3160-3 (August 1999)

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OMB No. 1004-0136 Expires November 30, 2000

RECEIVED Lease Serial No.

NM-13979 SEP 2 8 20056. If Indian, Allottee or Tribe Name

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APPLICATION FOR PERMIT TO DRILL OR RE	EENTER	
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OCU: ARTEOM **Not Applicable** 7. If Unit or CA Agreement, Name and No. 1a. Type of Work: **X** DRILL REENTER **Not Applicable** 8. Lease Name and Well No. Oil Well Gas Single Multiple Zone b. Type of Well: Other Dekalb PG Federal Com. #2 9. API Well No. 2. Name of Operator -005 **Yates Petroleum Corporation** 3b. Phone No. (include area code) 3A. Address 105 South Fourth Street Wildcas: Graniz Artesia, New Mexico 88210 (505) 748-1471 11. Sec., T., R., M., or Blk, and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 1980' FNL and 660' FWL, SWNW At surface Section 25, T10S-R25E same as above At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State NM Approximately ten (10) miles east of Roswell, NM **Chaves County** Distance from proposed 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 320 acres 660' 800.00 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. on file 5940' 5.625 NM-2811 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 22. Approximate date work will start* 3749' GL **ASAP** 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. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification. SUPO shall be filed with the appropriate Forest Service Office. Such other site specific information and/or plans as may be required by the authorized office 25. Signature Name (Printed/Typed) Date Robert Asher 9/14/2005 Title: Regulatory Agent Name (Printed/Typed)/S/LARRY D. BRAY Approved by (Signature)

/S/LARRY D. BRAY Assistant Field Manager. Title **IOffice** ROSWELL FIELD OFFICE Lands And Minerals 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)

>9.5

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

State of New Mexico

Energy, Minerals and Natural Resources Depart

Form C-102 d Merch 17, 1999 instruction on back

> State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

. NM 88210

acheco, Santa Pe, NM 87505

Joint or Infill

azos Rd., Aztec, NM 87410 STRICT IV

Dedicated Acres

320

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

☐ AMENDED REPORT

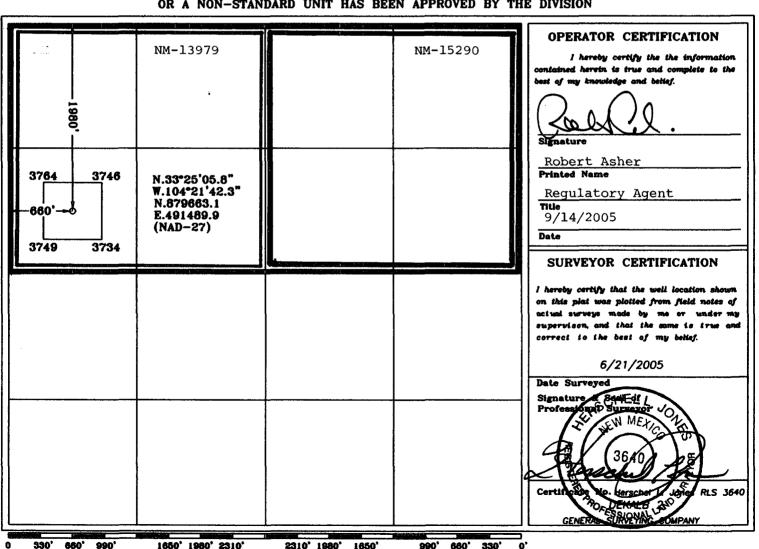
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			~	Pool Code Pool Name			Pool Name		
			9	654	<u> </u>	Wildcat			
Property Code		Property Name					Well Number		
			DEKALB "PG" FEDERAL COM.				2		
OGRID N	OGRID No. Operator Name				Elevation				
025575 YATES PETROLI				PETROLEUM CO	ORPORATION	3749			
					Surface Loca	ation			
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	105	25E		1980	NORTH	660	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/West line	County
									l

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.

Consolidation Code



obbs, NM 88240

and Avenue, Artesia, NM 88210

State of New Mexico Energy Minerals and Natural Resources

Form C-144 March 12, 2004

1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe

105 South Fourth Street, Artesia, NM 88210

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Vec CheckBoxl

Type of action: Registration of a pit or b	_	rade tank 🔲
	one: 505-748-4376 e-mail address: boba@vpcni	m.com 10S_R_25E
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐ Liner type: Synthetic ☒ Thickness _12 _ mil Clay ☐ Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If not,	JUL 0 6 2005
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	10
If this is a pit closure: (1) attach a diagram of the facility showing the pit's possible offsite. If offsite, name of facility date. (4) Groundwater encountered: No Yes If yes, show depth below diagram of sample locations and excavations. I hereby certify that the information above is true and complete to the best of rebeen/will be constructed or closed according to NMOCD guidelines, a pate: 7/5/2005 Printed Name/Title Robert Asher/Regulatory Agent S Your certification and NMOCD approval of this application/closure does not repulations.	my knowledge and belief. I further certify that the a general permit N, or an attached alternative OC ignature.	on taken including remediation start date and ender results. (5) Attach soil sample results and a above-described pit or below-grade tank has CD-approved plan the pit or tank contaminate ground water or
Approval; Date: 7 2005 Field Supervisor Printed Name/Title	SignatureSignature	

YATES PETROLEUM CORPORATION

Dekalb PG Federal Com. #2

1980' FNL and 660' FWL Section 25, T10S-R25E Chaves County, New Mexico

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

Queen	190'	Wolfcamp	4785'
Penrose	275'	WC B Zone	4870'
Grayburg	465'	Spear Zone	5135'
San Andres	705'	Cisco	5360'
Glorieta	1785'	Strawn	5495'
Yeso	1920'	Precambrian	5525'
Tubb	3345'	TD	5625'
Aho	4100'		

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

Water:

150'-300'

Oil or Gas:

All potential formations.

3. Pressure Control Equipment: BOPE will be installed on the 11 ¾" 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	Grade	Coupling	Interval
14 3/4"	11 3/4"	42#	H-40	ST&C	0-650'
11"	*8 5/8"	24#	J-55	ST&C	0-1600'
7 7/8"	5 ½"	15.5#	J-55	LT&C	0-5625'

^{*8 5/8&}quot; casing will only be set if lost circulation is encountered.

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

B. CEMENTING PROGRAM:

Surface Casing: 275 sx Lite "C" (YLD 2.1 WT 12.6). Tail w/200 sx C with 2% CaCL2 (YLD 1.32 WT 14.8).

Intermediate Casing: 400 sx Lite C (YLD 2.1 WT 12.6). Tail in w/200 sx

Class C with 2% CaCL2 (YLD 1.32 WT 14.8).

Production Casing: 500 sx Pecos Valley Lite (YLD 1.41 WT 13.0). TOC=3600'

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-650'	FW Gel/Paper/LCM	8.5 - 9.5	32-34	N/C
650'-1600'	Fresh Water	8.4	28	N/C
1600'-4050'	Brine	9.5 - 10.0	28	N/C
4050'-5625'	Starch/Salt Gel/4-6% KCL	9.6 - 9.8	45-55	<6/cc

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, surface casing to TD.

Logging: Platform Express: CNL/LDT/NGT TD-Surf csg; CNL/GR TD-Surf;

DLL/MSFL TD - Surf csg; BHC Sonic TD-Surf csg;

Coring: None DST's: None.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0 TO: 650' Anticipated Max. BHP: 320 PSI From: 650' TO: 1600' Anticipated Max. BHP: 700 PSI From: 1600' TO: 5625' Anticipated Max. BHP: 2870 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

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 20 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Dekalb PG Federal Com. #2

1980' FNL and 660' FWL Section 25, T10S-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 well site is located approximately 10 miles east of Roswell, New Mexico and the access route to the location is indicated in red (new) and green (existing) on Exhibit A.

DIRECTIONS:

Drive east of Roswell on Hwy 380, approximately 6.5 miles to Arlene Road on the left side of the highway. Turn left on Arlene Road, go through cattle guard and continue north for approximately 0.9 mile to a old two track road (NE) turn right and continue northeast for approximately 1.0 miles, the new lease road is staked on the right (SE), turn right follow staking southeast for approximately 0.1 of a mile to the NE corner of the location.

PLANNED ACCESS ROAD:

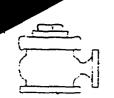
- A. The proposed new access will be approximately 609' in length from the point of origin (old two-track road) to the northeast corner of the drilling pad. The road will lie in a northwest to southeast direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. Existing roads will be maintained in the same or better condition.

LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

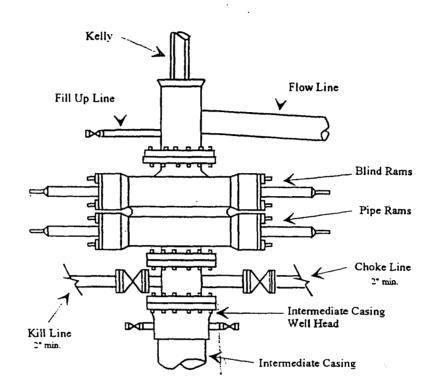
- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.



Yates Petroleum Corporation Dekalb PG Federal Com. #2 1980' FNL and 660' FWL Section 25, T10S-R25E Chaves County, New Mexico Exhibit "B"

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

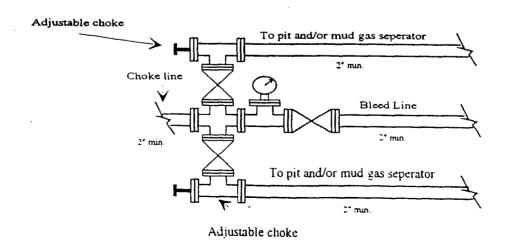


EXHIBIT A

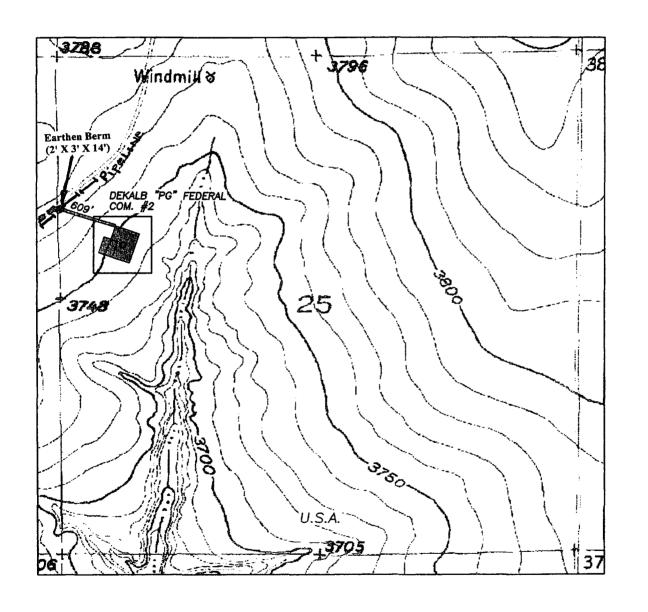
OPERATORS NAME: Yates Petroleum Corporation LEASE NO.: NM-13979

WELL NAME & NO: Dekalb "PG" Federal Com. #2

QUARTER/QUARTER & FOOTAGE: SW'4NW'4 - 1980' FNL & 660' FWL

LOCATION: Section 25, T. 10 S., R. 25 E., NMPM

COUNTY: Chaves County, New Mexico





III. DRILLING OPERATION REQUIREMENTS:

A. GENERAL DRILLING REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272, in sufficient time for a representative to witness:
- A. Spudding
- B. Cementing casing: 11¾ inch 85% inch 5½ inch
- C. BOP tests
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 5. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

B. CASING:

- 1. The 11½ inch surface casing shall be set at 650′ and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8% inch intermediate casing if run is with sufficient amount of cement bring it up at least 200 above shoe.
- 3. The minimum required fill of cement behind the 5½ inch production casing is cement shall extend upward a minimum of 200 feet above the Glorieta formation.

C. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>11¾</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A. The results of the test shall be reported to the appropriate BLM office.
- B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- C. Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- D. BOPE shall be tested before drilling into the Wolfcamp formation.

D. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- A. Recording pit level indicator to indicate volume gains and losses.
- B. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- C. Flow-sensor on the flow-line to warn of abnormal mud returns from the well.