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

Artesia, NM 88210

Ferm 3160-3 (August 1999)

> UNITED STATES DEPARTMENT OF THE INTERIOR

RECEIVED

OMB No. 1004-0136 Expires November 30, 2000

5. Lease Serial No. NOV 1 6 2005 **BUREAU OF LAND MANAGEMENT** NM-14983 OOU-MATEON 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER **Not Applicable** 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of Work: 12575 8. Lease Name and Well No. Oil Well b. Type of Well: Gas Single x Multiple Zone Monaghan "QY" Federal #16 Well Zone 9. API Well No. 2. Name of Operator 30-005-63787 Yates Petroleum Corporation (25575) 3b. Phone No. (include area code) 3A. Address 105 South Fourth Street (505) 748-1471 Wildcat Precambrian Artesia, New Mexico 88210 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.*) 660' FNL and 1980' FEL, Unit B same as above Section 21, T5S-R24E At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State Approximately twenty-five (25) miles northeast of Roswell, New Mexico NM Chaves County Distance from proposed* location to nearest 17. Spacing Unit dedicated to this well 16. No. of Acres in lease property or lease line, ft. (Also to nearest drig. unit line, if any) 2560 320 acres - N/2 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 5230' NM-2811 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3988' 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 Name (Printed/Typed) Date Debbie L. Caffall 9/20/2005

Regulatory Technician / Land Department

Name (Printed/Typed)/S/LARRY D. BRAY Approved by (Signature) /S/LARRY D. BRAY Assisiant Field Manager, Title Office ROSWELL FIELD OFFICE **APPROVED FOR 1 YEAR** Lands And Minerals

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)

Previously Approved

C-144 Attached

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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DISTRICT I P.O. Bez. 1980. Hobbe, NM 58240 State of New Mexico

DISTRICT II P.B. Brawer DB, Artenia, FM 88210

DISTRICT III 1000 Rio Brazio Rd., Axtec, 104 87410

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

D AMENDED REPORT

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13Q1 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 **District IV** • 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

March 12, 2004

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

For downstream facilities, submit to Santa Fe office

105 South Fourth Street, Artesia, NM 88210

Pit or Below-Grade Tank Registration or Closure

d by a "general plan"? Yes		
pelow-grade tank 🗶 Closure of a pit or below-	grade tank	
433 U/L or Qtr/Qtr_ <u>NWNE_Sec_21T_SS</u>	6 R 24E	Private Indian
Construction material:	_	
Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	
Yes No	(20 points) (0 points)	NOV 0 1 MINA
Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	BEB ARTES!
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my knowledge and belief. I further certify that the general termit D, or an attached alternative of signature.	ple results. (5) Attach ne above-described pit OCD-approved plan [of the pit or tank contant	or below-grade tank has . ninate ground water or
	clow-grade tank Closure of a pit or below c: 505-748-4376 e-mail address:debblec@yr 433	c: 505-748-4376 e-mail address:debblec@ypcnm.com

YATES PETROLEUM CORPORATION Monaghan "QY" Fed. #16

660' FNL and 1980' FEL Section 21,-T5S-R24E Chaves County, New Mexico

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

San Andres	590'
Glorieta	1425'
Yeso	1550'
Tubb	2920'
Abo	3495'
Wolfcamp	4345'
Basement	5130'
TD	5230'

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

Water:

150'-200'

Oil or Gas: All potential zones.

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)

Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>
14 3/4	11 3/4"	42#	H-40	ST&C	0-900'
11	8 5/8"*	24#	J-55	ST&C	0-1500'
7/7/8"	5 1/2"	15.5#	J-55	ST&C	0-5230'

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

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
- 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 1000 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 1000 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 1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.

Monaghan "QY" Fed. #16 Page 2

A. CEMENTING PROGRAM:

Surface Casing: 200 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C"

+ 2% CaCL2 (YLD 1.32 WT 15.6).

Intermediate Casing: 250 sx Lite (YLD 2.0 WT 12.0) Tail with 200 sx Class C+2%

CACL2 (YLD 1.32 WT 14.8)

Production Casing: 350 sx Super "C" (YLD 1.67 WT 13.0). TOC 3100'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-900,	FW GEL,Paper,LCM	8.6 - 9.0	32-36	N/C
900'-1500'	Cut Brine	8.4 - 9.0	29	N/C
1500'-3470	' Brine	10 -10.2	28	N/C
3470'-5230	' Salt Gel/Starch/Oil/LO	CM 9.0-9.8	34-45	<10/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 out from under surface casing.

Logging: Platform Express CNL/LDT, W/NGT TD –Surf csg; with GR/CNL up to Surf:

DLL/MS FL TD-Surf csg; BHC Sonic TD-SURF CSG

Coring: None

DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 900' Anticipated Max. BHP: 375 PSI From: 900' TO: 5230' Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

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

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Monaghan "QY" Fed. #16 660' FNL and 1980' FEL Section 21,-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 25 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Drive North of Roswell on HWY 285 approx. 25 miles to Dona Ana Road & turn right. Drive approx. 10.5 miles (approx. 1000' past cattleguard & Stancel Corrals) to lease road on the left (North) side (Myco Sign on Road) Turn left & follow road past Stancel #1 location continue on road past Stancel #2. Follow road to the right – past Frank "SR" Com. #1 & past Huggins Fed. #1 – continue on rd. approx. 0.2 of a mile & turn left (West) at intersection & drive approx. 0.1 of a mile & turn left (SW) on lease road at intersection. Follow road south approx. 1 mile & turn right at intersection. Drive approx. 0.2 of a mile & turn left (South). Just before Grynberg 16 #2 well. Drive south approx. 0.2 of a mile to the Monaghan "QY" Fed. #4 where the access road is staked on the left (East) side of the road going east approx. 1000' to the southwest corner of the location.

PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 1000' in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a west to east 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.

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.

Monaghan "QY" Federal #16 Page 2

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:

Dirt contractor will locate nearest pit and obtain any permits and materials needed for construction.

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:

Yates Petroleum Corporation wishes to run a 1100' on lease 2" X-42 buried steel natural gas pipeline to connect the Monaghan "QY' Fed. #16 well and tie into existing pipeline connection the Monaghan "QY' Fed. #4

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.

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.

Monaghan "QY" Federal #16 Page 3

11. SURFACE OWNERSHIP:

Shannon Kaiser Buna Jean Glenn P.O. Box 56 Pep, NM 88126

An Agreement has been reached with the landowner

Concerning surface use in drilling this well.

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:**

Through A.P.D. Approval: Α. Robert Asher, Permit Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

B. Through Drilling, Completions & Prod. Pinson McWhorter, 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.

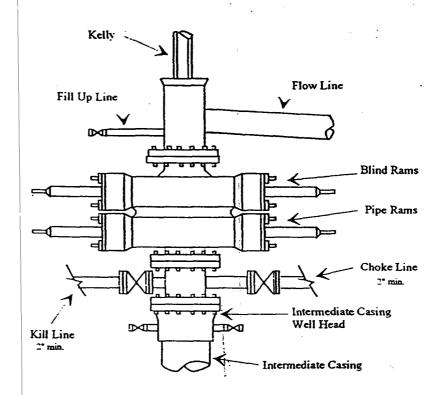
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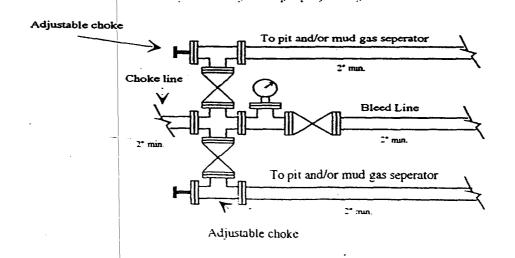
Yates Petroleum Corporation

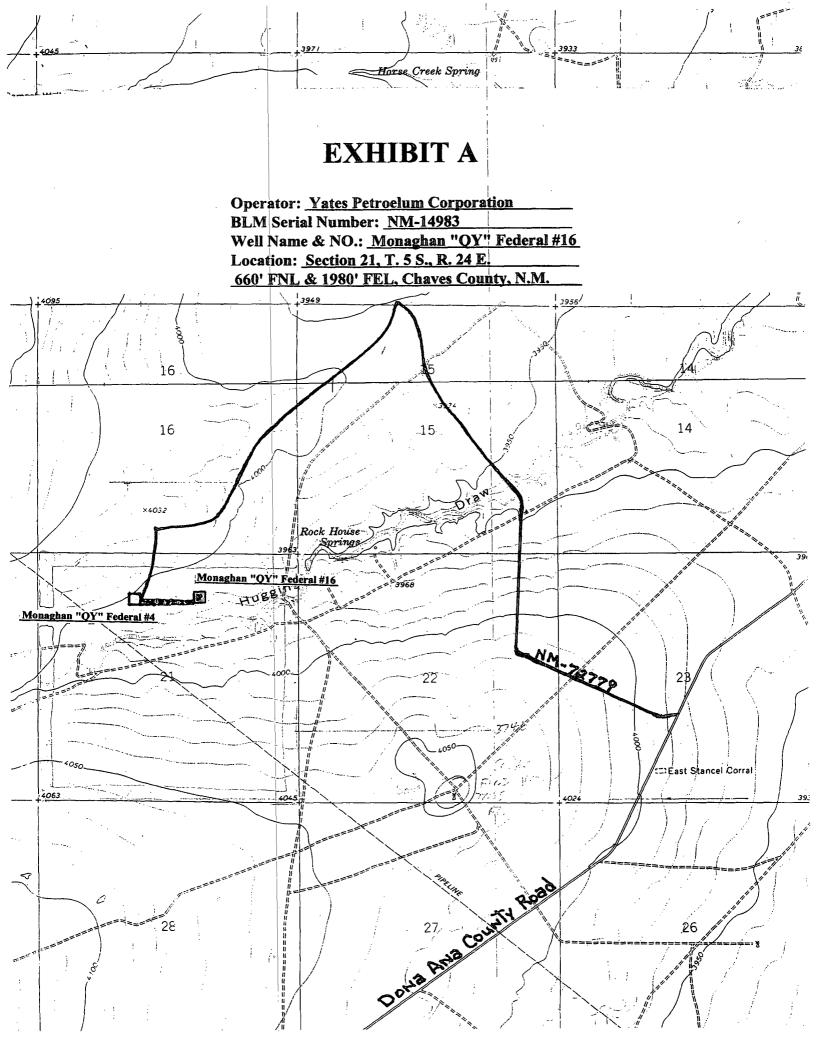
Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack

Yates Petroleum Corporation Monaghan "QY" Federal #16 660' FNL and 1980' FEL Sectioon 21-T5S-R24E Chaves County, New Mexico NM-14983 Exhibit "B"



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





WELL DRILLING REQUIREMENTS

3 of 5 pages

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: 11% inch 8% 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.

B. CASING:

- 1. The 11½ inch surface casing shall be set at 900′ 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 11½ 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.

C. 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.