BOP & TESTED TO 3000#. TESTED CASING TO 1200# FOR 30 MINUTES FROM 4:00 AM TO 4:30 AM 12-19-96.
- WOC TIME 16-1/2 HOURS FROM 11:30 AM 12-18-96 TO 4:00 AM 12-19-96. REQUIREMENTS OF RULE 107, OPTION 2:
 - VOLUME OF CEMENT SLURRY: LEAD 696 (CU. FT.), TAIL 214 (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: 1733 PSI.
 - ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 16-1/2 HOURS.
- DRILLING 7 7/8 INCH HOLE.
- DRILLED 7 7/8 INCH HOLE TO 4850'. TD @ 9:30 AM 12-23-96.
- RU SCHLUMBERGER. RAN PE-NGT-BHC 4850-2900'. PULLED GR-CNL TO SURFACE.
- RAN 111 JOINTS (4850') OF 5 1/2 INCH, 15.5#, WC-50, LTC CASING SET @ 4850'.
- DOWELL CEMENTED: - 1000 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 @ 7:00 AM 12-24-96. CIRCULATED 124 SACKS.
- ND. RELEASE RIG @ 11:00 AM 12-24-96.
- 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. Baham TITLE Eng. Assistant.

DATE 1/3/97

TYPE OR PRINT NAME Sheilla D. Reed-High

Telephone No. (303)621-4851

(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON

APPROVED DISTRICT I SUPERVISOR

CONDITIONS OF APPROVAL, IF ANY: TITLE

DATE

JAN 14 1997

Schlumberger

Dowell

CemDABE Cement Test Report

December 23, 1996

DATE OF TEST : 22-dec-1996

TEST NUMBER : NPD692500001

CUSTOMER : TEXACO

FIELD : LEA NM

WELL : C V U 177

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 ft³/sk

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

B.H.S.T. : 114.0 F

B.H.C.T. : 103.0 F

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 17.733 \text{ lbf}/100\text{ft}^2$ $P_v : 15.063 \text{ cP}$

Correlation coefficient : 0.993

Thickening Time : 10 hr47 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	33.0	0.0
200.0	27.0	0.0
100.0	23.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	21.0	0.0
3.0	19.0	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	114.0
250	12.0	114.0
380	24.0	114.0

Comment :

FIELD BLEND

35/65P0Z/H + 6%D20 + 5%D44(BWOW) + 0.25PPSD29

LOCATION WATER USED

LONG STRING LEAD 4850' POD = 5:35

Schlumberger
Dowell

CemDABE Cement Test Report

December 22, 1996

DATE OF TEST : 22-dec-1996

TEST NUMBER : NPD692500002

CUSTOMER : TFXACO
FIELD : LEA NM
WELL : C V U 177

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 ft³/sk

B.H.S.T. : 114.0 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 : 24.760 lbf/100ft²

P_y : 48.203 cP

Correlation coefficient : 0.961

Thickening Time : 3 hr59 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	70.0	0.0
200.0	62.0	0.0
100.0	38.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	19.0	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)
540	6.0	114.0
1800	12.0	114.0
1990	24.0	114.0

Comment :

FIELD BLEND

CLASS H-NEAT

LOCATION WATER USED

LONG STRING TAIL 4850' POD = 3:01



CEMENTING REPORT

Report Date: _____

Location: Texas
 No: CENTRAL VACUUM UNIT, 177
 Name: Lee NM

Requested By: _____
 Service Point: HNA
 Type of Job: Seal

Conditions:

Temp: 1550 °F. Temp Grad: _____ SHOT: 90 °F. SHOT: 95 °F.
 Density (pcf): 13.5 Yield (cc/sk): 1.74 Mix Water (gal/sk): 9.11 Total Liquid (gal/sk): 9.11 Water Source: Loc Cement Source: C
 No. 1: _____
 No. 2: 14.8 1.32 6.32 6.32 Loc C
 No. 3: _____
 No. 4: _____

At System Compositions:

No. 1: C + 4% D20 + 2% S1
 No. 2: C + 2% S1
 No. 3: _____
 No. 4: _____

Setting Time Results

Rheology Results

TEM	HR MIN	SC	300	200	100	50	25	8	3	PV cP	Ty cP	RHEOLOGY MODEL	LOG
1	3:40	70	75	31	27	22	17	14	12				
2	2:10	70	40	36	31	26	20	17	14				
3													
4													

Compressive Strengths - psi

TEM	TEMP.	6 HRS.	12 HRS.	27 HRS.
1	90 °F	250	500	800
1	°F			
2	90 °F	600	1400	2000
2	°F			
3	°F			
3	°F			
4	°F			
4	°F			

FLUID LOSS

FREE WATER

SYSTEM	°F. (25)	°F.
	ML/30 min	ML
No. 1		
No. 2		
No. 3		
No. 4		

Remarks: Previous Data