

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. 30-025-33711
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. 167
9. Pool Name or Wildcat VACUUM GRAYBURG-SAN ANDR

SUNDRY 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 PERMITS (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>G</u> : <u>2000</u> Feet From The <u>NORTH</u> Line and <u>2630</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>4000'</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 @ 5:00 PM 12-26-96. DRILLED TO 1028'. TD @ 8:15 PM 12-27-96.
- RAN 34 JOINTS OF 8 5/8 INCH, 24#, WC-50, STC CASING SET @ 1540'. RAN 12 CENTRALIZERS.
- DOWELL CEMENTED WITH 400 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S 6.3 GW/S). F/B 150 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S 6.3 GW/S). PLUG DOWN @ 4:20 AM 12-28-96. CIRCULATED 10 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 7:15 PM TO 7:45 PM 12-28-96.
- WOC TIME 14 HOURS AND 55 MINUTES FROM 4:20 AM TO 7:15 PM 12-28-96. 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: 1073 PSI.
 - ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 14 HOURS AND 55 MINUTES.
- DRILLING 7 7/8 INCH HOLE.
- DRILLED 7 7/8 INCH HOLE TO 4850'. TD @ 12:00 PM 01-01-97.
- RU SCHLUMBERGER AND RUN 1ST PLATFORM EXP 4850-2900', 2ND BHCS 4850-2900', RAN GR-CNL TO SURFACE.
- RAN 116 JOINTS(4850') OF 5 1/2 INCH, 17#, WC-50, LTC CASING SET @ 4850'.
- DOWELL CEMENTED: 900 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S 10.4 GW/S). F/B 100 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S 5.2 GW/S). PLUG DOWN @ 10:00 AM 01-02-97. CIRCULATED 100 SACKS.
- ND. RELEASE RIG @ 2:00 PM 01-02-97.
- 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. Basham TITLE Eng. Assistant.

DATE 1/7/97

TYPE OR PRINT NAME Sheilla D. Reed-High

Telephone No. (303)621-4851

(This space for State Use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

JAN 14 1997



CEMENTING REPORT

File No.: _____ Report Date: _____

Operator: Texas Requested By: _____
 Case No.: Central Vacuum #167 Service Point: HNH
 Location: 664 N Type of Job: Surface

Test Conditions:

Depth: 1550 ft. Temp Grad: _____ BHST: 90 °F. BHCT: 25 °F

Properties:	Density (pcf)	Yield (cu ft/sk)	Mix Water (gal/sk)	Total Liquid (gal/sk)	Water Source	Cement Source
System No. 1	<u>13.5</u>	<u>1.74</u>	<u>9.11</u>	<u>9.11</u>	<u>LOC</u>	<u>C</u>
System No. 2	<u>14.2</u>	<u>1.32</u>	<u>6.32</u>	<u>6.32</u>	<u>LOC</u>	<u>C</u>
System No. 3						
System No. 4						

Cement System Compositions:

System No. 1 C + 47.020 + 27.51
 System No. 2 C + 27.51
 System No. 3 _____
 System No. 4 _____

Thickening Time Results

Rheology Results

SYSTEM	HR:MIN	30	300	200	100	50	20	5	3	2V or n'	Ty or K'	RHEOLOGY MODEL	L.O.S.
No. 1	<u>3:20</u>	<u>70</u>	<u>35</u>	<u>30</u>	<u>26</u>	<u>22</u>	<u>20</u>	<u>12</u>	<u>14</u>				
No. 2	<u>2:05</u>	<u>70</u>	<u>51</u>	<u>46</u>	<u>37</u>	<u>35</u>	<u>32</u>	<u>24</u>	<u>13</u>				
No. 3													
No. 4													

Compressive Strengths - psi

SYSTEM	TEMP.	6 HRS.	12 HRS.	24 HRS.
No. 1	<u>92 °F</u>	<u>400</u>	<u>700</u>	<u>1000</u>
No. 1	<u>°F</u>			
No. 2	<u>92 °F</u>	<u>1050</u>	<u>1350</u>	<u>1750</u>
No. 2	<u>°F</u>			
No. 3	<u>°F</u>			
No. 3	<u>°F</u>			
No. 4	<u>°F</u>			
No. 4	<u>°F</u>			

FLUID LOSS

FREE WATER

SYSTEM	°F. _____ psi	°F. _____
	_____ mL/30 min	_____ mL
No. 1		
No. 2		
No. 3		
No. 4		

Remarks: Plaster Data

Chemist: _____



CemDABE Cement Test Report

December 30, 1996
DATE OF TEST : 30-dec-1996

TEST NUMBER : NPD693800001

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : CENTRAL VAC UNIT 167

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. : 115.0 F
B.H.C.T. : 104.0 F

Rheological model (Dial 1) : Bingham Plastic

$$T_y : 27.102 \text{ lbf}/100 \text{ ft}^2$$

$$P_o : 9.038 \text{ cP}$$

Correlation coefficient : 1.000

Thickening Time : 4 hr50 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	36.0	0.0
200.0	33.0	0.0
100.0	30.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	24.0	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)
145	6.0	115.0
200	12.0	115.0
380	24.0	115.0

Comment :

FIELD BLEND

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

LOCATION WATER USED

LONG STRING LEAD 4850' POD = 3:05

Schlumberger

Dowell

CemDABE Cement Test Report

December 31, 1996

DATE OF TEST : 31-dec-1996

TEST NUMBER : NPD693800002

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : CENTRAL VAC UNIT 167

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. : 115.0 F

B.H.C.T. : 104.0 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 : 22.083 lbf/100ft²

P_v : 30.127 cP

Correlation coefficient : 1.000

Thickening Time : 3 hr55 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	52.0	0.0
200.0	42.0	0.0
100.0	32.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	16.0	0.0
3.0	11.0	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	115.0
1800	12.0	115.0
1990	24.0	115.0

Comment :

FIELD BLEND

CLASS H-NEAT

LOCATION WATER USED

LONG STRING TAIL 4850' POD = 2:50