811 3. 15 15 ARTESIA PAREL

Form 3160-3 (August 1999)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

Lease Serial No.

NM-19421

APPLICATION FOR PERMIT TO D	.5	6. If Indian, Allottee or	If Indian, Allottee or Tribe Name			
1a. Type of Work: DRILL REENTE	er Section		7. If Unit or CA Agreeme	ent, Name and No.		
1b. Type of Well: Oil Well A Gas Well Other	Single Zone Mult	iple Zone	8. Lease Name and Well Catterson "SS"	No.		
2. Name of Operator YATES PETROLEUM CORPORATION	7		9. API Well No. 30 - 005- 6	332 4		
3a. Address 105 South 4th Street	b. Phone No. (include area code) (505) 748-1471 10. Field and Pool, or Explore Wildcat Precam			oratory		
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		
At surface 660' FSL and 1750' FWL, Uni	t Letter N		Sec. 21, T7S-	R26E		
14. Distance in miles and direction from nearest town or post office* 20 miles E/NE of Roswell, New Mexi	co		12. County or Parish Chaves	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 866.14	17. Spacin	pacing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5355'	NM-2811				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3699	22. Approximate date work will st. ASAP	art*	23. Estimated duration 30 days			
	24. Attachments					
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No.1, shall be a	tached to this	s 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 SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Item 20 above).  5. Operator certific	cation. specific info	ns unless covered by an exis	_		
25. Signature	Name (Printed/Typed)		Dat	e		
Title Permit Apent	PAT	ERE	2	5-31-2000		
- Permit Agent						
Approved by (Signature)	Name (Printed/Typed)		Da su	AN UU 2001		
Title Acting	Office States		4. e, e	EDECRIVEAR		

Application approval es not warrant or certify the 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 appressing 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, fictitions or transdulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SOECIAL STIPULATIONS

DISTRICT I 1686 M. Franch Dr., Hobbs, MM 86240 DISTRICT II 811 South First, Artesia, NM 86210

1000 Rio Brazos Ed., Astec, NM 67410

DISTRICT IV 2040 South Pacheco, Santa Fc, NM 87506

DISTRICT III

#### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies For Lease - 3 Copies

### 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 N	ame
		Wildcat Precambrian	
Property Code	Property Name  CATTERSON "SS" FEDERAL		. Well Number 8
OGRID No. 025575	-	rator Name	Elevation
023373	TAIES PEIRO	LEUM CORPORATION	3699

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
N	21	75	26E		660	SOUTH	1750	WEST	CHAVES

#### 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/Vest line	County
Dedicated Acres	Joint o	r Infill Co	msolidation (	Code Or	der No.	<u></u>			
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  I hereby certify the the information contained herein is true and complete to the best of my knowledge and beliaf.  Lat face, Signature
		Signature  Pat Perez  Printed Name  Perm: t Agent  Title  5-31-2000  Date  SURVEYOR CERTIFICATION
NM	-1942	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.  8/03/2000  Date Surveyed
3693 3700 1750' 3697 & 3704		Certificate No. Herschel S. ones RLS 3640 CATTERSON 8. DISK 32 GENERAL SURVEYING COMPANY

# YATES PETROLEUM CORPORATION Catterson "SS" Federal #8 660' FSL AND 1750' FWL Section 21, T7S-R26E Chaves County, New Mexico

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

San Andres	715'
Glorieta	1740'
Yeso	1865'
Tubb	3290'
Abo	3465'
Wolfcamp	4573'
Cisco	5140'
Basement	5255'
TD	5355'

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

Water: 200'-300' Oil or Gas: 3682'

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" 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>	Thread	Coupling	Interval	<u>Length</u>
12 1/4" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	J55 J55			0-950' 0-5355	

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

## Catterson "SS" Federal #8 Page 2

#### B. CEMENTING PROGRAM:

Surface casing: Cement with 325 sx. Lite "C" (Yld 2.0 Wt. 12.5). Tail in with 200 sx "C" + 2% CaCl2 (Yld 1.33 Wt. 15.6).

Production Casing: Cement with 350 sx ultralite "C" + 8# Silica Lite, 5# Salt (Yld 1.34 Wt 13). TOC 3200'

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-950' F'	W Gel/Paper/LCM	8.6-9.6	32-36	N/C
950'-5355'	Brine	10-10.2	28	N/C
5355'-TD	Polyachrilamide	10-10.2	34-38	<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' samples out from surface casing.

Logging: Platform Express, DLL/ND, CNL/LDT to surface, with GR/CNL to surface,

Platform Express TD to surface.

Coring: None

DST's:None

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

Anticipated BHP:

From: 0 To: 950' Anticipated Max. BHP: 400 PSI From: 950' To: TD Anticipated Max. BHP: 2200 PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 145 F

#### 8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 30 days to drill the well with completion taking another 15 days.

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

Yates Petroleum Corporation Catterson "SS" Federal #8 660' FSL and 1750' FWL Section 21, T7S-R26E 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 wellsite is located approximately 22 miles northeast of Roswell New Mexico and the access route to the location is indicated in red and green on Exhibit A.

#### **DIRECTIONS:**

Proceed east of Roswell on Highway 70 approximately 15 miles to Aztec Road (next to the Acme Schoolhouse). Turn left (north) and go approximately 6 miles to Bayard Road, turn left (west) and drive approximately 1 mile to the cattle guard. Across the cattle guard about 300', the road is staked on the left (south) side. Approximately 750' from the road is the northeast corner of the well location.

#### 2. PLANNED ACCESS ROAD

The proposed new access road will be approximately 14' in width and 750' in length from the point of origin to the northeast edge of the drilling pad. The road will lie in a north to south direction.

#### 3. LOCATION OF EXISTING WELL

- A. There is 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 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, possibly in Roswell, and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

## Catterson "SS" Federal #8 Page 2

#### 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 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.
- D. The pits will be put to the northeast.

#### 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 after they have evaporated and dried.

SURFACE OWNERSHIP: Carl W. and Pauline Madison - SW/4 U.S. - SE/4

HC 31, Box 1327

Roswell, New Mexico 88201

An agreement was reached with Mr. Madison concerning surface damages.

#### 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.

## Crosby "SS" Federal #8 Page 3

#### 13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

B. Through Drilling Operations, Completions and Production:

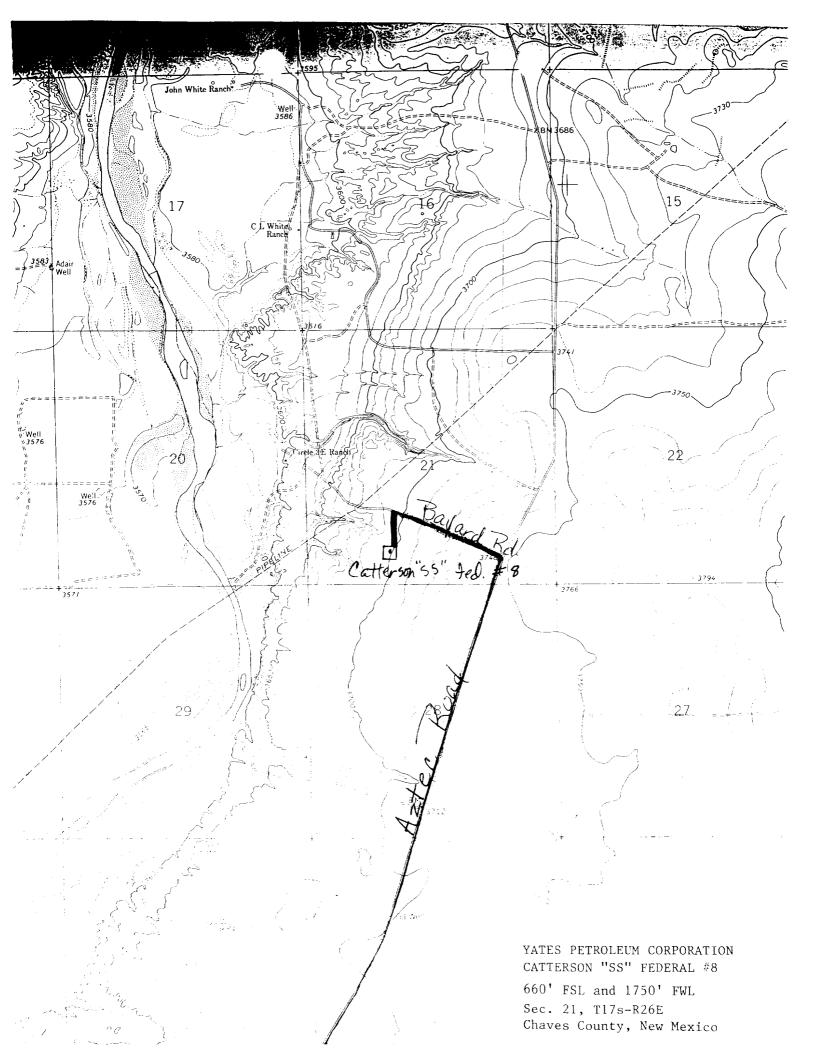
Randy G. Patterson, Land Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 Brian Collins, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

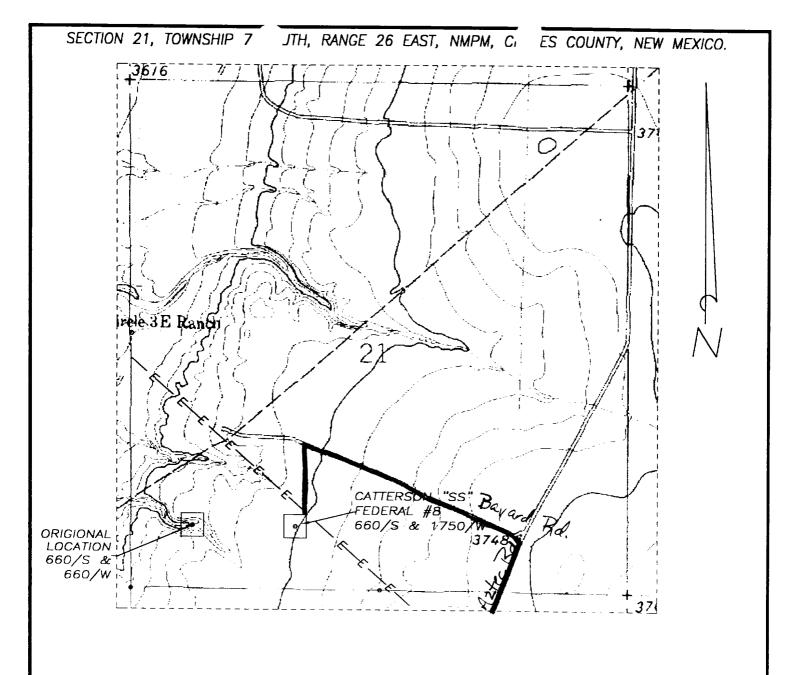
#### 14. CERTIFICATION:

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.

8/31/00

Permit Agent





YATES PETROLEUM CORP.

CATTERSON "SS" FED. #8
660' FSL and 1750' FWL
Sec. 21, T17S-R26E
Chaves County, New Mexico
EXHIBIT A-1

THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASES WERE DONE UNDER MY DIRECTION AND THE PEAT ACCURATELY DEPICTS THE RESULTS OF SAID SURVEY AND MEET THE REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND TAND SURVEYORS.

HERSCHEL L. JONES R.L.S. No.3640

GENERAL SURVEYING COMPANY P.O. BOX 1928 Drawn By: Ed Bler LOVINGTON, NEW MEXICO 88260 Date: B/04/00

10<u>00' 0 1000' 20</u>00' Scale 1" = 50'

## YATES PETROLEUM CORP.

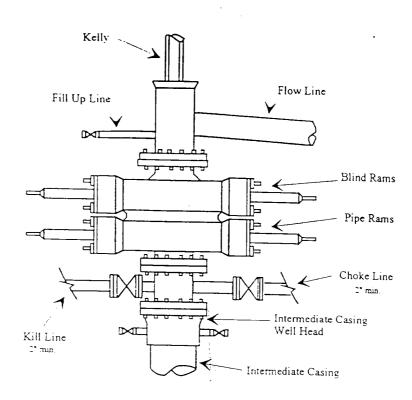
Scale 1" = 1000' CATTERSON8

LEASE ROAD TO ACCESS THE YATES CATTERSON "SS" FEDERAL #8 LOCATED IN SECTION 21, TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

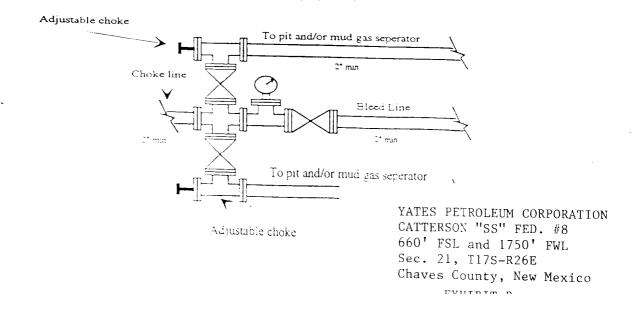
	emeo.			
Survey Date: 8/03/2000	Sheet 1			
	aneet 1	<u> </u>	1	_ Sheets
Drawn By: Ed Blevins	W.C. Number			

## Yates Petroleum Corporation

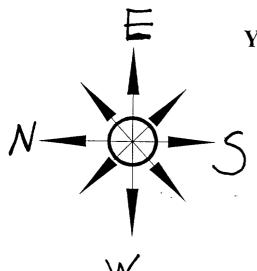
Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack



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





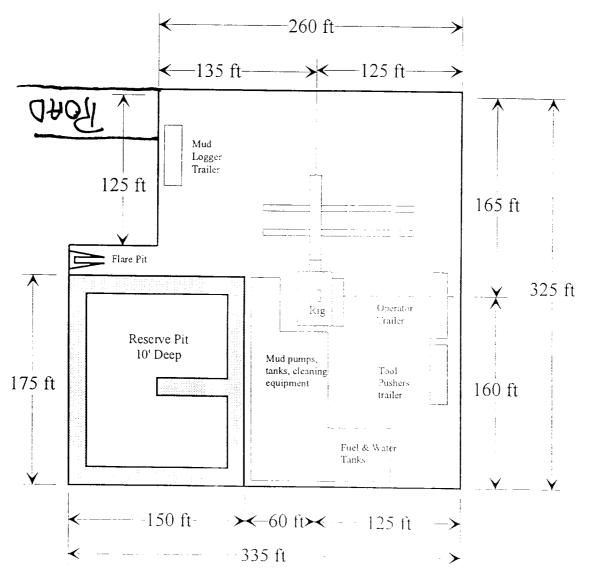


Yates Petroleum Corporation

Location Layout for Permian Basin Up to 12,000'

> YATES PETROLEUM CORPORATION CATTERSON "SS" FED. #8 660' FSL and 1750' FWL Sec. 21, T17S-R26E Chaves County, New Mexico

> > EXHIBIT C



Distance from local Head to Reserve Pit will vary between rings

The above dimension should be a maximum

