

5
(August 1999)

c/hf

N.M. Oil Cons. Division
1118 S. 1st Street
Artesia, NM 88210-2834

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-19825	
b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Yates Petroleum Corporation		7. If Unit or CA Agreement, Name and No.	
3A. Address 105 South Fourth Street Artesia, New Mexico 88210		8. Lease Name and Well No. Doris Federal #5	
3b. Phone No. (include area code) (505) 748-1471		9. API Well No. 30-005-63349	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1400' FNL & 660' FEL At proposed prod. Zone same Unit H		10. Field and Pool, or Exploratory Wildcat Basin Pre Cambrian	
14. Distance in miles and direction from nearest town or post office* Approximately 35 miles northwest of Roswell, New Mexico		11. Sec., T., R., M., or Blk, and Survey or Area Section 14, T5S-R24E	
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 320	17. Spacing Unit dedicated to this well E/2	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'	19. Proposed Depth 5300'	20. BLM/BIA Bond No. on file 585997	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3927' 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature	Name (Printed/Typed) Cy Cowan	Date 9/21/00
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Title:

Regulatory Agent

Approved by (Signature)

Name (Printed/Typed)

WILLIAM D GRAY

Date

9/21/00

Title

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)

11/3/4"

**NOTIFY OCD SPUD & TIME TO WITNESS
WATER PROTECTION STRING**

**NOVAL SUBJECT TO
SERIAL REQUIREMENTS AND
STIPULATIONS**

DISTRICT II
P.O. Drawer DD, Artonda, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

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 Wildcat Basement	
Property Code	Property Name DORIS "RI" FEDERAL			Well Number 5
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION			Elevation 3927

Surface Location

Tr or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	14	5S	24E		1400	NORTH	660	EAST	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/Wes. line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
320									

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

<p>RECEIVED OCD - ARTESIA</p>		<p>1980'</p>		<p>1400'</p>	
		<p>#3</p>		<p>3930 3928 3935 3933</p> <p>660'</p>	
<p>NM-</p>		<p>1980'</p>		<p>19825</p>	

OPERATOR CERTIFICATION

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

Cy Cowan
Signature

Cy Cowan
Printed Name

Regulatory Agent
Title

September 21, 2000
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.

1/06/2020
Date Surveyed

Signature & Seal of Professional Surveyor

H. L. Jones
H. L. JONES
REGISTERED PROFESSIONAL SURVEYOR
NEW MEXICO
3640

Certificate No. H. L. Jones NLS 3640
DORIS S. JONES
GENERAL SURVEYING COMPANY

YATES PETROLEUM CORPORATION
Doris Federal #5
 1400' FNL & 660' FEL
 Section 14,-T5S-R24E
 Chaves County, New Mexico

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

San Andres	660'	Basement Granite	5200'
Glorieta	1450'	TD	5300'
Yeso	1560'		
Tubb	2935'		
Abo	3560'		
Wolfcamp	4300'		

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

Water:	200'-300'
Oil or Gas:	3560' to 5300'

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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Size Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-900'	900'
11"	8 5/8" *	24#	J-55	ST&C	0-1500'	1500'
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-5300'	5300'

* 8 5/8" casing will be set only if lost circulation is encountered.

WITNESS

- Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.80
- A 2,000 psi BOP will be nipped up on the 8 5/8" casing and tested to 500 psi. YPC requests a variance be granted in requiring the casing and BOPE to be tested to 2000 psi to testing the casing and BOPE to 500 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 500 PSI. We would have to go to the greater expense of hiring an independent service company to do the testing. Also, the bottom hole pressure in this field is proven to be near 500 psi due to depletion. A shut in surface pressure would be less than 500 psi. The Abo formation usually requires stimulation before it flows*. We feel that a 500 psi test will demonstrate that the BOPE is functioning properly, and in the unlikely event of a gas influx that the BOPE would be sufficient to control the well.

B. CEMENTING PROGRAM:

Surface casing: Cement with 200 sx Lite "C" (Yield 2.0 Wt. 12.5). Tail in with 200 sx "C" + 2% CaCl₂ (Yield 1.33, Wt. 15.6).

Intermediate casing: 250 sx Lite (Yield 2.0, Wt. 12.0). Tail in with 200 sx "C" + 2% CaCl₂ (Yield 1.32 Wt. 14.8).*

Production Casing: TOC 3100'. Cement with 350 sx Super "C" (Yield 1.67 Wt. 13.0).

*If intermediate casing not set, hole size will be reduced from 11" to 7 7/8" at 1500'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud-900'	FWGel/Paper/LCM	8.6-9.0	32-36	N/C
900'-1500'	Cut Brine	8.6-9.0	29	N/C
1500'-3530'	Brine	10.0-10.2	28	N/C
3530'-TD	Salt Gel/Starch/Oil/LCM	9.0-9.8	34-45	<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' samples out from under surface casing to TD.

Logging: CNL/LDT, w/NGT TD to surface casing; CNL/GR to surface;
DLL/MSFL TD to surface casing; BHC Sonic TD to surface casing.

Coring: None anticipated.

DST's: None anticipated.

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

Anticipated BHP:

From: 0	To: 900'	Anticipated Max. BHP: 375 PSI
From: 900'	To: TD	Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H₂S Zones Anticipated: None.

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 20 days to drill the well with completion taking another 10 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
YATES PETROLEUM CORPORATION
Doris Federal #5
1400' FNL & 660' FEL
Section 14,-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 35 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Roswell on Highway 285 for approximately 23 miles to Dona Ana. Turn east on Dona Ana Road and go approximately 7.1 miles continue northeast on Dona Ana Road and go approximately 4 miles to the Stancell Corral. Continue north for approximately .9 of a mile. Turn left and go approximately .3 of a mile to the Doris Federal #1. From the cattleguard just east of the Doris Federal #1 turn northeast on existing ranch road and go approx. .3 of a mile. The new access road will start here going north for approx. .3 of a mile to the southeast corner of the proposed Doris Federal #5 well location.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately .3 of a mile in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a(n) southwest/northeast 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. Traffic turnouts may be built.
- D. The route of the road is visible.
- E. 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.

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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.

6. SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate closest pit and obtain any material and permits if 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: 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 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.

11. SURFACE OWNERSHIP:

Bureau Of Land Management, Roswell, New Mexico.

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:

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

B. Through Drilling Operations,
Completions and Production:

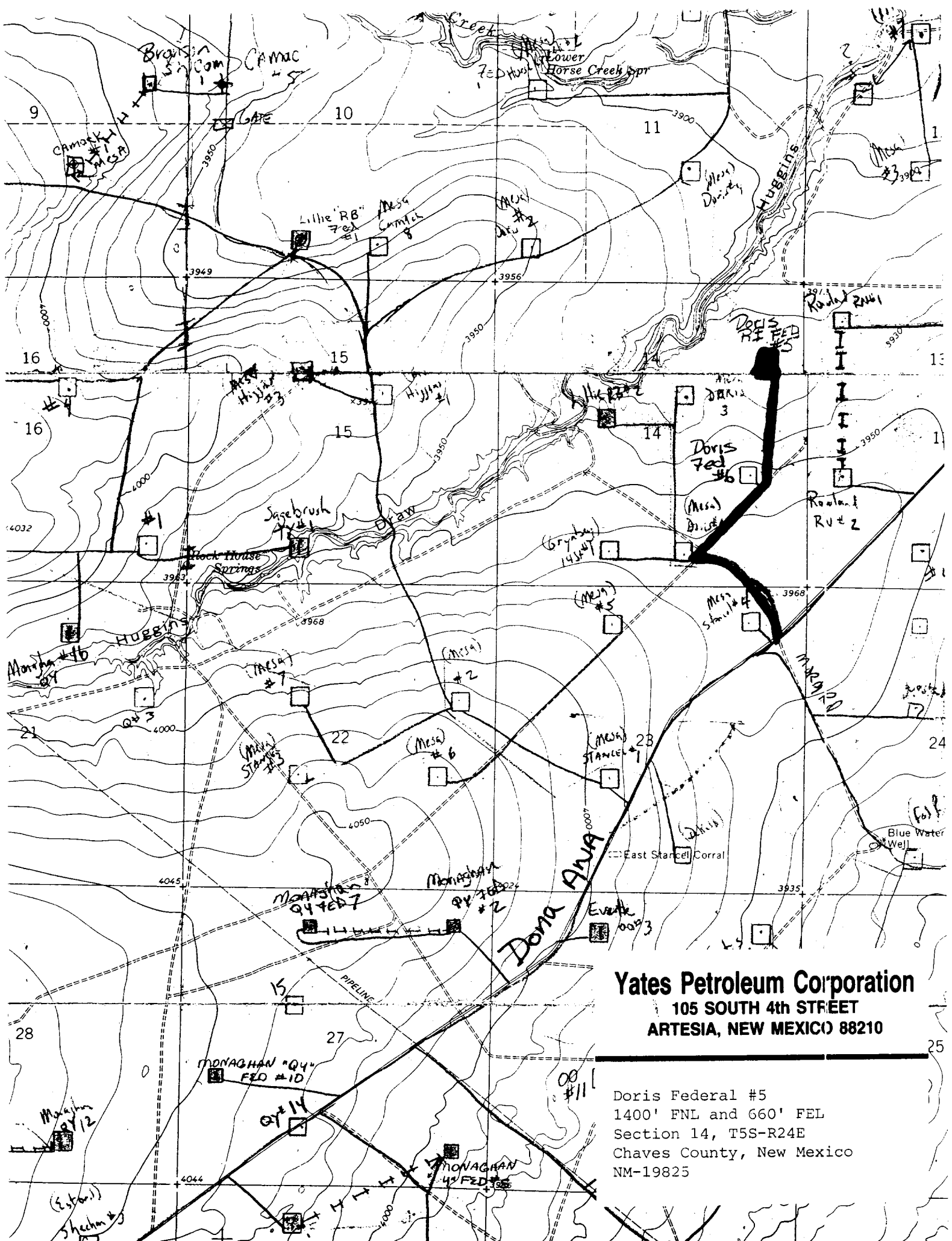
Brian Collins, Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

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.

09/21/2000


Regulatory Agent



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

Doris Federal #5
1400' FNL and 660' FEL
Section 14, T5S-R24E
Chaves County, New Mexico
NM-19825

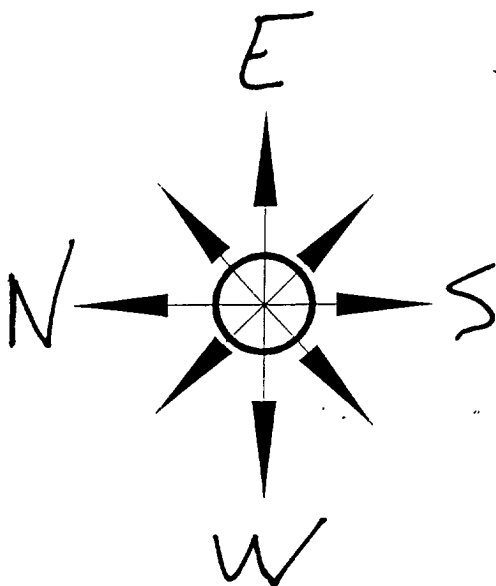
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Yates Petroleum Corporation

Location Layout for Permian Basin

Up to 12,000'

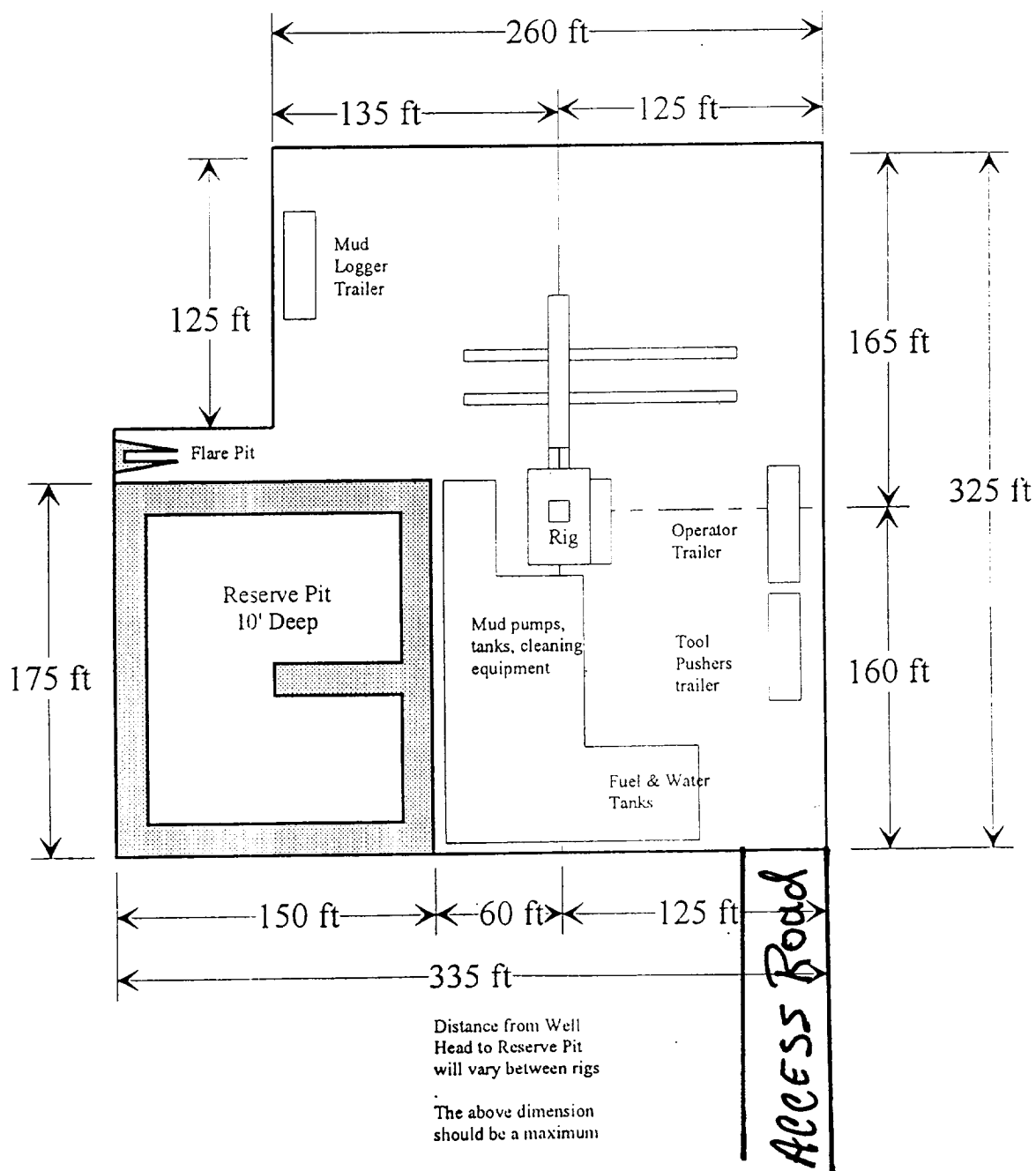


YATES PETROLEUM CORPORATION

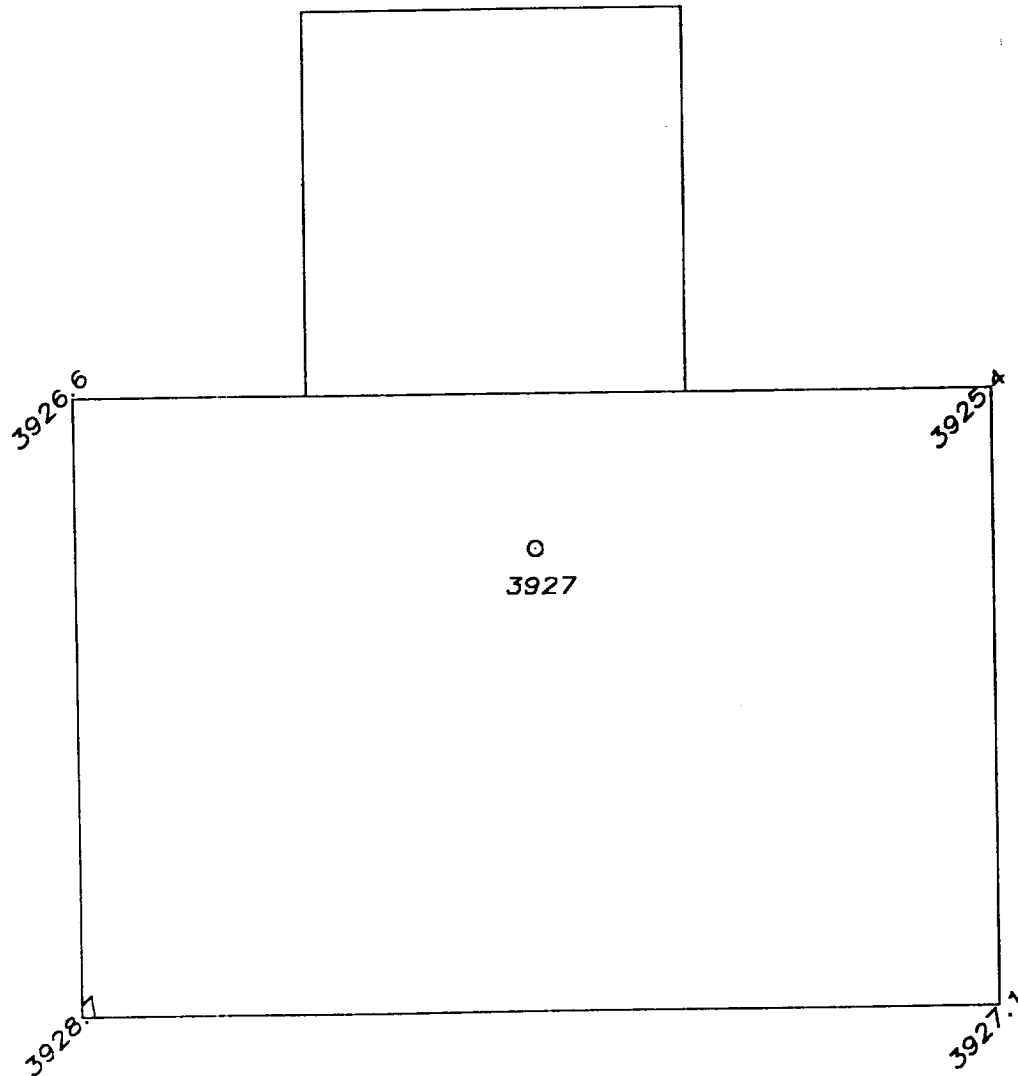
105 SOUTH 4TH STREET
ARTESIA, NEW MEXICO 88210

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Doris Federal #5
1400 FNL & 660' FEL
Section 14, T5S-R24E
Chaves County, New Mexico
NM-19825



YATES PETROLEUM CORPORATION DORIS RI FEDERAL # 1400/N & 660/E
SECTION 14, TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



50' 0 50' 100'
Scale 1" = 50'

THE PREPARATION OF THIS PLAN AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLAN ACCURATELY REPRESENTS THE RESULTS OF SAID SURVEY AND MEET 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.

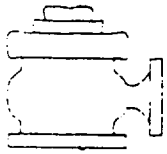
[Signature]
HERSCHEL JONES
REGISTERED PROFESSIONAL LAND SURVEYOR
L.S. No. 3640

GENERAL SURVEYING COMPANY P.O. BOX 1928
LOVINGTON, NEW MEXICO 88260

YATES PETROLEUM CORP.

WELL PAD PLAN VIEW ON THE YATES DORIS RI
FEDERAL #5 LOCATED 1400/N AND 660/E OF
SECTION 14, TOWNSHIP 5 SOUTH, RANGE 24
EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Survey Date: 1/05/2000	Sheet 1 of 1 Sheets
Drawn By: Ed Blevins	W.O. Number
Date: 1/08/00	Scale 1" = 50' DORIS 5

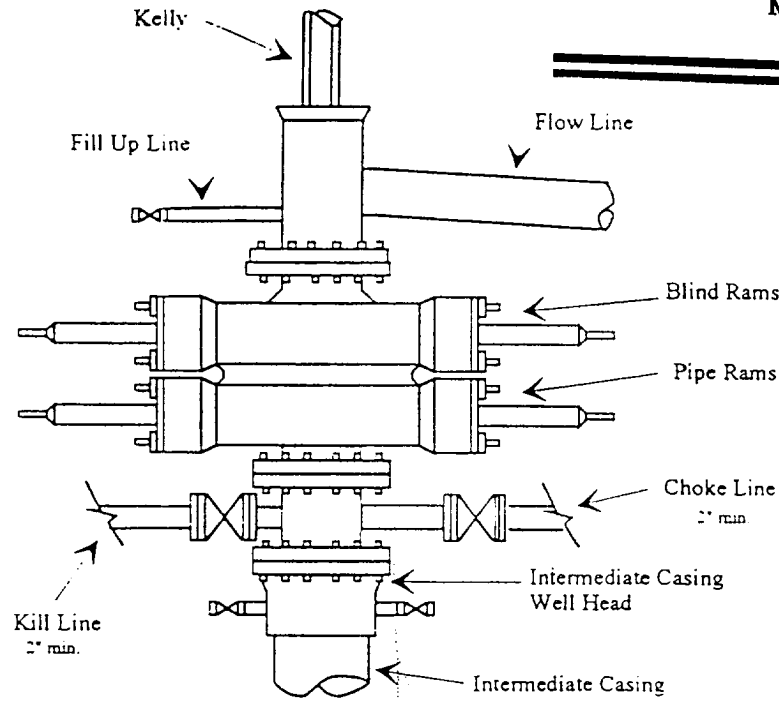


Ates Petroleum Corporation

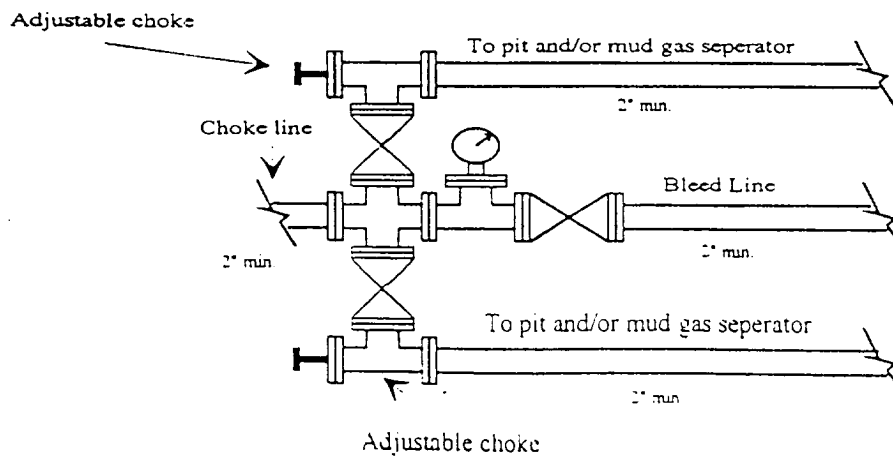
BOP-2

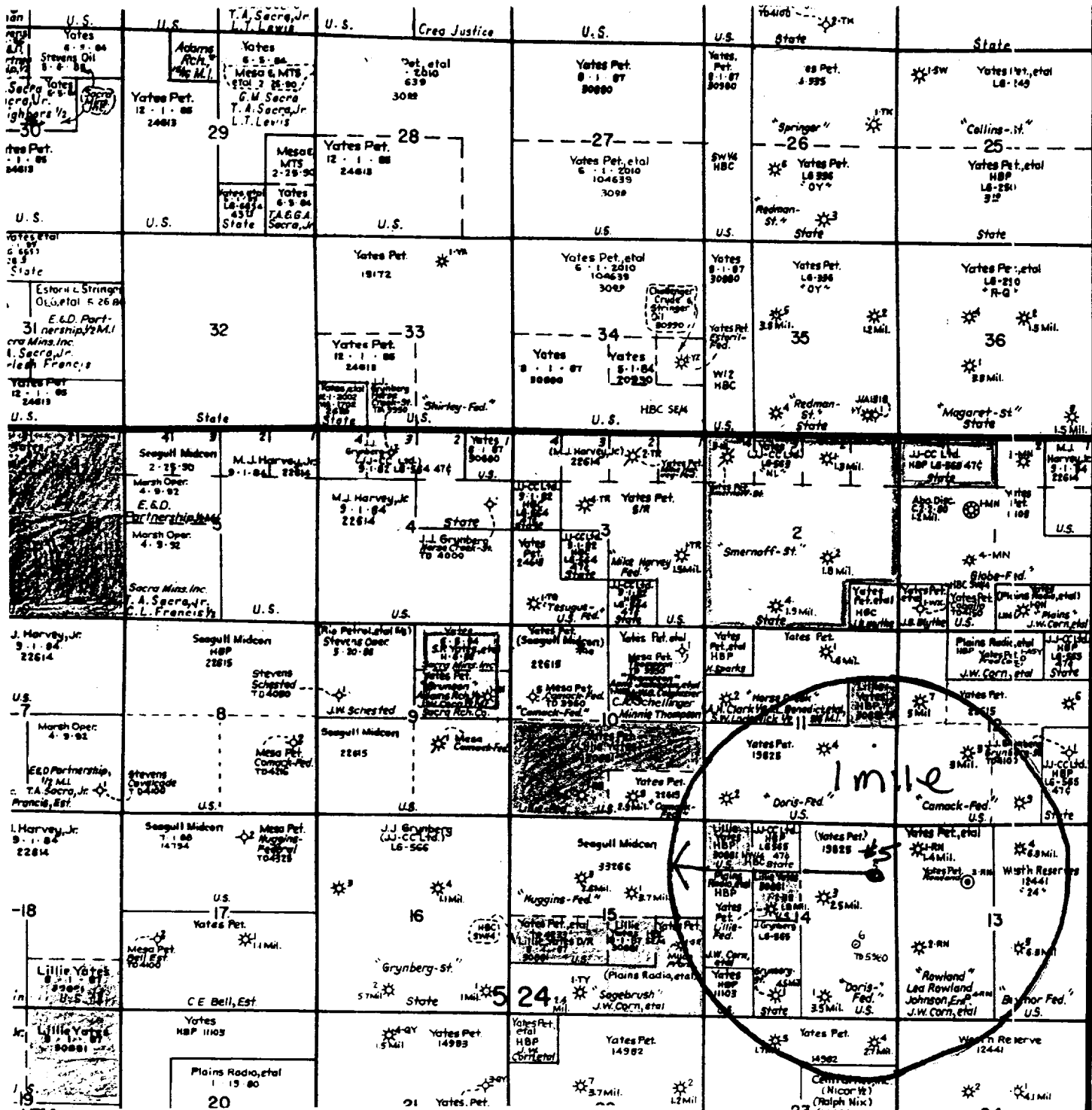
Typical 2,000 psi Pressure System Schematic Double Ram Preventer Stack

Doris Federal #5
1400 FNL & 660' FEL
Section 14, T5S-R24E
Chaves County, New Mexico
NM-19825



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





YATES PETROLEUM CORPORATION
105 SOUTH 4TH STREET
ARTESIA, NEW MEXICO 88210

Doris Federal #5
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