

1000 COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM2351	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Yates Petroleum Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 207 South 4th Street, Artesia, New Mexico		8. FARM OR LEASE NAME Federal "HY"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL + 1980' FEL		9. WELL NO. 2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 20 miles N NE of Roswell, NM		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 660'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T7S-R25E Unit 0 NMPM	
16. NO. OF ACRES IN LEASE 40		12. COUNTY OR PARISH Chaves	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. -		20. ROTARY OR CABLE TOOLS Rotary	
19. PROPOSED DEPTH Approx. 5050'		22. APPROX. DATE WORK WILL START* As soon as approved	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587.5' GR			

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11 or 12 1/2"	8 5/8"	24# J-55	Approx. 700'	Circulate
7 7/8"	5 1/2 or 4 1/2"	15.5 or 10.5#	TD	Circulate

We propose to drill and test the granite wash and intermediate formation. Approximately 700' of surface casing will be set and cement circulated. If commercial, 5 1/2" or 4 1/2" production casing will be run.

MUD PROGRAM: FW gel and LCM to 700', FW to 3200', KCL to 4300',  
Flosal-driskpak KCL to TD. MW 8.7 - 9.0, Vis 34-39, WL 14-7.

BOP PROGRAM: BOP's will be installed on 8 5/8" casing and tested daily.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Eddie L. Wright TITLE Engineer DATE 3/21/79  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 3-30-79

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-100  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

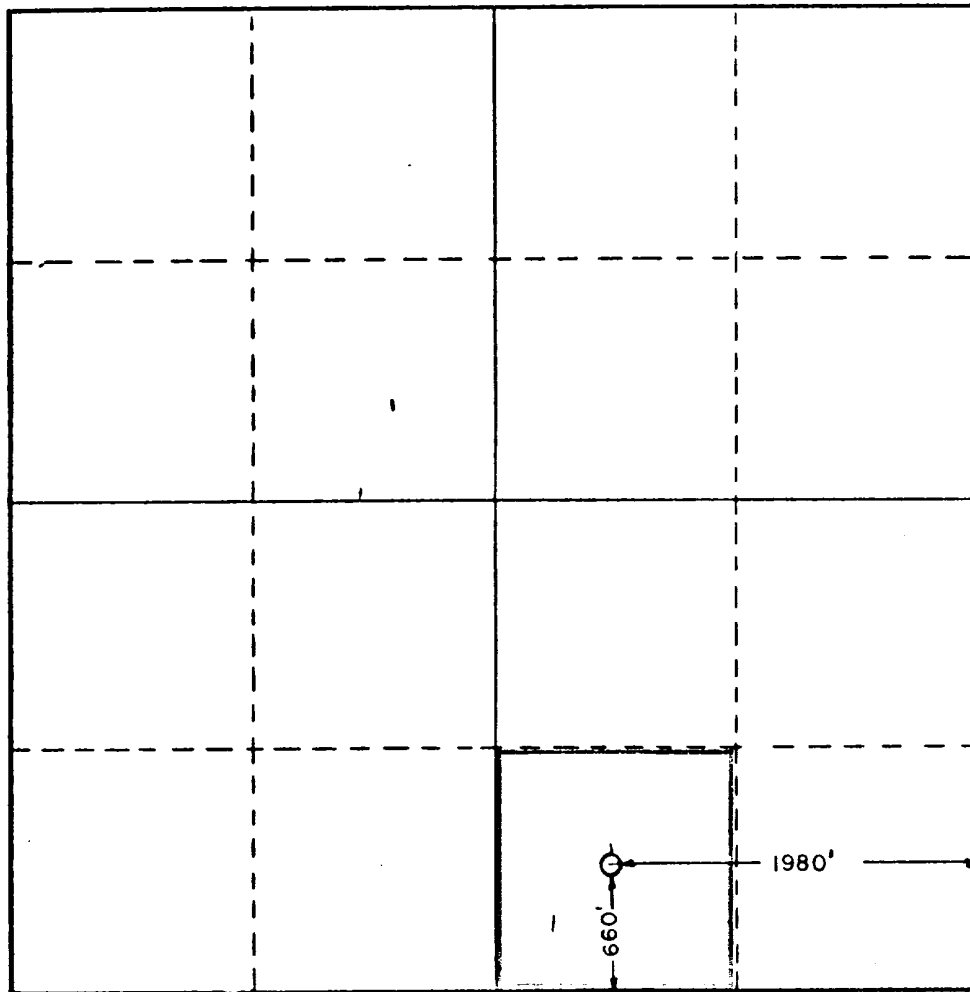
Operator <b>YATES PETROLEUM CORP.</b>			Lease <b>Federal H-Y</b>		Well No. <b>2</b>
Unit Letter <b>"0"</b>	Section <b>33</b>	Township <b>7 South</b>	Range <b>25 East</b>	County <b>Chaves</b>	
Actual Footage Location of Well: <b>660</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line					
Ground Level Elev. <b>3587.5</b>	Producing Formation <b>GRANITE WASH</b>		Pool <b>WILDCAT</b>		Dedicated Acreage: <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes    ☐ No    If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Eddie M. Mahfodd*

Name

**EDDIE M. MAHFODD**

Position

**ENGINEER**

Company

**YATES PETROLEUM CORP**

Date

**3-21-79**

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 knowledge and belief.

Date Surveyed

**March 16, 1979**

Registered Professional Engineer,  
and/or Land Surveyor

*Charles J. Jones*

Certificate No.

**3640**



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# United States Department of the Interior

GEOLOGICAL SURVEY  
P. O. Drawer U  
Artesia, New Mexico 88210

March 30, 1979

Yates Petroleum Corporation  
207 South 4th Street  
Artesia, New Mexico 88210

YATES PETROLEUM CORPORATION Federal "HY" Well No. 2 660 FSL 1980 FEL Sec. 33, T7S, R25E Chaves County Lease No. NM-2351
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Gentlemen:

Above Data Required on Well Sign
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Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 5,050 feet to test the Granite Wash formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate sandstone brown (Federal Standard #595A, color 20318 or 30318).
5. Cement behind the 8-5/8" casing must be circulated.

Sincerely yours,

(Orig. Sign.) JOE G. LARA

Joe G. Lara  
Acting District Engineer

Yates Petroleum Corporation  
Federal "HY" #2  
660' FSL and 1980' FEL  
Section 33 - T7S - R25E  
Chaves County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Yates Petroleum Corporation submits the following ten items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is quaternary alluvium.
2. The estimate tops of geologic markers are as follows:

San Andres	165'
Glorieta	1295'
Abo	3600'
Wolfcamp	4300'
Cisco	4800'
Granite Wash	4950'
T.D.	5050'

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

Water: Approximately 60' - 120'

Oil or Gas:	Wolfcamp	4300'
	Cisco	4800'
	Granite Wash	4950'

4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C and Exhibit B.
6. Mud Program: See Form 9-331C.
7. Auxiliary Equipment: Kelly Cock; pit level indicators and flow sensor equipment; sub with full-opening valve on floor, drill pipe connection.
8. Testing, Logging and Coring Program:  

Samples:	Surface casing to T.D.
DST's:	As Warranted
Logging:	Intermediate casing to T.D.
Coring:	CNL-FDC T.D. to casing with GR-CNL on to surface and DLL from T.D. to casing with selected min. R <sub>x</sub> 0.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval.

Yates Petroleum Corporation  
Federal "HY" #2  
Section 33-T7S-R25E  
660' FSL and 1980' FEL  
(Exploratory Well)

This plan is submitted with Form 9-331C, 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 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 operation.

1. EXISTING ROADS.

Exhibit A is a portion of a USGS topographic map showing the wells and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 20 miles NNE of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

1. Proceed east from Roswell on Highway 285 for a distance of approximately 13 miles.
2. Turn east for approximately  $2\frac{1}{2}$  miles and continue NE for  $6\frac{1}{2}$  miles. Turn SE for .4 of a mile. The new road will start approximately here going south.

2. PLANNED ACCESS ROAD.

- A. The proposed new access will be approximately 400' in length from point of origin to the edge of the drilling pad. The road will lie in a north-to-south direction and will pass over the El Paso Natural Gas pipeline near the point of origin. Permission has been requested from El Paso Natural Gas Company.
- B. The new road will be 12 feet in width (driving surface), except at the point of origin, adjacent to the existing road, at which point enough additional width will be provided to allow the trucks and equipment to turn. A ramp will be built across the pipeline.
- C. The new road will be covered with the necessary depth of caliche. The surface will be crowned, with drainage on both sides.
- D. The new road has been flagged and the route of the road is visible.

3. LOCATION OF EXISTING WELLS.

- A. There is no drilling activity within a one-mile radius of the wellsite.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There are no 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.

6. SOURCE OF CONSTRUCTION MATERIALS.

- A. Any caliche required for construction of the drilling pad and the new access road will be obtained from the nearest existing pit.

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 to the USGS for appropriate approval.
- D. Oil produced during operation will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches dirt. All waste material will be contained of prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES.

- A. None required.

9. WELLSITE LAYOUT.

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, etc.
- B. The location surface is sand dunes, leveling of dunes will be needed in the pad area and access road.
- C. The reserve pits will be plastic lined.
- D. A 400' X 400' area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE.

- 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 leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the BLM and the USGS will be complied with and will be accomplished as expeditiously as possible. All pits will be filled leveled within 90 days after abandonment.

11. OTHER INFORMATION.

- A. Topography: The land surface in the vicinity of the wellsite consists of sand dunes. The immediate area of the wellsite is discussed above in paragraph 9B.
- B. Flora and Fauna: The vegetation cover consists of prairie grass, mesquite, and miscellaneous desert growth. No wildlife was observed, but the wildlife in the area probably includes those typical of semi-arid desert land. The area is used for cattle grazing.
- C. The Pecos River is approximately three miles SE.
- D. There are no inhabited dwellings in the vicinity of the proposed well.
- E. Surface Ownership: The wellsite is on federal surface.
- F. There is no evidence of any archeological, historical or cultural sites in the area.

12. OPERATOR'S REPRESENTATIVE.

- A. The field representative responsible for assuring compliance with the approved surface use plan are:

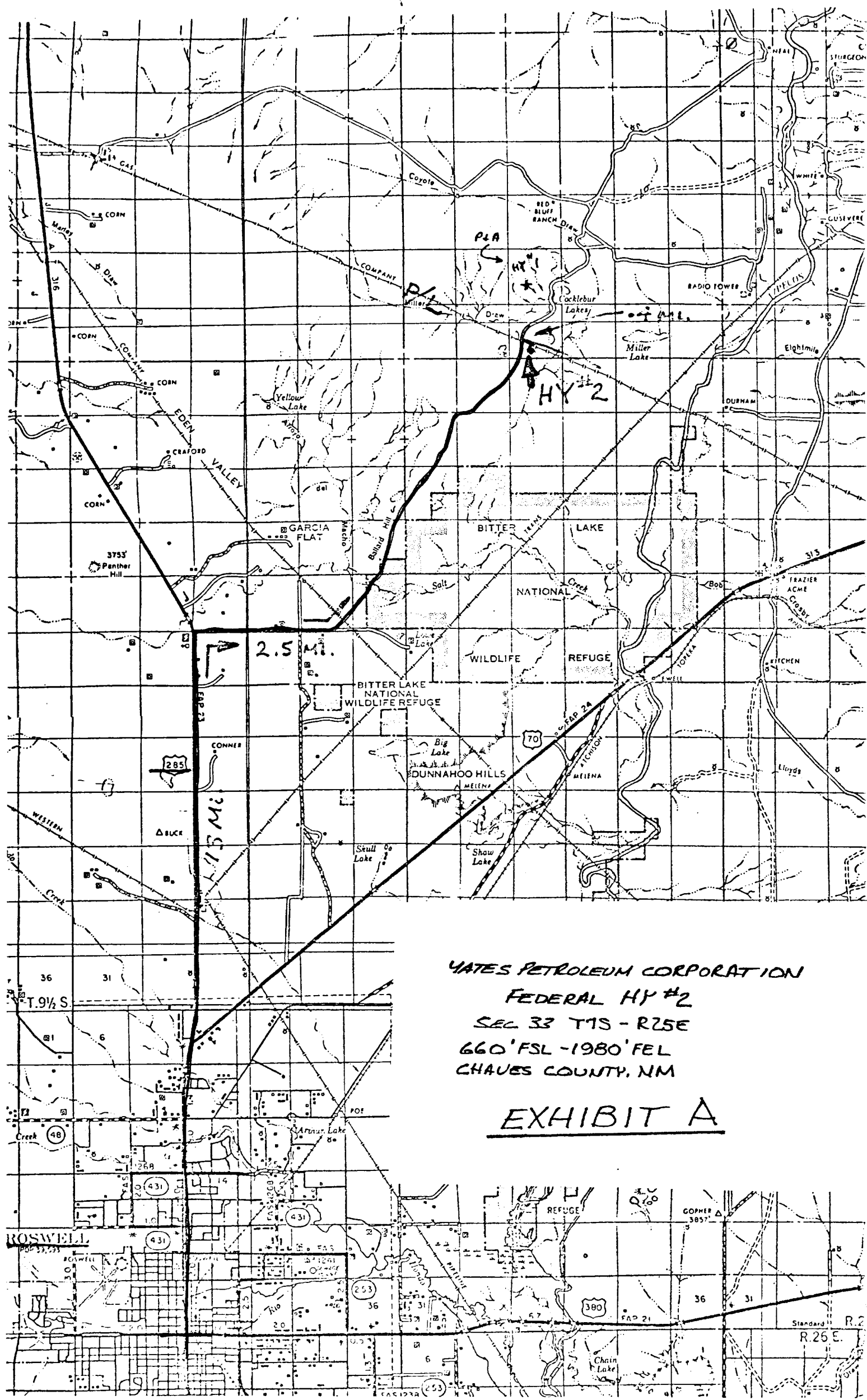
Gliserio "Rod" Rodriguez  
Yates Petroleum Corporation  
207 South 4th Street  
Artesia, New Mexico 88210

13. CERTIFICATION.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

3-22-79  
Date

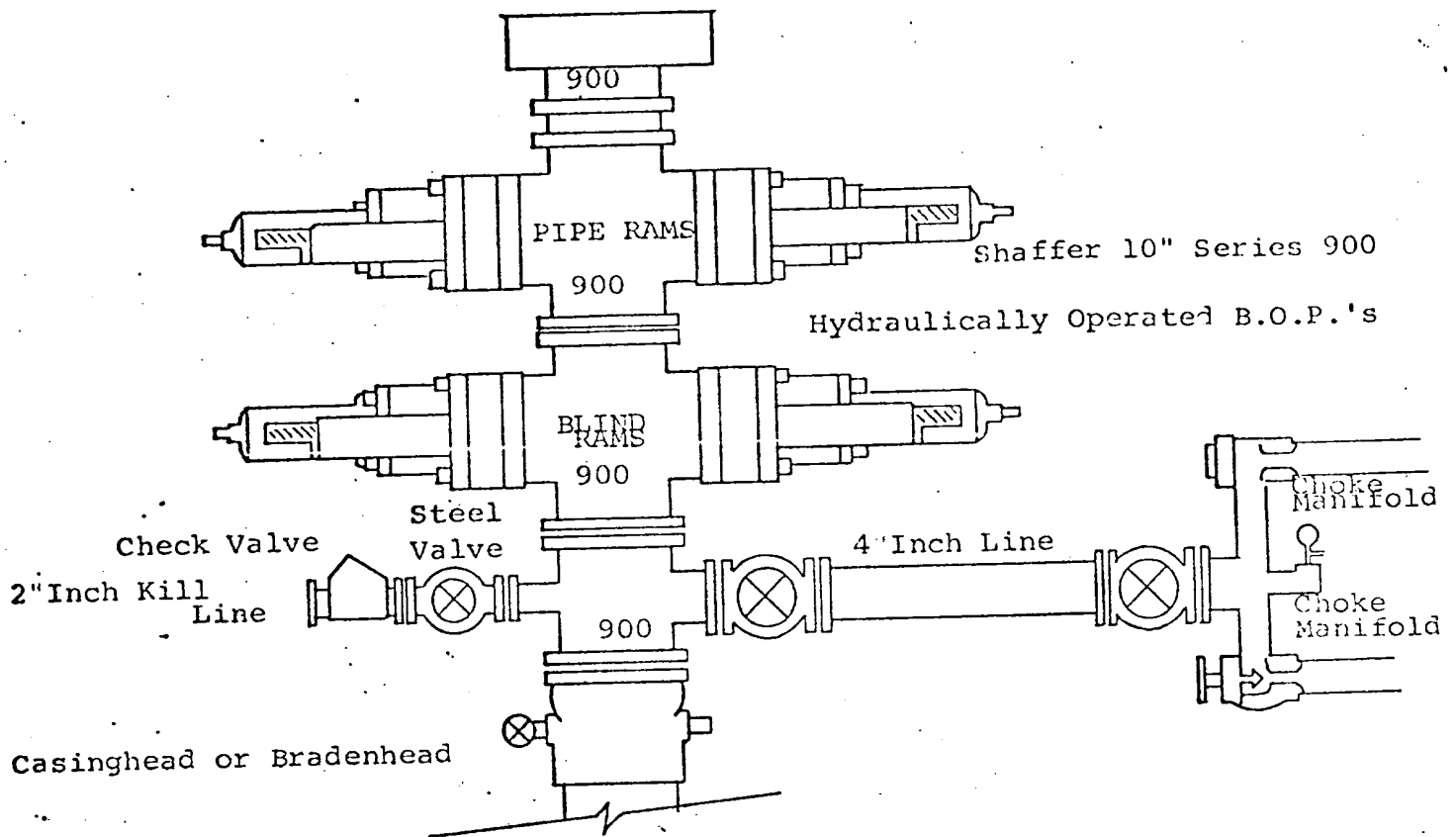
Gliserio Rodriguez  
Gliserio Rodriguez, Geographer



YATES PETROLEUM CORPORATION  
FEDERAL HY #2  
SEC 33 T1S - R25E  
660' FSL - 1980' FEL  
CHAVES COUNTY, NM

EXHIBIT A





THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
2. Choke outlet to be a minimum of 4" diameter.
3. Kill line to be of all steel construction of 2" minimum diameter.
4. All connections from operating manifolds to preventers to be all steel. hole or tube a minimum of one inch in diameter.
5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
7. Inside blowout preventer to be available on rig floor.
8. Operating controls located a safe distance from the rig floor.
9. Hole must be kept filled on trips below intermediate casing. Operator not responsible for blowouts resulting from not keeping hole full.
10. D. P. float must be installed and used below zone of first gas intrusion.

EXHIBIT B

YATES PETROLEUM CORPORATION  
 FEDERAL HY #2  
 Sec 33 T7S - R 25E  
 660' FSL - 1980' FEL  
 CHADDS COUNTY, W.M.

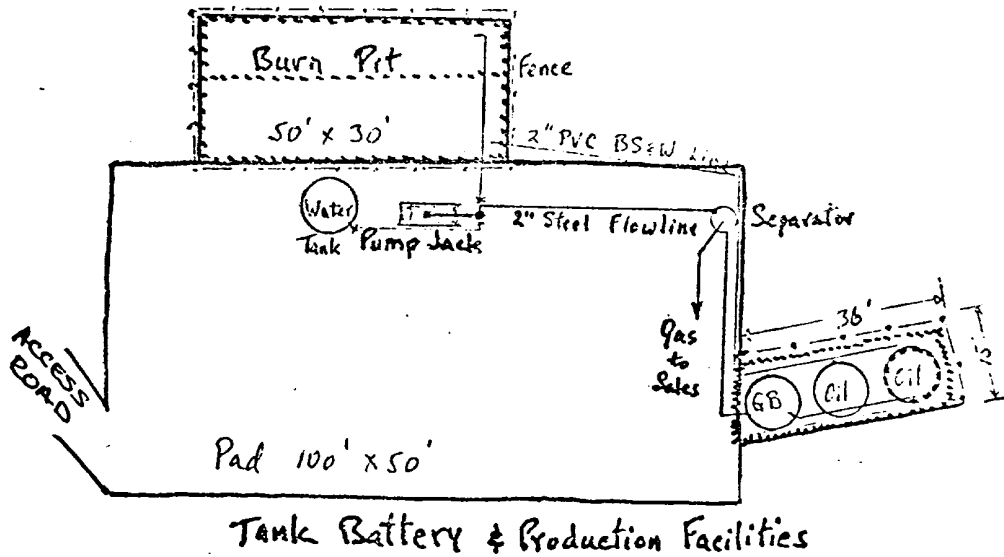
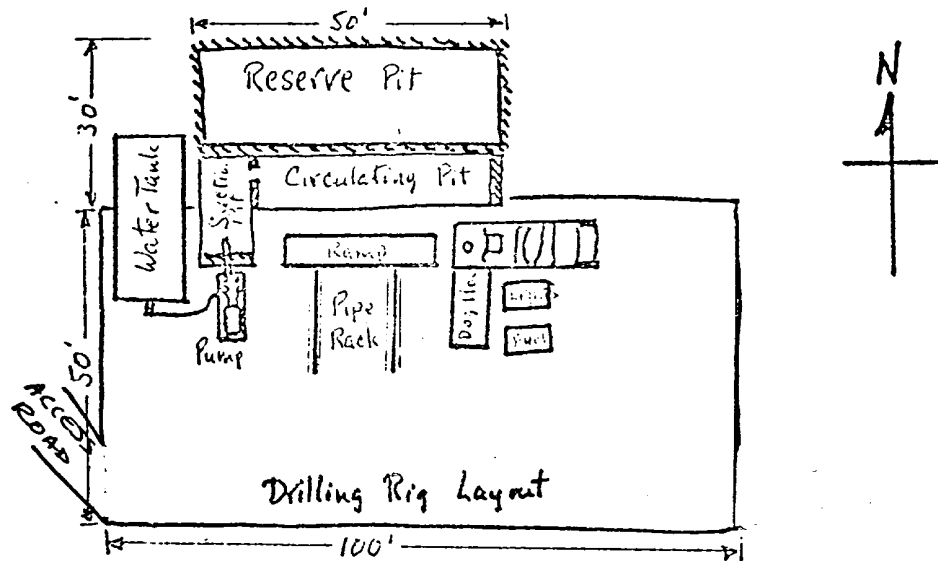


Exhibit 'C'