

N.M. 1301  
Artesia, New Mexico

45F

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.

LC-028990-B

6. If Indian, Allottee or Tribe Name

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

13231

8. Lease Name and Well No.

Creek AL Federal #15

9. API Well No.

30-015-32095

10. Field and Pool, or Exploratory

Under Bone Spring

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

Section 24, T18S-R30E

12. County or Parish

Eddy County

13. State

NM

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 Under Shugart Bone Spring, North

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

1980' FNL and 990' FEL

At proposed prod. Zone

Same Unit H

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

Approximately 7 miles southwest of Loco Hills, New Mexico

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

990'

16. No. of Acres in lease

560

17. Spacing Unit dedicated to this well

40 acres SE/NE

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

1000'

19. Proposed Depth

8400'

20. BLM/BIA Bond No. on file

585997

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

3637' GL

22. Approximate date work will start\*

ASAP

23. Estimated duration

30 days

24. Attachments

Capitan Controlled Water Basin

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)

Date

Cy Cowan

9/21/01

Title:

Regulatory Agent

Approved by (Signature)

Name (Printed/Typed)

Date

Title

STATE DIRECTOR

Office

NM STATE 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.

APPROVAL FOR 1 YEAR

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)

APPROVAL SUBJECT TO  
FEDERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

RECEIVED  
2001 SEP 21 PM 2:03  
BUREAU OF THE  
RECORDS OFFICE

MM 8 21 01

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

DISTRICT II  
611 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Bravo Ed., Artesia, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

STATE OF NEW MEXICO  
Energy, Minerals and Natural Resources Department

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 Bone Spring
Property Code	Property Name CREEK "AL" FEDERAL	Well Number 15
OCRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3637

**Surface Location**

UL or lot No. H	Section 24	Township 18S	Range 30E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 990	East/West line EAST	County EDDY
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	----------------

**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 40	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**

				<b>OPERATOR CERTIFICATION</b>  I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.   Signature  Cy Cowan Printed Name Regulatory Agent Title September 21, 2001 Date
				<b>SURVEYOR CERTIFICATION</b>  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.  8/17/2001 Date Surveyed   Signature of Professional Surveyor   Certificate No. Herschel Jones RLS 3640 CREEK-13 PROFESSIONAL LAND SURVEYOR GENERAL SURVEYING COMPANY

**YATES PETROLEUM CORPORATION**  
**Creek ALFederal #15**  
1980' FNL & 990' FEL  
Section. 24 -T18S-R30-E  
Eddy County, New Mexico

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

Rustler	485'
Tansill	1800'
Yates	1910'
Seven Rivers	2350'
Queen	3075'
Grayburg	3560'
Delaware	4600'
Bone Spring	5820'
Dolomite	8200'
TD	8400'

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

Water: Approx 250' - 350'  
Oil or Gas: All Potential Zones

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>Coupling</u>	<u>Interval</u>	<u>Length</u>
17 1/2"	13 3/8"	48#	H-40	ST&C	0-700'	700'
11 "	8 5/8"	32#	J-55	ST&C	0-2800'	2800'
7 7/8"	5 1/2"	17#	J-55	LT&C	0-100'	100'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	100-6800'	6700'
7 7/8"	5 1/2"	17#	J-55	LT&C	6800-8400'	1600'

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

## B. CEMENTING PROGRAM:

Surface casing: 400 sx Lite (Yld 2 Wt.12.5) Tail in w/ 250 sx Class "C"+ 2% CaCL2 (Yld 1.32 Wt 14.8)

Intermediate Casing: 600 sx Lite (Yld 2 Wt 12.5); Tail in w/250 sx Class "C" + 2% CaCL2 (Yld 1.32 Wt. 14.8)

Production Casing: TOC-2300'; 550 sx Lite (Yld 2 Wt. 12.5). Tail in w/ 500 sx Super "C" (Yld 1.62 Wt 13.2)

## 5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-700'	FW/Native Mud	8.4-9.0	28-32	N/C
700'-2800'	Brine	10.0-10.2	28	N/C
2800'-TD'	FW/Cut Brine	8.4-9.2	28	N/C

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: 30' samples to 5000'. 10' samples 5000' to TD.

Logging: Platform HALS

Coring: Sidewall cores as warranted.

DST's: As warranted.

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

Anticipated BHP:

From: O	TO: 700'	Anticipated Max. BHP:	300	PSI
From: 700'	TO: 2800'	Anticipated Max. BHP:	1200	PSI
From: 2800'	TO: TD	Anticipated Max. BHP:	3700	PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None

## 8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 30 days to drill the well with completion taking another 15 days.

**MULTI-POINT SURFACE USE AND OPERATIONS PLAN**  
**Yates Petroleum Corporation**  
**Creek AL Federal #15**  
1980' FNL & 990' FEL  
Section. 24, T-18S-R30-E  
Eddy 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 7 miles southeast of Loco Hills, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Artesia on Highway 82 to Highway 360. Turn right on 360 and go to Duval Shaft Road (CR-251). Turn left on Duval Shaft Road and go to Grubbs Road (CR-250). Turn right on Grubbs road and go approx. 4.8 miles. Turn left here and go approx. .7 of a mile. Turn left and go .1 of a mile and turn right and go approx. .6 of a mile. Turn left here and go approx. .6 of a mile passing two Concho wells on the right along the way. The new road will start here going north.

2. PLANNED ACCESS ROAD.

- A. The proposed new access will go north for approximately .2 of a mile to the southwest corner of the drilling pad. The road will lie in an south to north 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.

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 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 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: Federal surface, Administered by the Bureau of Land Management, Carlsbad, 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:   | B. Through Drilling Operations,<br>Completions and Production:   |
| Cy Cowan, Regulatory Agent<br><br>Yates Petroleum Corporation<br>105 South Fourth Street<br>Artesia, New Mexico 88210<br>Phone (505) 748-1471 | Pinson McWhorter,<br>Operations Manager<br>Yates Petroleum Corporation<br>105 South Fourth Street<br>Artesia, New Mexico 88210<br>Phone (505) 748-1471 |

14. CERTIFICATION:

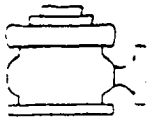
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and , that the work associated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

9/21/01

  
Regulatory Agent



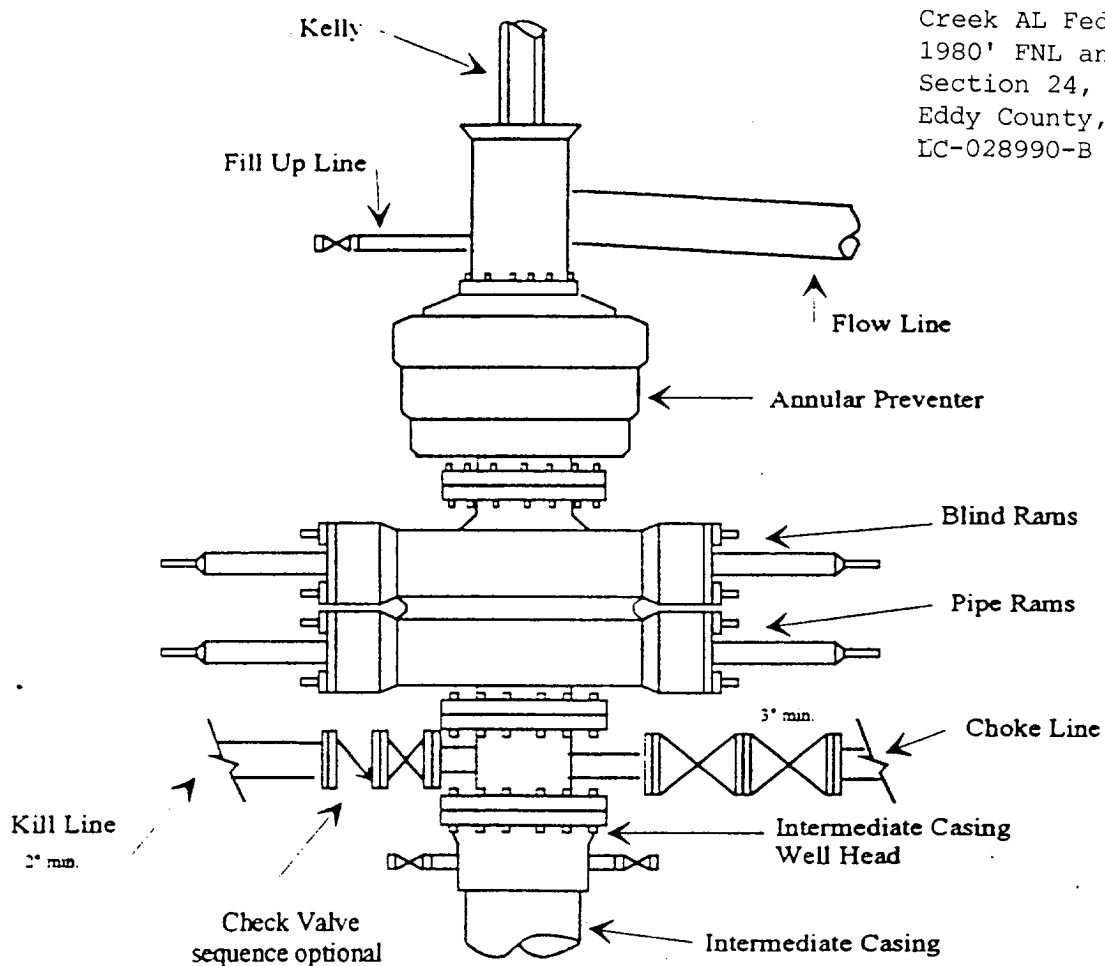




# **ates Petroleum Corporation**

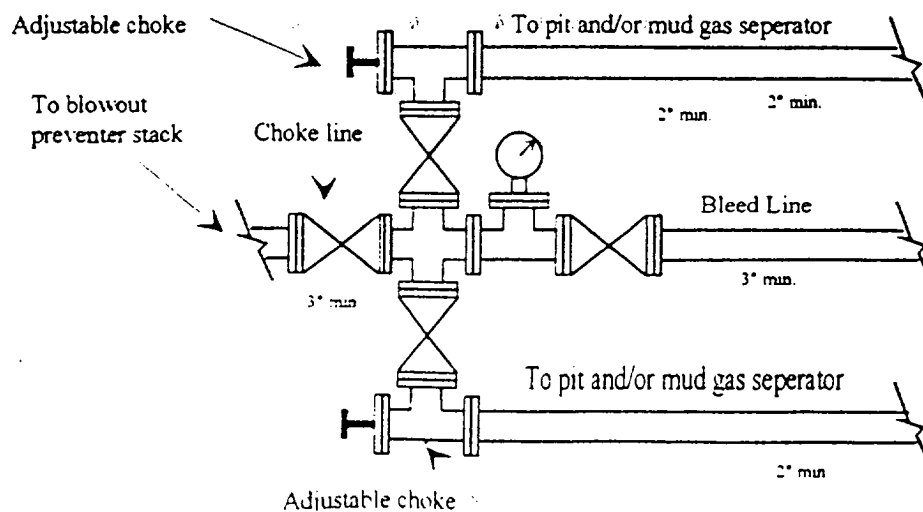
**BOP-3**

## Typical 3,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Creek AL Federal #15  
1980' FNL and 990' FEL  
Section 24, T18S-R30E  
Eddy County, New Mexico  
LC-028990-B

## Typical 3,000 psi choke manifold assembly with at least these minimum features



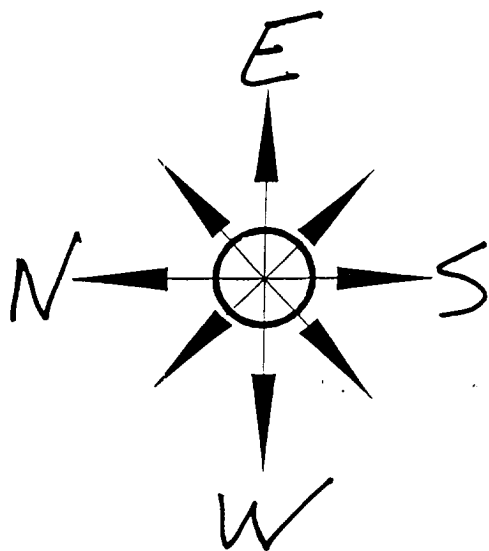


PB - L1

# Yates Petroleum Corporation

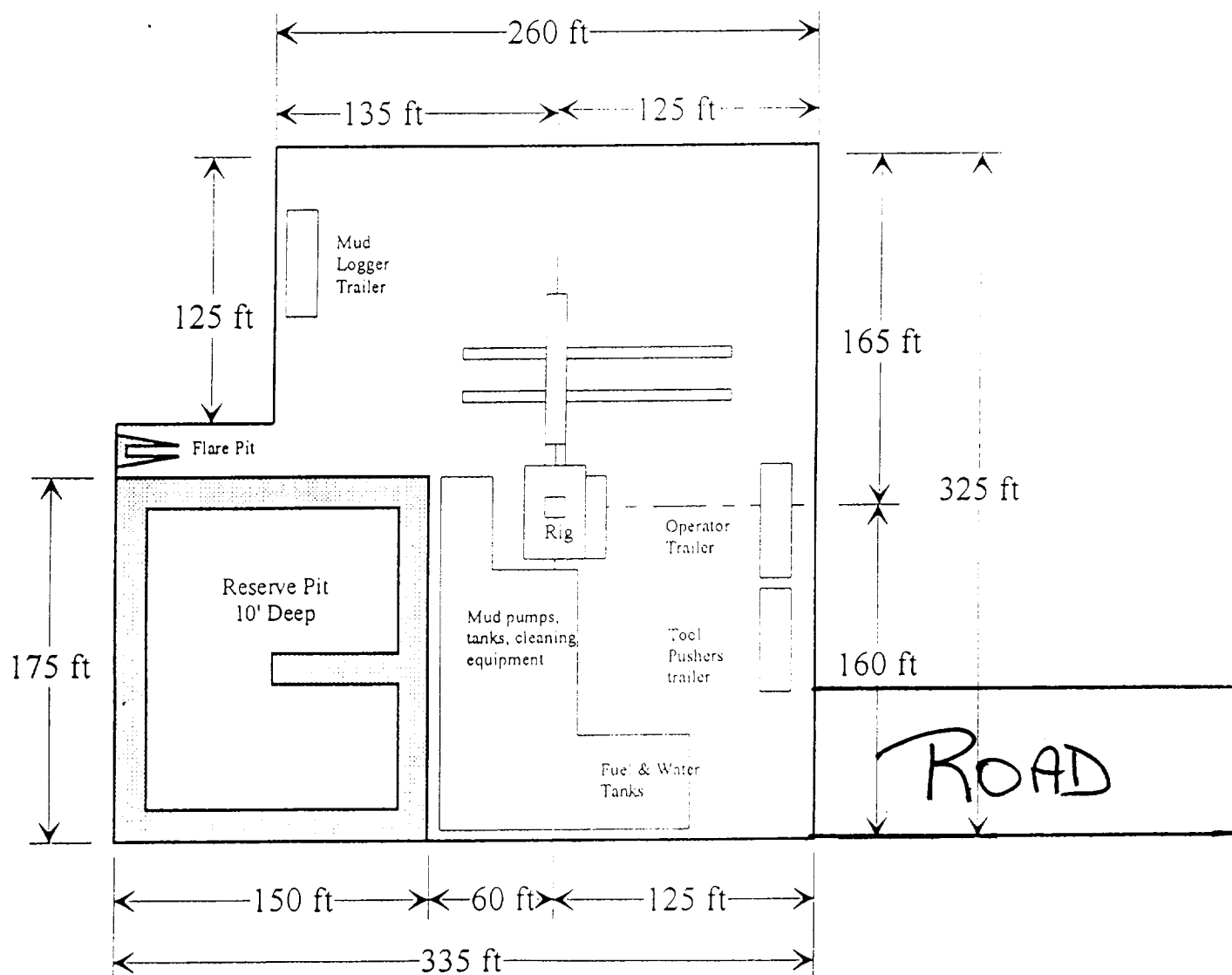
Location Layout for Permian Basin

Up to 12,000'



Pits North

Creek AL Federal #15  
1980' FNL and 990' FEL  
Section 24, T18S-R30E  
Eddy County, New Mexico  
LC-028990-B



Distance from Well  
Head to Reserve Pit  
will vary between rigs

The above dimension  
should be a maximum