

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.	30-025-33587
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	
7. Lease Name or Unit Agreement Name	WEST VACUUM UNIT
8. Well No.	56
9. Pool Name or Wildcat	GRAYBURG
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	4030'

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 PERMIT (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 O : 100 Feet From The SOUTH Line and 2450 Feet From The EAST Line Section 34 Township 17-S Range 34-E NMPM LEA 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 #467 SPUD 11 INCH HOLE @ 7:00 PM 10-24-96. DRILLED TO 1555'. TD @ 5:00 PM 10-25-96.
- RAN 35 JOINTS OF 8 5/8 INCH, 24#, WC-50, STC CASING SET @ 1555'. 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 @ 5:30 AM 10-26-96. CIRCULATED 161 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 7:00 PM TO 7:30 PM 10-26-96.
- WOC TIME 13-1/2 HOURS FROM 5:30 AM TO 7:00 PM 10-26-96. 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: 1815 PSI.
 - ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 13 1/2 HOURS.
- DRILLING 7 7/8 INCH HOLE.
- DRILLED 7 7/8 INCH HOLE TO 4798'. TD @ 12:00 PM 10-30-96.
- RU SCHLUMBERGER. RAN GR-DLL-MSFL-SONIC AND GR-DSN-SDL-SGR-CAL FROM 4798' TO 2800'. PULLED GR-DSN TO SURFACE.
- RAN 109 JOINTS OF 5 1/2 INCH, 17#, WC-50 -50, LTC CASING SET @ 4800'.
- 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 @ 9:20 AM 10-31-96. CIRCULATED 327 SACKS.
- ND. RELEASE RIG @ 3:30 PM 10-31-96.
- 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. Beahm TITLE Eng. Assistant.

DATE 11/6/96

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

NOV 13 1996



CEMENTING REPORT

File No.: _____

Report Date: _____

Operator: Texaco

Requested By: _____

Lease No: WEST VACUUM UNIT 56Service Point: Hobbs NMLocation: LEA NMType of Job: Surface

Test Conditions:

Depth: 1550 ft., Temp Grad _____, BHST: 90 °F, BHCT: 85 °F

Properties:	Density (ppg)	Yield (cu ft/sk)	Mix Water (gal/sk)	Total Liquid (gal/sk)	Water Source	Cement Source
System No. 1	<u>14.2</u>	<u>1.5</u>	<u>7.45</u>	<u>7.45</u>	<u>LOC</u>	<u>C</u>
System No. 2	<u>14.8</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 + 2 7.51 + 27 D 20System No. 2 C + 2 7.51

System No. 3 _____

System No. 4 _____

Thickening Time Results

Rheology Results

SYSTEM	HR:MIN	SC	300	200	100	60	30	8	3	Plastic Viscosity	Yield Point	RHEOLOGY MODEL	I.O.D.
No. 1	<u>2:53</u>	<u>70</u>	<u>34</u>	<u>31</u>	<u>26</u>			<u>17</u>	<u>16</u>				
No. 2	<u>1:47</u>	<u>70</u>	<u>49</u>	<u>44</u>	<u>40</u>			<u>24</u>	<u>14</u>				
No. 3													
No. 4													

Compressive Strengths - psi

SYSTEM	TEMP.	6 HRS.	12 HRS.	24 HRS.
No. 1	<u>90 °F</u>	<u>825</u>	<u>875</u>	<u>1325</u>
No. 1	°F			
No. 2	<u>90 °F</u>	<u>1050</u>	<u>1390</u>	<u>1750</u>
No. 2	°F			
No. 3	°F			
No. 3	°F			
No. 4	°F			
No. 4	°F			

FLUID LOSS

FREE WATER

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

Remarks: Previous Data

Chemist: _____

Schlumberger

Dowell

CemDABE Cement Test Report

October 29, 1996

DATE OF TEST : 29-oct-1996

TEST NUMBER : NPD676300001

CUSTOMER : TEXACO

FIELD : LEA NM

WELL : WEST VACUUM UNIT 56

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. : 110.0 F

B.H.C.T. : 103.0 F

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

T_y : 22.752 lbf/100ft²

P_y : 12.051 cP

Correlation coefficient : 0.990

Thickening Time : 4 hr45 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	35.0	0.0
200.0	30.0	0.0
100.0	27.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	22.0	0.0
3.0	18.0	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

35/65POZ/H + 6%D20 + 5%D44 + 0.25PPSD29

LOCATION WATER USED

LONG STRING LEAD 4800' POD = 3:30

Schlumberger

Dowell

CemDABE Cement Test Report

October 29, 1996

DATE OF TEST : 29-oct-1996

TEST NUMBER : NPD676300002

CUSTOMER : TEXACO

FIELD : LEA NM

WELL : WEST VACUUM UNIT 56

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. : 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 : 12.860 lb f / 100 ft²

P_y : 49.094 cP

Correlation coefficient : 0.992

Thickening Time : 4 hr35 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	60.0	0.0
200.0	49.0	0.0
100.0	27.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	14.0	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)
525	6.0	110.0
1810	12.0	110.0
2840	24.0	110.0

Comment :

FIELD BLEND

CLASS H-NEAT

LOCATION WATER USED

LONG STRING TAIL 4800' POD = 3:22