

OPER. OGRID NO. 13954PROPERTY NO. 18834POOL CODE 83320EFF. DATE 4/16/96APINO. 30-025-26761DEPA  
BL

## APPLICATION

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

CASE DESIGNATION AND SERIAL NO.

M-6870

INDIAN, ALLOTTEE OR TRIBE NAME

## 1a. TYPE OF WORK

DRILL ☒ Re-entryDEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Manzano Oil Corporation

505/623-1996

## 3. ADDRESS AND TELEPHONE NO.

P. O. Box 2107

Roswell, NM 88202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FSL &amp; 660' FWL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

46 miles NE of Carlsbad, NM

## 12. COUNTY OR PARISH

Lea

## 13. STATE

New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

660'

## 16. NO. OF ACRES IN LEASE

593.2

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL 40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

Re-entry

## 19. PROPOSED DEPTH

10,000'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3743' GL

## 22. APPROX. DATE WORK WILL START\*

May 1, 1996

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	503'	Circ 600 sx (Existing)
12 1/4"	9 5/8"	43.5#	5,295'	1900 sx "C" (Existing)
7 7/8"	5 1/2"	17.0#	13,620'	1250 sx Lite (Existing)
7 7/8"	5 1/2"	17# N-80	6,894'	250 SX "C" New csg (He back)

## Mud Program:

0' - 5295': Fresh water mud:  
5295' - 10,000': Brine mud:

## Mud Wt.

8.6 ppg  
9.0 ppg

## Vis.

29  
29

## W/L Control

No W/L cont.  
No W/L cont.

## BOP Program:

A 11" 5000 psi wp Shaffer Type LWS BOP will be installed on the 9 5/8" casing. Casing and BOP will be tested before drilling out plug at 5295' depth. BOP will be tested daily. See exhibit "E" for BOP.

Note: Propose to re-enter well, drill out plugs and install 5 1/2" casing to a depth of 6,894'. Drill plugs and clean out hole to a depth of 10,000' and try to complete in the Bone Spring formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Agent for: Manzano Oil Corp. Feb. 26, 1996  
SIGNED [Signature] TITLE DATE

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

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 operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

APPROVED BY Timothy P. O'BrienTITLE Acting AREA MANAGERDATE APR 11 1996

\*See Instructions On Reverse Side

NE MEXICO OIL CONSERVATION COMMISSION  
W. LOCATION AND ACREAGE DEDICATION PLAT

Form C-104  
Supersedes C-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

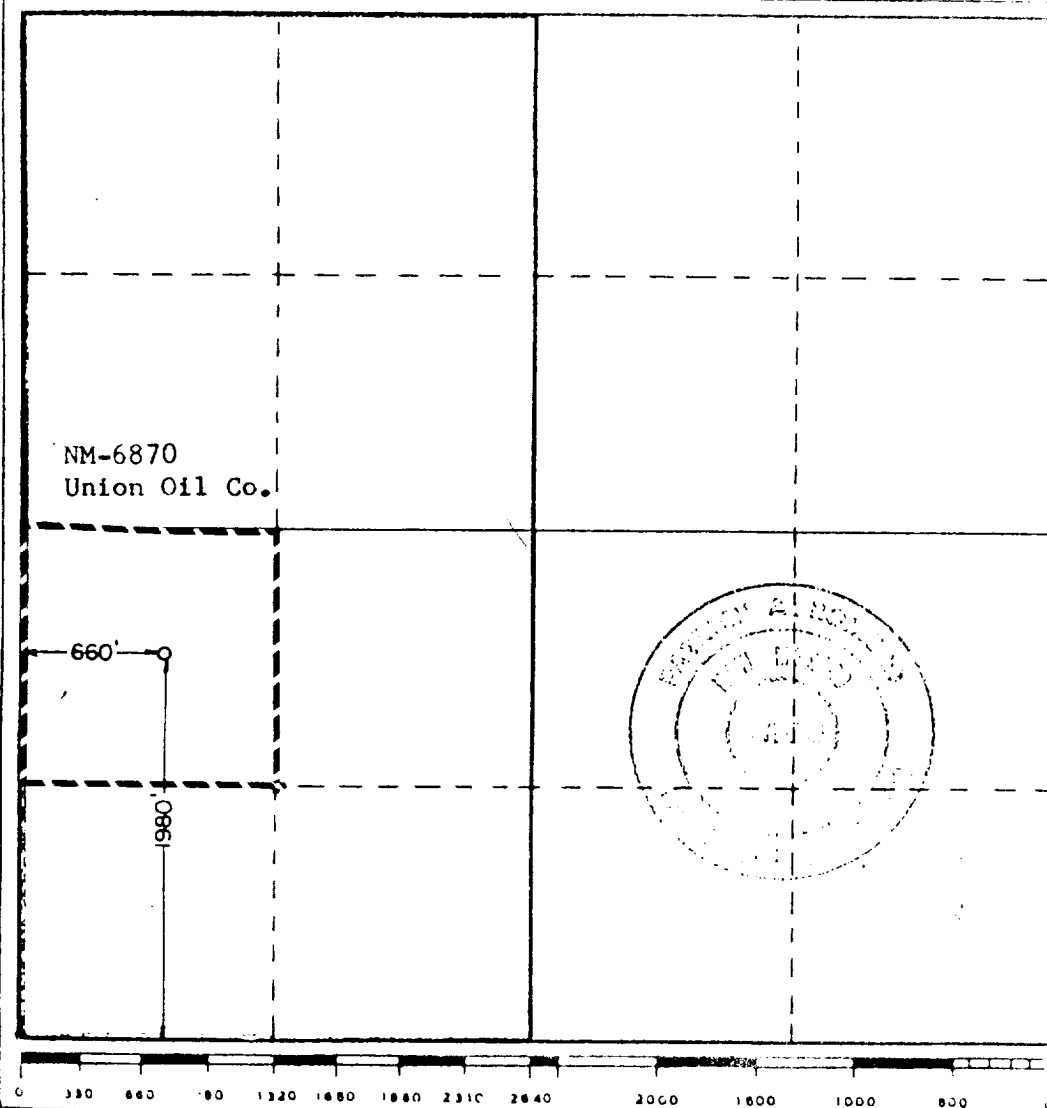
Operator <b>Union Oil Co. of California</b>			Lease <b>New: Quail Bird Federal Pipeline Deep Unit</b>		Well No. <b>New: 1</b> <b>5</b>
Unit Letter <b>L</b>	Section <b>7</b>	Township <b>19 South</b>	Range <b>34 East</b>	County <b>Lea</b>	
Actual Forage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>660</b> feet from the <b>West</b> line					
Ground Level Elev. <b>3743.0</b>	Producing Formation <b>New: Bone Springs - UNDESIGNATED MORROW</b>		Dedicated Acreage: <b>320 New: 40</b>		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

*Arthur R. Brown*  
Name

Arthur R. Brown

Position

AGENT FOR

Company

UNION OIL CO. OF CALIFORNIA

Date

FEBRUARY 26, 1980

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 knowledge and belief.

Date Surveyed

February 23, 1980

Registered Professional Engineer and Land Surveyor

*Patrick A. Romero*

Certificate No. **JOHN W. WEST 676**  
**PATRICK A. ROMERO 6468**  
**Ronald J. Eidson 3239**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
**NM-6870**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**Quail Bird Federal, No. 1**

9. API Well No.

10. Field and Pool, or Exploratory Area  
**Wildcat**

11. County or Parish, State  
**Lea County, New Mexico**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Manzano Oil Corporation**

3. Address and Telephone No.

**P.O. Box 2107 Roswell, NM 88202 (505) 623-1996**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1980' FSL & 660' FWL, Sec. 7-T19S-R34E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Re-enter P& A well**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**Propose to re-enter P&A well, the Pipeline Deep Unit, Well No. 5, drill out plugs, set casing as needed and attempt to recompleat well in the Bone Spring formation. See attached APD and Surface Use Plan.**

14. I hereby certify that the foregoing is true and correct

Agent for:

Signed

Title

**Manzano Oil Corporation**

Date

**Feb. 26, 1996**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

\*See Instruction on Reverse Side

UNOCLAL 76  
PERMIAN BASIN BUSINESS UNIT

ASSET GROUP: South Permian  
FIELD: Quail Ridge Morrow  
LEASE/UNIT: Pipeline Deep Unit Federal  
COUNTY: Lea

DATE: Jan. 12, 1995  
BY: M.C. Phillips  
WELL: #5  
STATE: New Mexico

SPUD DATE: 4/13/80  
COMP. DATE: 7/24/80  
CURRENT STATUS: Gas  
LOCATION: Sec. 7, T-19-S, R-34-E.

KB = 3,767'  
Elevation = 3,743'  
TD = 13,620  
PBD = 5,175

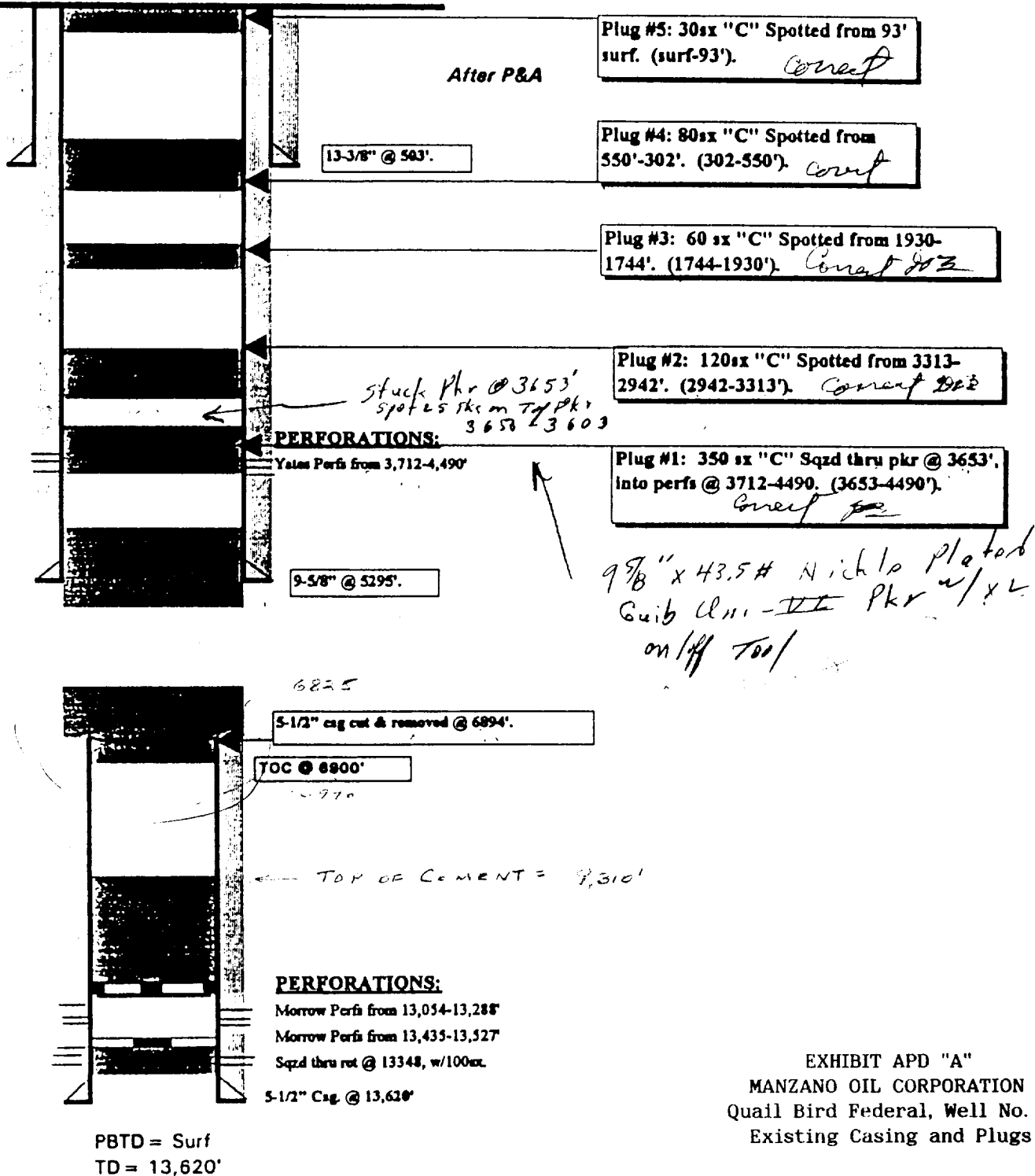


EXHIBIT APD "A"  
MANZANO OIL CORPORATION  
Quail Bird Federal, Well No. 1  
Existing Casing and Plugs

# APPLICATION FOR DRILLING

MANZANO OIL CORPORATION  
Quail Bird Federal, Well No. 1  
1980' FSL & 660' FWL, Sec. 7-T19S-R34E  
Lea County, New Mexico  
Lease No.: NM-6870  
(Re-entry Exploratory Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Manzano Oil Corporation submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Rustler	1600'	Bone Spring top	7830'
Base of salt	3100'	Bone Spring Pay	9460'
Delaware	5640'	T.D.	10,000'
3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 350'.

Gas: None.

Oil: Possible in the Delaware below 5640' and Bone Spring below 7830'
4. Proposed Casing Program: See Form 3160-3 and APD Exhibit "A".
5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging, and Coring Program:

Drill Stem Tests: None planned. Will have swab test only.

Logging: Gamma Ray/Neutron: 10,000' to surface.

Coring: None planned.
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 4000 psi with temperature of 155°.
10. H<sub>2</sub>S: None expected in Bone Spring and Delaware and everything else is behind existing casing.
11. Anticipated starting date: May 1, 1996.  
Anticipated completion of drilling operations: Approximately 4 weeks.



KEN REYNOLDS—PRESIDENT  
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROSWELL, NEW MEXICO 88202-1498  
505/623-5070 505/746-2719  
ROSWELL, NM ARTESIA, NM

RIG #1

BLOWOUT PREVENTOR ARRANGEMENT

11" SHAFFER TYPE LWS, 5000 psi WP  
11" GK HYDRIL, 5000 psi WP  
80 GALLON, 4 STATION PAYNE ACCUMULATOR  
3000 psi WP CHOKE MANIFOLD

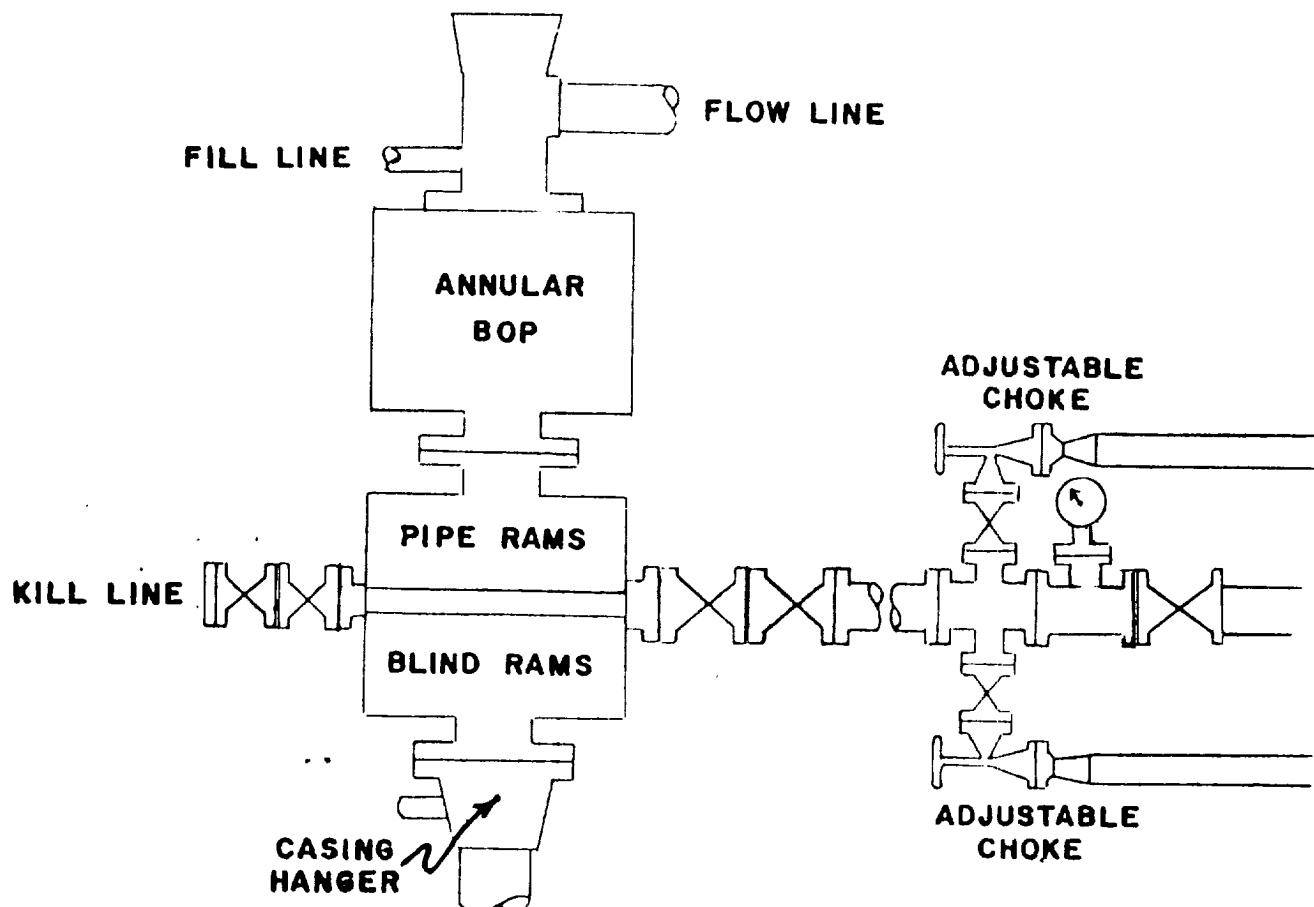


EXHIBIT "E"  
MANZANO OIL CORPORATION  
Quail Bird Federal, Well No. 1  
BOP Specifications