DISTRICT I

<u>District II</u>

P.O. Box 1980, Hobbs, NM 88241-1980

P.O. Box Drawer DD, Artesia, NM 88211-0719

State of New Mexico Energy, Minerals and Natural Resources Department

Revised February 10,1994

Instructions on back

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III						P.O. Box 2088				State Lease - 6 Copies		
1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV						Santa Fe, New Mexico 87504-2088					Fee Lease - 5 Copies	
P.O. Box 208	8, Santa Fe,	NM 67	504-200	38				MEC	PEMER			ED REPORT
	APF	PLICAT	TION I	FOR PER	MIT T	O DRILL, RE-EI	NTER,	DEEPEN, PI	UGBACK, OR			
	<u> </u>		¹ Ope	rator Name a	and Add	iress		-		2		D Number
TEXACO EX	TEXACO EXPLORATION & PRODUCTION INC.							JUL	1 5 1997			2351
P.O. Box 31	09, Midland	i Texas	79702						**	3	API No	
								CIL C	OM. DI	130-c	15 -	29728
4 p	roperty Cod	•					perty Nan		187. 2		° W	eli No.
	10920						N DRAV	7 01111	, t (, , , , , , , , , , , , , , , , , ,			84
						Surface					1	
UI or lot no.	Section	Towr	•	Range	Lot.ld	• •	he No	orth/South Line	Feet From The	East/West EAST		County EDDY
	2	25	<u>-s</u>	31-E		2615		SOUTH	1160	EASI		
				⁸ Propos	sed Bo	ottom Hole Loca	tion If (Different From	n Surface			
UI or lot no.	Section	Town	nship	Range	Lot.kd	n Feet From T	he No	orth/South Line	Feet From The	East/West	Line	County
			roposed			C			¹⁰ Proposed Por	2 k		
		PAC	UCA, D	EVONIAN,	VW.	96615						
11					- 1	13		14 .		15 0	41	.1.51
	Type Code	'		WellType C	ode	Rotary or C.T.		14 Lease Type Code S		¹⁶ Ground Level Elevation 3455'		
16 Mult	N :-!-		17	Proposed De	nth	18 Formation		19 Contractor		20 Spud Date		
ì	io ibie	1		17000'	, ,,,	DEVONIAN		NABORS		8/20/97		
					21 5			nort Decem		_		
		_				posed Casing a	_			F CEMENT	Ι .	EST. TOP
SIZE OF	F HOLE			CASING	-		SETTING DEPTH		1575 SACK			
24		18 5/			87.54				3250 SACKS		SURFACE	
17 1/2		13 3/ 9 5/8			68#	53.5#	12000	,	3700 SACK	iono -		
8 1/2		+	LINER		39#	33.37	14700'		600 SACKS)'
6 1/2		5 1/2			20#		16400'		500 SACKS			
22 Describe the	proposed prog	yrem. If t	his applica	etion is to DEEP	EN or PLI	JG BACK give the data o	n the prese	nt productive zonea	nd proposed new produ	tive zone.		
	blowout preve	ention pro 4" LIN		my. Use additio	nel sheet 11#	s if necessary.	17000		200 SACKS	1610	ď	
4 5/8												
SEE ATTAC	HED: CAS	SING P	ROGRA	M, CEMEN	T PROC	GRAM, MUD PROG	RAM, A	ND BOP PROG	RAM. ρ_c	sted	ID	7-/
UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (COPY ATTACHED)												
lana a a a a a a a a a a a a a a a a a a												
18 Hours WOC on All Casing Strings. 7-25-97												
NSL	A			An	5 t c U	ect 7-18	3-97)			_	
23	23 hereby certify that the rules and regulations of the Oil Conservation OIL CONSERVATION DIVISION											
	•		-	re information g		•		OIL (CONSERVA	וטאטוי	AIOIA	JI4
is true and complete to the best of my knowledge and belief.												

Approved By: Sim W. Seem

Title: District Sepensor) BGA Signature Printed Name C. Wade Howard Approval Date: Title Eng. Assistant Conditions of Approval: 7/14/97 Date Telephone 688-4606

DISTRICT 1
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II P. O. Drawer OD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

Property Code (09 20 'OGRID No. 22351

DISTRICT IV P. O. Box 2088, Santa Fe, NM 87504-2088

API Number

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

Instructions on back

ION DIVISION

Submit to Appropriate District Office

State Lease-4 copies Fee Lease-3 copies

MENDED REPORT

3455

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088

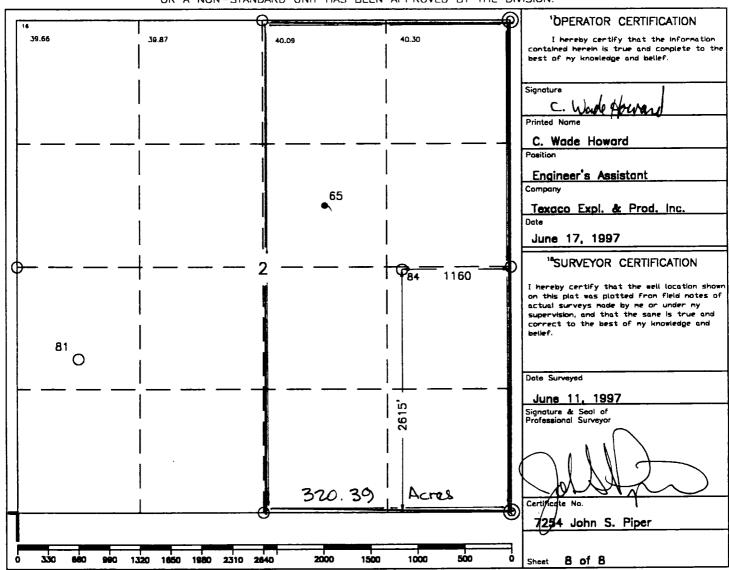
WELL LOCATION AND ACREAGE DEDICATION PLAT

² Pool Code		³ Pool Name	
	Paduca, Devonian		
-	⁵ Property Name		⁶ Well Number
C	otton Draw Unit		84
 	SOperator Name		g Elevation

L or lot no.	Section 2	Township 25-S	Range 31—E	Lot Idn	Feet from the 2615'	North/South line South	Feet from the	East/West line East	County Eddy
JL or lot no.	Section	Township	11 B Range	Lot Idn	Feet from the	North/South line	Surface Feet from the	East/West line	7County
Dedicated Acres	13 Joi	nt or Infill	¹ Consolic	lation Code	¹⁵ Order No.	<u> </u>	<u> </u>	<u> </u>	L <u>.</u>

TEXACO EXPLORATION & PRODUCTION, INC.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



COTTON DRAW UNIT No. 84

CASING PROGRAM:

All casing will be new.

Surface Casing: 24" Hole

18 5/8", 87.5#, J-55, BTC, set @ 700'
Centralize the bottom 3 joints and every 4th to Surface.

Intermediate I Casing: 17 1/2" Hole

13 3/8", 68#, N-80, BTC, set @ 4500' Centralize the bottom 3 joints.

Intermediate II Casing: 12 1/4" Hole

9 5/8", 53.5#, P-110, LTC, from Surface to 7000' and from 10000' to 12000'

9 5/8', 47#, P-110, LTC from 7000' to 10000'

DV Tool @ 8500'. Centralize the bottom three joints and above & below the DV Tool and two baskets below the DV.

Drill Liner: 8 1/2" Hole

3000' of 7 5/8", 39#, P-110, SLX, set @ 14700'. Top of Liner @ 11700'. Centralize Liner with Turbulators. One per joint.

Production Casing: 6 1/2" Hole

5 1/2", 20#, P-110, SLX, set @ 16400'. Centralize bottom three joints.

Production Liner: 4 5/8" Hole

900' of 4", 11#, P-110, SLX set at 17000'. Top of Liner @ 16100'. Centralize Liner with Turbulators. One per joint.

COTTON DRAW UNIT No. 84

CEMENT PROGRAM:

Surface Casing: 1200 sacks Class C w/ 2% gel (14.2 ppg, 1.5 cf/s, 7.4 gw/s). Tail with 375 sacks Class C (14.8 ppg, 1.32 cf/s, 6.3 gw/s). Top of Cement: Surface.

Intermediate I Casing: 3000 sacks 35/65 Poz H w/ 6% gel, 5% salt,
1/4# FC (12.8 ppg, 1.94 cf/s, 10.5 gw/s). Tail with 250 sacks Class H
(15.6 ppg, 1.18 cf/s, 5.2 gw/s).
Top of Cement: Surface.

Intermediate II Casing: 1st Stage - 1200 sacks 50/50 Poz H w/ 2% gel,
5% salt, 1/4# FC (14.2 ppg, 1.35 cf/s, 6.3 gw/s). Tail with 250 sacks
Class H (15.6 ppg, 1.18 cf/s, 5.2 gw/s).
DV Tool @ 8500': 2nd Stage - 2000 sacks 50/50 Poz H w/ 2% gel, 5%
salt, 1/4# FC (14.2 ppg, 1.35 cf/s, 6.3 gw/s). Tail with 250 sacks
Class H (15.6 ppg, 1.18 cf/s, 5.2 gw/s). Top of Cement: 3000'.

Drill Liner: 600 sacks Gas Block (15.6 ppg, 1.2 cf/s, 3.31 gw/s).
Top of Cement: 11700'.

Production Casing: 500 sacks Gas Block (15.6 ppg, 1.2 cf/s, 3.31
gw/s).
Top of Cement: 11000'.

Production Liner: 200 sacks Gas Block (15.6 ppg, 1.2 cf/s, 3.1 gw/s).
Top of Cement: 16100'.

MUD PROGRAM:

<u>Depth</u>	Type	<u>Weight</u>	<u>Viscosity</u>
0'-700'	Fresh Water	8.4	28
700'-4500'	Brine Water	10.0	29
4500'-12000'	Fresh Water	8.4	28
12000'-14700'	Lime/Morex	13.5-15.3	40-60
14700'-16400'	Lime/Morex	10.6-12	40-60
16400'-17000'	Fresh Water	8.4	28

COTTON DRAW UNIT No. 84 PRESSURE CONTROL EQUIPMENT:

<u>17-1/2" Hole</u>

A 3000 psi Dual Ram type preventer with rotating head will be used. (See Exhibit C). We do not plan to have an annular preventer. We will be able to achieve full closure of the well with the double ram preventer. It will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and at least every 29 days, and operated at least once each 24-hour period during drilling.

A PVT system will not be installed. We will be drilling thru the reserve pit and will circulate the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

We do not plan to run an automatic remote-controlled choke. We will have installed and tested two manual, H2S trimmed, chokes.

12-1/4" Hole

A 5000 psi Dual Ram type preventer, annular preventer with rotating head will be used (See Exhibit F-1). The BOP will be tested at least every 29 days and operated at least once each 24 hour period during drilling.

A PVT system will not be installed. Drilling fluid will be circulated through the reserve pit and also will be circulated through the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

An automatic remote-controlled choke will not be used. Texaco will install and test two manual, H2S trimmed chokes.

8-1/2" Hole

A 10,000 psi single pipe ram preventer, dual Ram type preventer, single blind ram preventer, annular preventer with rotating head will be used (See Exhibit G). The BOP will be tested at least every 29 days and operated at least once each 24 hour period during drilling.

A PVT system will be installed. Drilling fluid will be circulated through the steel pits on a continuous basis. An automatic remote-controlled choke will be used.

6-1/2" & 4 5/8" Hole

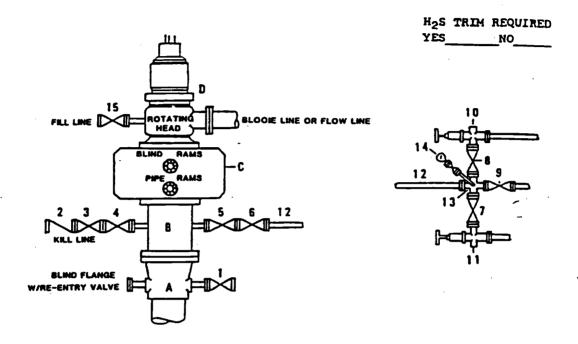
A 10,000 psi single pipe ram preventer, dual Ram type preventer, single blind ram preventer, annular preventer with rotating head will be used (See Exhibit G). The BOP will be tested at least every 29 days and operated at least once each 24 hour period during drilling.

A PVT system will be installed. Drilling fluid will be circulated through the steel pits on a continuous basis. An automatic remotecontrolled choke will be used.

DRILLING CONTROL CONDITION II-B 3000 WP

A COMPANY OF THE PROPERTY OF T

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED



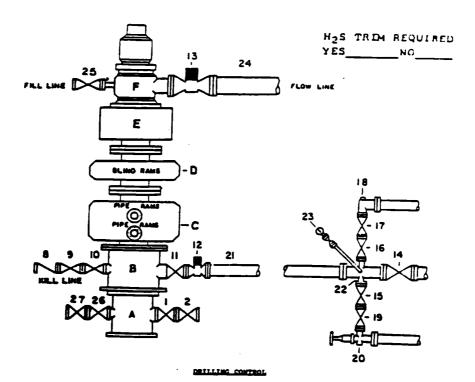
DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

A	Texaco Wellhead
в .	30000 W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
c	3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized).
D	Rotating Head with fill up outlet and extended Blooie Line.
1,3,4, 7,8,	2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
2	2" minimum 3000# W.P. back pressure valve.
5,6,9	J" minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
12	3" minimum schedule 80, Grade "B", seamless line pipe.
13	2" minimum x 3" minimum 3000% W.P. flanged cross.
10,11	2" minimum 3000# W.P. adjustable choke bodies.
14	Cameron Mud Gauge or equivalent (location optional in choke line). $ \\$
15	2" minimum 1000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

				11	IEXACO, INC.	T)
SCALE	DATE	EST NO.	DRG. NO	}		
DRAWN BY				1	EXHIBIT C	
CHECKED BY	. 1]			EXIIISII	
APPROVED BY]		<u> </u>		

DRILLING CONTROL CONDITION Y-B - 10,000 PSI WP



MATERIAL LIST - CONDITION V-B

- Texaco Wellhood
- 18,0008 W.P. Drilling Speel with a minimum 2" flanged outlet for kill line and 4" minimum flanged outlet for choke line
- 16,000; W.P. Dual Variable Ram Type preventer, hydraulic operated with 1" steel, 5000; M.P. central line c
- 10,000; M.P. Single Ban Type proventor, hydraulic operated with 1° steel, 5000; M.P. control lines
- 10,0005 W.P. Annular preventor, hydraulic operated with 1° steel, 50000 W.P. control lines z
- then required Retating Head with fill up outlet and extended Sleete line
- 1.2.9.10, 2^{α} minimum 10,0005 W.P. flanged full opening steel gate 15,16.17, valve, or Helliburton Le Torc Plug valva 18,26,27
- 2" minimum 10,0006 M.P. book pressure valve
- 11,14 4" minimum 10,0005 W.P. flanged full opening steel gate valva
- 12 4" Minimum 18,0000 W.P. flanged full opening hydraulic valve
- 13 Bon required - 10° minimum 10000 W.F. flamped full Spening hydraulic valve
- 21
- 4" Binimus 10,0000 W.P. 4130 mechanical tubing with flanged ends, or equivalent
- 22 2" minimum X 4" minimum 10,0000 W.P. flanged cross 2" Siminus 10,000# W.P. automotic choke
- 2" minimum 10,0009 M.P. adjustable chake equipped with darbide trim
- Cameron Mud Gauge or equivalent (location in chake line optional)
- When required 10" steel flow line
- 2" minimum 1000; W.P. flamped or threaded full opening steel gate valve or Heiliburton Lo Torc plug valve



TEXACO, INC. ------



SCALE:	DATE	EST NO	-
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Texaco Exploration and Production Inc

500 North Loraine Midiane TX 79701 P O Box 3109 Midland TX 79702

July 3, 1997

GOV - STATE AND LOCAL GOVERNMENTS
Unorthodox Location
Cotton Draw Unit Well No. 84
Paduca (Devonian) Field
Eddy County, New Mexico

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

An Exception to Rule 104 F. III, by administrative approval, is requested for the captioned well. This well is located 2615' FSL & 1160' FEL, Unit Letter "I", of Section 2, T-25-S, R-31-E.

This well must be drilled in this location due to geological conditions. As seen on the attached map, structural closure on the Devonian horizon is centered in the SE/4 of Section 2. The proposed location is positioned to drill near the top of the structural closure, and as far from the currently producing CDU No. 76, while taking maximum advantage of indicated karst reservoir as interpreted from seismic data. Production from similar Devonian fields, Chapman Deep and Vermejo Moore Hooper, demonstrate the need to encounter the Devonian structurally high and in a location of good reservoir development to improve reservoir conditions.

Texaco Exploration & Production, Inc. is the Lessee of Record of the affected adjoining and diagonal spacing units. Attached is Form C-102.

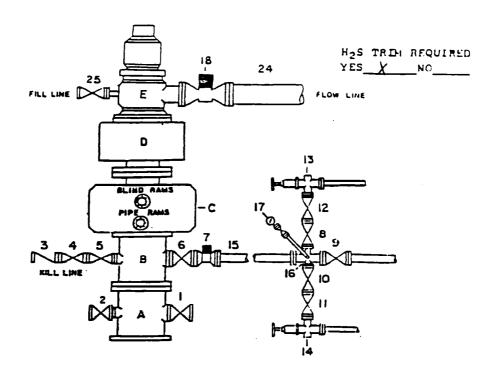
Yours very truly,

c. Wade Howard

C. W. Howard Engineer Assistant

CWH Attachments cc: OCD, Atresia

DRILLING CONTROL CONDITION TY-B-5000 PSI WP



DRILLING CONTROL

MATERIAL LIST - CONDITION IV - B

	Towns the NAME of the Control of the
A	Texaco Wellhead
•	S0000 W.P. drilling spool with a minimum 2" flanged outlet for kill line and 3" minimum flanged outlet for choke line.
c	50009 W.P. Duel ram type preventer, hydraulic operated with 1° steel, 50009 W.P. control lines.
0	50008 W.P. Annular preventer, hydraulic operated with 1° steel, 30008 W.P. control lines.
E	Rotating Head with fill up outlet and extended Bloose line.
1,2,4,5, 8,10,11. 12	2" minimum 50000 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
3	2" minimum 5000\$ W.P. back pressure valve.
4,9	3" minimum 5000\$ W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
7	3" minimum 50000 W.P. flanged hydraulic valve
15	3" minimum Schedule 160, Grade B, seemless line pipe
16	2" minimum x 3" 50000 W.P. flanged cross
13,14	$2^{\prime\prime\prime}$ minimum 50000 W.P. adjustable chokes with carbide trim.
17	Cameron Mud Gauge or equivalent (location in choke line optional).
10	6" minimum 1000\$ hydraulic flanged valve.
24	8° minimum steel flow line.
25	2" minimum 10000 W.P. flanged or threaded fill opening steel gate valve, or Malliburton to Torc Plug valve.



TEXACO, INC



SCALE	DATE	EST NO	
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