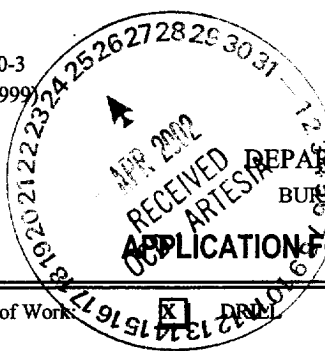


N.M. Oil Cons. Div-Dist. 2  
1301 W. Central Avenue  
Artesia, NM 88210

CLSF

Form 3160-3  
(August 1999)



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

5. Lease Serial No.

NM-93184

6. If Indian, Allottee or Tribe Name

Not Applicable

7. If Unit or CA Agreement, Name and No.

Not Applicable

8. Lease Name and Well No. 29699

Jasper "ARJ" Federal #4

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

Four Ranch; Pre-Permian

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' FNL and 660' FWL

At proposed prod. Zone

same as above

10. Field and Pool, or Exploratory

11. Sec., T., R., M., or Blk, and Survey or Area

Section 25, T8S-R26E

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

Approximately twenty (20) miles Northeast of Roswell, NM

12. County or Parish

Chaves County

13. State

New Mexico

15. Distance from proposed\* location to nearest property or lease line, ft.

660'

16. No. of Acres in lease

800

17. Spacing Unit dedicated to this well

320 acres

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

2400'

19. Proposed Depth

6660'

20. BLM/BIA Bond No. on file

NM-2811

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

3965' 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

Pat Perez

Name (Printed/Typed)

Pat Perez

Date

12/11/01

Title:

Regulatory Agent

Approved by (Signature)

LARRY D. BRAY

Name (Printed/Typed)

LARRY D. BRAY

Date

APR 24 2002

Title

Assistant Field Manager,  
Lands And Minerals

Office

ROSWELL FIELD OFFICE

APPROVED FOR 1 YEAR

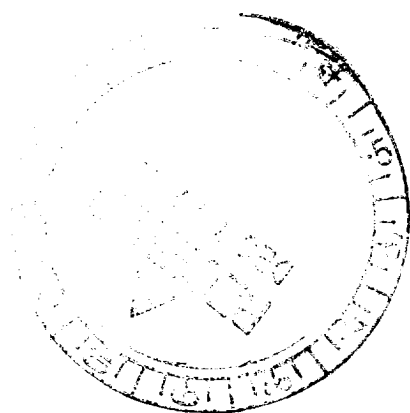
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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)

~~SECRET~~



DISTRICT I  
1526 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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 JASPER "ARJ" FEDERAL	Well Number 4
OGED No. 25575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3965

Surface Location

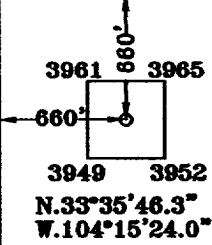
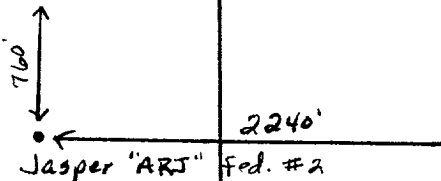
UL or lot No. D	Section 25	Township 8S	Range 26E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 660	East/West line WEST	County CHAVES
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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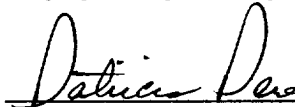
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

			
	NM-93184		

OPERATOR CERTIFICATION

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

  
Signature

Patricia Perez  
Printed Name

Regulatory Agent  
Title

12/05/01  
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.

10/08/2001

Date Surveyed  
Signature & Seal of  
Professional Surveyor

  
Certificate No. Herscheld & Jones RLS 3640  
JASPER 4  
HERSCHELD & JONES SURVEYING COMPANY

**YATES PETROLEUM CORPORATION**  
**Jasper "ARJ" Federal #4**  
 660' FNL and 660' FWL  
 Section 25-T8S-R26E  
 Chaves County, New Mexico

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

San Andres	1315'	Cisco	5855'
Glorieta	2395'	Strawn	5980'
Yeso	2515'	Mississippian	6210'
Tubb	3950'	Siluro-Devonian	6260'
Abo	4660'	Basement	6510'
Wolfcamp	5275'	TD	6660'

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

Water: 250'-350'  
 Oil or Gas: All potential formations.

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>	<u>Length</u>
12 1/4"	8 5/8"	24#	J-55	ST&C	0-1000'	1000'
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-6660'	6660'

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, and Tensile Strength 1.8
2. A 2,000 psi BOP will be nipped up on the 8 5/8" casing and tested to 1000 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 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 company to do the testing. Also, the bottom hole pressure in this field is proven to be near 1000 psi. A shut in surface pressure would be less than 1000 psi. We feel that a 1100 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 325 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C" + 2% CaCl<sub>2</sub> (YLD 1.33 WT 15.6).

Production Casing: 550 sx PVL (YLD 1.34 WT 13). TOC 4100'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1000'	FW GEL/Paper/LCM	8.6-9.6	32-36	N/C
1000'-4600'	Brine	10.0-10.2	28	N/C
4600'-6660'	Starch/Salt Gel	9.3-10.2	32-40	<6CC

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 to TD to surface casing, w/ GR/CNL TD to surface, DLL/MSFL TD to surface casing, BHC Sonic TD to surface casing; FMI TD - top of Wolfcamp; CMR over Strawn Sands.

Coring: Sidewall

DST's: None

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

Anticipated BHP:

From: 0	TO: 1000'	Anticipated Max. BHP: 400 PSI
From: 1000'	TO: 6660'	Anticipated Max. BHP: 3000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H<sub>2</sub>S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 145 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 15 days to drill the well with completion taking another 15 days.

**MULTI-POINT SURFACE USE AND OPERATIONS PLAN**  
**YATES PETROLEUM CORPORATION**  
**Jasper "ARJ" Federal #4**  
**660' FNL and 660' FWL**  
**Section 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 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 out of Roswell, NM on Hwy 70 to Ponderosa Road. Turn right, on Ponderosa Road and drive approximately 1.1 miles to lease road. Turn right, (southwest), and going approximately 2.2 miles to the El Paso Pipeline Road. Follow pipeline road straight (northwest) and drive approx. 2000' to two-track road on the left (south) side. Follow road southwest approx. 1000' where the access road will start and go southwest to the southeast corner of the well pad.

**2. PLANNED ACCESS ROAD:**

- A. The proposed new access will be approximately 500' in length from the point of origin to the southeast corner of the drilling pad.
- 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 both sides. No traffic turnout will 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 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, possibly in Roswell, and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits which may be required.

**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. Note: Pits to East Southeast.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.

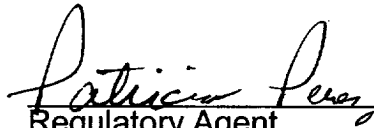
**10. PLANS FOR RESTORATION:**

- 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 location is on Federal surface administered by the BLM, 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, and historical and cultural sites.
- B. The primary surface use is for grazing.
13. OPERATOR'S REPRESENTATIVE:
- |  |   |
|--|---|
| A. Through A.P.D. Approval:<br>Patricia Perez, Regulatory Agent<br>Yates Petroleum Corporation<br>105 South Fourth Street<br>Artesia, New Mexico 88210<br>Phone (505) 748-1471 | B. Through Drilling, Completions & Prod.<br>Pinson McWhorter, Operations Manager<br>Yates Petroleum Corporation<br>105 South Fourth Street<br>Artesia, New Mexico 88210<br>Phone (505) 748-1471 |
|--|---|
14. CERTIFICATION:

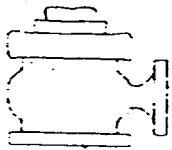
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated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

12/05/01

  
Regulatory Agent



[illegible]



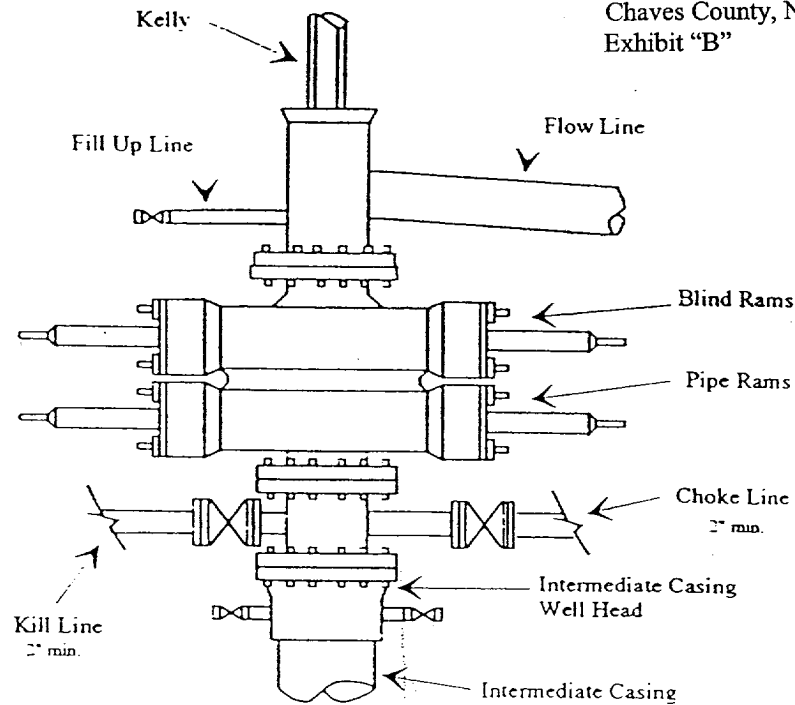
# Yates Petroleum Corporation

BOP-2

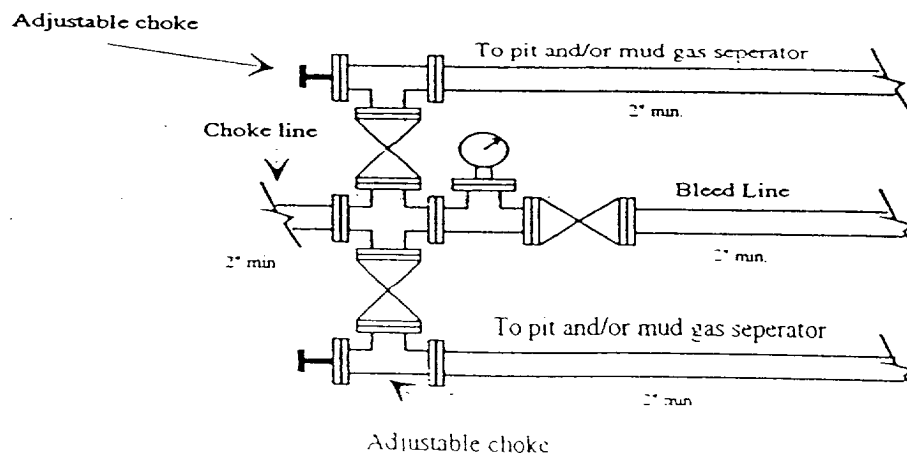
Typical 2,000 psi Pressure System  
Schematic

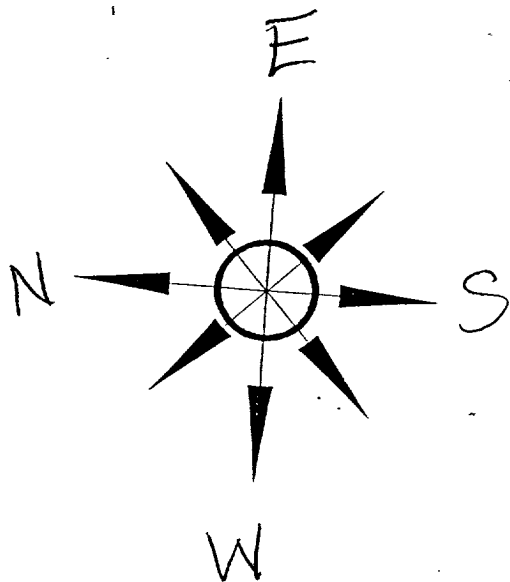
Double Ram Preventer Stack

Yates Petroleum Corporation  
Jasper "ARJ" Federal #4  
660' FNL & 660' FWL  
Section 24-T8S-R26E  
Chaves County, New Mexico  
Exhibit "B"



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



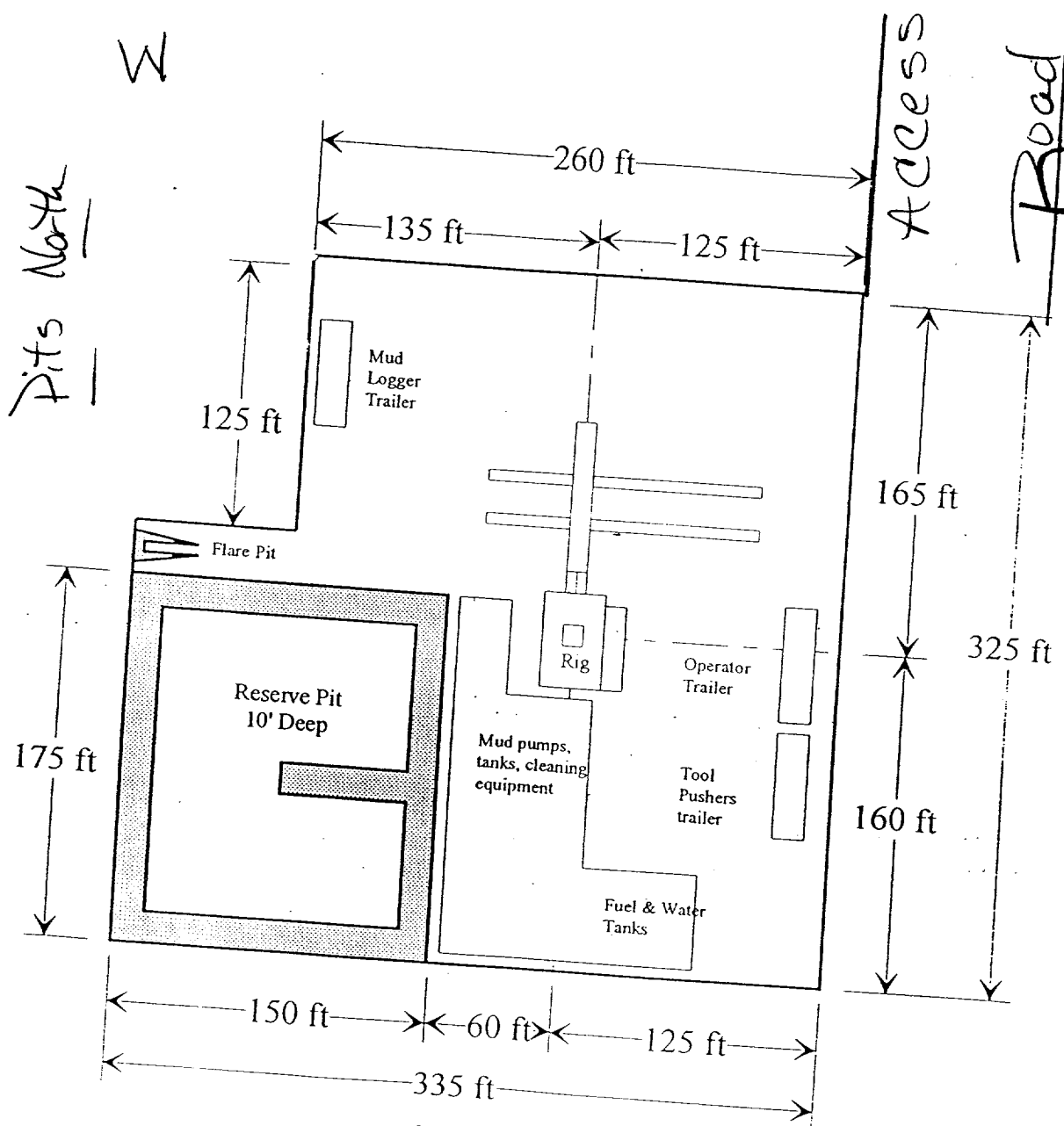


# Yates Petroleum Corporation

Location Layout for Permian Basin  
Up to 12,000'

PB - L1

Yates Petroleum Corporation  
Jasper "ARJ" Federal #4  
660' FNL & 660' FWL  
Section 24-T8S-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 Petroleum Corporation  
Jasper "ARJ" Federal #4  
660' FNL & 660' FWL  
Section 24-T8S-R26E  
Chaves County, New Mexico  
Exhibit "D"

