Form 3160-3 (December 1990)	DEFARIMEN		1.	10 1000 10240 10240			
SUBMIT IN TRIPLICATE	BUREAU OF L	POOL (1000	1-101.		pires: December 31, 1991		
		EFF. DATE		-	nation and Serial No.		
			025-33704	the second se	ttee or Tribe Name		
APPLIC	ATION FOR PE	·					
1a. Type of Work DRILL 1b. Type of Well	DEE DEE	PEN	57	7. If Unit or CA	, Agreement Designation		
	THER	SINGLE ZONE 🛛	8. Well Name a				
2. Name of Operator					AW 6B FEDERAL		
T	EXACO EXPLORA	TION & PRODUCTIO	N INC.	1			
3. Address and Telephone No. P	P.O. Box 3109, Midla	and Texas 79702	688-4606	9. API Well No.			
4. Location of Well (Report locati At Surface Unit Letter B : 660 Fee	·	ordance with any State	requirements.*) Feet From The EAST Line		ool, Explortory Area AWARE/BONE SPRINGS		
Unit Letter B : 660 Fee At proposed prod. zone				11. SEC., T., R., M., or BLK. and Survey or Area			
	S/	ME	•	Sec. 6,	Township 25-S Range 32-E		
14. Distance In Miles and Direction f		Post Office* XF LOVING, NM		12. County or F	Parish 13. State NM		
15. Distance From Proposed* Locat	tion to Nearest Property	y or	16. No. of Acres in Lease		Assigned To This Well		
Lease Line, Ft. (also to nearest drig.		660'	1882.6		40.35		
18. Distance From Proposed Locatie Completed or Applied For, On This		rilling, N/A	19. Proposed Depth 12000'	20. Rotary or Cable Tools ROTARY			
21.Elevations (Show whether DF,RT		-3472'			22. Approx. Date Work Will Start* 12/15/96		
23.			ING AND CEMENT PROG				
	DE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT			
	, 11 3/4	42#	4500'	420 SACKS -	- CIRCULATE		
11 WC50, 7 7/8 L80, 5	, 8 5/8	32#	12000'		- TOC @ 3000'		
CEMENTING PROGRAM: SURFACE CASING - 300 SAC CF/S, 6.3 GW/S). INTERMEDIATE CASING - 100 SACKS CLASS H (15.6 PPG, 1. PRODUCTION CASING - 1st ST H (15.6 PPG, 1.18 CF/S, 5.2 GV DV TOOL @ 8500' - 2nd STG: 1 SACKS CLASS H (15.6 PPG, 1.	0 SACKS 35/65 PO .18 CF/S, 5.2 GW/S TG: 550 SACKS 50/ N/S) 1050 SACKS 50/50	Z CLASS H W/ 6% G ). 50 POZ H w/ 2% GEL POZ CLASS H W/ 2%	EL, 5% SALT, 1/4# FLOCELE ( , 5% SALT, 1/4# FC (14.2 PPG	12.8 PPG, 1.94 ( , 1.35 CF/S, 6.3 (	CF/S, 10.5 GW/S). F/B 200 GW/S). F/B 200 SACKS CLASS		
THERE ARE NO OTHER OPE	RATORS IN THIS Q	UARTER QUARTER	SECTION.				
to drill or deepen directionally, gi	ive pertinent data on	sal is to deepen, give d subsurface locations a	ata on present productive zone a nd measured true verticle depths.	nd proposed new Give blowout pr	productive zone. If proposal is reventer program, if any.		
24. I hereby certify that the foregoing is true a SIGNATURE	and connect	TITLE E	ng. Assistant		DATE 11/5/96		
TYPE OR PRINT NAME	C. Wade I	Howard					
(This space for Federal or State office use)							
PERMIT NO				به د الناد م الماليسين	li		
Application approval does not warrant or APPROVED BY	r centry that the applicant		to those rights in the subject lease which <u>ADM, MINEBA</u>		DATE //		
Title 18 U.S.C. Section 1001, makes it a representations as to any matter within it		wingly and willfully to make	to any department or agency of the Units	d States any false, fic	titious or fraudulent statements or		

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

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

DISTRICT III 1000 Rio Brozos Rd., Aztec, NN 87410

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

#### State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

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State Lease-4 copies Fee Lease-3 copies

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

	PI Number		Τ	<sup>2</sup> Pool Code				1 -		<sup>3</sup> Poo	Name		
<u>30-02</u> Property Cod		33704 L Wildcat, Delaware/ Bone Springs								5 Minii Alumeta			
フクアつし	ŭ			Cotton Draw 6B Federal									<sup>5</sup> Well Number 1
OGRID No.	<u> </u>			<u>.</u>		perator N							9 Elevation
22351				TEXACO	EXPLOR	ATION	& PR(	DUCTION	, INC.				3472'
					<sup>10</sup> Sur	façe L	ocatio	n			I		
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14Dedicated Acres	s 13 Jo	oint or Infill	<sup>1</sup> Consolid	ation Code	<sup>15</sup> Order N	D.	L				<b>I</b>		
40.35													
NO ALL	OWABLE	WILL BE	ASSIGNE	D TO THIS	S COMPL	ETION	UNTIL	ALL INTE	ERESTS F	IAVE	BEEN CONS	OLIDAT	ED
		OR	A NON-	STANDARE	UNIT H	AS BE	EN AF	PROVED	BY THE	DIVIS	SION.		
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<b>P</b>											correct to the bi belief.	EDI OF M	y knowledge and
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#### DRILLING PROGRAM

### COTTON DRAW 6B FEDERAL WELL NO. 1

#### SURFACE DESCRIPTION:

The land surface in this area is relatively level with small sand dunes. Regionally, the land slopes to the South. Vegetation consists mainly of shin oak, sand sage, broom-snake weed, mesquite, and range grasses.

FORMATION TOPS: Estimated KB Elevation: 3490'

Formation	<u>Depth</u>	Lithology	<u>Fluid Content</u>
Rustler Salado Castile Base of last Salt	600' 1000' 2800' 4100'	Sand, Shale Salt Anhydrite Salt Limestone	   Marker
Lamar Manzaita Brushy Canyon Brushy Canyon - Pay Bone Spring Wolfcamp	4350' 5518' 6987' 7100' 9450' 11900'	Limestone Limestone Sandstone, Shale Sandstone Limestone	Oil/Gas Marker Marker

The base of the salt section is found around 4100'. No abnormal temperatures or hazardous gases are anticipated to be encountered in this well. The Bottom Hole Pressure is estimated to be 8.3 PPG EMW (5200 PSI).

\_ . . .

Duration	of	Operati	on: 3	35	Days	to	Drill
		-		10	Days	to	Complete

#### PRESSURE CONTROL EQUIPMENT:

#### 14 3/4" & 11" Hole

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.

7 7/8" 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.

#### CASING & CENTRALIZER PROGRAM:

All casing will be new.

Surface Casing: 14 3/4" Hole

11 3/4", 42#, WC-40, LTC, set @ 700' Centralize the bottom 3 joints and every 4th to Surface.

Intermediate Casing: 11" Hole

8 5/8", 32#, WC-50, LTC, set € 4500' Centralize the bottom 3 joints.

Production Casing: 7 7/8" Hole

5 1/2", 17#, L-80, LTC, set @ 12000' DV Tool @ 8500'. Centralize the bottom three joints and above & below the DV Tool and two baskets below the DV.

#### MUD PROGRAM:

Depth	Туре	Weight	<u>Viscosity</u>
0'-700'	Fresh Water	8.4	28
700'-4500'	Brine Water	10.0	29
4500'-12000'	Fresh Water	8.4	28

#### LOGGING, TESTING:

GR-CAL-CNL-LDT-PIL, BHC, and CMR surveys will be run.

A two-man Mud Logging Unit will be used from 4500' to 12000'.

No Drill Stem Tests are planned.

Sidewall Cores (40) are planned for the Bone Springs.

# DRILLING CONTROL CONDITION II-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED





H2S TRIM REQUIRED

NO

YES  $\lambda$ 

#### DRILLING CONTROL

#### MATERIAL LIST - CONDITION II - B

Texaco Wellhead

A

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D

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15

- 30006 W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- 3000f W.P. Dual ram type preventer, hydraulic operated with 1° steel, 3000f W.P. control lines (where substructure height is adequate, 2 - 3000f W.P. single ram type preventers may be utilized).
- Rotating Head with fill up outlet and extended Blooie Line.
- 1,3,4, 2" minimum 3000\$ W.P. flanged full opening steel gate 7,8, valve, or Halliburton Lo Torc Plug valve.
  - 2" minimum 3000\$ W.P. back pressure valve.
- 5,6,9 J" minimum 1000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
  - )" minimum schedule 80, Grade "B", seamless line pipe.
  - 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).
  - 2" minimum 3000\$ W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

TEXACO, INC.

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					MIBLARD, TELAS	<b>1</b>
SCALE	DATE	EST NO.	DRG NO			
DRAWN BY					EXHIBIT C	
CHECKED BY						
APPROVED BY		 		1		



## SURFACE USE AND OPERATIONS PLAN

FOR

TEXACO EXPLORATION AND PRODUCTION, INC.

COTTON DRAW 6B FEDERAL NO. 1

660' FNL & 1980' FEL, SECTION 6,

TWP. 25 SOUTH, RANGE 32 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO

LOCATED: 30 miles Southeasterly of Loving, New Mexico and 34 miles Southwesterly of Jal, New Mexico

FEDERAL LEASE NUMBER: NM192742

LEASE ISSUED: Lease is in a producing status.

ACRES IN LEASE: 1882.6

RECORD LESSEE: TEXACO EXPLORATION AND PRODUCTION, Inc.

SURFACE OWNERSHIP: USA

<u>GRAZING PERMITTEE:</u> B. & B. Cattle Co. Attn: J. F. Hervella El Paso, Texas

POOL: Wildcat, Delaware/ Bone Springs

<u>POOL RULES:</u> Field Rules are for no wells to be located closer than 330' to any quarter-quarter section and to be 330' from the lease line.

EXHIBITS: A. Access Road and Facilities Map

B. Drilling Rig Layout Diagram

C. Well Location and Acreage Dedication Plat

Surface Use & Operation Plan, Cotton Draw 6B St #1, 10/29/96, Pg. 2

## 1. EXISTING ACCESS ROADS

A. Exhibit "A" is an enlarged portion of a 7.5 minute U.S.G.S. topographic map showing the proposed well site and the existing roads in the area. Point "A" is the intersection of an existing resource road with Lea County Road No. 1. Said intersection is 5.7 miles South of its intersection with State Highway 128 which is 30 miles West of Jal, New Mexico and 32 miles East of Loving, New Mexico. Point "A" is 9.7 miles North of the Texas-New Mexico State line. From Point "A" go 0.9 miles West, then 0.1 miles North, then 1.15 miles West, then 0.8 miles North, then 1.0 mile West, crossing the Lea-Eddy County line, continuing for a total distance of 2.0 miles, then 1.9 miles North, then 0.35 miles Westerly and 0.40 miles North to Point "B", the beginning of the proposed resource road to be constructed for the Cotton Draw 32K State No. 1 as shown on Exhibit "A", and then 2.0 miles East to Point "C" the beginning of the proposed resource road.

#### 2. PLANNED RESOURCE ROAD

A. Length and Width: From Point "C" as shown on Exhibit "A", a new 14 foot wide Resource Road will be approximately 530 feet South to the proposed well location (Shown in red on Exhibit "A") with access at the Northeast corner of the proposed well pad, as shown on Exhibits "A" and "B".

B. <u>Surfacing Material:</u> Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded.

C. <u>Maximum Grade</u>: An approximate grade of less than one percent will be encountered descending from Point "B" to the proposed well pad.

D. <u>Turnouts:</u> Turnouts will not be required.

E. <u>Drainage Design</u>: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed as required.

F. Culverts: None required.

G. <u>Cuts and Fills</u>: A slight amount of leveling will be required as the road crosses several small size sand dunes to the proposed well pad.

H. Gates and Cattle Guards: None will be required.

#### 3. LOCATION OF EXISTING WELLS

A. Existing wells on the lease and in the immediate area are shown on Exhibit "A".

Surface Use & Operation Plan, Cotton Draw 6B St #1, 10/29/96, Pg. 3

#### 4. LOCATION OF EXISTING AND PROPOSED FACILITIES

A. The oil, gas, and/or water that this well produces will be stored at the proposed tank battery to be constructed on the proposed well site as shown on Exhibits "A" and "B".

B. No electrical service is anticipated at this time.

### 5. LOCATION AND TYPE OF WATER SUPPLY

A. It is not contemplated that a water well would be drilled. Water necessary for drilling operations will be purchased and trucked to the well site or will be transported to the well site by a temporary pipeline laid on the ground along side existing and proposed roads.

### 6. SOURCE OF CONSTRUCTION MATERIALS

A. Caliche needed for the road and well pad will be taken from the proposed borrow pit located within the 400 x 400' archaeologically cleared tract at the proposed well site (See Exhibit "B" for location). If sufficient quality or quantity of caliche is not available, it will be transported to the proposed road and well site from the existing pit in the NW/4 of the NE/4 of Section 2, T-25-S, R-31-E, by the existing and proposed resource road.

#### 7. METHOD OF HANDLING WASTE DISPOSAL

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

C. Water produced during tests will be disposed of at commercial or company facilities.

D. Oil produced during tests will be stored in test tanks until sold.

E. Trash, waste paper, garbage and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion of operations. All waste material will be contained to prevent scattering by the wind.

#### 8. ANCILLARY FACILITIES

A. None required.

Surface Use & Operation Plan, Cotton Draw 6B St #1, 10/29/96, Pg. 4

### 9. WELL SITE LAYOUT

A. Exhibit "B" shows the relative location and dimensions of the well pad, mud pits, borrow pit, and the location of the major rig components.

B. Cut and Fill requirements will be minor, but clearing and leveling of the well site will be necessary.

### 10. PLANS FOR RECLAMATION OF THE SURFACE

A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special reclamation and/or special revegetation requirements of the Surface Management Agency will be complied with and will be accomplished as rapidly as possible.

### 11. OTHER INFORMATION

A. <u>Topography:</u> The land surface in the area of the well is relatively level with small to moderate sand dunes. Regionally, the land slopes to the South with average slopes of one percent.

B. Soil: Top soil at the well site is a deep sandy loam.

C. <u>Flora and Fauna</u>: The vegetation cover is moderate. It includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail and other small birds.

D. <u>Ponds and Streams:</u> There are no rivers, lakes, ponds, or streams in the area.

E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within 3/4 mile of the well site.

F. <u>Archaeological, Historical, or other Cultural Sites:</u> None were observed in the area.

G. Land Use: Grazing, oil and gas production, and wildlife habitat.

H. Surface Ownership: Federal

Surface Use & Operation Plan, Cotton Draw 6B St #1, 10/29/96, Pq. 5

#### 12. OPERATOR'S REPRESENTATIVE

C. Wade Howard Engineer's Assistant Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702 Office Phone: (915) 688-4606

#### CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texaco Exploration and Production, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S. C. 1001 for the filing of a false statement.

11/5/96

Date

С

C. Wade Howard Engineer's Assistant Midland, Texas

Enclosures jsp





Г DISTRICT 1

40.35

P. O. Box 1980, Hobbs, NM 88240

DISTRICT II P. O. Drower DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brozos Rd., Aztec, NM 87410 DISTRICT IV P. O. Box 2088, Sonta Fe, NM 87504-2088

## State of New Mexico

Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 10, 1994

instructions on back

Submit to Appropriate District Office

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AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

' <b>^</b>	Pl Number			<sup>2</sup> Pool Code		<sup>3</sup> Pool Name				
					Wildca	t, Delaware/ Bone	Springs			
Property Co	de				<sup>5</sup> Property I	Name			<sup>6</sup> Well Number	
					Cotton Draw	6B Federal			1	
OGRID No.		· · · · ·			BOperator	Nome			<sup>9</sup> Elevation	
22351				TEXACO	EXPLORATION	& PRODUCTION,	INC.		3472'	
					<sup>10</sup> Surface	ocation				
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
В	6	25-S	32-E		660'	North	1980'	Eost	Lea	
			<u>''</u> B	ottom Hol	le Location If	Different From	Surface	· ·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	<sup>7</sup> County	
14Dedicated Acres	13 Joi	int or Infill	<sup>14</sup> Consolic	ation Code	<sup>15</sup> Order No.		<u> </u>	<u> </u>	1	

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.

39.74	4 40.21	3 40.35 9 9 1	2 40.49 1 1980'	<sup>1</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature C. Wade House Printed Name
39.82 39.96	5       			C. Wade Howard Position Engineer's Assistant Company Texaco Expl. & Prod. Inc. Date October 23, 1996 <sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by ne or under ny supervision, and that the same is true and
40.11	7		   	Date Surveyed October 10, 1996 Signature & Seal of Professional Surveyor
0 330 660	990 1320 1650 1980	2310 2640 2000	1500 1000 500	Certificate No. 7254 John S. Piper Sheet 8 of 8