

ARTESIA, NM 88210  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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. NM-76763
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <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 105 South Fourth Street, Artesia, New Mexico 88210		8. FARM OR LEASE NAME Mockingbird ANK Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1980' FNL and 1980' FWL At proposed prod. zone same		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 28 miles North		10. FIELD AND POOL, OR WILDCAT Wildcat Precambrian
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA F Sec. 25-T8S-R26E
16. NO. OF ACRES TO BE LEASED 800		12. COUNTY OR PARISH Chaves
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		13. STATE NM
19. PROPOSED DEPTH 6600' <i>per 11/5/93</i>		17. NO. OF ACRES ASSIGNED TO THIS WELL 320
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3918' GR		20. ROTARY OR CABLE TOOLS Rotary
23. PROPOSED CASING AND CEMENTING PROGRAM		22. APPROX. DATE WORK WILL START* ASAP

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	1200'	700 sack
7 7/8"	5 1/2"	15.5#	TD	1050 sack

Yates Petroleum Corporation proposes to drill and test the Precambrian and intermediate formations. Approximately 1200' of surface casing will be set and cement circulated. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: 0-1200' FW gel/LCM; 1200' - 4400' cut Brine; 4400' - TD SW gel/Starch.

BOPE PROGRAM: The BOP will be installed on the 8 5/8" casing.



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 Clifton R. May TITLE Permit Agent DATE 7/14/93  
(This space for Federal or State office use)

PERMIT NO. Groundwater F. Allen APPROVAL DATE Area Manager  
APPROVED BY Area Manager TITLE Area Manager DATE 8/9/93

APPROVAL OF THIS APPLICATION 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.

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT IN ADVANCE.

18 U.S.C. Section 1001, makes 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.

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

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

**DISTRICT I**

P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**

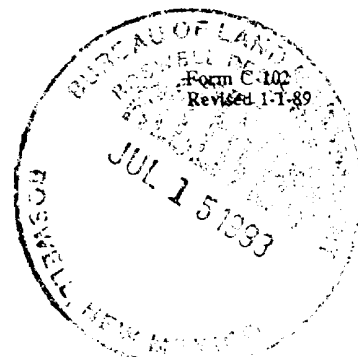
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**

1000 Rio Brazos Rd., Aztec, NM 87410

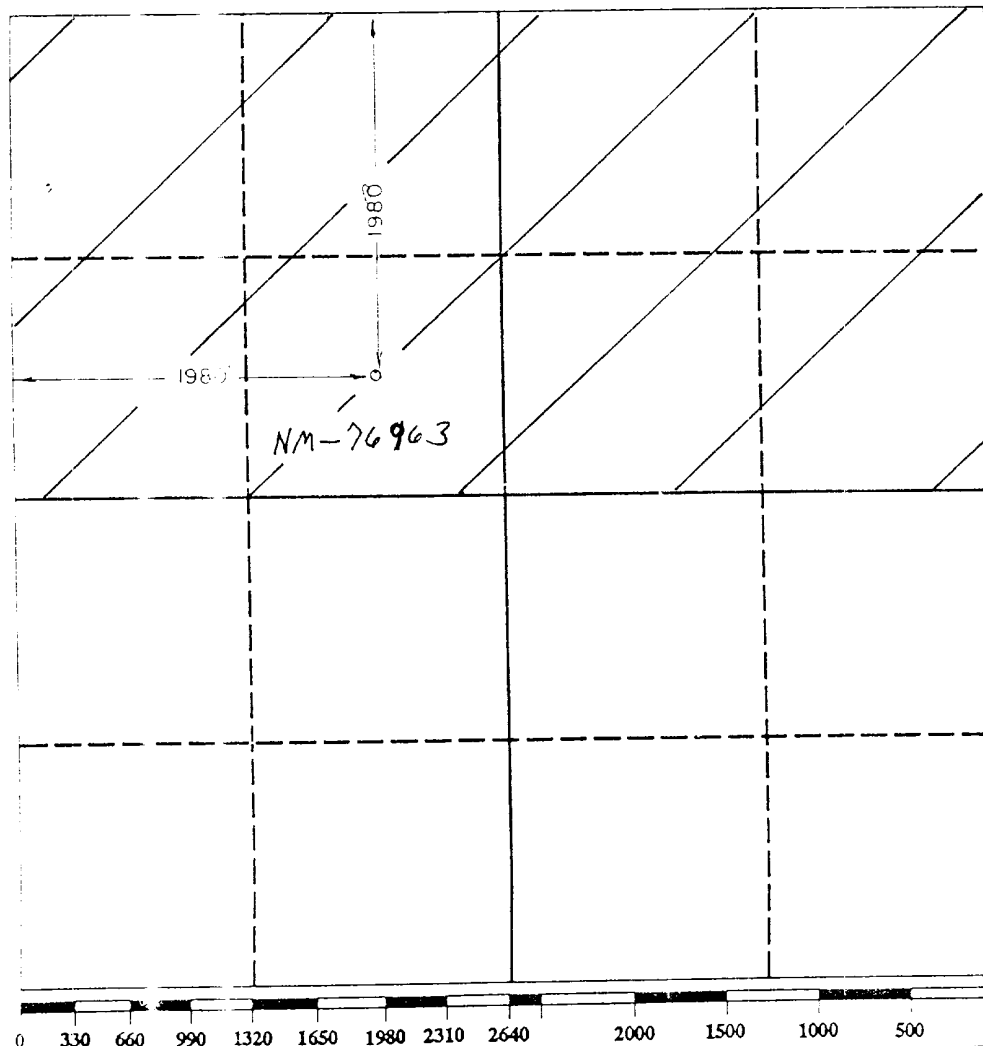
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section



Operator <b>YATES PETROLEUM CORPORATION</b>			Lease <b>MOCKINGBIRD "ANK" FEDERAL</b>		Well No. <b>1</b>
Unit Letter <b>F</b>	Section <b>25</b>	Township <b>8 SOUTH</b>	Range <b>26 EAST</b>	County <b>NMPM</b>	<b>CHAVES</b>
Actual Footage Location of Well: <b>1980</b> feet from the <b>NORTH</b> line and <b>1980</b> feet from the <b>WEST</b> line					
Ground level Elev. <b>3918.</b>		Producing Formation <b>PRECAMBRIAN</b>		Pool <b>WILDCAT PRECAMBRIAN</b>	Dedicated Acreage: <b>320 Acres</b>

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

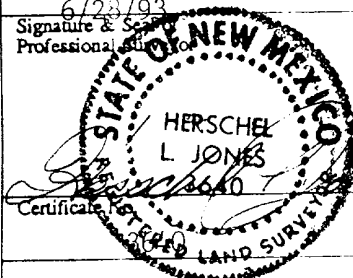
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature Clifton R. May  
Printed Name Clifton R. May  
Position Permit Agent  
Company Yates Petroleum Corporation  
Date 7/14/93

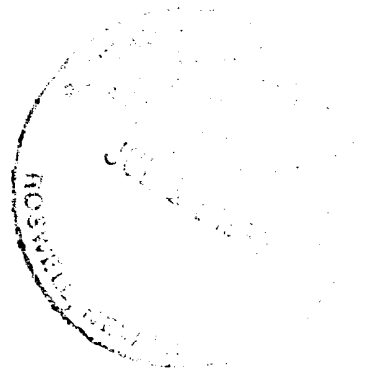
**SURVEYOR CERTIFICATION**

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 knowledge and belief.

Date Surveyed 6/28/93  
Signature & Seal of Professional Surveyor



**YATES PETROLEUM CORPORATION**  
Mockingbird "ANK" Federal #1  
1980' FNL and 1980' FWL  
Sec. 25-T8S-R26E  
Chaves County, New Mexico



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

San Andres	1242'	Cisco	5857'
Glorietta	2378'	Penn Clastics	5967'
Yeso	2413'	"Pay Channel Sand"	6107'
Abo	4623'	Ordovician	6141'
Wolfcamp	5305'	Precambrian	6541'
TD	6600'		

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

Water: 150 - 300'  
Oil or Gas: 4623', 6141', 6541'

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000 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:**

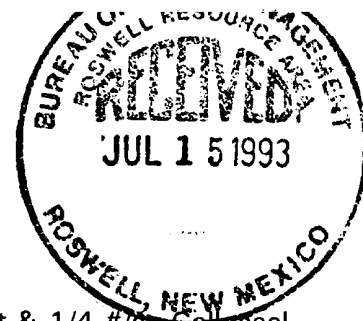
- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

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>Thread</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
12 1/4"	8 5/8"	24#	J55	8R	ST&C	0-1200'	1200'
7 7/8"	5 1/2"	15.5#	J55	8R	LT&C	0-6600'	6600'

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

**B. CEMENTING PROGRAM:**

Surface casing: Cement with 500 sacks PSL "C" with 5#/sk Salt & 1/4 #/sx Celloseal (Yield 1.98, weight 12.5) Tail in with 200 sacks "C" with 2% CaCl<sub>2</sub> (Yield 1.32, weight 12.5).

Production Casing: First Stage: 500 sacks "H" with 8#/sx CSE + .5% CF14 + .35% Thriftylite (Yield 1.6 weight 14).

2nd Stage: 450 sacks PSL "C" + 3% Salt + .25# sx Celloseal (Yield 2, weight 12.4) Tail in with 100 sacks "C" (Yield 1.33, weight 14.8).

**5. Mud Program and Auxiliary Equipment:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1200'	FWGEL/LCM	9.0-9.8	34-40	N/C
1200-4400'	Cut Brine	9.5-10.0	28	N/C
4400-TD	SW/Gel/Starch	9.5-9.8	34-40	< 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: 10' from under surface casing  
 Logging: CNL/LDT TD to casing w/GR/CNL to surface; DLL TD to casing.  
 Coring: None anticipated.  
 DST's: As warranted.

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

Anticipated BHP:

From: 0	TO: 1200'	Anticipated Max. BHP: 500	PSI
From: 1200	TO: 6600'	Anticipated Max. BHP: 2200	PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 125 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

Yates Petroleum Corporation  
Mockingbird "ANK" Federal #1  
1980' FNL AND 1980' FWL  
Sec. 25-T8S-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 wellsite is located approximately 28 miles Northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

#### DIRECTIONS:

Go northeast out of Roswell, New Mexico on Portales Hwy approximately 24 miles to Ponderosa Rd. Turn right and go approximately 1 mile. Turn right and follow lease road approximately 1.3 miles. New access will start here.

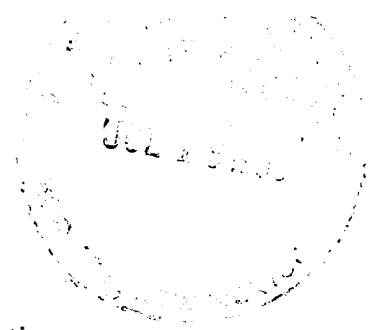
Note: An alternative route has been requested from Santa Fe Railroad. Due to the length of time that will take, we will need the previous route.

### 2. PLANNED ACCESS ROAD

- A. The proposed new access will be approximately 1.4 miles in length from the point of origin to the southeast edge of the drilling pad. The road will lie in a(n) southwesterly 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. The new road will be bladed with drainage on one side. Five traffic turnouts will be built.
- D. The route of the road is visible.

### 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 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. Jim's Water Service of Artesia will be contracted to furnish water from a source of their choosing. A probable source will be L & L Cattle Co., #1 located NWNW of Sec. 28-T9S-R27E.

6. SOURCE OF CONSTRUCTION MATERIALS:

A local dirt contractor will be contracted to build this pad and road. They will be responsible for getting the proper permits and will furnish surfacing material from a source of their choosing. A possible source is Beavers Sand and Gravel. A 2nd possibility is a State pit NWNW of Sec. 24-T9S-R26E.

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:

- A. None required:

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.
- D. The location is rotated putting the pits to the west, V-Dooring to the North.

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 within 90 days after abandonment.

11. SURFACE OWNERSHIP: Federal Surface administered by Bureau of Land Management, Carlsbad, Resource Area.

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:

Clifton R. May, Permit Agent  
Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, New Mexico 88210  
Phone (505) 748-1471

B. Through Drilling Operations, Completions and Production:

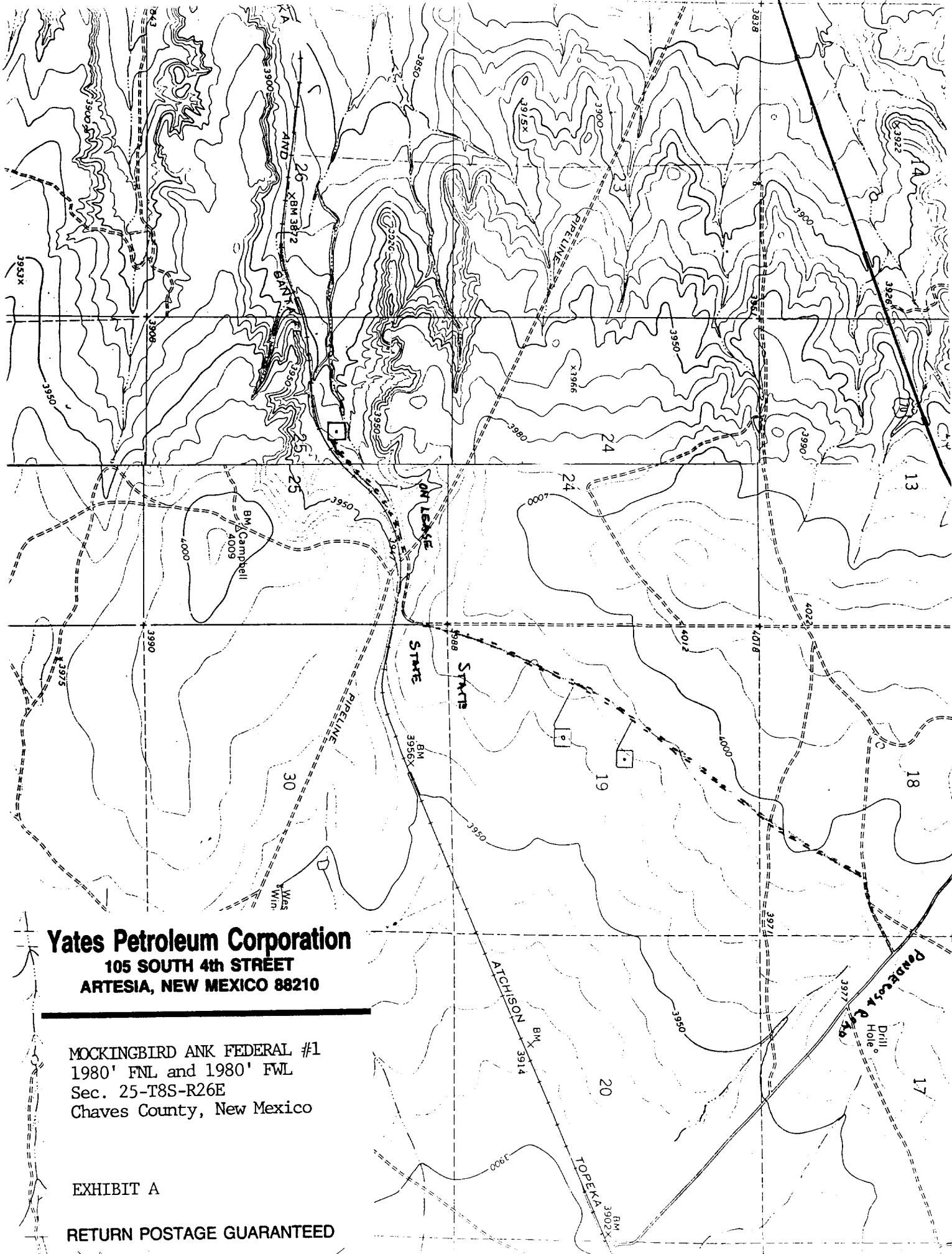
Mike Slater, Operations Manager  
Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, New Mexico 88210  
Phone (505) 748-1471

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.

7/14/93

  
Permit Agent



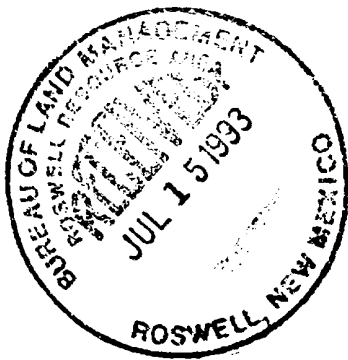
**Yates Petroleum Corporation**  
105 SOUTH 4th STREET  
ARTESIA, NEW MEXICO 88210

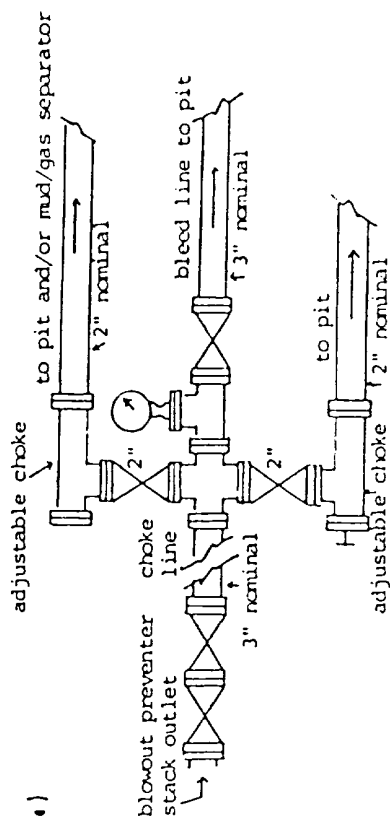
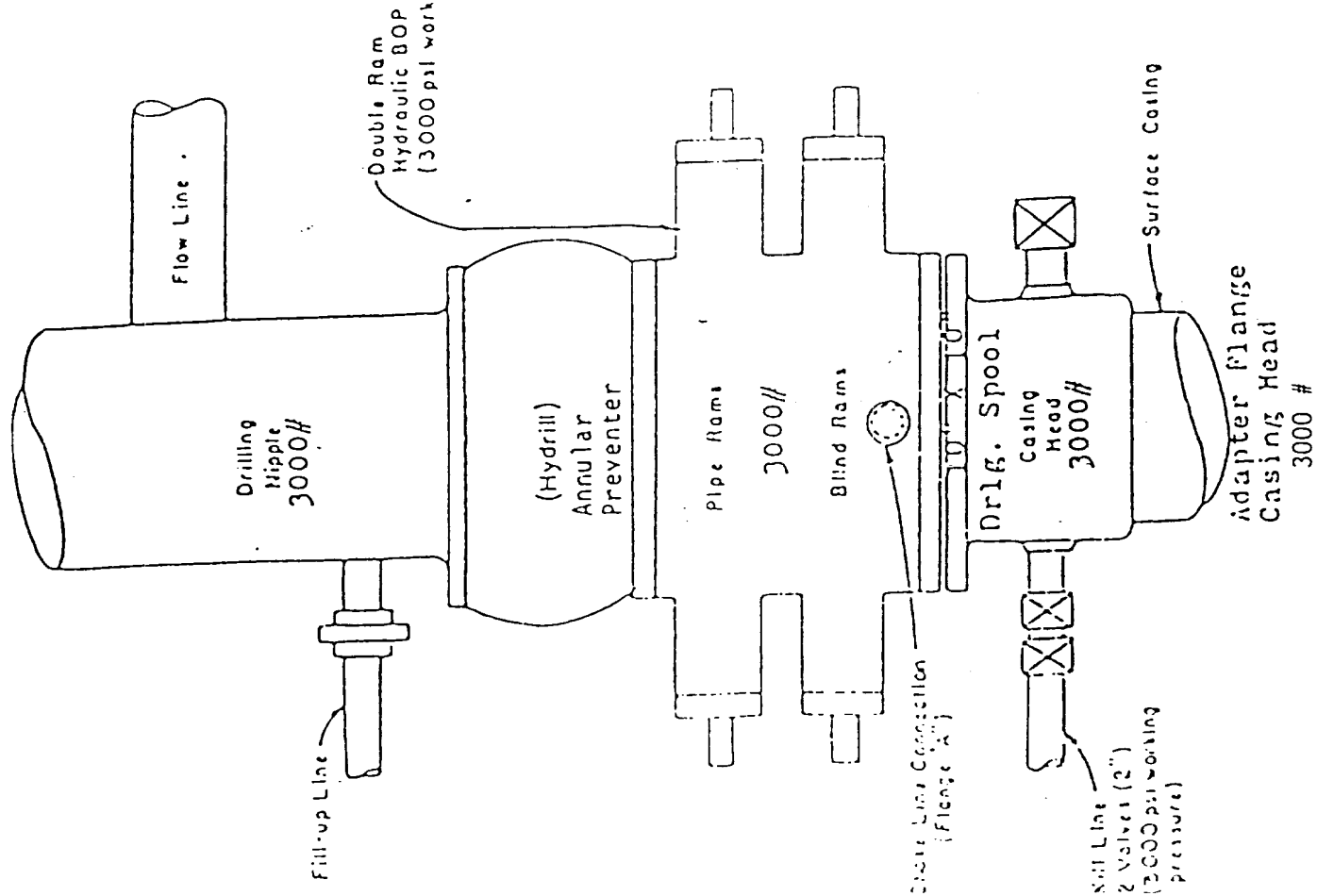
MOCKINGBIRD ANK FEDERAL #1  
1980' FNL and 1980' FWL  
Sec. 25-T8S-R26E  
Chaves County, New Mexico

EXHIBIT A

RETURN POSTAGE GUARANTEED







typical choke manifold assembly for M rated working pressure service-surface installation

EXHIBIT "B"  
Blowout Preventer  
Diagram



# YATES PETROLEUM CORPORATION

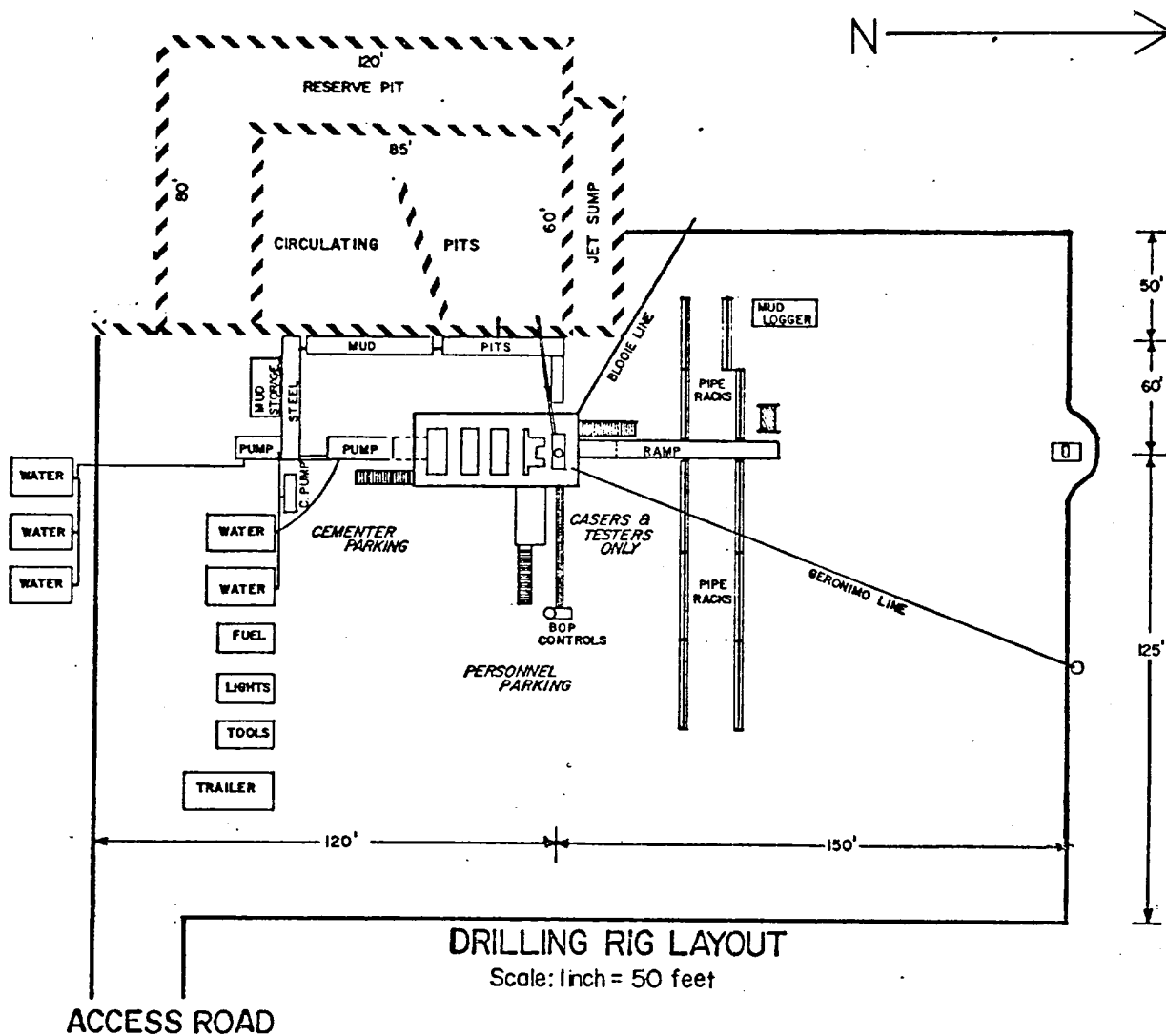


EXHIBIT C

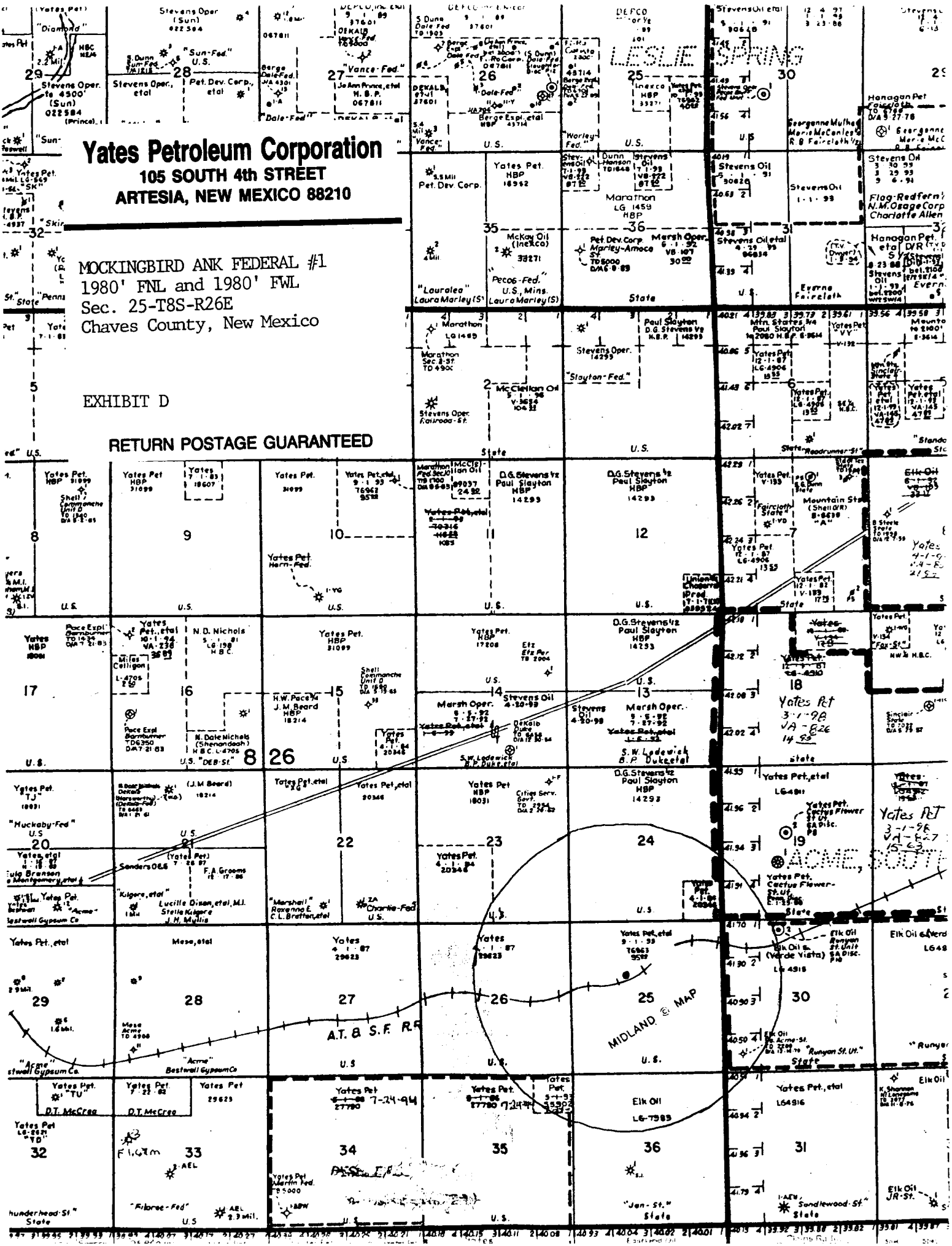


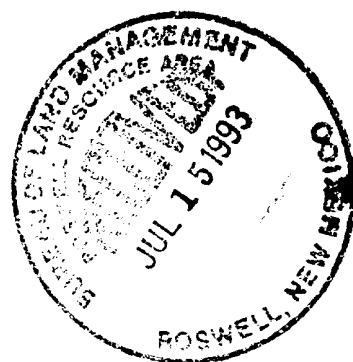
**Yates Petroleum Corporation**  
105 SOUTH 4th STREET  
ARTESIA, NEW MEXICO 88210

MOCKINGBIRD ANK FEDERAL #1  
1980' FNL and 1980' FWL  
Sec. 25-T8S-R26E  
Chaves County, New Mexico

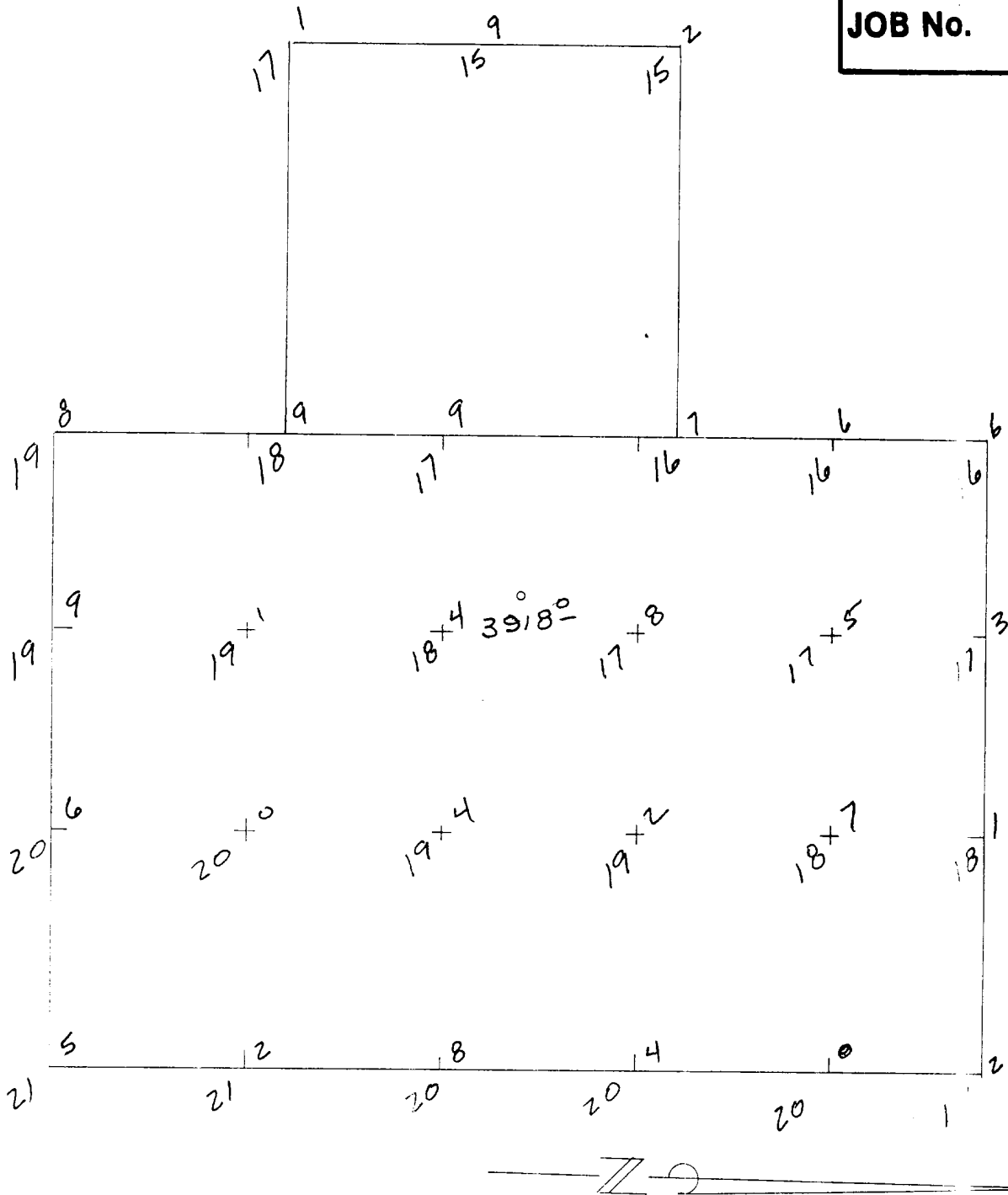
EXHIBIT D

RETURN POSTAGE GUARANTEED





JOB No.



THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLAT ACCURATELY DEPICTS THE RESULTS OF SAID SURVEY AND MEETS THE REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

YATES PETROLEUM CORPORATION

ELEVATION PLAN VIEW OF MOCKINGBIRD "ANK"  
FEDERAL #1 WELL, 1980/N & 1980/W OF  
SECTION 25-8S-26E., CHAVES COUNTY, NEW MEXICO.

P.O. Box 996

Lovington, New Mexico 88260

SCALE:

" = '

DRAWN BY:

erb

DATE:

6/28/93

SHEET

1

OF

1

*Herschel L. Jones*  
HERSCHEL L. JONES  
R.L.S. No. 3640



