A Secretary Control

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

123456 Seg 101513 JUN 2000 OCD ARTIESIA EX ST. Lease Se

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

Lease Serial No.

NM-10458

APPLICATION FOR PERMIT TO	6. If indian, Allottee of Tribe Name	
1a. Type of Work: 🚺 DRILL 🔲 REE	ENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well 🔀 Gas Well 🔲 Other	Single Zone Multip	8. Lease Name and Well No. Cc 1/1/ Ole Zone Duncan LH Federal #4
2. Name of Operator YATES PETROLEUM CORPORATION 99	55.75	9. API Well No. 30-005-6325
3a. Address 105 South Fourth Street Artesia, New Mexico 88210	3b. Phone No. (include area code) (505) 748-1471	10. Field and Pool, or Exploratory Peocs Slope Abo
 Location of Well (Report location clearly and in accordance At surface 1980' FNL and 1650' FWL At proposed prod. zone Same 	with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area Section 3, T8S-R25E
14. Distance in miles and direction from nearest town or post offic Approximately 21 miles northeast	e* of Roswell, New Mexico.	12. County or Parish 13. State Chaves County New Mexic
15. Distance from proposed* location to nearest property or lease line, ft. 1980* (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 480.00	17. Spacing Unit dedicated to this well NW/4
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1000	19. Proposed Depth -4100' 5' (40'	20. BLM/BIA Bond No. on file 585997
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	t* 23. Estimated duration 30 days

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 officer.

25. Signature		Name (Printed/Typed) Cy Cowan	Date 3/7/00
Title	Regulatory Agent	i cy cowan	1 37 17 33
Approved by	(Signature) IS/LAVING L. CONTROL	Name (Printed/Typed)	Date
Title	Assistant Field Manager,	Office Park Table Park	

24. Attachments

Application approval does not warrant to carrie 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)

Notify OCD at SPUD & TIME to witness cementing the casing.



A STATE OF THE STA

DISTRICT III 1000 Eto Branco Bd., Asten, HM 87410

Joint or Infill

Dedicated Acres
320

Consolidation Code

State of New Mexico Bang, Marsh and Return Resources Department

Form C-102
Revised February 10, 1884
Instruction on back
Submit to Appropriate District Office
State Lease - A Covice

State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

II AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number			Pool Code		Pool Name Wildcat Precambrian			
		;							
Property	Code			Property Name			Wall No	Well Number	
				DUN	ican "Lh" fedet	N "LH" FEDERAL 4			
OGRID N	io.				Operator Nam	16		Eleva	tion
02557	5		YATES PETROLEUM CORPORATION 3638						
					Surface Loc	ation		•	
IL or lot No.	Section	Township	Pange	Lot Idn	Fest from the	North/South line	Feet from the	East/West line	County
F	3	85	25E		1980	NORTH	1650	WEST	CHAVES
		<u> </u>	Bottom	Hole Lo	cation If Diffe	erent From Sur	face		
II. or lot Mo	Section	Township	Penee	Lot Idn	Pest from the	North/South line	Test from the	East/Vest line	County

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

Order No.

		OPERATOR CERTIFICATION
NM-10458	NM-19417	I hereby certify the the information contained herein is true and complete to the best of my infoliable and high;
3638 3641 1650'		Cy Cowan Printed Name Regulatory Agent Title March 17, 2000
3644 3636		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 supervisors, and that the man is true and
		Dat Stratus & See 1 10 1 10 1 10 1 10 1 10 1 10 1 10
		Certificato de Hasenol L. Jones RLS 3640 DUNCAN 4 DISK 25 GENERAL SURVEYING COMPANY

YATES PETROLEUM CORPORATION **DUNCAN LH FEDERAL #4** 1980' FNL AND 1650' FWL Section 3.-T8S-R25E **Chaves County, New Mexico**

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

San Andres	355'
Glorieta	1330'
Yeso	1455'
Tubb	2865′
Abo	3565′
TD	4100'

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

Water:

200'-300'

Oil or Gas: 3565' to 4100'

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:

- Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, Α. 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:
 - Α. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing</u>	<u>Size Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
12 1/4"	8 5/8"	24#	J55	ST&C	0-1100'	1100′
7 7/8"	4 1/2"	10.5#	J55	ST&C	0-4100'	4100′

- 1. Minimum Casing Design Factors: Collapse 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.

Duncan LH Federal #4 Page 2

B. CEMENTING PROGRAM:

Surface casing: Cement with 350 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: TOC 3100'. Cement with 350 sx Super "C" (YLD 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 - 1100'	FW Gel/Paper/LCM	8.6-9.6	32-36	N/C
1100' - 3540'	' Brine	10-10.2	28	N/C
3540' 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: 20' samples out from surface casing to TD.

Logging: DLL/MSFL TD; DSN/SDL TD to surface casing; GR/DSN to surface.

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

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

Anticipated BHP:

From: 0 To: 1100' Anticipated Max. BHP: 400 PSI From: 1100' 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 Duncan LH Federal #4 1980' FNL and 1650' FWL Section 3-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 21 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 6 miles. Turn east on to an existing pipeline road and go approximately 1.2 miles to the Duncan LH Federal #1 well location. On the east side of this location turn south on the existing lease road and go approximately 0.2 of a mile. The new well location will be on the west side of the road.

2. PLANNED ACCESS ROAD:

- A. No road access will be needed.
- B. N/A.
- C. N/A
- D. The route of the roads in the area are visible.
- 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.

LOCATION AND TYPE OF WATER SUPPLY: 5.

It is planned to drill the proposed well with a fresh water system. The water Α. 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.

SOURCE OF CONSTRUCTION MATERIALS: 6.

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: 7.

Α. Drill cuttings will be disposed of in the reserve pits.

Drilling fluids will be allowed to evaporate in the reserve pits until the pits are В.

Water produced during operations will be collected in tanks until hauled to an C. approved disposal system, or separate disposal application will be submitted.

Oil produced during operations will be stored in tanks until sold. D.

Current laws and regulations pertaining to the disposal of human waste will be Ε. complied with.

All trash, junk, and other waste materials will be contained in trash cages or F. bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

ANCILLARY FACILITIES: One 2" buried steel natural gas pipeline will be constructed. 8.

9. **WELLSITE LAYOUT:**

- Exhibit C shows the relative location and dimensions of the well pad, the Α. reserve pits, and the access road approach.
- The reserve pits will be plastic lined. В.
- A 400' x 400' area has been staked and flagged. C.
- Pad will be rotated with the pits to the south.

PLANS FOR RESTORATION 10.

After finishing drilling and/or completion operations, all equipment and other Α. 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.

Unguarded pits, if any, containing fluids will be fenced until they have dried В.

and been leveled.

- If the proposed well is non-productive, all rehabilitation and/or vegetation C. 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.
- of Land Bureau administered bv SURFACE OWNERSHIP: Federal surface 11. Management, Roswell, New Mexico.

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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:

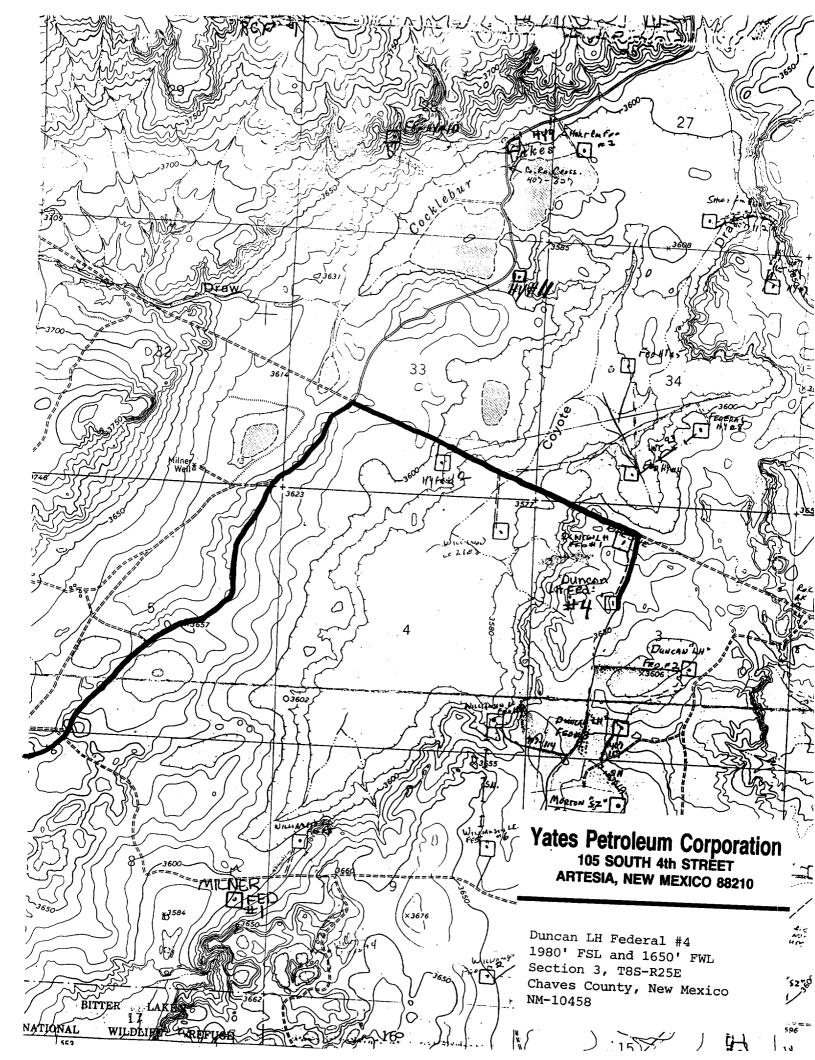
Brian Collins, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

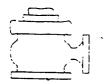
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and , that the work associated 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.

3/7/00

Regulatory Ager

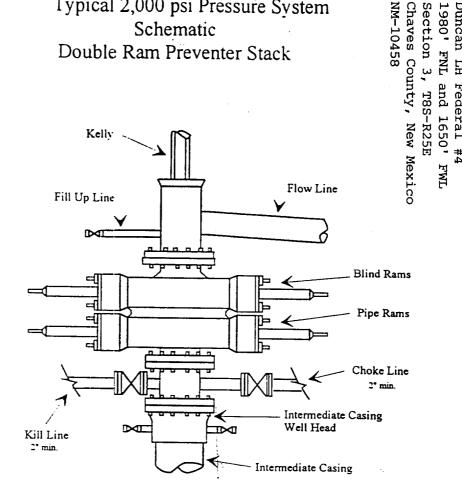


NM-10458

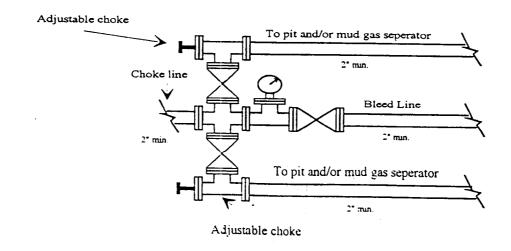


Yates Petroleum Corporation

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

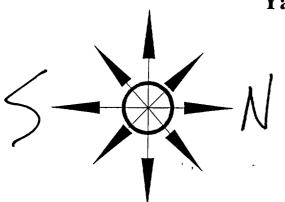


Typical 2,000 psi choke manifold assembly with at least these minimun features



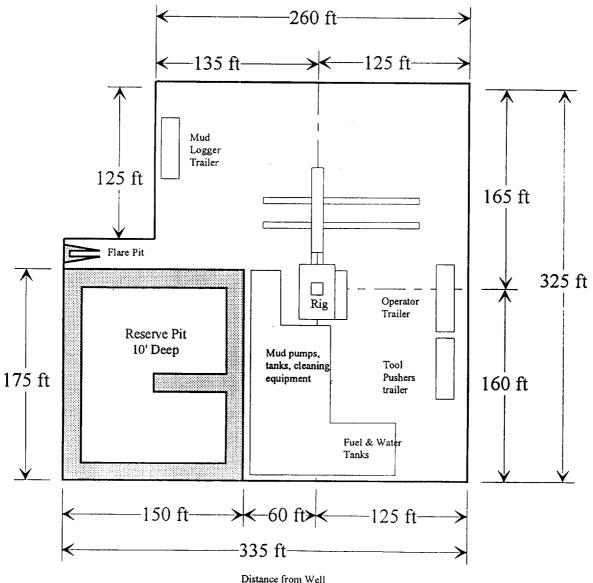
Yates Petroleum Corporation Location Layout for Permian Basin

Up to 12,000'



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

Duncan LH Federal #4 1980' FNL and 1650' FWL Section 3, T8S-R25E Chaves County, New Mexico NM-10458



Distance from Well Head to Reserve Pit will vary between rigs

The above dimension should be a maximum

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