

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. 30-025-33434	
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	
7. Lease Name or Unit Agreement Name NEW MEXICO 'N' STATE	
8. Well No.	10
9. Pool Name or Wildcat ATOKA	

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 M 800 Feet From The SOUTH Line and 510 Feet From The WEST Line
Section 30 Township 17-S Range 35-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3989'

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, INT 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 #723 SPUD 14.750 INCH HOLE @ 4:30 AM 05-29-96. DRILLED TO 1500'. TD @ 3 37 AM CDT 05-29-96.
- RAN 36 JOINTS OF 11-3/4 INCH, 42#, WC-40, STC CASING SET @ 1500'. RAN 10 CENTRALIZERS.
- DOWELL CEMENTED WITH 600 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S). F/B 200 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.32 CF/S). PLUG DOWN @ 8:22 PM MDT 05-30-96. CIRCULATED 110 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 1:00 PM TO 1:30 PM 06-01-96.
- WOC TIME 16 HOURS AND 38 MINUTES FROM 8:22 PM MDT 05-30-96 TO 1:00 PM 06-01-96. REQUIREMENTS OF RULE 107, OPTION 2:
1. VOL OF CEMENT SLURRY: LEAD 1044 (CU. FT.), 264 TAIL (CU. FT.) 2. APPROX. TEMP OF SLURRY WHEN MIXED: 50 F.
3. EST. FORMATION TEMP IN ZONE OF INTEREST: 90 F. 4. EST. CEMENT STRENGTH @ TIME OF CASING TEST: 2063 PSI.
5. ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 16 HOURS AND 38 MINUTES. DRILLING 11 INCH HOLE.
- DRILLED 11 INCH HOLE TO 5300'. TD @ 8:15 AM 06-12-96.
- RU SCHLUMBERGER. RUN PLATFORM EXPRESS 5300-2700'. GR-CNL TO SURF.
- RAN 131 JOINTS (5307') OF 8 5/8 INCH, 32# FS-80, LTC CASING SET @ 5300'. RAN 10 CENTRALIZERS.
- DOWELL CEMENTED W/ 1600 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S). F/B 200 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 5:30 PM 06-13-96. CIRCULATED 262 SACKS.
- NU BOP & TESTED TO 1000#. TESTED CASING TO 1500# FOR 30 MINUTES FROM 1:00 PM TO 1:30 PM 06-15-96.
- WOC TIME 43-1/2 HOURS FROM 5:30 PM 06-13-96 TO 1:00 PM 06-15-96. DRILLING 7 7/8 INCH HOLE.
- DRILLED 7 7/8 INCH HOLE TO 11,536'. TD @ 8:45 AM 07-05-96.
- RU SCHLUMBERGER. RAN 1ST RUN: DLL-MSFL-CNL-LDT. 2ND RUN: GR-BCS.
- RAN 26 JTS(1203') OF 5 1/2 INCH, 17#, S-95 & 236 JTS(10333') OF 5-1/2" L-80, LTC CASING SET @ 11,536'. DV TOOL @ 7994'
- DOWELL CEMENTED: 800 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 4% D800, 2% D79, 1/4# FLOCELE (14.2 PPG, 1.94 CF/S). PLUG DOWN @ 2:30 AM 07-08-96. DOWELL CEMENTED 2ND STAGE: 950 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S). F/B 300 SKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2 PPG, 1.35 CF/S). PLUG DOWN @ 10:00 A.M. 07-08-96. BUMPED PLUG AND CLOSED DV TOOL. CIRCULATED 350 SACKS.
- ND. RELEASE RIG @ 4:00 PM 07-08-96. 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. Barham / S.R.H. TITLE Eng. Assistant.

DATE 7/23/96

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



CEMENTING REPORT

Job No. _____ Report Date _____

 Operator: Texaco Requested By: _____
 Case No: Nm N State #10 Service Point: HUN
 Location: Lee NM Type of Job: Surface

Test Conditions:

 Air: 150.0 °F. Temp Grad: _____ BRST: 90 °F. SHOT: 85 °F.

Properties:	Density (ppg)	Yield (cu ft/sk)	Mix Water (gal/sk)	Total Liquid (gal/sk)	Water Source	Cement Source
stem No. 1	<u>12.5</u>	<u>1.74</u>	<u>9.11</u>	<u>9.11</u>	<u>Loc</u>	<u>C</u>
stem No. 2	<u>14.8</u>	<u>1.22</u>	<u>6.32</u>	<u>6.32</u>	<u>Loc</u>	<u>C</u>
stem No. 3						
stem No. 4						

Ment System Compositions:

 stem No. 1: C + 42 D20 + 27.51
 stem No. 2: C + 27.51
 stem No. 3: _____
 stem No. 4: _____

Mixing Time Results

Rheology Results

SYSTEM	W-B-MIN	SC	200	200	100	50	25	5	3	PV (cp)	TYP (X)	REM (CST)	NO. 2
No. 1	<u>3:40</u>	<u>70</u>	<u>36</u>	<u>31</u>	<u>27</u>	<u>22</u>	<u>17</u>	<u>14</u>	<u>12</u>				
No. 2	<u>2:10</u>	<u>70</u>	<u>40</u>	<u>36</u>	<u>31</u>	<u>26</u>	<u>20</u>	<u>17</u>	<u>14</u>				
No. 3													
No. 4													

Compressive Strengths - psi

SYSTEM	TEMP.	6 HRS.	12 HRS.	24 HRS.
No. 1	<u>90</u> °F	<u>250</u>	<u>500</u>	<u>800</u>
No. 1	°F			
No. 2	<u>90</u> °F	<u>600</u>	<u>1400</u>	<u>2000</u>
No. 2	°F			
No. 3	°F			
No. 3	°F			
No. 4	°F			
No. 4	°F			

FLUID LOSS

FRESH WATER

SYSTEM	°F.	25'	°F.
	ML/20 min		ML
No. 1			
No. 2			
No. 3			
No. 4			

Remarks:

Previous Data

Schlumberger**Dowell****CemDABE Cement Test Report**

June 8, 1996

DATE OF TEST : 08-jun-1996

TEST NUMBER : NPD640300001

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : NM N STATE 10

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 ft³/sk

ADDITIVES		
Code	Concent.	Unit
D020	6.000	% BWOC
D029	0.280	% BWOC
D044	5.000	% BWOW

B.H.S.T. : 113.0 F

B.H.C.T. : 106.0 F

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 25.764 \text{ lbf}/100 \text{ ft}^2$ $P_v : 10.544 \text{ cP}$

Correlation coefficient : 0.997

Thickening Time : 7 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	36.0	0.0
200.0	33.0	0.0
100.0	29.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	15.0	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)
154	6.0	113.0
255	12.0	113.0
355	24.0	113.0

Comment :

FIELD BLEND

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

LOCATION WATER USED

INTERMEDIATE LEAD 5300' POD = 3:45

Schlumberger

Dowell

CemDABE Cement Test Report

June 8, 1996

DATE OF TEST : 08-jun-1996

TEST NUMBER : NPD640300002

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : NM N STATE 10

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. : 113.0 F

B.H.C.T. : 106.0 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 : 27.102 lbf/100 ft²

P_y : 16.570 cP

Correlation coefficient : 0.988

Thickening Time : 5 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	44.0	0.0
200.0	37.0	0.0
100.0	33.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	19.0	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)
556	6.0	113.0
1766	12.0	113.0
2586	24.0	113.0

Comment :

FIELD BLEND

CLASS H NEAT

LOCATION WATER USED

INTERMEDIATE TAIL 5300'

Schlumberger**Dowell****CemDABE Cement Test Report**

July 3, 1996

DATE OF TEST : 03-jul-1996

TEST NUMBER : NPD646800001

CUSTOMER : TEXACO

CEMENT

FIELD : LEA NM

Class : H

WELL : NM N STATE 10

Blend : 5050

Brand : LONESTAR

Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal

Volume : 6.17 gal/sk

Type : LO

Total liquid : 6.17 gal/sk

SLURRY

Density : 14.20 lb/gal

Yield : 1.34 ft³/sk

ADDITIVES		
Code	Concent	Unit
D020	2.000	% BWOC
D029	0.270	% BWOC
D044	5.000	% BWOW
D079	0.200	% BWOC
D800	0.400	% BWOC

B.H.S.T. : 175.0 F

B.H.C.T. : 142.0 F

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 15.391 \text{ lbf}/100\text{ft}^2$ $P_v : 19.582 \text{ cP}$

Correlation coefficient : 0.999

Thickening Time : 4 hr 2 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	35.0	0.0
200.0	28.0	0.0
100.0	22.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	14.0	0.0
3.0	12.0	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)
104	5.0	175.0
730	12.0	175.0
1356	24.0	175.0

Comment :

FIELD BLEND

50/50 POZ/H + 2% D20 + 5% D44 (BWOW) + 0.2% D79 + 0.4% D800 + 0.25PPS D29

LOCATION WATER USED

LONG STRING 1ST STAGE 11550' POD = 1:46

Schlumberger**Dowell****CemDABE Cement Test Report**

July 6, 1996

DATE OF TEST : 06-jul-1996

TEST NUMBER : NPD646800002

CUSTOMER : TEXACO
 FIELD : LEA NM
 WELL : NM N STATE 10

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

BASE FLUID

Density : 8.32 lb/gal
 Volume : 11.80 gal/sk
 Type : LO
 Total liquid : 11.80 gal/sk

SLURRY

Density : 12.40 lb/gal
 Yield : 2.14 ft³/sk

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

B.H.S.T. : 144.0 F

B.H.C.T. : 121.0 F

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 4.456 \text{ lbf}/100\text{ft}^2$ $P_o : 11.057 \text{ cP}$

Correlation coefficient : 0.992

Thickening Time : 7 hr30 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	16.0	0.0
200.0	11.0	0.0
100.0	8.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	5.0	0.0
3.0	4.0	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)
100	6.0	144.0
325	12.0	144.0
485	24.0	144.0

Comment :

FIELD BLEND

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

LOCATION WATER USED

LONG STRING 2ND STAGE LEAD 8000' POD = 5:20

Schlumberger**Dowell****CemDABE Cement Test Report**

July 7, 1996

DATE OF TEST : 07-jul-1996

TEST NUMBER : NPD646800003

CUSTOMER : TEXACO
 FIELD : LEA NM
 WELL : NM STATE 10

CEMENT
 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 ft³/sk

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

B.H.S.T. : 144.0 F

B.H.C.T. : 121.0 F

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 20.075 \text{ lbf}/100 \text{ ft}^2$ $P_y : 21.089 \text{ cP}$

Correlation coefficient : 0.971

Thickening Time : 3 hr 2 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	42.0	0.0
200.0	32.0	0.0
100.0	28.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	17.0	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)
125	6.0	144.0
695	12.0	144.0
1150	24.0	144.0

Comment :

FIELD BLEND

50/50POZH + 2%D20 + 5%D44(BWOW) + 0.25PPSD29

LOCATION WATER USED

LONG STRING 2ND STAGE TAIL 8000' POD = 2:01