N.A		ons. Divis	ion		4
		151 ST. N 89210 2344 1314 15161	17181		951
Form 3160-3 (August 1999) 69 7 UNITED STATES	10		100 Policy	Expires No	0 No. 1004-0136 ovember 30, 2000
DEPARTMENT OF THE IN  BUREAU OF LAND MANAG	EMENT G	OCD - ART		<ul><li>5. Lease Serial No.</li><li>NM-103573</li><li>6. If Indian, Allotte</li></ul>	e or Tribe Name
APPLICATION FOR PERMIT TO DE	RILL OR R	EFNIER		·	
ia. Type of Work: X DRILL REE	ENTER	18081		28	reement, Name and No.
b. Type of Well: Oil Well Gas Other Well		Single Zone	Multiple Zone	8. Lease Name and Buckaroo AYG	
2. Name of Operator				9. API Well No.	r 210011
Yates Petroleum Corporation  3A. Address 105 South Fourth Street	3h Phone No	. (include area code	a)	10 Field and Book	5-31894
Artesia, New Mexico 88210	50. Phone No		<b>^</b>	10. Field and Pool, or Exploratory Wildcat Chester	
4. Location of Well (Report location clearly and in accordance with any	State requirer	(505) 748-1471		11. Sec., T., R., M., or Blk, and Survey or Area	
At surface 990' FSL and	ժ <del>990</del> ՝ FWI	<u> </u>		, , ,	,y
	ame	Unit M		Section 1, T209	S-R21E
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	
Approximately 29 miles northwest of Carlsbad, Ne	w Mexico.			Eddy	NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of A	cres in lease	17. Spacing Ur	nit dedicated to this we	11
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.			Bond No. on file 585997		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Ap		pproximate date work will start*		23. Estimated duration	
4256' GL		ASAP		30 days	
	24. Atta	chments			
The following, completed in accordance with the requirements of Onshore	e Oil and Gas (	Order No. 1, shall be	e attached to this	form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System Lands SUPO shall be filed with the appropriate Forest Service Office.</li> </ol>		Bond to cove     Item 20 abov     Operator certification	er the operations re). ification. te specific inform		existing bond on file (see
25. Signature		e (Printed/Typed)			Date
_ / N/W	Cy	Cowan			4/16/01
Title: Regulatory Agent					
Approved by (Signature)/s/ LESLIE A. THEISS	Nam	e (Printed/Typed) IS/ LESL	IE A. TH	IEISS	Date JUL 1 2 2001

FIELD MANAGER CARLSBAD FIELD OFFICE

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.

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 faise, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

<sup>\*(</sup>Instructions on reverse)

# BECEINED

V901 VBB 16 PM 2: 39

BUPEAL OF LAND MGMT.

Form C-102 State of New Mexico Revised March 17, 1999 Energy, Minerals & Natural Resources District | 1625 N. French Dr., Hobbs, NM 88240 Submit to Appropriate District Office OIL CONSERVATION DIVISION 2040 South Pacheco District 11 State Lease - 4 Copies 811 South First, Artesia, NM 88216 Fee Lease - 3 Copies Santa Fe. NM 87505 1000 Rio Brazes Rd., Aztec, NM 87418 MENDED REPORT District IV 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Wildcat Chester Well Number Property Name **Property Code** BUCKAROO "AYG" FEDERAL Operator Name Elevation OGRID No. 4256 025575 Surface Location East/West Hee County Post from the Foot from the Let Ide UL or let me. EDDY 660 WEST 990 SOUTH ì 20-S 21-E M 11 Bottom Hole Location If Different From Surface Exet/West Mos Count North/South Nor Fast from th Feet from the UL or lot se. Township Order No. Dedicated Acres 320

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

If OPERATOR CERTIFICATION Is a lower of the part of the part

### YATES PETROLEUM CORPORATION

Buckaroo "AYG" Federal #1

990' FSL and 660' FWL Section 1.T20S-R21E Eddy County, New Mexico

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

Glorietta	1500'	Strawn	7360'
Tubb	2800'	Atoka	7540'
Abo	3460'	Morrow	7770'
Wolfcamp	4650'	Chester Lime	7940'
Cisco	5920'	TD	8050'
Canyon	6570'		

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

Water:

200' - 300'

Oil or Gas: All potential zones

Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3. 3000 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:

Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a Α. 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 13 3/8"	<u>Wt./Ft</u> 48#	<u>Grade</u> H-40	Thread ST&C	Interval 0-350'	Length 350'
12 1/4"	8 5/8"	24#	J-55	ST&C	0-1600'	1600'
7 7/8"	5 1/2"	17#	J-55	LT&C	0-100'	100'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	100'-6900'	6800'
7 7/8"	5 1/2"	17#	S-95	LT&C	6900'-8050'	1150'

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

### Buckaroo "AYG' Federal #1 Page 2

#### B. CEMENTING PROGRAM:

Surface casing: 400 sacks "C" + 2% CaCl2 (YLD 1.32 WT 15.6)

Intermediate Casing: 600 sx Lite (YLD 2.0 WT 12.5). Tail in with 200 sx "C" + 2% CaCl2

(YLD 1.32 WT 15.6)

Production Casing: TOC 4000'. 650 sacks Super "H" Modified (YLD 1.67 WT 13.0)

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

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Viscosity	Fluid Loss
Spud to 350'	FW/Air Mist	8.4	28	N/C
350'-1600'	FW/Air Mist	8.4	28	N/C
1600'-7500'	Cut Brine/4% KCL	8.6-9.2	28	N/C
7500'-8050'	Salt Gel/Starch	9.2-9.8	32-38	<10cc

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' out from under intermediate casing to TD.

Logging: Platform Express-HALS, Possible FMI, Rotary Sidewall cores.

Coring: As Warranted.

DST's: As Warranted, possible from top of Cisco.

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

**Anticipated BHP:** 

From: 0 TO 350' Anticipated Max. BHP: 175 PSI From: 350' TO 1600' Anticipated Max. BHP: 700 PSI From: 1600' TO 8050' Anticipated Max. BHP: 4000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 189° F

#### 8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 20 days to drill the well with completion taking another 10 days.

#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Yates Petroleum Corporation Buckaroo "AYG Federal #1 990' FSL AND 660' FWL Section 1, T20S P21E

Section 1, T20S-R21E Eddy 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.

#### 1. 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 wellsite is located approximately 29 miles Northwest of Carlsbad, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

#### **DIRECTIONS:**

Go south of Artesia of Highway 285 to Rock Daisy Road. Turn west on Rock Daisy and go to Armstrong Road. Turn south on Armstrong Road (CR 12) and go to the intersection of Armstrong Road and Deer Canyon Road (CR 24). Go down Deer Canyon Road for approx. 2 miles to a cattleguard. Continue for approx. .7 of a mile to an old two track going right. Follow two track along top of the ridge for approx. 1 mile. Road will "T". Turn right and follow two track to a gate. Go through gate continue on for approx. 1 mile. Road will come off top of ridge and cross Deer Canyon. Follow two track to the well location. Total milage from Deer Canyon Road to the location is approx. 2.5 miles.

#### 2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 2.5 of a miles in length from the point of origin to the southwest corner of drilling pad. The road will lie in a north/northeast direction.
- 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 one side. Traffic turnouts may 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 no drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

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

- A. There are no 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.

#### 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 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 acquire any materials from the closest source at the time of construction of the well pad.

#### 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 land fill. 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 wellsite 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 within 90 days after abandonment.
- 11. SURFACE OWNERSHIP: Bureau of Land Management, Carlsbad, New Mexico.

#### 12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- B. The primary surface use is for grazing.

## Buckaroo "AYG" Federal #1 Page 3

#### 13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations, Completions and Production:

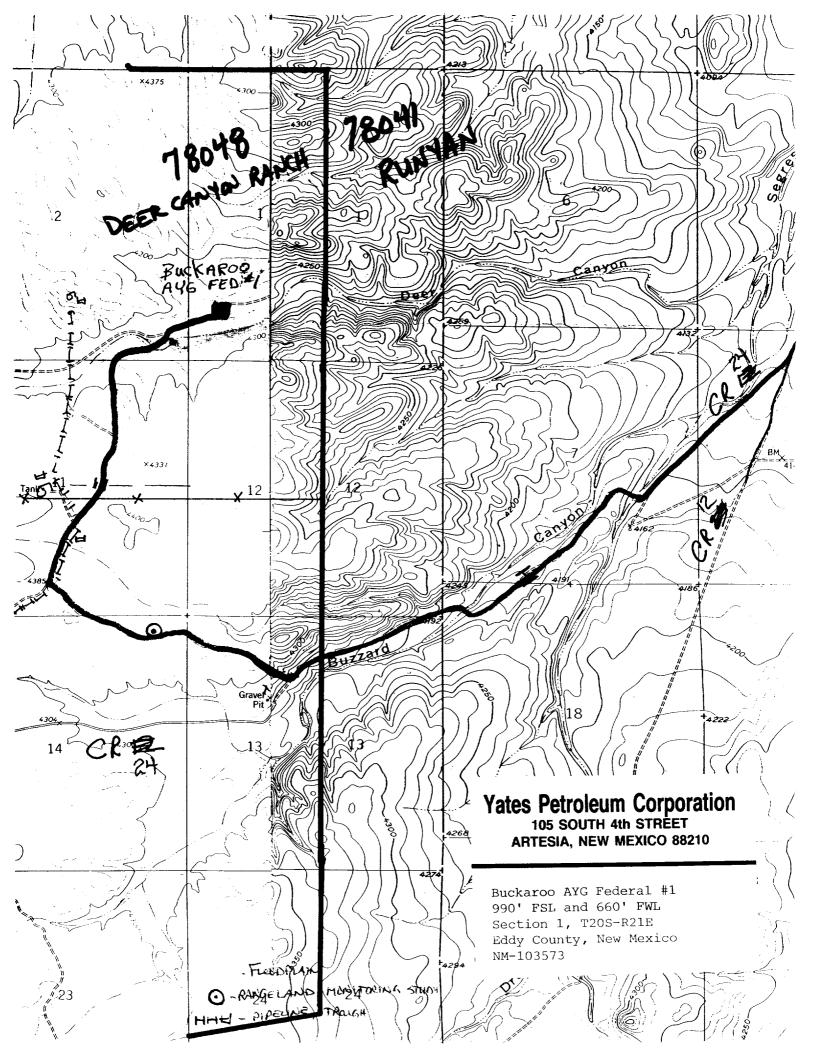
Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

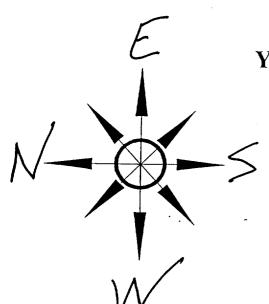
#### 14. CERTIFICATION:

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.

4/15/01

Regulatory Agent



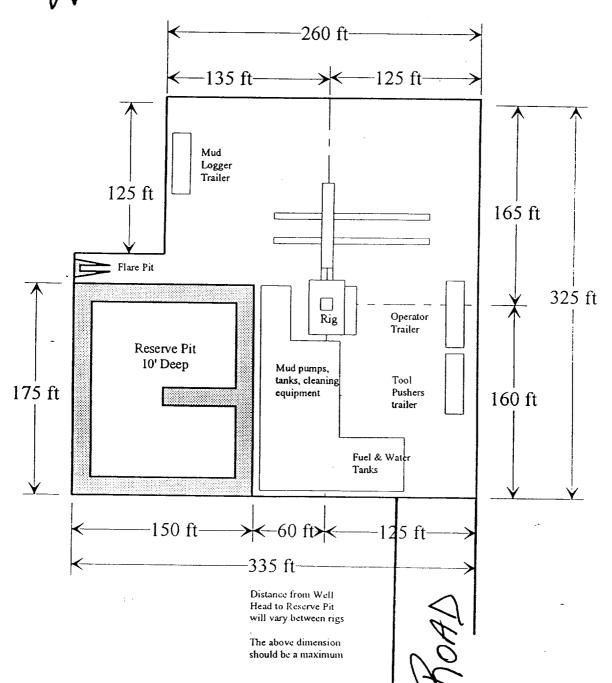


### Yates Petroleum Corporation

Location Layout for Permian Basin Up to 12,000'

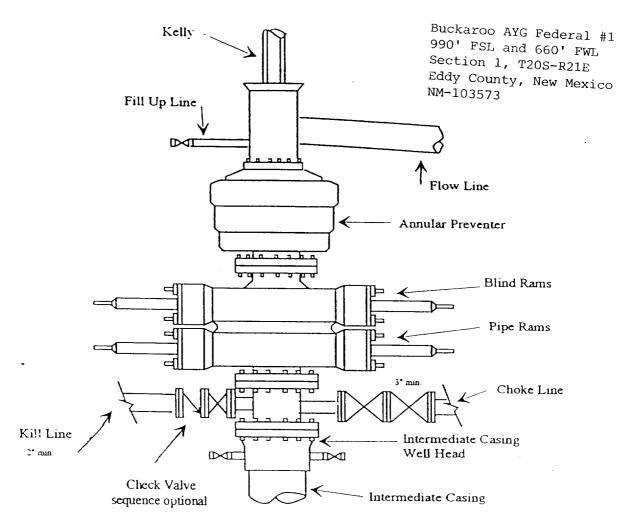
PHS North.

Buckaroo AYG Federal #1 990' FSL and 660' FWL Section 1, T20S-R21E Eddy County, New Mexico NM-103573



### Yates Petroleum Corporation

Typical 3,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimun features

