### N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

n Form 3160-3 RECEIVED OMB No. 1004-0136 (August 1999) **UNITED STATES** Expires November 30, 2000 APR 1 6 7004 5. Lease Serial No. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT NM-15863 OCD-ARTESIA 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER Not Applicable 7. If Unit or CA Agreement, Name and No. la. Type of Work: DRILL REENTER **Not Applicable** 8. Lease Name and Well No. b. Type of Well: Oil Well Single Gas Other Multiple Zone Cottonwood Federal #4 Well Zone 9. API Well No. 2. Name of Operator 30-005-63670 **Yates Petroleum Corporation** 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3A. Address 105 South Fourth Street Artesia, New Mexico 88210 (505) 748-1471 Wildcat Basement 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T., R., M., or Blk, and Survey or Area 660' FSL and 1980' FEL At surface Section 26, T6S-R25E same as above At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State Approximately twenty-eight (28) miles Northeast from Roswell, NM **Chaves County New Mexico** Distance from proposed\* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660' 320 320 acres Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. 20. BLM/BIA Bond No. on file 19. Proposed Depth 5330' NM-2811 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3761' GL **ASAP** 30 Days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification. SUPO shall be filed with the appropriate Forest Service Office. 6. Such other site specific information and/or plans as may be required by the authorized office. 25. Signature Name (Printed/Typed) Date **Robert Asher** 2/27/04 Email: debbiec@ypcnn Regulatory Agent/Land Department Title: Approved by (Signature) Name (Printed/Typed) /S/LARRY D. BRAY /S/LARRY D. BRAY Assistant Field Manager, Title POSWELL FIELD OFFICE APPROVED FOR 1 Lands And Minerals Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

CEMENT TO COVER ALL OIL, GAS AND WATER BEARING ZONES 1625 N. French Dr., Hobbs, NM 88240

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

Form C-102 Revised August 15, 2000

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

District IV

1220 S. St. Francis	Dr., Santa F	e, NM 87505							AMENDED REPORT	
		W	ELL LO	OCATIO	N AND ACR	EAGE DEDIC	<b>ATION PLA</b>	T		
1	<sup>1</sup> API Number <sup>2</sup>					<sup>3</sup> Pool Name				
Wildcat Basemo							sement			
<sup>4</sup> Property	Code			'Well Number						
					Cottonwood	l Federal			4	
<sup>7</sup> OGRID	No.			, Elevation						
02557	<b>'</b> 5	Yates Petroleum Corporation							3761'	
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
0	26	65	25E		660	South	1980	East	Chaves	

<sup>11</sup> Bottom Hole Location If Different From Surface Section Lot Idn Feet from the North/South line UL or lot no. Feet from the Township Range **East/West line** County 13 Joint or Infill <sup>14</sup> Consolidation Code <sup>12</sup> Dedicated Acres 15 Order No. 320

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 **OPERATOR CERTIFICATION** hereby certify that the information contained herein is rue and complete to the best of my knowledge and

Robert Asher Regulatory Agent 02/27/2004 NM-15863 SURVEYOR CERTIFICATION hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. REFER TO ORIGINAL PLAT Date of Survey Signature and Seal of Professional Surveyor: 1980' Certificate Number

# YATES PETROLEUM CORPORATION Cottonwood Federal #4

660' FSL and 1980' FEL Section 26-T6S-R25E Chaves County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	495'	Wolfcamp	4410'
Glorieta	1480'	Cisco	4895'
Yeso	1560'	Strawn	5045'
Tubb	2995'	Granite	5180'
Abo	3630'	TD	5330'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:

250'-350'

Oil or Gas: All potential formations.

3. Pressure Control Equipment: BOPE will be installed on the 11 3/4" casing and rated for 2000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

#### **Auxiliary Equipment:**

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
  - A. Casing Program: (All New)

Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>	<u>Length</u>	
14 3/4"	11 3/4"	42#	H-40	ST&C	0-	900'	900'
11"	8 5/8" *	24#	J-55	ST&C	0-1500'	1500'	
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-5330'	5330'	

\*- 8 5/8" will only be set if lost circulation is encountered.

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, and Tensile Strength 1.8

2. YPC requests a variance to be granted in requiring the casing and BOPE to be tested to 2000 psi to testing the casing and BOPE to 1000 psi. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 1000 psi. We would have to go to the greater expense of hiring an independent service company to do the testing. Also, the bottom hole pressure in this field is proven to be near 1000 psi. A shut in surface pressure would be less than 1000 psi. We feel that a 1100 psi test will demonstrate that the BOPE is functioning properly, and in the unlikely event of a gas influx that the BOPE would be sufficient to control the well.

Do Cr

#### **Cottonwood Federal #4**

#### Page 2

#### B. CEMENTING PROGRAM:

Surface Casing: Cement with 350 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with

200 sx "C" + 2% CaCl2 (YLD 1.33 WT 15.6).

Intermediate Casing: 250 sx class C + 2% CaCLW (YLD 1.32 WT 14.8)

Production Casing: 500 sx PVL (YLD 1.34 WT 13). TOC 3100'.

#### 5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-900'	FW GEL/Paper/LCM	8.6-9.6	32-36	N/C
900'-3580'	Cut Brine/Brine	9.0-10.2	28	N/C
3580'-5330'	Starch/Salt Gel	9.3-10.2	32-40	<6CC

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

#### 6. EVALUATION PROGRAM:

Samples: 10' samples out from under surface casing.

Logging: Platform Express, CNL/LDT W/NGT to TD to surface casing, w/ GR/CNL TD

to surface, DLL/MSFL TD to surface casing, BHC Sonic TD to surface casing:

FMI TD - top of Wolfcamp.

Coring: Sidewall DST's: None

#### 7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

**Anticipated BHP:** 

From: 0 TO: 900' Anticipated Max. BHP: 375 PSI From: 900' TO: 5330' Anticipated Max. BHP: 2700 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 110 F

#### 8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 15 days to drill the well with completion taking another 15 days.

#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION Cottonwood Federal #4

660' FSL and 1980' FEL

Section 26-T6S-R25E Chaves County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

#### EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 28 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

#### **DIRECTIONS:**

Go north of Roswell on Highway 285 for approx 23 miles to Cottonwood Road. Turn right (east) and drive approx. 12 miles where the access road is staked on the left (north) side going north approx. 625' to the southwest corner of the location.

#### PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 625' in length from the point of origin to the southwest corner of the drilling pad.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on both sides. No traffic turnout will be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

#### 3. LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

# Cottonwood Federal #4 Page 2

#### 5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources, possibly in Roswell, and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

#### 6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits, which may be required.

#### 7. METHODS OF HANDLING WASTE DISPOSAL:

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

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

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

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

E. Current laws and regulations pertaining to the disposal of human waste will be complied with.

F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

#### 8. ANCILLARY FACILITIES: NONE

#### 9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.

#### 10. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.

# Cottonwood Federal #4 Page 3

11. SURFACE OWNERSHIP: The location is on Federal surface administered by the BLM, Roswell, New Mexico.

B.

- 12. OTHER INFORMATION:
  - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.
  - B. The primary **surface** use is for grazing.
- 13. OPERATOR'S REPRESENTATIVE:
  - A. Through A.P.D. Approval:
    Robert Asher, Regulatory Agent
    Yates Petroleum Corporation
    105 South Fourth Street
    Artesia, New Mexico 88210
    Phone (505) 748-1471
- Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

#### 14. 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 presently 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 Yates Petroleum Corporation and its contractors and subcontractors 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.

02/27/04

Regulatory Agent

1625 M. French Dr., Hobbs, NM 88240

811 South First, Artesia, NM 88210

DISTRICT L

DUALE OF HEM WENTER

Energy, Minerals and Natural Resources Department

FORM U-1UZ Revised March 17, 1999

Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brakos Rd., Axtec, NM 87410 DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		Wildcat Basement
Property Code	Property Name	Well Number
	COTTONWOOD FEDERAL	4
OGRID No.	Operator Name	Elevation
025575	YATES PETROLEUM CORF	PORATION 3761

#### Surface Location

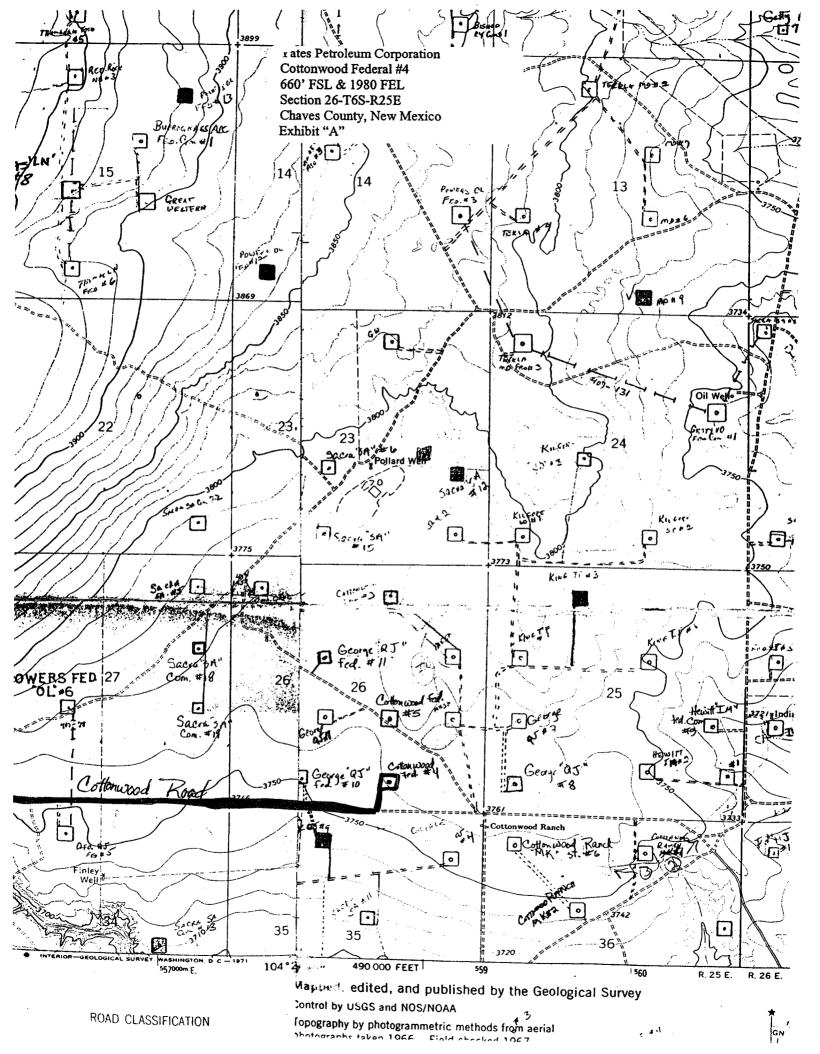
İ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	26	<b>6</b> S	25E		660	SOUTH	1980	EAST	CHAVES

#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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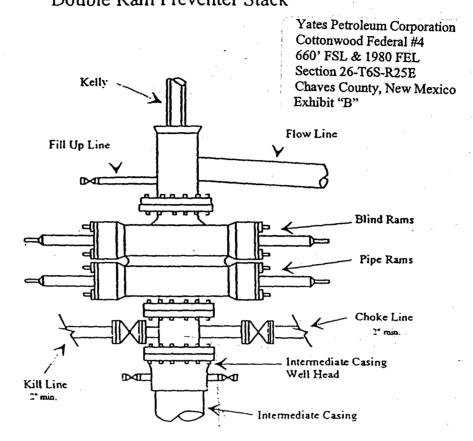
### NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

-	Cottonwood fed. #	1480.	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and beltef.  Signature
	NM-15	Cottonwood Fed. #2	Patricia Perez Printed Name  Regulatory Agent Title  12/18/01 Date  SURVEYOR CERTIFICATION
		Collanwood Fed. #1	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.  11/08/2001  Date Surveyed
	N.33°45'38.2" W.104°22'09.3" 3757 3763	1980	Date Surveyed  Signatura & Sept Proving Color Surveyor  3640  3640  Septimicate No. Herspher Jones RLS 3640  OF JOHNOOD A  SEPTIMICAL SURVEYORG COMPANY

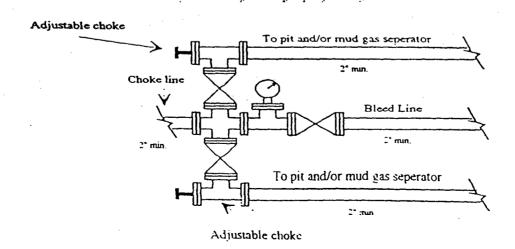


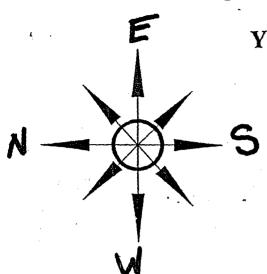
# **Yates Petroleum Corporation**

Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack



Typical 2,000 psi choke manifold assembly with at least these minimum features

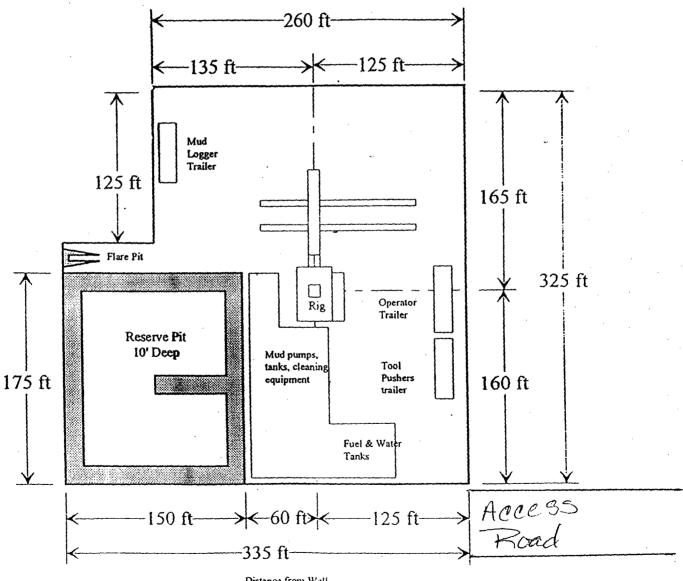




### Yates Petroleum Corporation

Location Layout for Permian Basin
Up to 12,000'

Yates Petroleum Corporation Cottonwood Federal #4 660' FSL & 1980 FEL Section 26-T6S-R25E Chaves County, New Mexico Exhibit "C"



Distance from Well Head to Reserve Pit will vary between rigs

The above dimension should be a maximum

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## **EXHIBIT A**

**Operator:** Yates Petroleum Corporation

BLM Serial Number: NM-15863

Well Name & NO.: Cottonwood Federal #4

Location: Section 26, T. 6 S., R. 25 E.

660' FSL & 1980' FEL, Chaves County, N.M.

