

Oil Cons.
N.M. 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

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 **660' FSL and 1450' FEL, Unit O**
At proposed prod. Zone **same as above**

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

Approximately twenty (20) miles northeast of Roswell, New Mexico

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) **660'**

16. No. of Acres in lease
955.40

17. Spacing Unit dedicated to this well
320acres -S/2

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. **1925'**

19. Proposed Depth
5650'

20. BLM/BIA Bond No. on file
NM-2811

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3719' GL


22. Approximate date work will start*
ASAP

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** Date **5/13/04**

Email: debbiec@ypcnm.com

Title: **Regulatory Agent / Land Department**

Approved by (Signature) **/SLARRY D. BRAY** Name (Printed/Typed) **SLARRY D. BRAY** Date **JUL 02 2004**

Title **Assistant Field Manager,
Lands And Minerals** Office **ROSWELL FIELD OFFICE**

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)

CEMENT TO COVER ALL OIL,
GAS AND WATER BEARING
ZONES *Ceuer Gloriera*

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-	² Pool Code	³ Pool Name Undesignated Foor Ranch, North
⁴ Property Code	⁵ Property Name Margene AWM Federal	⁶ Well Number 4
⁷ OGRID No. 025575	⁸ Operator Name Yates Petroleum Corporation	⁹ Elevation 3719

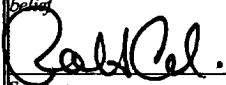
¹⁰ Surface Location

UL or lot no. O	Section 19	Township 9S	Range 26E	Lot Idn	Feet from the 660	North/South line South	Feet from the 1450	East/West line East	County Chaves
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¹¹ 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
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶					¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Robert Asher Printed Name Regulatory Agent Title 05/13/2004 Date
					¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number
	Margene AWM Federal #5 1980'	NM-26069	1980'	660'	1450'

DISTRICT II

11 South First, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

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 Undesignated Foor Ranch, North
Property Code	Property Name MARGENE "AWM" FEDERAL	Well Number 4
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3719

Surface Location

UL or lot No. 0	Section 19	Township 9S	Range 26E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 1450	East/West line EAST	County CHAVES
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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
Dedicated Acres 320	Joint or Infill	Consolidation Code	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

				OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Pat Perez Printed Name Regulatory Agent Title 5-21-2002 Date	
				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. Date Surveyed 5/08/2002 Signature of Professional Surveyor Certificate No. H. Rochell Jones RLS 3640 MARGENE GENERAL SURVEYING COMPANY	

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
YATES PETROLEUM CORPORATION
Margene "AWM" Federal #4
660' FSL and 1450' FEL
Section 19-T9S-R26E
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 20 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Roswell on HWY 380 to Alamo Road. Turn left on Alamo and drive 1.9 miles to Y. Take left fork for approx. 1.6 miles to another Y. Take right fork and drive approx. 2.3 miles to a crossroad. Turn right (North) and go approx. 1.9 miles (just before corrals). Turn right (East) and go around pit for approx. 0.8 of a mile to the Rolla TC #2 location. Follow road north approx. 0.9 of a mile to two-track road on the left (before Margene #1 Location). Turn left on road & drive approx. 0.8 of a mile to lease road & turn left. Drive south approx. 1900' where the lease access road is staked on the right (west) going approx. 1200' to the southeast corner of the location.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 1200' in length from the point of origin to the southeast corner of the drilling pad. The road will lie in an easterly 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 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.

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.

YATES PETROLEUM CORPORATION
Margene "AWM" Federal #4
660' FSL and 1450' FEL
Section 19-T9S-R26E
Chaves County, New Mexico

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

San Andres	795'
Glorieta	1860'
Yeso	1985'
Tubb	3415'
Abo	4180'
Wolfcamp	4805'
Cisco	5355'
Penn Clastics	5500'
TD	5650'

2. The estimated depths 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 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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>
12 1/4	8 5/8"	24#	J-55	ST&C	0-1100'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-5650'

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 formation pressure is 2200 PSI. Pressure at the surface is less than 1000 PSI. We feel that a 1000psi test will demonstrate that the BOPE is functioning properly and in the unlikely event of a gas in flux that the BOPE would be sufficient to control the well.
- W D

B. CEMENTING PROGRAM:

Surface Casing: Lead w/ 400 sx 35:65 POZ C + 6% D20 + 2% S1 + .125 #1 sx C130 (YLD 1.99 WT 12.6) Tail in w/ 200 sx Class C + 2% S1 (YLD 1.32 WT 14.8).

Production Casing: 550 sx Pecos Valley Lite (YLD 1.42 WT 13.0). TOC 500' Above Abo.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1100'	FW/Native Mud	8.6 - 9.6	32-36	N/C
1100'-4150'	Cut Brine/Brine	9.6 -10.2	28	N/C
4150'-5650'	Starch/Salt Gel	9.8 -10.0	40-45	<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 out from under surface casing.

Logging: CNL/LDT, W/NGT TD-Surf csg; with CNL/GR up to Surf; DLL/MSFL
TD-Surf csg: BHC Sonic TD-SURF CSG, FMI TD – Top of the Wolfcamp

Coring: Sidewall

DST's: None.

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

Anticipated BHP:

From: 0	TO: 1100'	Anticipated Max. BHP: 400 PSI
From: 1100'	TO: 5650'	Anticipated Max. BHP: 2000 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.

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 landfill. 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, 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 well site 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:** The access road and location is on private lands belonging to Mr. Jack Hagelstein, P.O. Box 3281, Roswell, NM 88201, Ranch (505) 623-7046. I certify that Yates Petroleum Corporation has reached an agreement with Mr. Hagelstein as to YPC's operations that are to be conducted on his lands.

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:
Robert Asher, Regulatory Agent
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

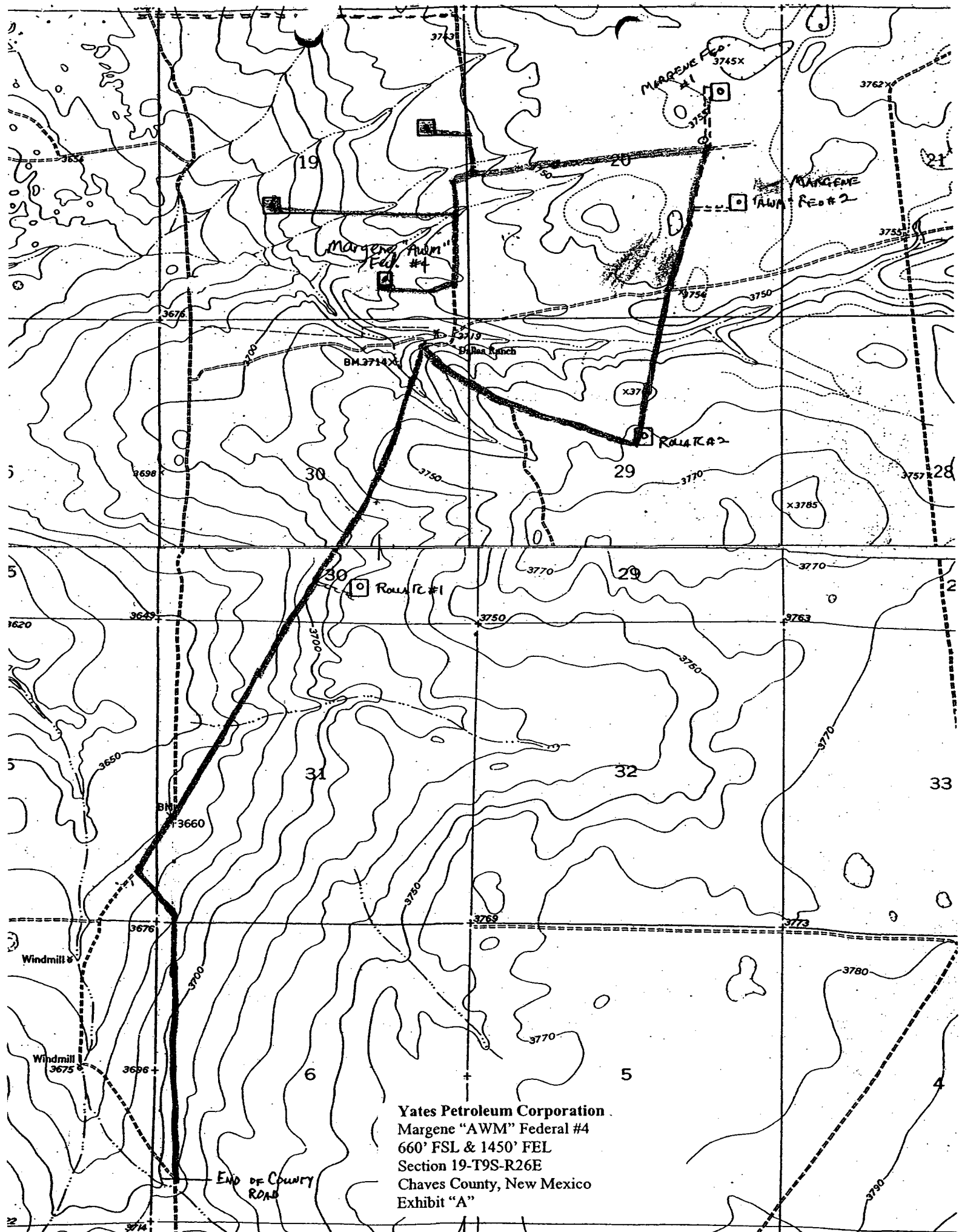
B. Through Drilling, Completions & Prod.
Pinson McWhorter, Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

14. CERTIFICATION:

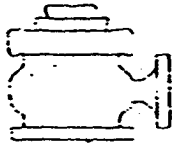
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated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

5/13/2004


Regulatory Agent



Yates Petroleum Corporation
Margene "AWM" Federal #4
660' FSL & 1450' FEL
Section 19-T9S-R26E
Chaves County, New Mexico
Exhibit "A"

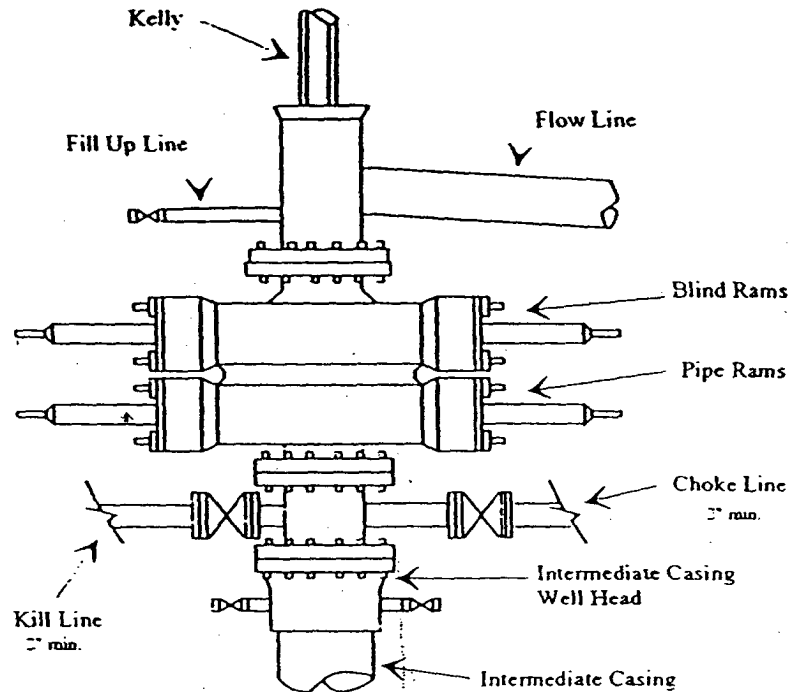


Yates Petroleum Corporation

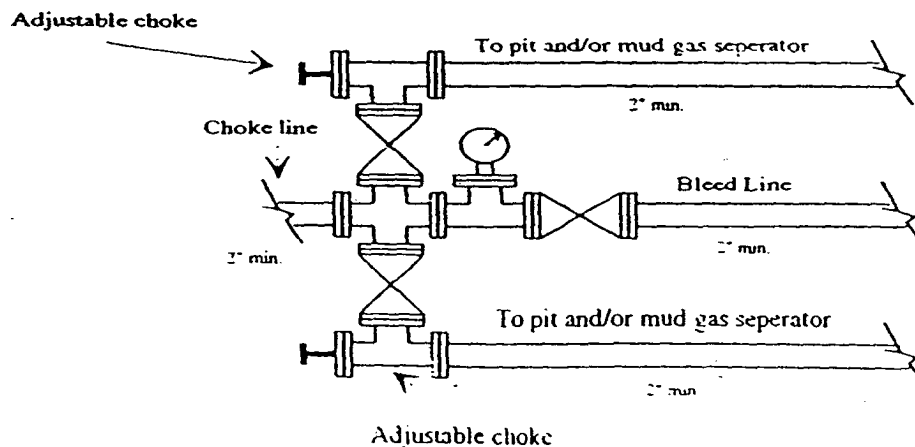
BOP-2

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

Yates Petroleum Corporation
Margene "AWM" Federal #4
660' FSL & 1450' FEL
Section 19-T9S-R26E
Chaves County, New Mexico
Exhibit "B"



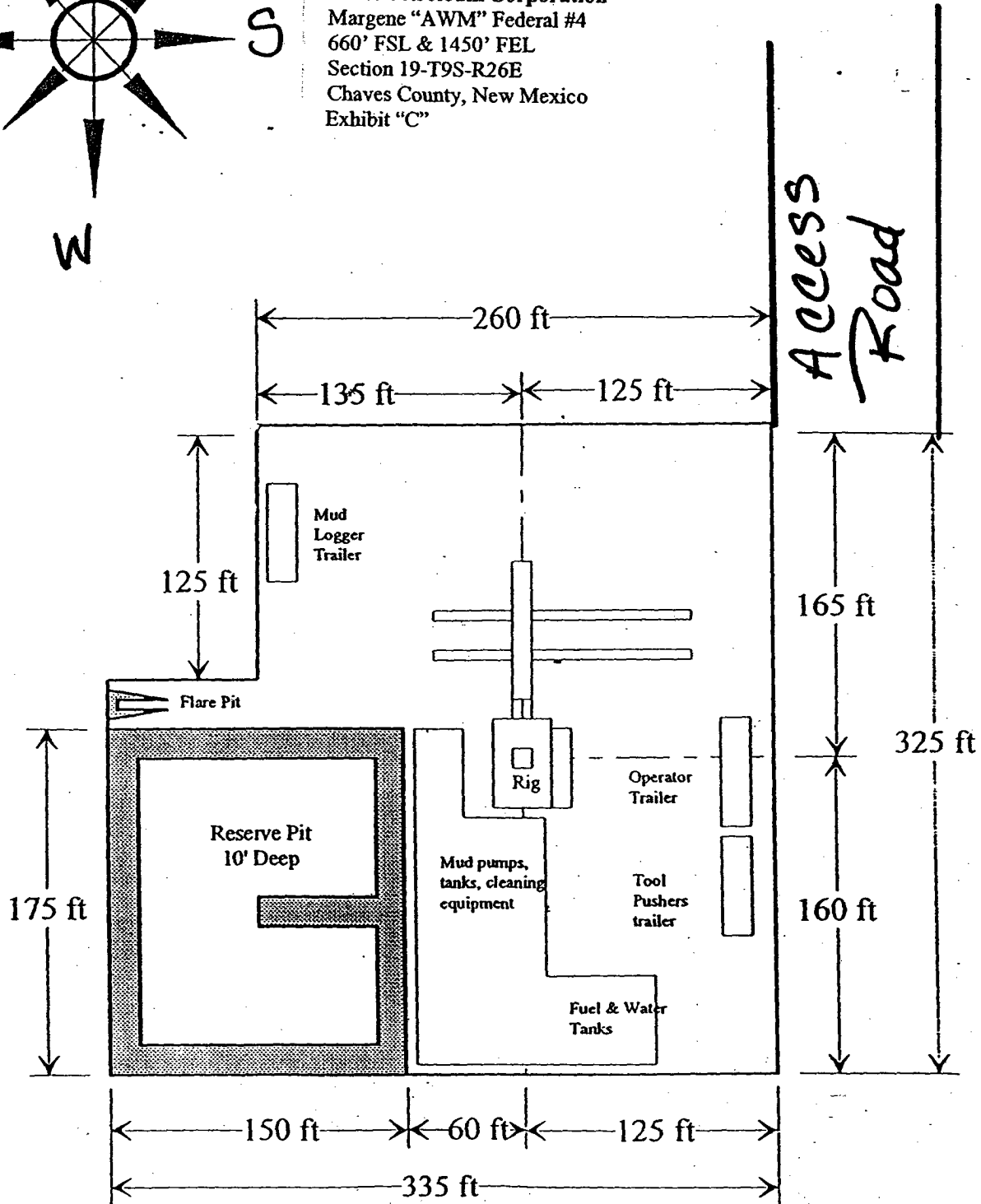
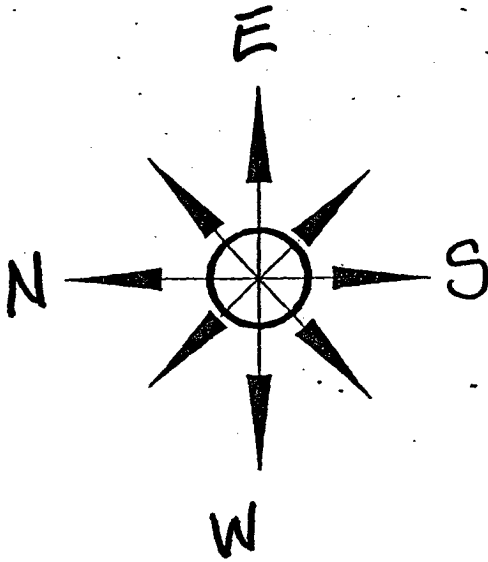
Typical 2,000 psi choke manifold assembly with at least these minimum features



Yates Petroleum Corporation

Location Layout for Permian Basin
Up to 12,000'

Yates Petroleum Corporation
Margene "AWM" Federal #4
660' FSL & 1450' FEL
Section 19-T9S-R26E
Chaves County, New Mexico
Exhibit "C"



Distance from Well
Head to Reserve Pit
will vary between rigs

The above dimension
should be a maximum

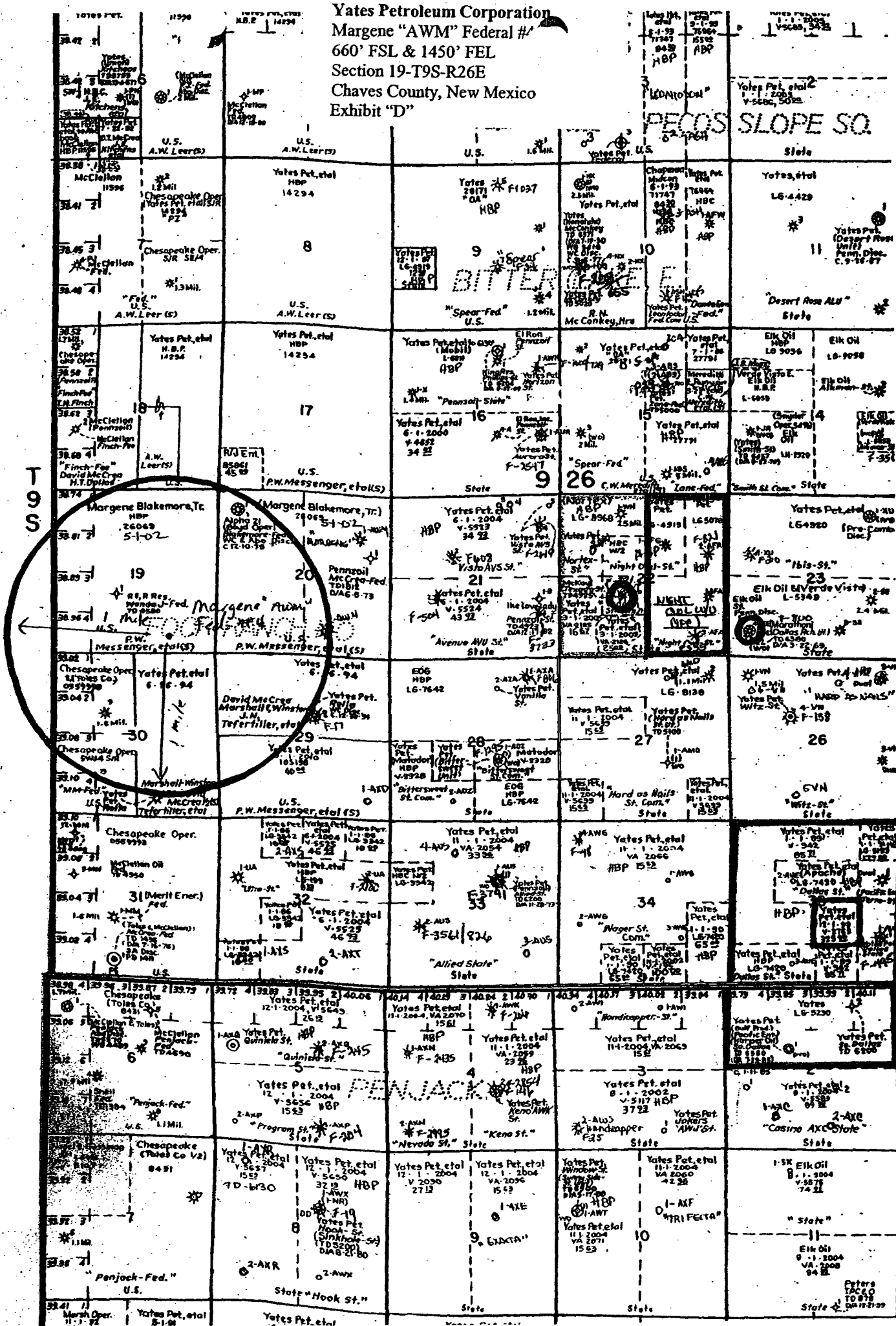
Yates Mt. et al
8-1-39
71987
8439
HBP

Yates Mt. et al
8-1-39
76987
8535
ADP

Yates Mt. et al
8-1-39
V-5608, 3435

Yates Mt. et al
8-1-39
V-5608, 5035

LEONIOSH
PECOS
SLOPE SQ.
State



MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986

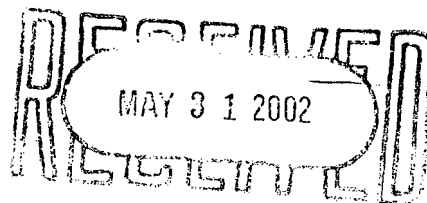


105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

May 21, 2002

United States Department of
the Interior
Bureau of Land Management
2909 W. Second Street
Roswell, NM 88202



Re: Margene "AWM" Federal #4 — *File*
660' FSL & 1450' FEL
Sec. 19, T9S-R26E
Chaves County, New Mexico

To Whom It May Concern:

An Application for Permit to Drill is being filed for the above captioned well on May 21, 2002. Jack Hagelstein privately owns the surface and the access route shown on the enclosed map is the route preferred by the landowner. Signature and date below is the owner's acknowledgment of access route choice to the Bureau of Land Management.

Please advise if there are any further requirements. Thank you.

Very truly yours,

YATES PETROLEUM CORPORATION

Pat Perez
Regulatory Agent

PP/rca
Enclosure(s)

Agreed and accepted this 25th day of May, 2002.

Jack Hagelstein