

N.M. Oil Cons. DIV-DI 2
1301 W. Grand Avenue
Artesia, NM 88210

C/SK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OMB No. 1004-0136
Expires November 30, 2000

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-20932
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Not Applicable
2. Name of Operator Yates Petroleum Corporation 25575		7. If Unit or CA Agreement, Name and No. Not Applicable
3A. Address 105 South Fourth Street Artesia, New Mexico 88210	3b. Phone No. (include area code) (505) 748-1471	8. Lease Name and Well No. Stewart Federal #4 12798
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 660' FNL and 880' FEL, Unit A At proposed prod. Zone same as above		10. Field and Pool, or Exploratory Wildcat Basement
14. Distance in miles and direction from nearest town or post office* Approximately seventeen (17) miles northeast of Roswell, New Mexico		11. Sec., T., R., M., or Blk, and Survey or Area Section 1, T8S-R24E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 639	12. County or Parish Chaves County
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	17. Spacing Unit dedicated to this well 320 N/2	13. State NM
19. Proposed Depth 5000'	20. BLM/BIA Bond No. on file NM-2811	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3772' 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 <i>Clifton R. May</i>	Name (Printed/Typed) Clifton R. May	Date 1/10/02
Title: Regulatory Agent		
Approved by (Signature) <i>LARRY D. BRAY</i>	Name (Printed/Typed) LARRY D. BRAY	Date APR 15 2002
Title: Assistant Field Manager, Lands And Minerals		
Office: ROSWELL FIELD 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.

APPROVED FOR 1 YEAR

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
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

RECEIVED
2002 JAN 14 AM 10:00
BUREAU OF LAND MANAGEMENT
PORTLAND OFFICE

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

DISTRICT II
811 South First, Artesia, NM 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

FORM O-106
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 STEWART FEDERAL		Well Number 4
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION		Elevation 3772

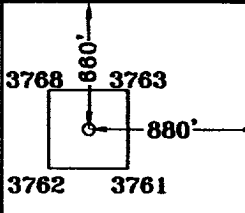
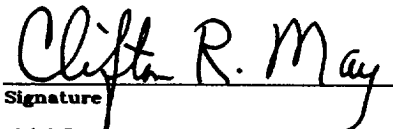
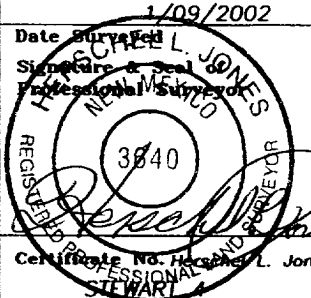
Surface Location

UL or lot No. A	Section 1	Township 8S	Range 24E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 880	East/West line EAST	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
Dedicated Acres 320	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**

		NM-20932		OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Clifton R. May Printed Name Regulatory Agent Title 1/10/02 Date
	O #3		N.33°39'19.9" W.104°27'10.4" O #2	SURVEYOR CERTIFICATION <i>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.</i> 1/09/2002 Date Surveyed  Signature & Seal of Professional Surveyor Certificate No. H. Schulz L. Jones RLS 3640 GENERAL SURVEYING COMPANY

YATES PETROLEUM CORPORATION
Stewart Federal #4
660' FNL and 880' FEL
Section 1-T8S-R24E
Chaves County, New Mexico

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

San Andres	280'
Glorieta	1180'
Yeso	1280'
Tubb	2730'
Abo	3420'
Wolfcamp	4120'
Penn	4600'
Basement Granite	4850'
TD	5000'

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)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-350'
11	8 5/8"	24#	J-55	ST&C	0-1250'
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-5000'

~~*0-5/8" will only be set if lost circulation is encountered~~

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

A. CEMENTING PROGRAM:

Surface Casing: 300 sx "C" + 2% CaCL₂ (YLD 1.32 WT 14.8).

Intermediate Casing: 200 sx Lite (YLD 1.99 WT 12.5). Tail in with 200 sx Class C+2% CACL₂ (YLD 1.32 WT 14.8).

Production Casing: 450 sx Pecos Valley Lite (YLD 1.34 WT 13.0). TOC 2900'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-350'	FW GEL, Paper, LCM	8.6 - 9.2	32-36	N/C
350'-1250'	FW	8.4 - 8.6	28	N/C
1250'-3400'	Cut-Brine/Brine	9.0 - 10.2	28	N/C
3400'-TD	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. Rig personnel will check mud hourly.

6. EVALUATION PROGRAM:

Samples: 10' samples out from under surface casing.

Logging: Platform Express CNL/LDT, W/NGT TD –Surf csg; with GR/CNL 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: 350'	Anticipated Max. BHP: 150 PSI
From: 350'	TO: 1250'	Anticipated Max. BHP: 550 PSI
From: 1250	TO 5000'	Anticipated Max. BHP: 2200 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
YATES PETROLEUM CORPORATION
Stewart Federal #4
660' FNL and 880' FEL
Section 1-T78S-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 well site is located approximately 17 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 approx. 7.5 miles to One Horse Road. Turn east and follow road approx. 2.5 miles to Cottonwood Road. Turn north and go approximately 5.4 miles and turn west. Go west on lease road for approximately 2.5 miles and the road turns right. Go approximately 0.1 of a mile and take the right fork. Go approximately 0.5 of a mile and the new road will start here and go west to the southeast corner of the pad. The Federal portion of this access is covered under NM-84347.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 300' in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a westerly 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. 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 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.

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.

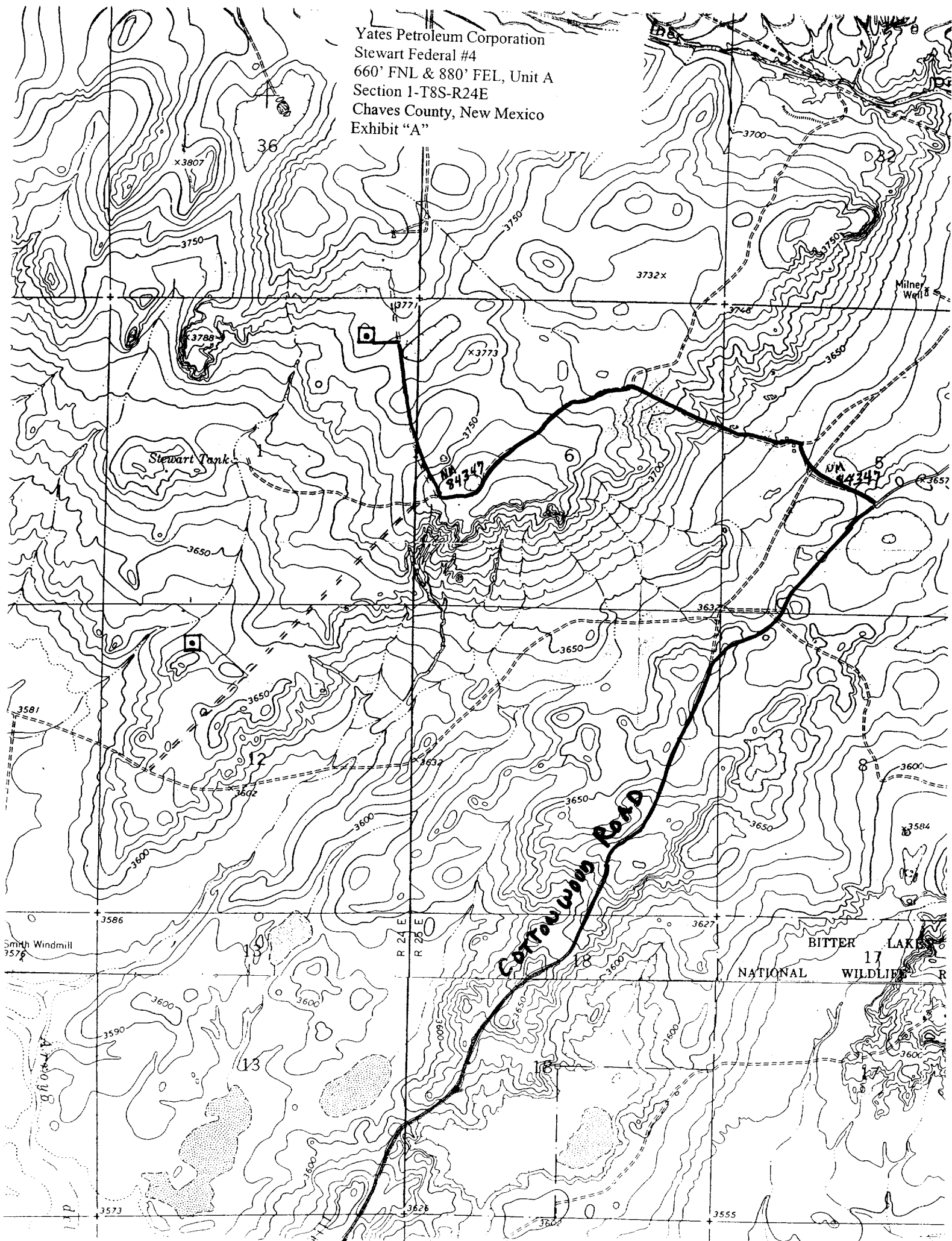
Stewart Federal #4
Page Three

11. SURFACE OWNERSHIP: This project is on split estate with the surface belonging to:
Hillman Family Trust
C/O Michael Hillman
HCR Box 1108-A
Roswell, New Mexico 88202
(505) 625-9167
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, Completions & Prod. |
| Clifton R. May, Regulatory Agent | Pinson McWhorter, Operations Manager |
| Yates Petroleum Corporation | Yates Petroleum Corporation |
| 105 South Fourth Street | 105 South Fourth Street |
| Artesia, New Mexico 88210 | Artesia, New Mexico 88210 |
| Phone (505) 748-1471 | 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.

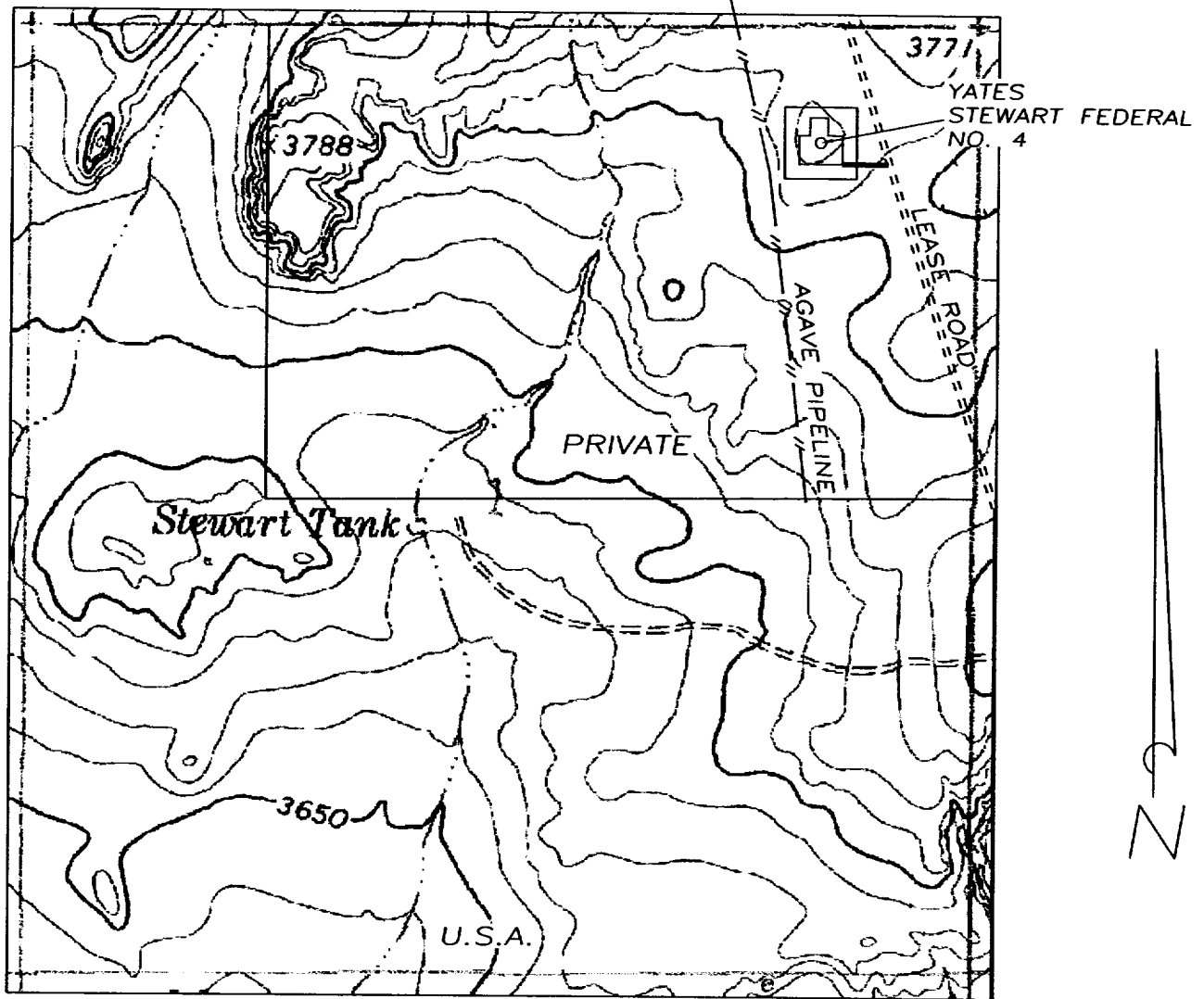
1/10/2002


Regulatory Agent

Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "A"



SECTION 1 TOWNSHIP 8 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "A-1"

1000' 0 1000' 2000'
Scale 1" = 1000'

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 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.

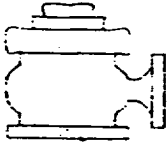
REGISTERED
3640
HERSCHEL L. JONES R.L.S. No. 3640

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

YATES PETROLEUM CORP.

LEASE ROAD TO THE YATES STEWART FEDERAL #4 LOCATED IN SECTION 1, TOWNSHIP 8 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Survey Date: 1/09/2002	Sheet 1 of 1 Sheets
Drawn By: Ed Blevins	W.O. Number
Date: 1/09/02	Scale 1" = 1000' STEWART 4



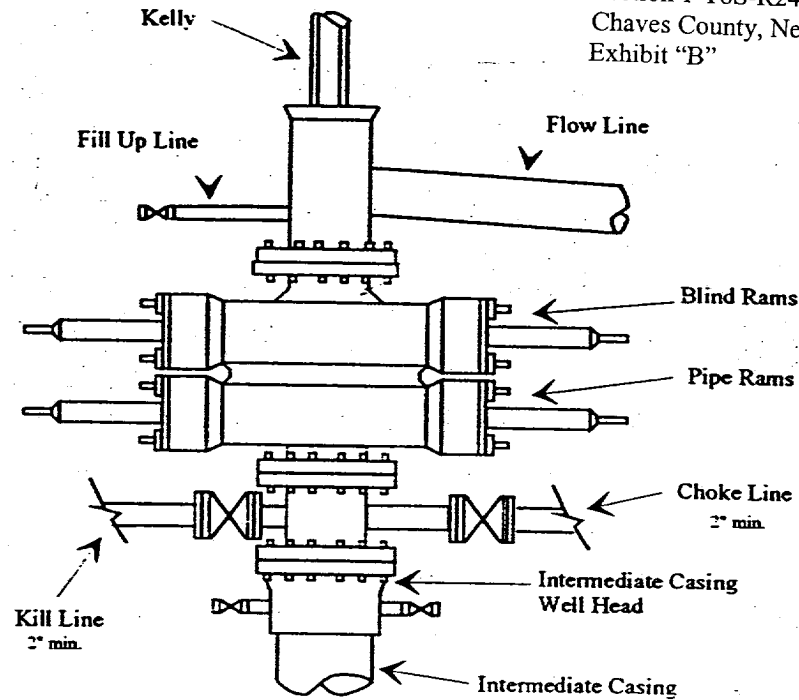
Yates Petroleum Corporation

BOP-2

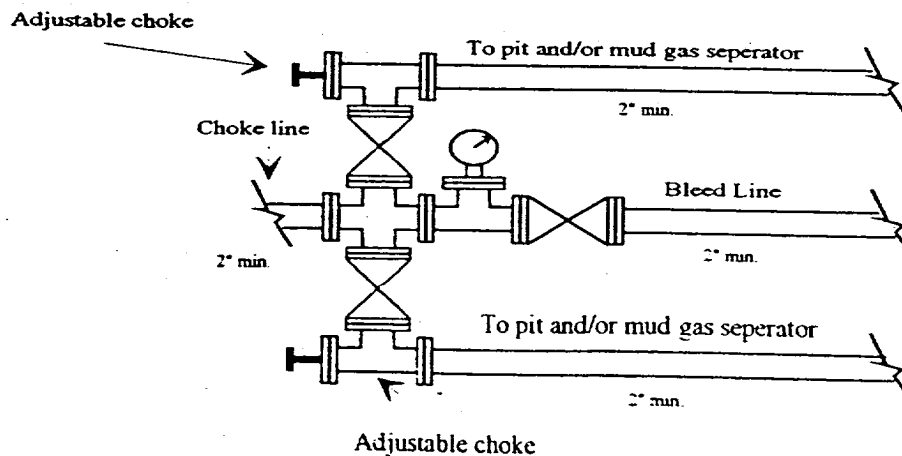
Typical 2,000 psi Pressure System Schematic

Double Ram Preventer Stack

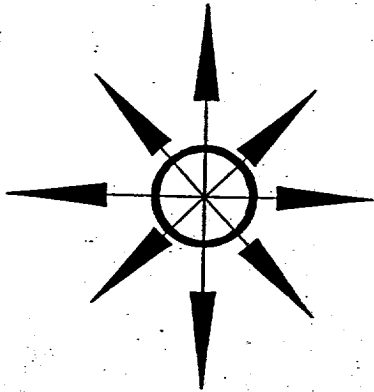
Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "B"



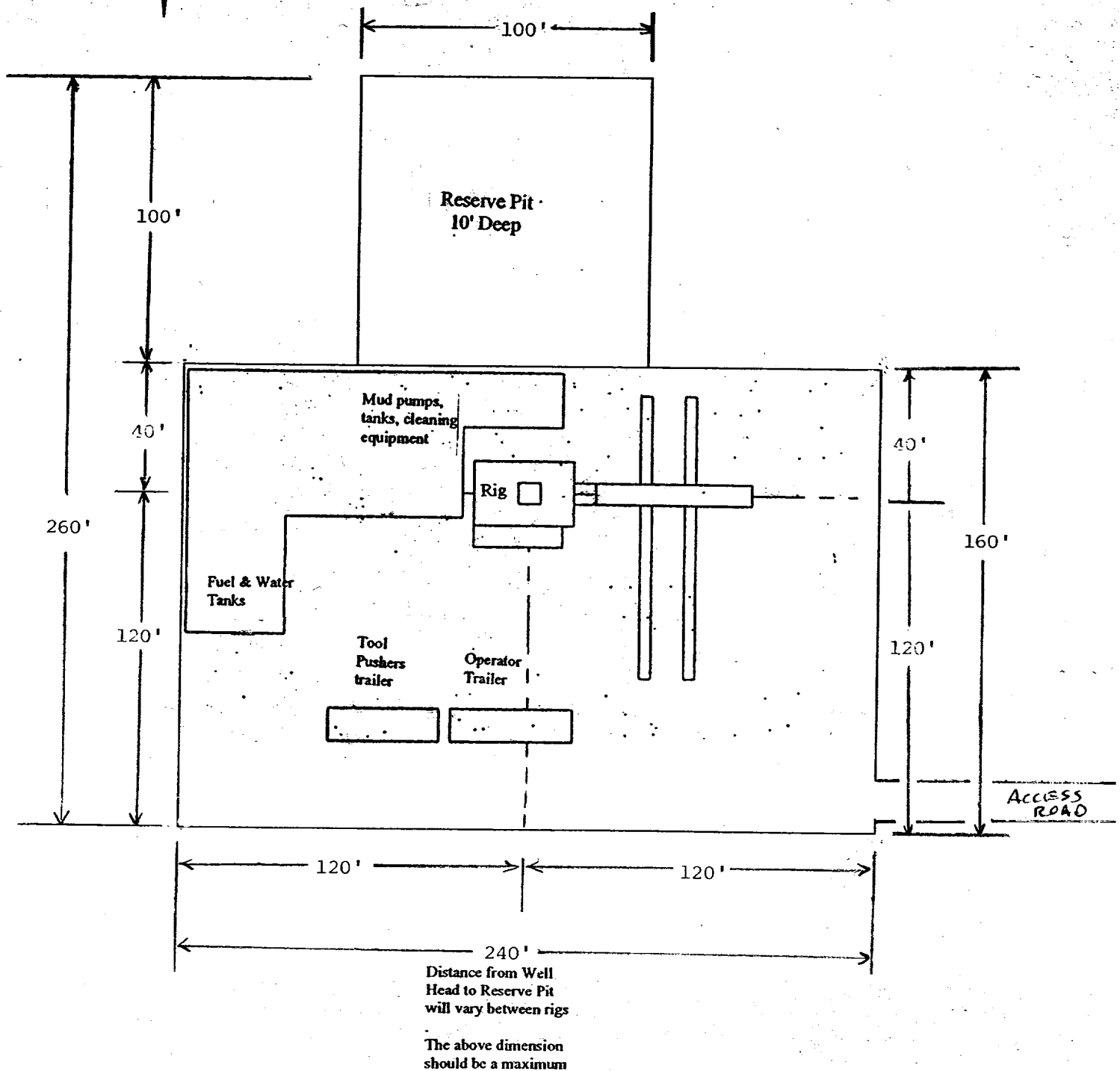
Typical 2,000 psi choke manifold assembly with at least these minimum features



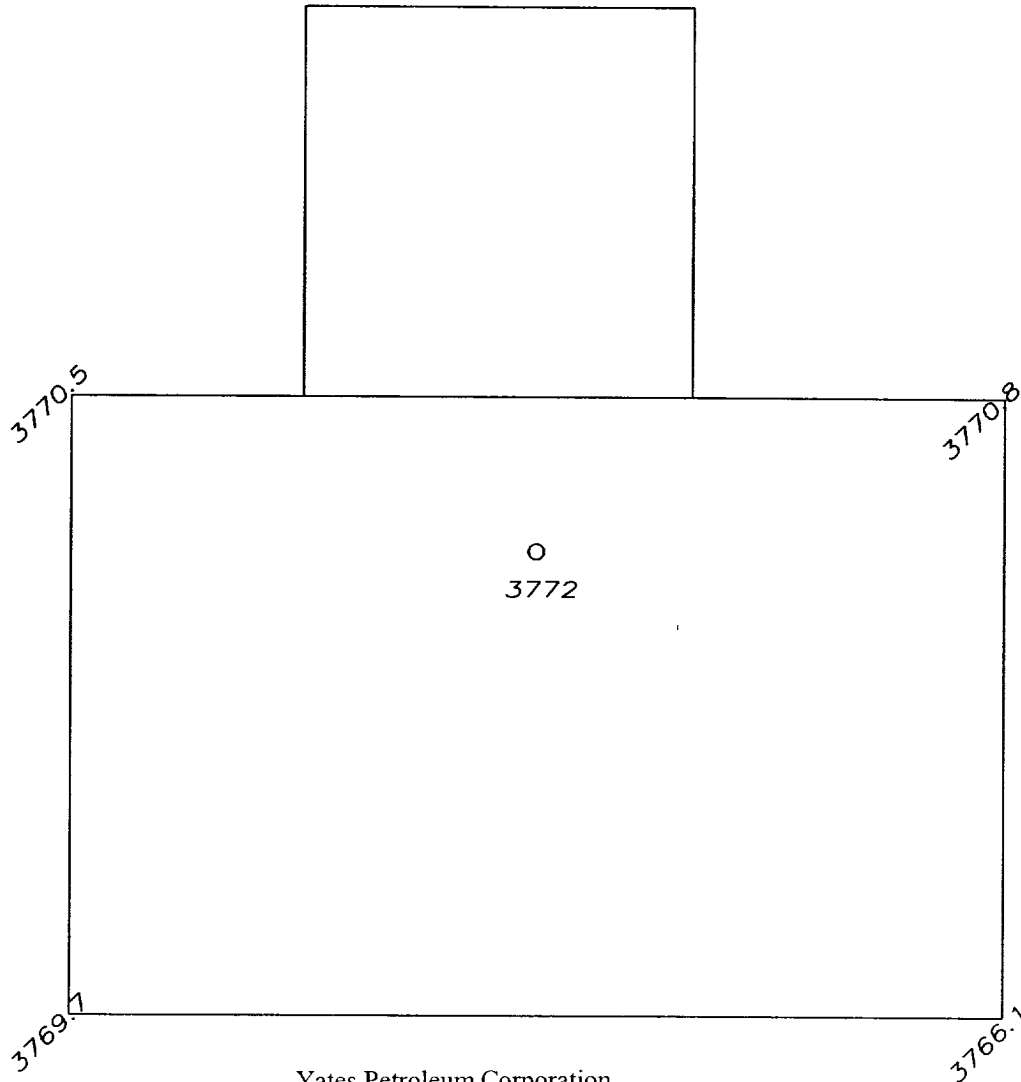
Yates Petroleum Corporation



Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "C"



YATES PETROLEUM CORPORATION STEWART FEDERAL #4, 660'/N & 1000'/E,
SECTION 1, TOWNSHIP 8 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "C-1"

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

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 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.

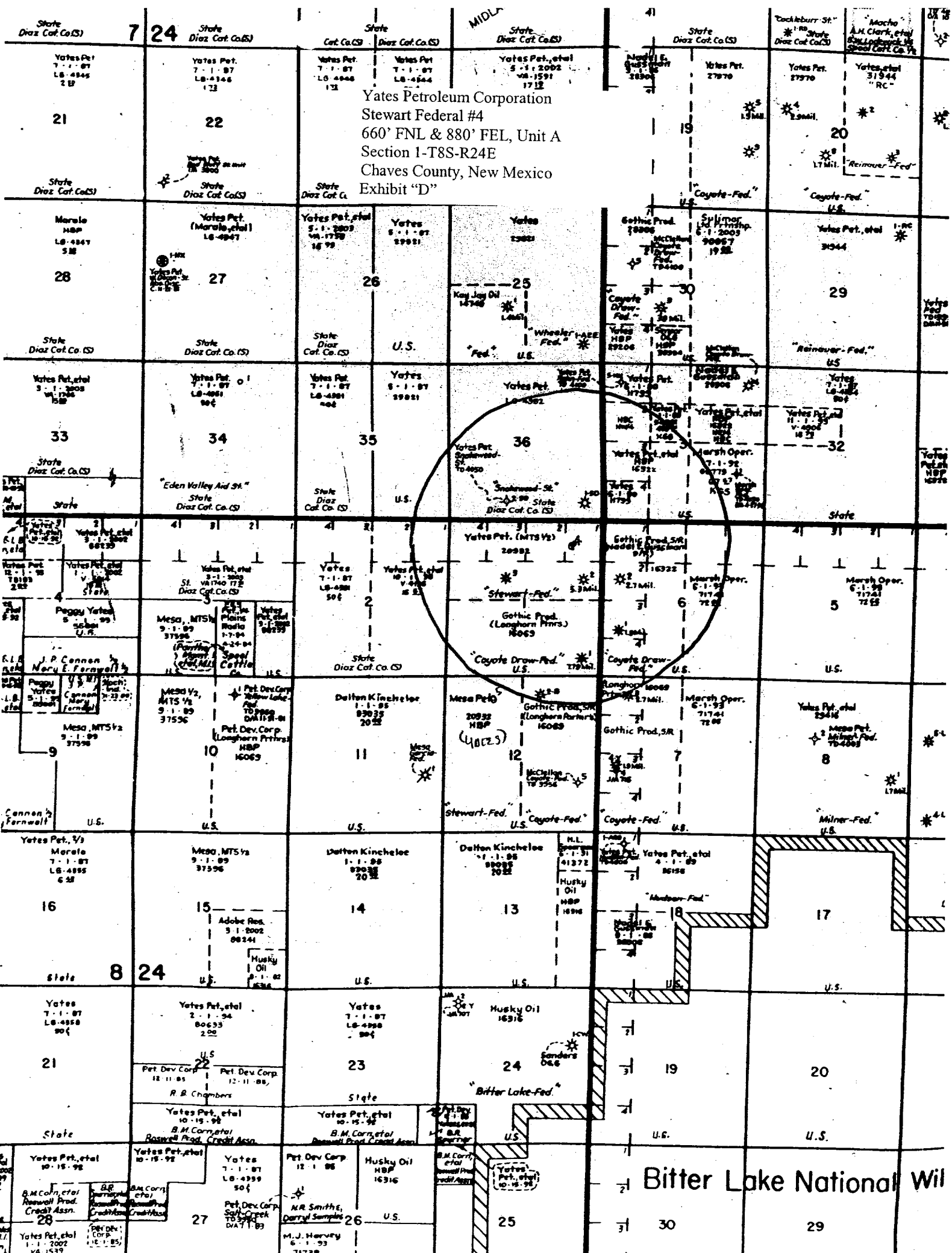
HERSCHEL L. JONES, B.S. No. 3640

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

YATES PETROLEUM CORP.

WELL PAD PLAN VIEW ON THE YATES STEWART
FEDERAL #4 LOCATED 660'/N AND 1000'/E OF
SECTION 1, TOWNSHIP 8 SOUTH, RANGE 24
EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Survey Date: 1/09/2002	Sheet 1 of 1 Sheets
Drawn By: Ed Blevins	W.O. Number
Date: 1/09/02	Scale 1" = 50' STEWART 4



Yates Petroleum Corporation
Stewart Federal #4
660' FNL & 880' FEL, Unit A
Section 1-T8S-R24E
Chaves County, New Mexico
Exhibit "D"

Bitter Lake National Wildlife Refuge