

UNITED  
DEPARTMENT OF  
BUREAU OF LAND

## APPLICATION FOR PERMIT

OPER OGRID NO. 15515PROPERTY NO. 20192POOL CODE 19570EFF. DATE 1/23/97API NO. 30-025-33793 96DATE  
onFORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

YATES PETROLEUM CORPORATION

## 3. ADDRESS AND TELEPHONE NO.

105 South Fourth Street Artesia, New Mexico 88210 (505) 748-1471

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

330' FSL and 1880' FWL (Unit N)

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

11 miles southeast of Jal, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 19. PROPOSED DEPTH

13,500'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3006' GR

## CAPITAN CONTROLLED WATER BASIN

## 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
14 3/4"	11 3/4"	42#	450'	Circulate
11"	8 5/8"	32#	4100'	Circulate
7 7/8"	5 1/2"	17#	13500'	As warranted

WITNESS

Yates Petroleum Corporation proposes to drill and test the Ellenburger and intermediate formations. Approximately 450' of surface casing will be run and cemented. Approximately 4100' of intermediate casing will be run and cemented. If commercial, production casing will be run to TD, cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: Spud to 450' FW Gel, Paper, LCM; 450' to 4100' Brine; 4100' to 7600' Cut Brine, Starch; 7600' to 13,500' Salt Gel, Starch.

BOPE PROGRAM: 5000 PSI BPOE will be installed of the 11 3/4" casing and tested daily for operational.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

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

Clifton R. May

TITLE Regulatory Agent

DATE 12/20/96

(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.) TONY FERGUSON

TITLE

ADM, MINERALS

DATE

12/20/96

\*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

API Number <b>30-025-33793</b>		Pool Code <b>19570</b>	Pool Name <b>Dublin WILDCAT Ellenburger</b>
Property Code <b>20192</b>	Property Name <b>NEAR POWELL AQR FEDERAL</b>		Well Number <b>1</b>
GRID No. <b>025575</b>	Operator Name <b>YATES PETROLEUM CORPORATION</b>		Elevation <b>3006'</b>

<sup>10</sup> Surface Location

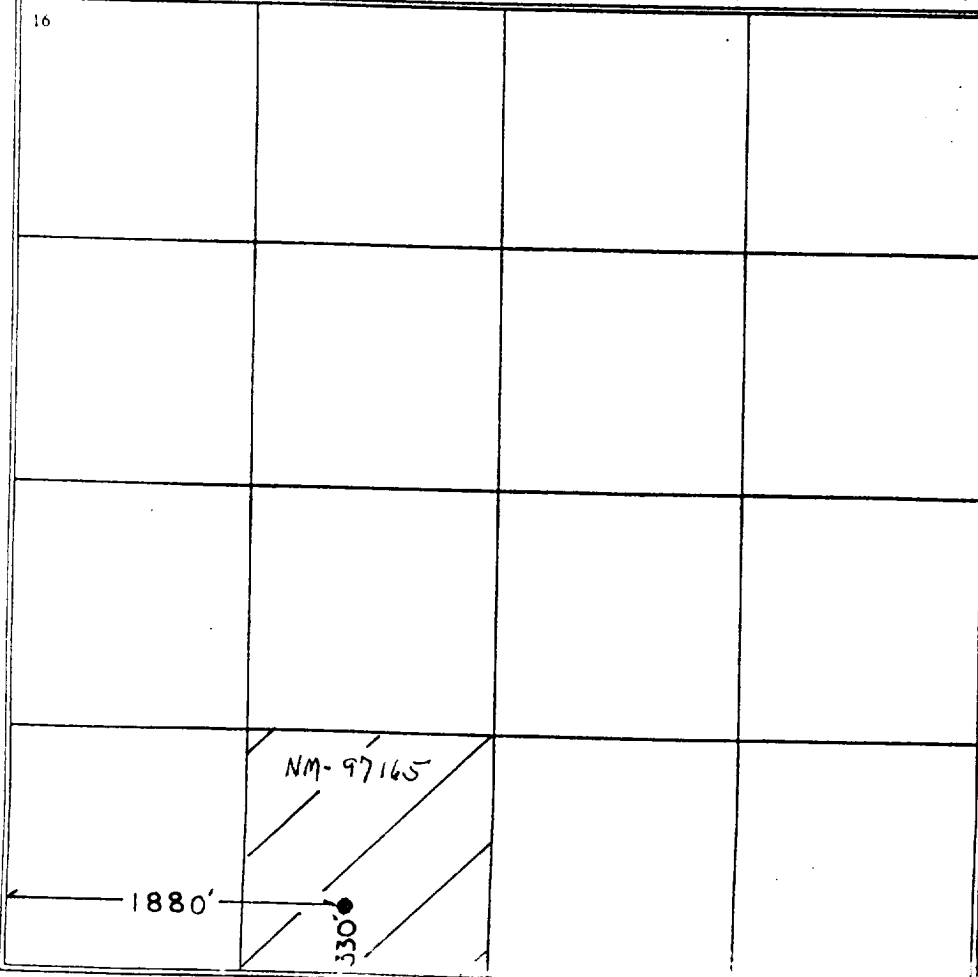
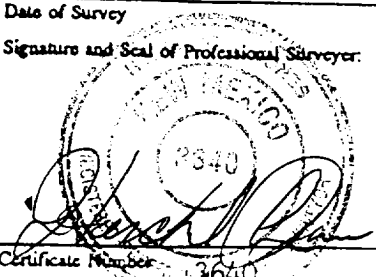
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	7	26S	38E		330	South	1880	West	Lea

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<div>16</div> 	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Clifton R. May</i> Signature Clifton R. May Printed Name Regulatory Agent Title December 20, 1996 Date</p>	
	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>12/16/96 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number 3640</p>	

**YATES PETROLEUM CORPORATION  
NEAR POWELL AQR FEDERAL #1  
330' FNL AND 1880' FWL  
Sec. 7,-T26S-R38E  
Lea County, New Mexico**

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

Rustler	970'	Devonian	9850'
Yates	2690'	Simpson	11340'
Queen	3450'	Ellenburger	12470'
San Andres	4030'	TD	13500'
Glorieta	5260'		
Tubb	6450'		
Wolfcamp	7600'		
Uniformity	8050'		
Mississippi Lime	8820'		
Woodford	9250'		

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

Water: 300' to 400'  
Oil or Gas: 6450', 9850', 11,340', and 12,470'

3. Pressure Control Equipment: BOPE will be installed on the 11 3/8" casing and rated for 5000# 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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Thread</u>	<u>Interval</u>	<u>Length</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-450'	450'
11"	8 5/8"	32#	J-55	ST&C	0-4000'	4000'
11"	8 5/8"	32#	HC-80	ST&C	4000'-4100'	100'
7 7/8"	5 1/2"	17#	N-80	BUTT	0-2000'	2200'
7 7/8"	5 1/2"	17#	N-80	LT&C	2200'-10700'	8500'
7 7/8"	5 1/2"	17#	S-90	LT&C	10700'-13500'	2800'

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



**B. CEMENTING PROGRAM:**

Surface casing: 300 sx PSL "C" w 1/4# Cellocel, 3% CaCl<sub>2</sub>, (wt.12.4 yld 1.84). 250 sx "C" w/ 2% CaCl<sub>2</sub> (wt. 14.8 yld 1.32)

Intermediate Casing: 800 sx Pacesetter Lite "C" w/ 1/4# Cellocel, 10# Salt. Tail in 250 sx "C" w/ 2% CaCl<sub>2</sub> (wt. 14.8, yld 1.32).

Production Casing: 650 sx "H" w/ 8# CSE, 5# Gilsonite, 6/10% CF-14, .35% Thrifty Lite (wt 13.6 , yld 1.75).

Production Casing: 750 sx Pacesetter Lite "C" w/ 5% Gilsonite, 5# Salt,4/10% CF-14 (wt. 12.7, Yld 1.84).

**5. Mud Program and Auxiliary Equipment:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud - 450'	FwGel/Paper LCM	8.6-9.6	32-36	N/C
450' - 4100'	Brine	10.0- 10.2	28	N/C
4100' - 6700'	Cut Brine, Starch	8.9-9.1	28	< 15cc
7600' - 13500'	Salt Gel < Starch	9.6-9.8	34-38	< 12cc

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: 20' samples from surface to 2400'; 10' from 2400' to TD.

Logging: CNL/LDT TD to csg.; w/GRN to surface.; DLL w/rxo - TD to casing, BHC Sonic TD to casing.

Coring: None

DST's: None at this time . Possible sidewall cores.

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

Anticipated BHP:

From: 0	To: 450'	Anticipated Max. BHP: 250 PSI
From: 450'	To: 4100'	Anticipated Max. BHP: 2030 PSI
From: 4100'	To: 13500'	Anticipated Max. BHP: 5800 PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H<sub>2</sub>S Zones Anticipated: None

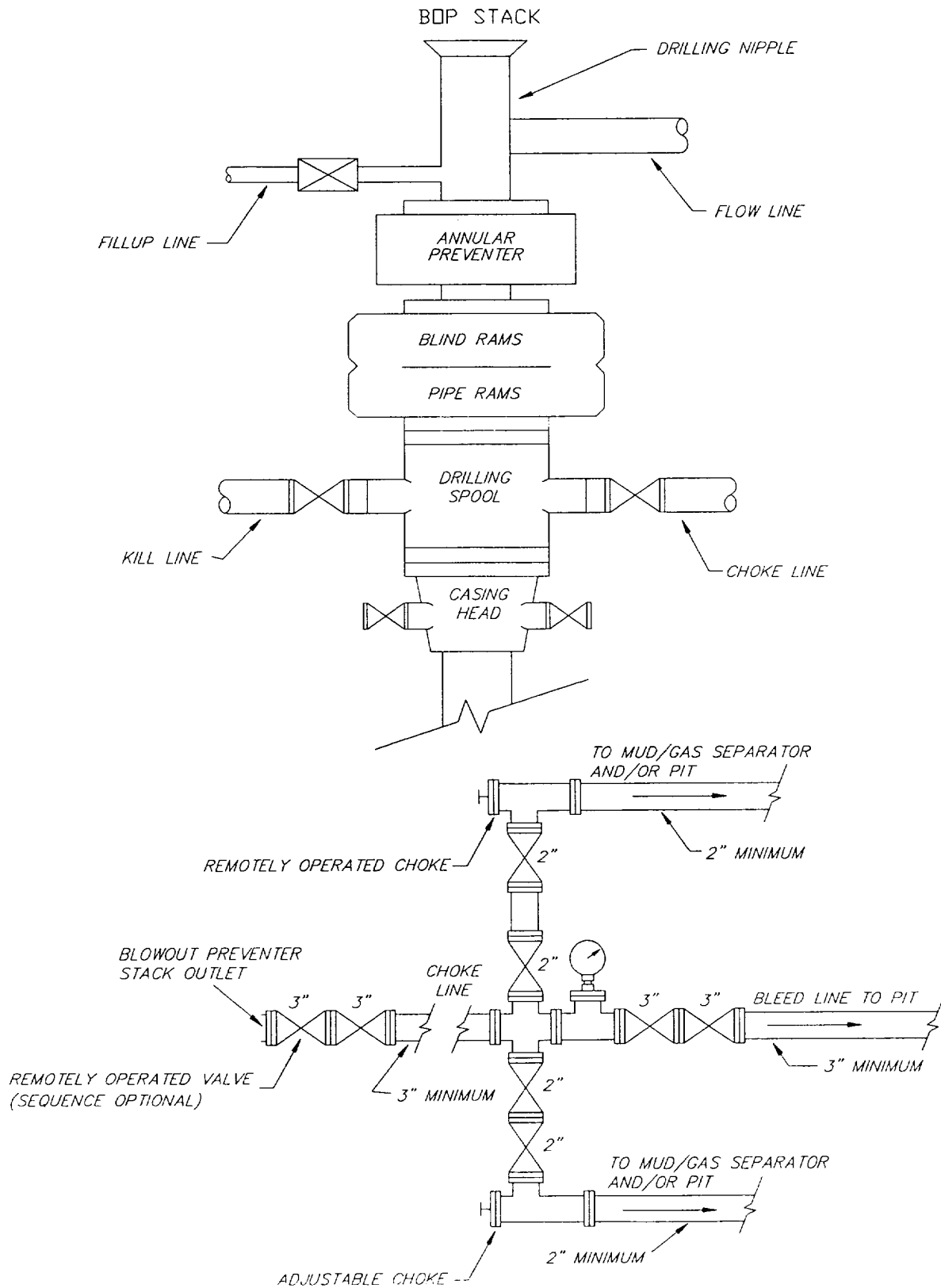
Maximum Bottom Hole Temperature: 128 F

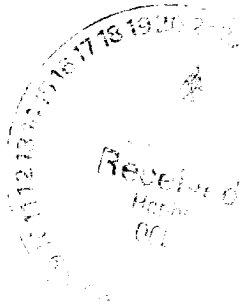
**8. ANTICIPATED STARTING DATE:**

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.

# YATES PETROLEUM CORPORATION

## *TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER & CHOKE MANIFOLD SCHEMATIC*





Handwritten signature or initials, possibly "L. S. R.", with a date stamp "1911" visible in the background.