Form 3160-3 (August 1999) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANAGE		PECENED ARIESM	FORM APP O OMB No. 10 Expires Novemb	004-0136 ber 30, 2000 -18483	· · · · · · · · · · · · · · · · · · ·
APPLICATION FOR PERMIT TO DR	ILL OR REENTER		6. If Indian, Allottee or	Tribe Name	
1a. Type of Work:	R		7. If Unit or CA Agreem	581	lo.
1b. Type of Well: Oil Well X Gas Well Other	Single Zone Multi	ple Zone	8. Lease Name and Well Morton SZ Fe		
Name of Operator YATES PETROLEUM CORPORATION	25575		9. API Well No. 30 - 005 -	/3247	
3a. Address 105 South Fourth Street Artesia, New Mexico 88210	3b. Phone No. (include area code) (505) 748-1471		10. Field and Pool, or Exp Wildcat		
4. Location of Well (Report location clearly and in accordance with a	nny State requirements.*)		11. Sec., T., R., M., or BI	k. and Survey or	Area
At surface 1980' FSL and 1980' FEL			Section 10,	T8S-R25E	
At proposed prod. zone Same	7				
14. Distance in miles and direction from nearest town or post office* Approximately 18 miles northeast of	Roswell, New Mexico.		12. County or Parish Chaves Coun	13. State	Mexico
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 640	17. Spacing E/2	Unit dedicated to this wel		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5390	20. BLM/BI 58599	A Bond No. on file 97		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3623 [†]	22. Approximate date work will sta ASAP	art*	23. Estimated duration 15 days		
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	tached to this f	form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). Sands the 5. Operator certific	cation. specific infor	nunless covered by an eximation and/or plans as n	_	`
25. Signature	Name (Printed/Typed)		Da		
Title Ovon	і Су	Cowan	; F	ebruary 2	2, 2000
Regulatory Agent					
Approved by (Signature)	Name (Printed/Typed) (ORIG. SGD.)	i abastrin	★ 5.1	ate	0
Assistant Field Manager, Acting Lands And Minerals	Office State of the state of th				
Application approval does not warrant or certify the the applicant holds le operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in	1 the subject le	ase which would entitle th	e applicant to con	nduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to	a crime for any person knowingly are any matter within its jurisdiction.	nd willfully to	make to any department of	or agency of the	United
*/Instructions on an annual					

*(Instructions on reverse)

MECEINED

BURLEY CARD HUMI

DISTRICT I P.O. Box 1980, Hobbs, NM 58240 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

OIL CONSERVATION DIVISION P.O. Box 2088

F.U. BOX 2000 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	W:	ildcat Precambrian
Property Code	Property Name MORTON "SZ" FEDERAL	Well Number
OGRID No.	Operator Name	Elevation
025575	YATES PETROLEUM CORPORATION	3623

Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	J	10	85	25E		1980	SOUTH	1980	EAST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townsh	ц́р	Range	Lot I	dn	Feet from the	North/South line	Feet from the	East/West line	County
											<u> </u>
Dedicated Acres	Joint o	r Infill	Co	nsolidation (Code	0r	der 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

NM	18483	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and ballaf. Signature
	52 #2 0	Cy Cowan Printed Name Regulatory Agent Title February 22, 2000 Date SURVEYOR CERTIFICATION
3623 3620 3624 3622	1980' -	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 bollef. 11/29/1999 Date Surveyed Signature-8-15chl/or
1980′	57 0 \$4	Signature (1-18-11) of Professional Surveyor (1-18-

YATES PETROLEUM CORPORATION MORTON SZ FEDERAL #5 1980' FSL AND 1980' FEL Section 10,-T8S-R25E Chaves County, New Mexico

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

San Andres	380'	Basement Granite	5290'
Glorieta	1385'	TD	5390′
Yeso	1500'		
Tubb	2935′		
Abo	3635'		
Wolfcamp	4395'		

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

Water:

200'-300'

Oil or Gas:

3635' to 5930'

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	<u>Casing</u>	Size Wt./Ft	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
12 1/4"	8 5/8"	24#	J55	ST&C	0-1000'	1000′
7 7/8"	5 1/2"	15.5#	J55	ST&C	0-5390'	5390'

- 1. Minimum Casing Design Factors: Callapse 1.125, Burst 1.0, Tensile Strength 1.80
- 2. Yates Petroleum Corporation requests that a variance be granted in requiring the casing and BOPE to be tested to 2000 PSI to testing the casing and BOPE to 500 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 500 PSI. We would have to go to the greater expense of hiring an independent service to do the testing. Also, the maximum shut-in bottom hole pressure is 500-1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.

Morton SZ Federal #5 Page 2

B. CEMENTING PROGRAM:

Surface casing: Cement with 350 sx Lite "C" (Yield 2.0, Wt. 12.5). Tail in with 200 sx "C" + 2% CaCl2 (Yield 1.33, wt. 15.6).

Production Casing: TOC 3100'. Cement with 350 sx Super "C" (Yield 1.67 Wt ,13.0).

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
Spud - 1000'	FW Gel/Paper/LCM	8.6-9.6	32-36	N/C
1000' - 3610'	Brine	10-10.2	28	N/C
3610' to TD	Salt Gel/Starch/Oil/LCM	9.0-9.3	34-35	<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 to TD.

Logging: Plat Form Express: CNL/LDT w/NGT TD to surface casing; CNL/GR up to

surface; DLL/MSFL TD to surface casing; BHC Sonic TD to surface

casing

Coring: None anticipated. DST's: None anticipated.

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

Anticipated BHP:

From: 0 To: 1000' Anticipated Max. BHP: 400 PSI

From: 1000' To: TD Anticipated Max. BHP: 1100 PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H2S Zones Anticipated: None

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 Morton SZ Federal #5 1980' FSL and 1980' FEL Section 10-T8S-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.

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 18 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 approximately 13 miles to One Horse Road. Turn right (east) on One Horse Road and go approximately 2.5 miles then continue to the northeast on Cottonwood Road for approximately 4.5 miles. Turn east and follow existing lease road for approximately 4.4 miles to the Morton SZ Federal #4 well. Continue north on the existing lease road for approximately 0.3 of a mile. The new access road will start here going west.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 0.2 of a mile in length from the point of origin to the northeast corner of the drilling pad. The road will lie in an east to west 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 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 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 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 any surfacing materials needed and will obtain any permits that may be needed for construction.

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, and the access road approach.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.
- D. Pad will be rotated with the pits to the south.

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.
- 11. SURFACE OWNERSHIP: Federal surface administered by Bureau of Land Management, Roswell, New Mexico.

Morton SZ Federal #5 Page 3

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.

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:

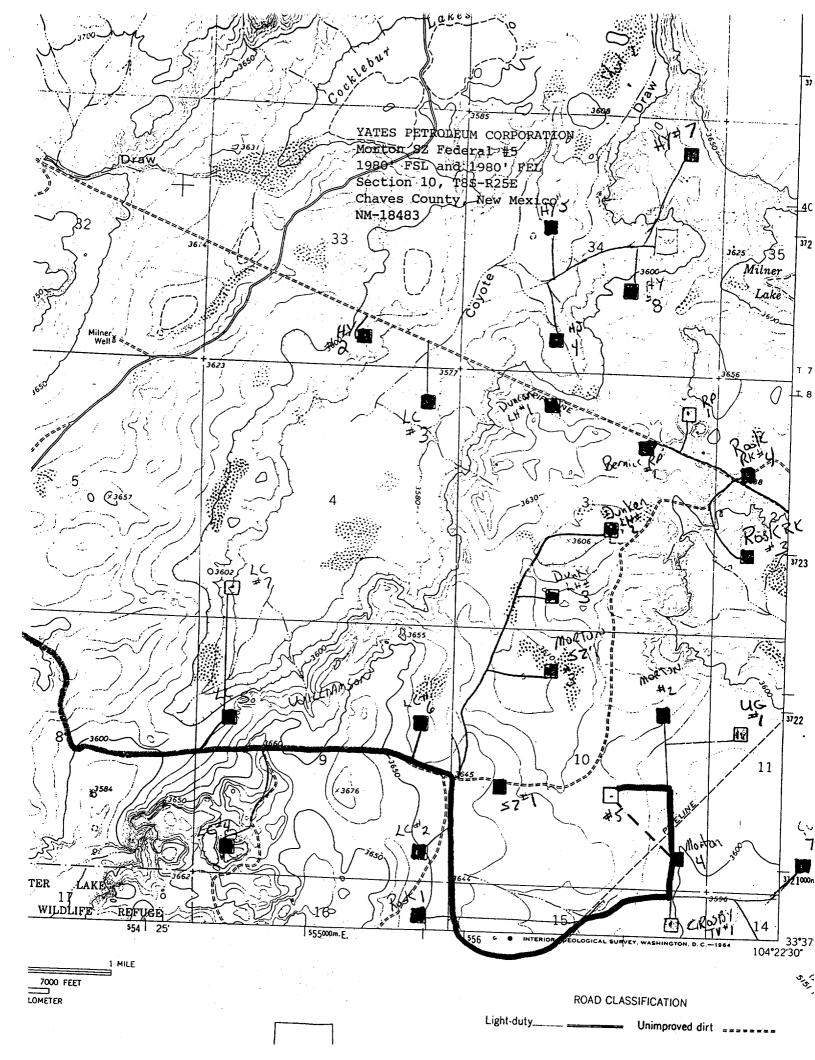
Brian Collins, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

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.

2/22/00

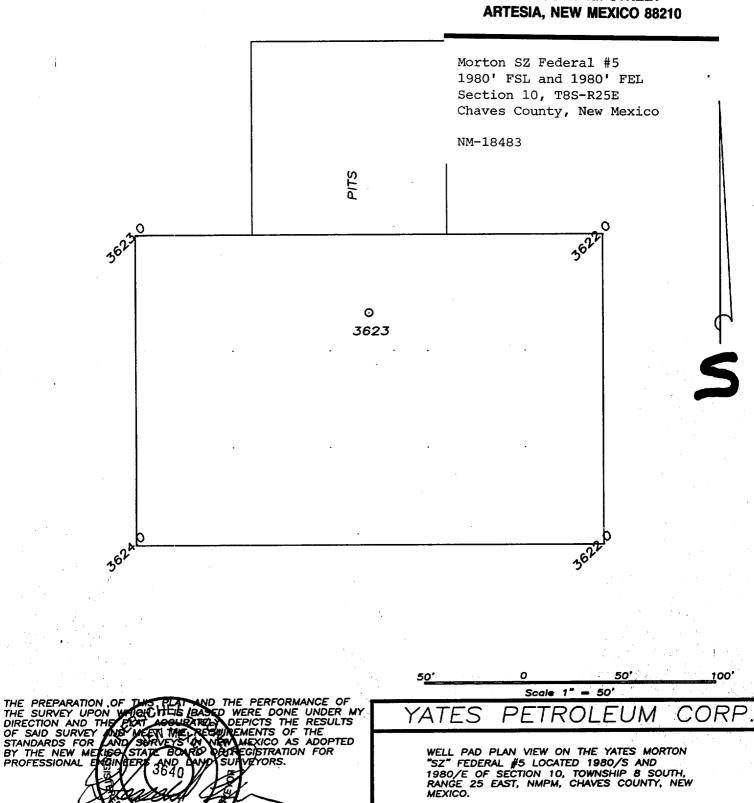
Regulatory Agent



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YATES PETROLEUM CORPORATION MORTON "SZ" FED.#5 1980/S & 1980/E SECTION 10, TOWNSHIP 8 SOUTH, RANGE 25 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Yates Petroleum Corporation 105 SOUTH 4th STREET



Survey Date: 10/29/99

Drawn By: Ed Blevins

Date: 10/29/99

NY P.O. BOX 1928

NEW MEXICO 88260

GENERAL SURVE

LOVINGTON

Sheet 1

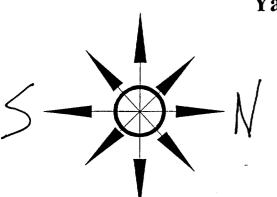
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MORTON

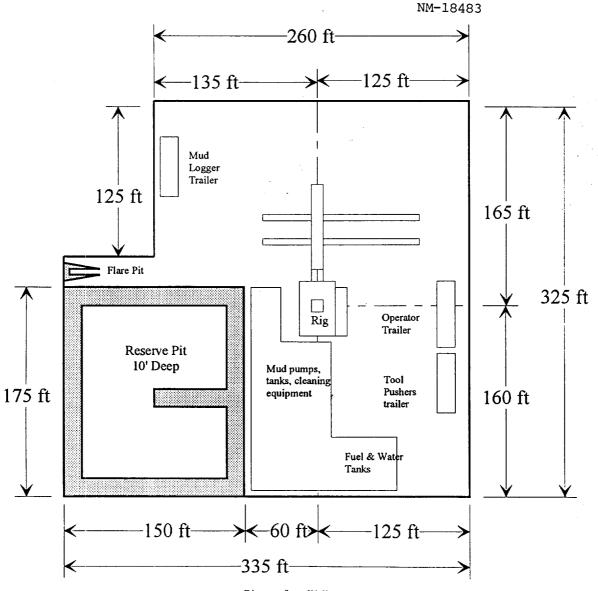
Yates Petroleum Corporation

Location Layout for Permian Basin Up to 12,000'



Yates Petroleum Corporation 105 SOUTH 4th STREET ARTESIA, NEW MEXICO 88210

Morton SZ Federal #5 1980' FSL and 1980' FEL Section 10, T8S-R25E Chaves County, New Mexico



Distance from Well Head to Reserve Pit will vary between rigs

The above dimension should be a maximum

Yaces Petroleum Corporation

Schematic Double Ram Preventer Stack

Typical 2,000 psi Pressure Syster Yates Petroleum Corporation 105 SOUTH 4th STREET

Morton SZ Federal #5 1980' FSL and 1980' FEL Kelly Section 10, T8S-R25E Chaves County, New Mexico Flow I NM-18483 Fill Up Line **Blind Rams** Intermediate Casing Well Head Kill Line 2º min. Intermediate Casing

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

