N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
YATES PETROLEUM CORPORATION

3. ADDRESS AND TELEPHONE NO.
105 South Fourth Street, Artesia, NM 88210 (505) 748-1471

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
330' FNL and 990' FWL

At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
41 miles Northwest of Jal, New Mexico

5. LEASE DESIGNATION AND SERIAL NO.
NM-77061

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Freida "AFR" Federal

9. API WELL NO.
#3

10. FIELD AND POOL, OR WILDCAT
Wildcat Bone Spring

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3-T23S-R32E

12. COUNTY OR PARISH
Lea

13. STATE
NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
238.24

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
10,000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3669'

22. APPROX. DATE WORK WILL START*
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48# J-55	1150'	550 sacks circulated
12 1/4"	8 5/8"	32# J-55 & HC-80	4650'	1750 sacks (tie back)
7 7/8"	5 1/2"	15.5# J-55 & 17# J-55	TD	1050 sacks (tie back)

Yates Petroleum Corporation proposes to drill and test the Bone Spring and intermediate formations. Approximately 1150' of surface casing will be set and cement circulated. Approximately 4650' of intermediate casing will be set and cement circulated. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: FW/GEL to 1150'; Brine to 4650', cut Brine, Starch to TD.

BOPE PROGRAM: BOPE will be nippled up on the 8 5/8" casing and tested daily for operational.

OPER. OGRID NO. 25575
PROPERTY NO. 13305
POOL CODE 96037
EFF. DATE 413196
API NO. 30-025-33361

BUREAU OF LAND MANAGEMENT
RECEIVED
MAR 11 1996
DIST. 2 N.M.
Carlsbad, New Mexico

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED Cy Cowan TITLE Regulatory Agent DATE 3-7-96

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

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:

APPROVED BY (ORIG. SGD.) RICHARD L. MANUS TITLE AREA MANAGER DATE MAR 29 1996

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

*See Instructions On Reverse Side

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & 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
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
		WILDCAT BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	FREIDA "AFR" FEDERAL	#3

[7] OGRID No.	[8] Operator Name	[9] Elevation
025575	YATES PETROLEUM CORPORATION	3669

[10] Surface Location

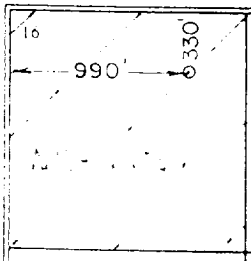
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	3	23S	32E		330	NORTH	990	WEST	LEA

[11] Bottom Hole 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	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

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



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Clifton R. May
Printed Name

Regulatory Agent
Title

3-7-96
Date

[18] SURVEYOR CERTIFICATION

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 supervision, and that the same is true and correct to the best of my belief.

2/29/96
Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number 3640

YATES PETROLEUM CORPORATION
FREIDA "AFR" FEDERAL #3
330' FNL AND 990' FWL
SECTION 3-T23S-R32E
LEA COUNTY, NEW MEXICO

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

Rustler	1100'	Bone Spring	8700'
Top of Salt	1135'	TD	10,000'
Base of Salt	4500'		
Bell Canyon	4750'		
Cherry Canyon	5780'		
Brushy Canyon	7680'		

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

   Water: 250-750
   Oil or Gas: 7680' and 8700'

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3M 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, 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	Grade	Thread	Coupling	Interval	Length
17 1/2"	13 3/8	48#	J55	8R	ST&C	0-1150'	1150'
12 1/4"	8 5/8	32#	J55	8R	ST&C	0-4200'	4200'
12 1/4"	8 5/8	32#	HC80	8R	LT&C	4200-4650'	450'
7 7/8"	5 1/2	17#	N80	8R	LT&C	0-2000'	2000'
7 7/8"	5 1/2	17#	J55	8R	LT&C	2000-3000'	1000'
7 7/8"	5 1/2	15.5#	J55	8R	LT&C	3000-7000'	4000'
7 7/8"	5 1/2	17#	J55	8R	LT&C	7000-8500'	1500'
7 7/8"	5 1/2	17#	N80	8R	LT&C	8500-10000'	1500'

Minimum Casing Design Factors: Callapse 1.125, Burst 1.0, Tensile Strength 1.80

B. CEMENTING PROGRAM:

Surface casing: 300 sx. Pacesetter Lite "C" w/ 1/4# Cellocel & 3% CaClz (wt. 12.4 ppg. Yield 1.84 ft3) + 250 sx. Class "C" w/ 2% CaClz. (wt. 14.8 ppg., Yield 1.32 ft3) Cement calculated to circulate to surface.

Intermediate Casing: 1500 sx. Pacesetter Lite "C" w/ 1/4# Cellocel + 3% CaCl2. (wt. 14.8 ppg. Yield 1.32 ft 3) + 250 sx. Class "C" w/2% CaClz. (wt. 14.8 ppg. Yield 1.32 ft3) Cement calculated to circulate to surface.

Production Casing: 1st Stage: 250 sx. "H" w/8# sack CSE, + 0.6% CF-14 +5# sack Gilsonite (wt. 13.6 ppg Yield 1.76 ft3) Cement calculated to 8000' DV tool set at approx. 8000 ft.

2nd Stage: 650 sacks pacesetter lite "C" w/5# sack Gilsonite, 1/4# sack Cellocel, + 0.5% CF-14.(wt. 12.5 ppg Yield 2.04 ft3) + 150 sacks "H" w/0.5% Cf-14 (wt. 13.6 ppg Yield 1.75 ft3). Cement calculated to tie back to intermediate csng. 100'.

5. Mud Program and Auxiliary Equipment:

Interval	Type	Weight	Viscosity	Fluid Loss
0-1150	FWGEL	8.6 - 9.6	32-36	N/C
1150-4650	Brine	10.0-10.2	28	N/C
4650-10000	cut brine, starch	8.9 - 9.1	30	<15cc

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: Every 10' from surface casing to TD
Logging: CNL - LTD from TD to casing with GR-CNL up to surface; DLL w/RXO from TD to casing
Coring: None anticipated
DST's: Any tests will be based on the recommendations of the well site geologist as warranted by drilling breaks and shows

7. Abnormal Conditions, Bottom hole pressure and potential hazards:
Anticipated BHP:

From: 0	TO: 1150	Anticipated Max. BHP:	250	PSI
From: 1150	TO: 4650	Anticipated Max. BHP:	2062	PSI
From: 4650	TO: TD	Anticipated Max. BHP:	3800	PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 140F

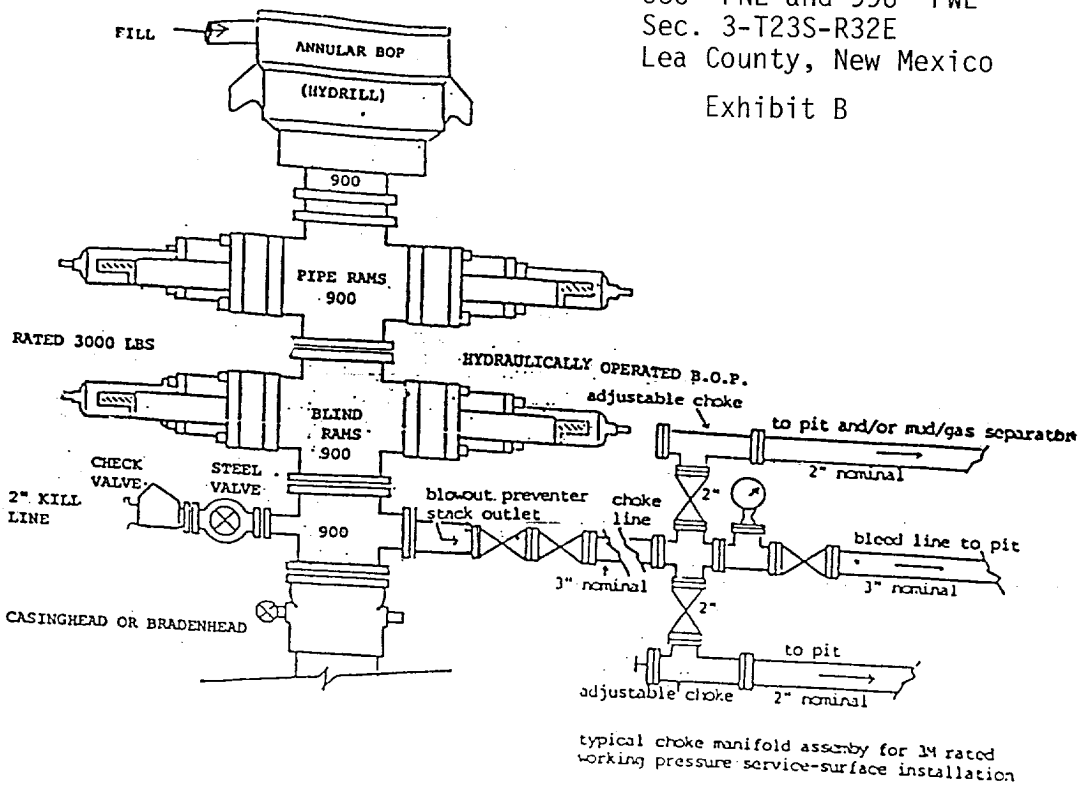
8. ANTICIPATED STARTING DATE:

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 20 days.

YATES PETROLEUM CORPORATION

Freida AFR Federal #3
330' FNL and 990' FWL
Sec. 3-T23S-R32E
Lea County, New Mexico

Exhibit B



typical choke manifold assembly for 3M rated working pressure service-surface installation

EXHIBIT B

THE FOLLOWING CONSTITUES THE MINIMUM BLOWOUT PREVENTER REQUIREMENTS FOR 3000 PSI WP SYSTEMS

1. All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
2. Choke outlet to be a minimum of 3" diameter.
3. Kill line to be of all steel construction of 3" minimum diameter.
4. All connections from operating manifolds to preventers to be all steel. Hole or tube to be a minimum of one inch in diameter.
5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
7. Inside blowout preventer to be available on rig floor.
8. Operating controls to be located a safe distance from the rig floor.
9. Hole must be kept filled on trips below intermediate casing.