APPROVED FOR 1 YEAR

N.M. Oil Cons. DIV-Dist. 1301 W. Grand Avenue

A567892

Form 3160-3	tesia	a, NA	1 8321	13			
Form 3160-3		•	. A *****	જ ુ ષ	1	0	
(August 1999)					OMB 1	No. 1004-0	136
RECEIVED LENTED STATE	S				Expires N	ovember 30	0, 2000
OCD - AR DEPARTMENT OF THE	INTERI	OR			Lease Serial No.		
BUREAT OF LAND MANA	GEMENT	ľ			NM-28162		
APPLICATION OF PERMIT TO D	6. If Indian, Allotte						
2777770						Applicat	
1a. Type of Work: X DRILL RE	EENTER				7. If Unit or CA Ag	greement, N	Name and No.
-					12810 Not A	Applicat	ble
		r-1.			8. Lease Name and	Well No.	
b. Type of Well: Oil Well Gas Other Well			Single Y	Multiple Zone	Thorpe "MI" Fe	ederal C	om. #18
2. Name of Operator					9. API Well No.		
Yates Petroleum Corporation	A: 11		raw; Perm	<u> </u>	30-005	- 694	<u> 158 </u>
3A. Address 105 South Fourth Street	36. Pho	,	iclude area cod	′	10. Field and Pool,	-	tory
Artesia, New Mexico 88210	ــــــــــــــــــــــــــــــــــــــ		05) 748-147	<u>'1 </u>	Wildcat Precar		
4. Location of Well (Report location clearly and in accordance with an		_			11. Sec., T., R., M.,	or Blk, and	d Survey or Area
At surface 660' FNL and 6		•	t A				
	as abo	ve			Section 3, T7S		10.0
14. Distance in miles and direction from nearest town or post office*					12. County or Paris	į.	13. State
Approximately thirty-five (35) miles northeast of F 15. Distance from proposed*				T.5 6	Chaves County		NM
location to nearest	16. No	of Acres	in lease	17. Spacing Ui	nit dedicated to this we		
property or lease line, ft. (Also to nearest drig. unit line, if any)	İ	32	0		320 - E/	2	
 Distance from proposed location* to nearest well, drilling, completed, 	19. Pro	posed De	pth	20. BLM/BIA	Bond No. on file		
applied for, on this lease, ft.		519	0'		NM-281	1	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Ar	proximate	date work will	start*	23. Estimated durat	ion	
3754' GL		ASAP 30 Days					
	24.	Attachr	ments ROS	WEL! CO	NTROLLED W	IATER	BASIN
The following, completed in accordance with the requirements of Onsho	re Oil and	l Gas Orde	er No. 1, shall be	e attached to this	form:		
Well plat certified by a registered surveyor.		4.1	Bond to cove	r the operations	unless covered by an	existing bo	nd on file (see
2. A Drilling Plan.			Item 20 abov	•	•	Ŭ	`
3. A Surface Use Plan (if the location is on National Forest System Land	ds, the	5.	Operator certi	,			
SUPO shall be filed with the appropriate Forest Service Office.	-	6.	-		nation and/or plans as n	nav be regu	ired by the
\bigcap			authorized of	-	•		•
25. Signature		Name (P	rinted/Typed)			Date	
Lat Leven		Pat Pe		•			0/16/01
Title:		1. 4					<u> </u>
Regulatory Agent							
Approved by (Signature) /S/LARRY D. BRAY		Name (P	rinted/Typed)			Date	
- মানুল আনুল কৰা তথা ও বা ব্যৱসাল আনুল কৰা ও ও ও		! <u> </u>	/S/LARF	RY D. BRA	.Y	FEB	2 6 2002
Title Assistant Field Manager,		Office	ROSWELL F	TELD OFFIC	E APF	ROVED	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.

APPROVAL SUBJECT TO **GENERAL REQUIREMENTS AND** SPECIAL STIPULATIONS ATTACHED

BUREAU OF LIAND MGMT.

SOOI OCI 10 bH 5:23
BECEINED

DISTRICT I 1625 N. French Dr., Hobbs, HM 86240 DISTRICT II 811 South First, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Astec, 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 Na	me
		Wildcat Precamb:	rian
Property Code	Property THORPE "MI" FEI	Well Number 18	
OGRED No. 025575	Operator YATES PETROLEUM		Elevation 3754

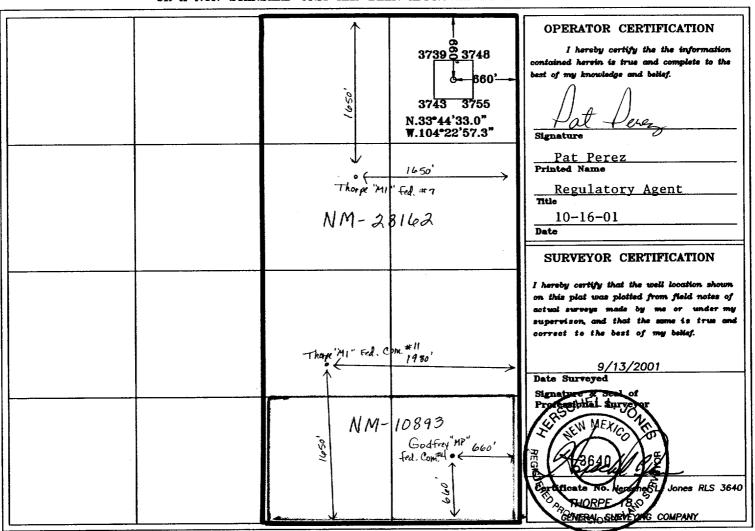
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	ı
A	3	<i>7</i> S	25E		660	NORTH	660	EAST	CHAVES	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	i p	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Con	solidation (ode 0	rder No.				
320.00					İ					

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



YATES PETROLEUM CORPORATION

Thorpe "MI" Federal Com. #18 660' FNL and 660' FEL Section 3 -T7S-R25E

Chaves County, New Mexico

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

San Andres	490
Glorieta	1390'
Yeso	1500'
Tubb	2925'
Abo	3585'
Wolfcamp	4250'
Basement-Granite	5090'
TD	5190'

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

Water:

150'-200'

Oil or Gas: All potential zones.

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)

Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	SALISH NEW YORK
14 3/4	11 3/4"	42#	H-40	ST&C	0-900'	withese
11	8 5/8"*	24#	J-55	ST&C	0-1500'	
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-5190'	

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

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
- 2. Yates Petroleum Corporation requests that 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 to do the testing. Also, the maximum shut-in bottom hole pressure is 1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.

Thorpe "MI" Federal Com #18 Page 2

A. CEMENTING PROGRAM:

Surface Casing: 350 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C"

+ 2% CaCL2 (YLD 1.33 WT 14.8).

Intermediate Casing: 250 sx Lite (YLD 1.32 WT 14.8)

Production Casing: 500 sx Super Pecos Valley Lite "C" (YLD 1.34 WT 13.0). TOC 3000'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

Interval	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-900'	FW GEL,Paper,LCM	8.6 - 9.0	32-36	N/C
900'-3550'	Cut Brine/Brine	9.0 - 10.2	28	N/C
3550'-5190'	Starch/Salt Gel	9.3 - 10.2	32-40	<6/cc

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: CNL/LDT, W/NGT TD-Surf csg; with CNL/GR up to Surf; DLL/MS

FL TD-Surf csg: BHC Sonic TD-SURF CSG

Coring: None

DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 900' Anticipated Max. BHP: 400 PSI From: 900' TO: 5190' Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

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

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Thorpe "MI" Federal Com. #18 660' FNL and 660' FEL Section 3,-T7S-R25E 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:

Drive north from Roswell on Highway 285 approx. 7 miles to One Horse Road. Turn east for approx. 2.5 miles to Cottonwood Road. Go approx. 11.7 miles (just thru cattleguard). Turn left (north) and go approx. 1.6 miles, road turns west in front of Rattlesnake water well. Follow road approx. 1 mile where the location is staked on the left (south) side of the road.

PLANNED ACCESS ROAD:

No new access road needed. Existing roads will be maintained in the same or better condition.

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 nearest pit and obtain any permits and materials needed for construction.

Thorpe "MI" Federal Com. #18 Page 2

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

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.

Thorpe "MI" Federal Com. #18 Page 3

13. OPERATOR'S REPRESENTATIVE:

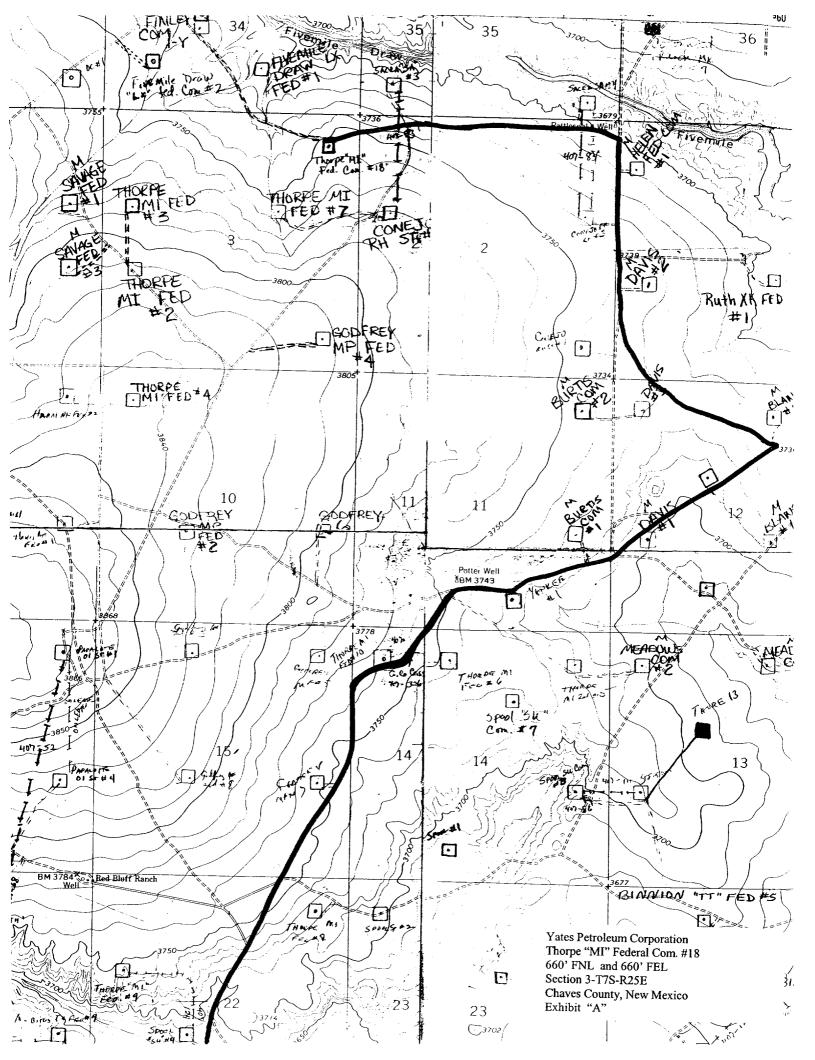
- A. Through A.P.D. Approval:
 Pat Perez, Permit Agent
 Yates Petroleum Corporation
 105 South Fourth Street
 Artesia, New Mexico 88210
 Phone (505) 748-1471
- B. Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

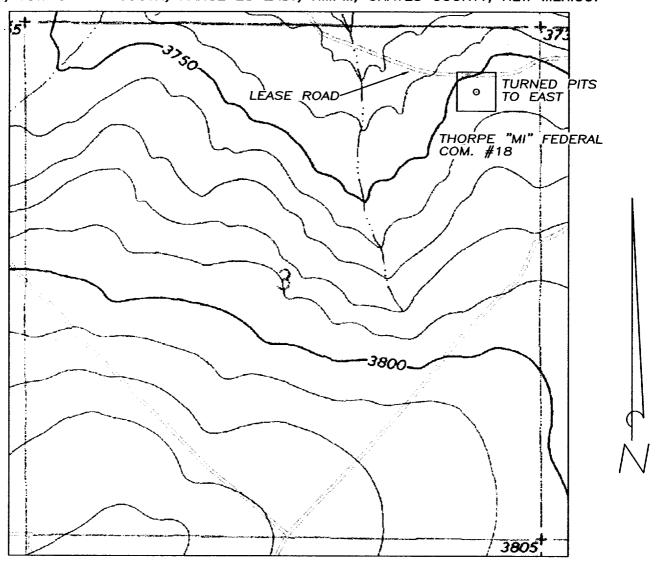
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and , that the work associated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

10/16/2001

Regulatory Agent



SECTION 3, TOWNSHIP 7 SOUTH, RANGE 25 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



Yates Petroleum Corporation Thorpe "MI" Federal Com. #18 660' FNL and 660' FEL Section 3-T7S-R25E Chaves County, New Mexico Exhibit "A-1"

THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH HE ISLBASED WERE DONE UNDER MY DIRECTION AND THE PLAT ACCURATELY, DEPICTS THE RESULTS OF SAID SURVEY AND, MEET THEY REQUIREMENTS OF THE STANDARDS FOR LINE SURVEYS IN DIENT MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS (AND LAND SURVEYORS.

ALERSCHE) DUDNES ALSS No.3640

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

Scale 1" = 1000' 2000'

Scale 1" = 1000'

YATES PETROLEUM CORP.

LEASE ROAD TO ACCESS THE YATES THORPE
"MI" FEDERAL COM. \$18, LOCATED IN SECTION
3, TOWNSHIP 7 SOUTH, RANGE 25 EAST, NMPM,
CHAVES COUNTY, NEW MEXICO.

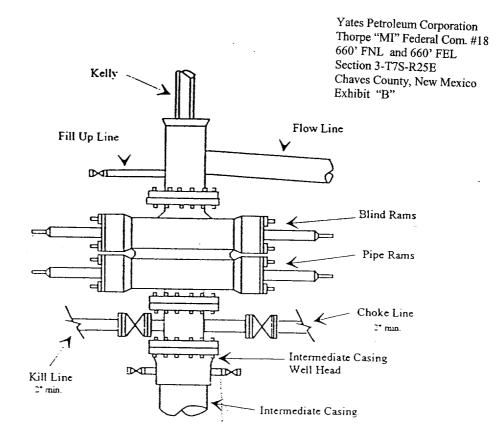
 Survey Date:
 9/13/2001
 Sheet 1 of 1 Sheets

 Drawn By:
 Ed Blevins
 W.O. Number

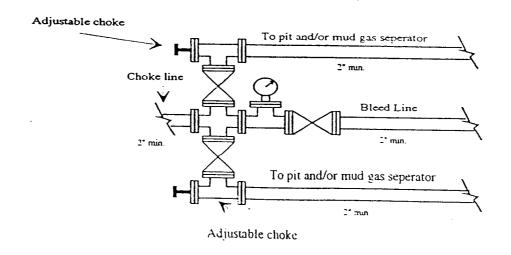
 Date:
 9/13/01
 Scale 1" = 1000'
 THORPE 18

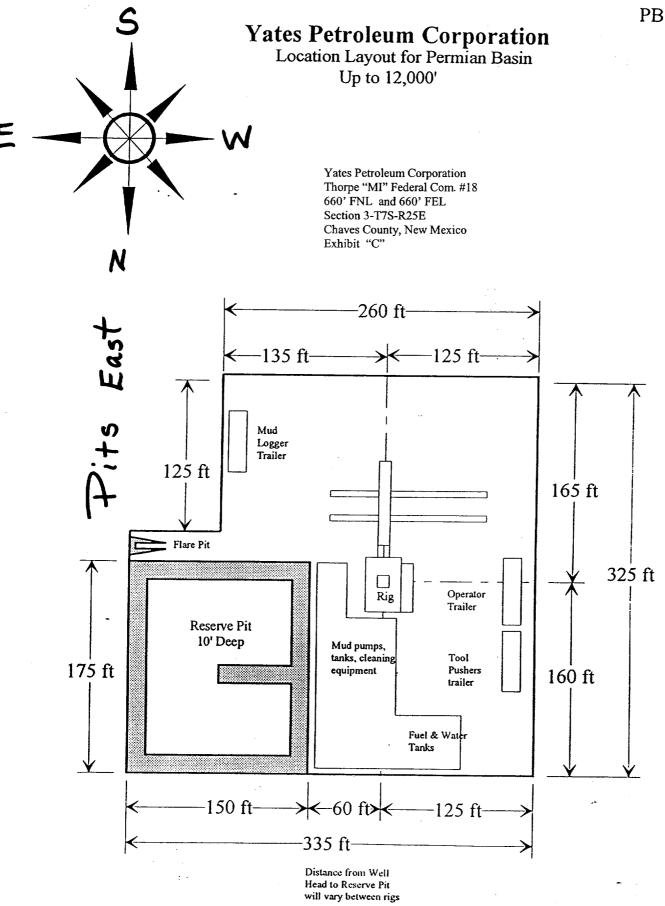
Yates Petroleum Corporation

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



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





The above dimension should be a maximum

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