

N.M. Oil Cons. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia NM 88210

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

0  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

**NM-19825**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

**Doris Federal #6**

9. API Well No.

**30-005-63545**

10. Field and Pool, or Exploratory

**Wildcat**

11. Sec., T., R., M., or Blk, and Survey or Area

**Section 14, T5S-R24E**

12. County or Parish

**Chaves County**

13. State

**NM**

1a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

**Yates Petroleum Corporation**

3A. Address **105 South Fourth Street**

**Artesia, New Mexico 88210**

3b. Phone No. (include area code)

**(505) 748-1471**

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

**NESE 1980' FSL and 1000' FEL**

At proposed prod. Zone

**same as above**

14. Distance in miles and direction from nearest town or post office\*

**Approximately twenty (35) miles northwest of Roswell, New Mexico**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

**1000**

16. No. of Acres in lease

**320 acres**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.

**1500**

19. Proposed Depth

**5380**

20. BLM/BIA Bond No. on file

**NM-2811**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

**3951' GL**

22. Approximate date work will start\*

23. Estimated duration

**30 Days**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature

Name (Printed/Typed)

**Robert Asher/Land Department**

Date

**1/18/05**

Email: [debbiec@ypcnm.com](mailto:debbiec@ypcnm.com)

Title: **Regulatory Agent / [debbiec@ypcnm.com](mailto:debbiec@ypcnm.com)**

Approved by (Signature)

**/S/LARRY D. BRAY**

Name (Printed/Typed)

**/S/LARRY D. BRAY**

**MAR 09 2005**

Title

**Assistant Field Manager,  
Lands And Minerals**

Office

**ROSWELL FIELD OFFICE**

**APPROVED FOR 1 YEAR**

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

\*(Instructions on reverse)

**C144 approved 11/05/04**

**Previously Approved**

CEMENT TO COVER ALL OIL,  
GAS AND WATER BEARING  
ZONES i.e. Gloriosa

RECEIVED

MAR 12 2005

OFF-ARTESIA

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name <b>Wildcat Basement</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>DORIS FEDERAL</b>	<sup>6</sup> Well Number <b>6</b>
<sup>7</sup> OGRID No. <b>025575</b>	<sup>8</sup> Operator Name <b>Yates Petroleum Corporation</b>	<sup>9</sup> Elevation <b>3951'</b>

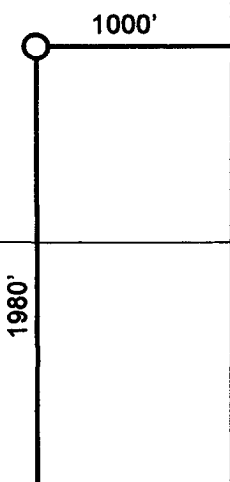
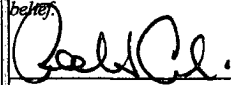
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>1</b>	<b>14</b>	<b>5S</b>	<b>24E</b>		<b>1980</b>	<b>South</b>	<b>1000</b>	<b>East</b>	<b>Chaves</b>

<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>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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

<sup>16</sup>						<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <b>Robert Asher</b> Printed Name <b>Regulatory Agent</b> Title <b>1/18/2005</b> Date
						<sup>18</sup> 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. <b>REFER TO ORIGINAL PLAT</b> Date of Survey Signature and Seal of Professional Surveyor:
						Certificate Number

**YATES PETROLEUM CORPORATION**

**Doris Federal #6**

1980' FSL & 1000' FEL

Section 14-T5S-R24E

Chaves County, New Mexico

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

San Andres	685'	Basement Granite	5280'
Glorieta	1445'	TD	5380'
Yeso	1560'		
Tubb	2395'		
Abo	3560'		
Wolfcamp	4400'		

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

Water:	200'-300'
Oil or Gas:	3550' to 5380'

3. Pressure Control Equipment: BOPE will be installed on the 11 3/4" 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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Size Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-900'	900'
11"	8 5/8" *	24#	J-55	ST&C	0-1500'	1500'
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-5380'	5380'

\* 8 5/8" casing will be set only if lost circulation is encountered.

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.80
2. A 2,000 psi BOP will be nipped up on the 8 5/8" casing and tested to 500 psi. YPC requests 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 company to do the testing. Also, the bottom hole pressure in this field is proven to be near 500 psi due to depletion. A shut in surface pressure would be less than 500 psi. The Abo formation usually requires stimulation before it flows\*. We feel that a 500 psi test will demonstrate that the BOPE is functioning properly, and in the unlikely event of a gas influx that the BOPE would be sufficient to control the well.

**B. CEMENTING PROGRAM:**

Surface casing: Cement with 200 sx Lite "C" (Yield 2.0 Wt. 12.5). Tail in with 200 sx "C" + 2% CaCl<sub>2</sub> (Yield 1.33, Wt. 15.6).

Intermediate casing: 250 sx Lite (Yield 2.0, Wt. 12.0). Tail in with 200 sx "C" + 2% CaCl<sub>2</sub> (Yield 1.32 Wt. 14.8).\*

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

\*If intermediate casing not set, hole size will be reduced from 11" to 7 7/8" at 1500'.

**5. MUD PROGRAM AND AUXILIARY EQUIPMENT:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud-900'	FW Gel/Paper/LCM	8.6-9.0	32-36	N/C
900'-1500'	Cut Brine	8.6-9.0	29	N/C
1500'-3520'	Brine	10.0-10.2	28	N/C
3520'-TD	Salt Gel/Starch/Oil/LCM	9.0-9.8	34-45	<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 under surface casing to TD.

Logging: CNL/LDT, w/NGT TD to surface casing; CNL/GR 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: 900'	Anticipated Max. BHP: 375 PSI
From: 900'	To: TD	Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H<sub>2</sub>S 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 20 days to drill the well with completion taking another 10 days.

**MULTI-POINT SURFACE USE AND OPERATIONS PLAN**  
**YATES PETROLEUM CORPORATION**  
**Doris Federal #6**  
1980' FSL & 1000' FEL  
Section 14-T5S-R24E  
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 32 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

**DIRECTIONS:**

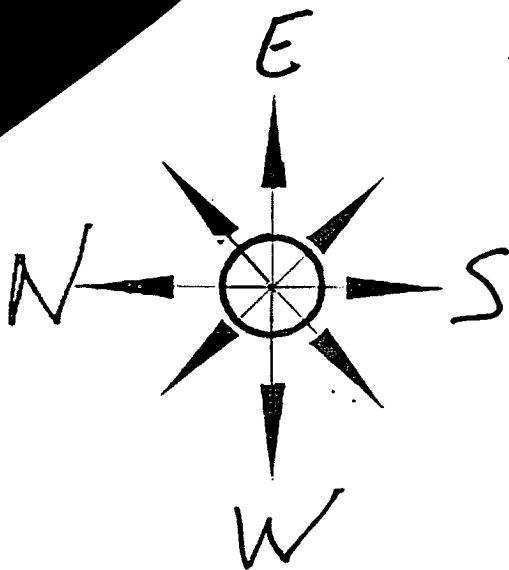
Go north of Roswell on Highway 285 for approximately 23 miles to Dona Ana. Turn east on Dona Ana Road and go approximately 7.1 miles continue northeast on Dona Ana Road and go approximately 4 miles to the Stancell Corral. Continue north for approximately 0.9 of a mile. Turn left and go approximately 0.3 of a mile to the Doris Federal #1. From the cattle guard just east of the Doris Federal #1 turn northeast on existing ranch road and go approx. 0.3 of a mile. The new access road will start here going northwest.

**2. PLANNED ACCESS ROAD:**

- A. The proposed new access will be approximately .100' in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a(n) southeast/northwest 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.

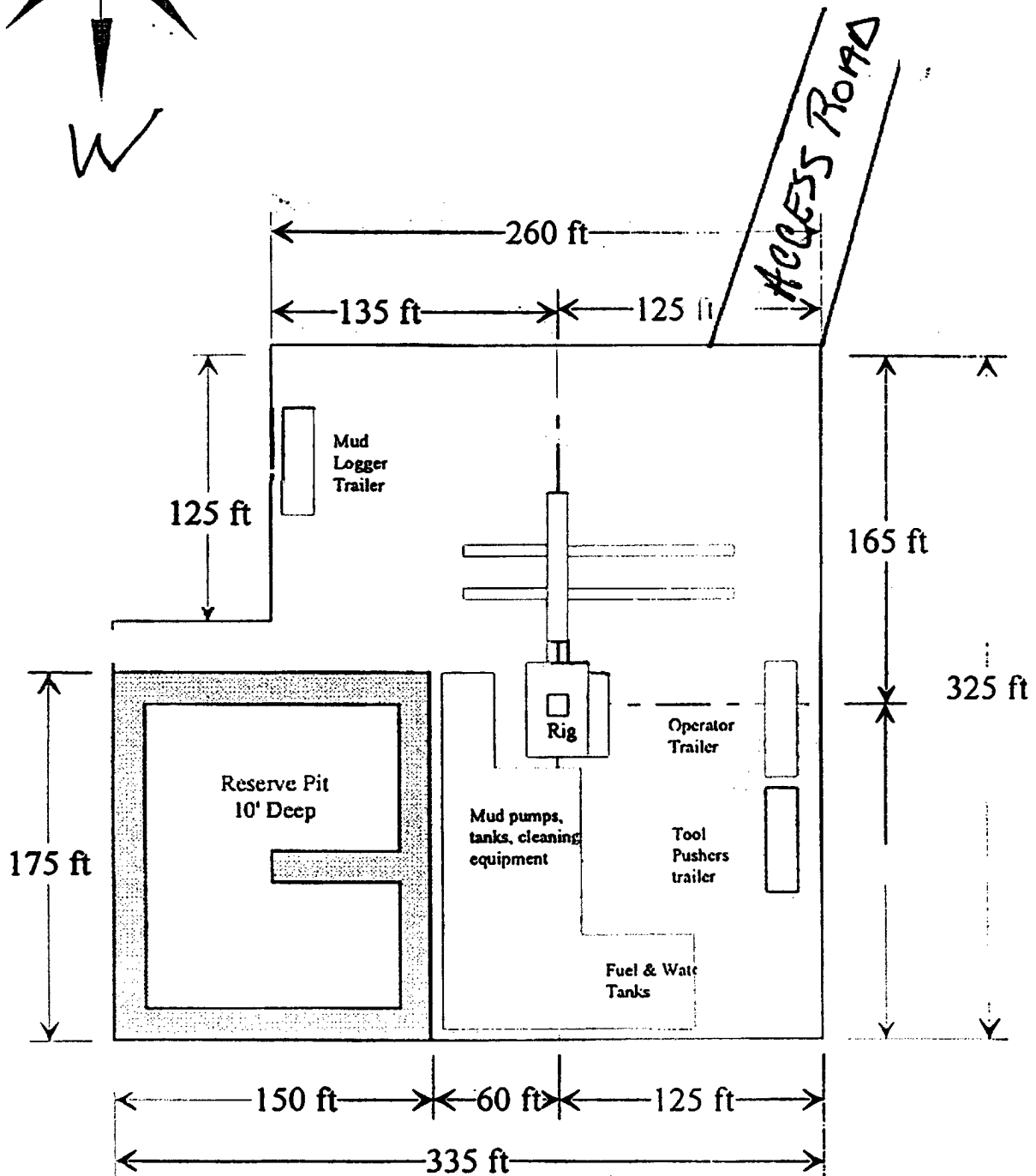
**3. LOCATION OF EXISTING WELL:**

- A. There is 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.



**Yates Petroleum Corporation**  
Location Layout for Permian Basin  
Up to 12,000'

Doris Federal #6  
1980' FSL & 1000' FEL  
Section 14, T5S-R24E  
Chaves County, New Mexico  
NM-19825



Distance from Well  
Head to Reserve Pit  
will vary between rigs

The above dimension  
should be a maximum

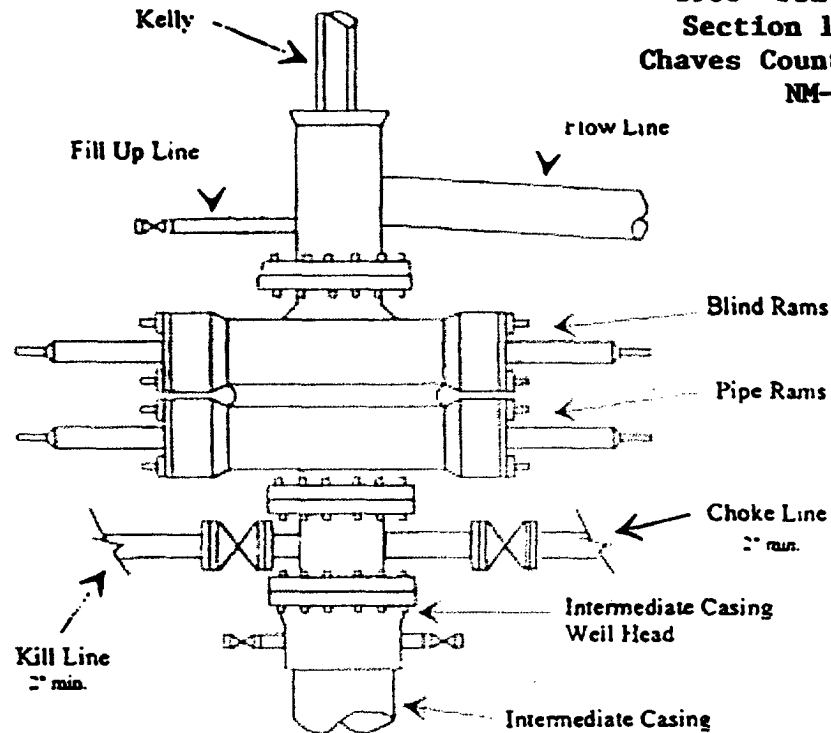
# Yates Petroleum Corporation

BOP-2

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

Y

Doris Federal #6  
1980' FSL & 1000' FEL  
Section 14, T5S-R24E  
Chaves County, New Mexico  
NM-19825



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

