

N. M. OIL CONS. COMMISSION
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

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 2310' FNL & 990' PSL
At proposed prod. zone Same FWL Unit E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
44 miles NE of Carlsbad, NM

16. NO. OF ACRES IN LEASE
520

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
990'

19. PROPOSED DEPTH
3,950'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3670' GL

22. APPROX. DATE WORK WILL START*
April 15, 1997

5. LEASE DESIGNATION AND SERIAL NO.
NM-56749

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Federal (USA) "L"

9. AM WELL NO.
7

10. FIELD AND POOL, OR WILDCAT
Tonto Seven Rivers

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 14-T19S-R33E

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

PROPOSED CASING AND CEMENTING DATA				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" J-55	24.0#	1480'	Circ 800 sx WITNESS surface
7 7/8"	5 1/2" J-55	15.5#	3950'	500 sx "C" back to 8 5/8"

MUD PROGRAM:
0' - 1480': Fr/Wtr w/gel & lm:
1480' - 3950': Brine mud w/gel

MUD WT. VIS. W/L Control
9.0 ppg 29 No W/L control.
10.0 ppg 32 W/L cont. 15cc.

RECEIVED
MAR 11 97

BOP PROGRAM:
A 10" 3000 psi wp Schaffer Type E double hydraulic BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8". The BOP will be used as a 2000 psi wp system and will be tested daily.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

BLM
ROSSELL, NM
OPES NO. 13954
PROPERTY NO. 15158
POOL CODE 59470
EFF. DATE 4/1/97
FILE NO. 30-225-33903

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. SIGNED George Smith TITLE Agent for: Manzano Oil Corp. DATE March 10, 1997

(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 conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

(ORIG. SGD) TONY L. FERGUSON

ADM, MINERALS

APPROVED BY _____ TITLE _____ DATE 3/28/97

*See Instructions On Reverse Side

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bravo Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33403	² Pool Code 59470	³ Pool Name Tonto Seven Rivers
⁴ Property Code 15158	⁵ Property Name Federal (USA) "L"	⁶ Well Number 7
⁷ OGRID No. 13954	⁸ Operator Name Manzano Oil Corporation	⁹ Elevation 3670

¹⁰ Surface Location

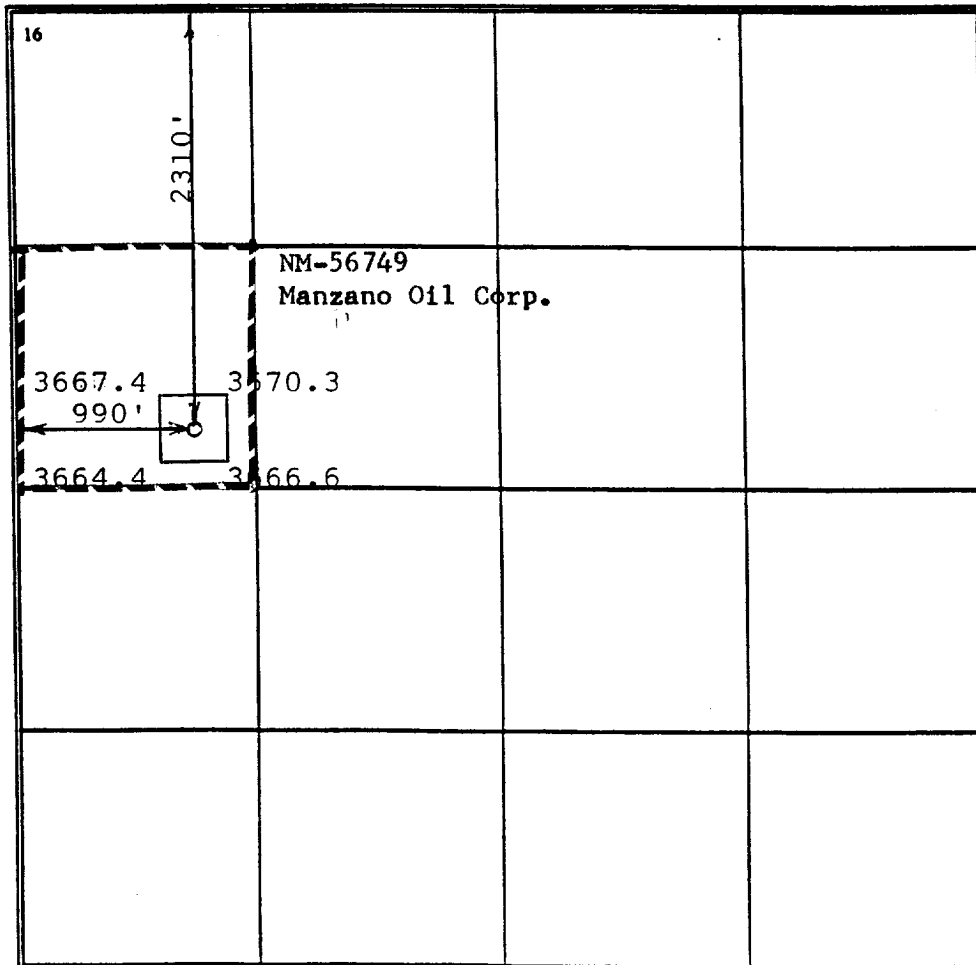
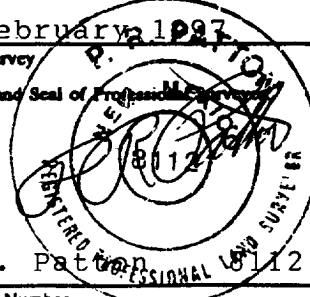
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	14	19s	33e		2310	North	990	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>George R. Smith</i> Signature George R. Smith, agent for: Printed Name Manzano Oil Corp. Title March 10, 1997 Date
	¹⁸ 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. 17 February 1997 Date of Survey Signature and Seal of Professional Surveyor  P. R. Patton Certificate Number

APPLICATION FOR DRILLING

MANZANO OIL CORPORATION
Federal (USA) "L", Well No. 7
2310' FNL & 990' FWL, Sec. 14-T19S-R33E
Lea County, New Mexico
Lease No.: NM-56749
(Development 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	1500'	Top Yates	3300'
Top/Salt	1600'	Top Seven Rivers Sand	3650'
Base/Salt	3100'	T. D.	3950'
Top Tansill	3100'		

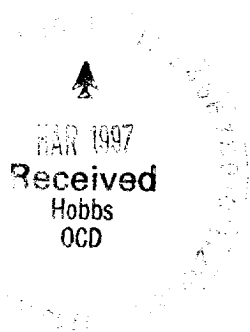
3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 350'.

Oil: Possible in the Seven Rivers below 3650'.

Gas: None expected.

4. Proposed Casing Program: See Form 3160-3.
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 unless warranted.
 - Logging: Gamma Ray/neutron: T.D. to surface.
DLL-MSFL, CNL-LTD: T.D. to 8 5/8" Casing.
 - 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 = 2000 psi with temperature of 100°.
10. H₂S: None expected based on previously drilled wells.
11. Anticipated starting date: April 15, 1997, if not in proven Prairie Chicken area.
Anticipated completion of drilling operations: Approx. 3 weeks.



ELT
Lb-eb



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROSWELL, NEW MEXICO 88203-1498
808/623-8070 808/746-2719
ROSWELL, NM ARTESIA, NM

RIG #3

BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

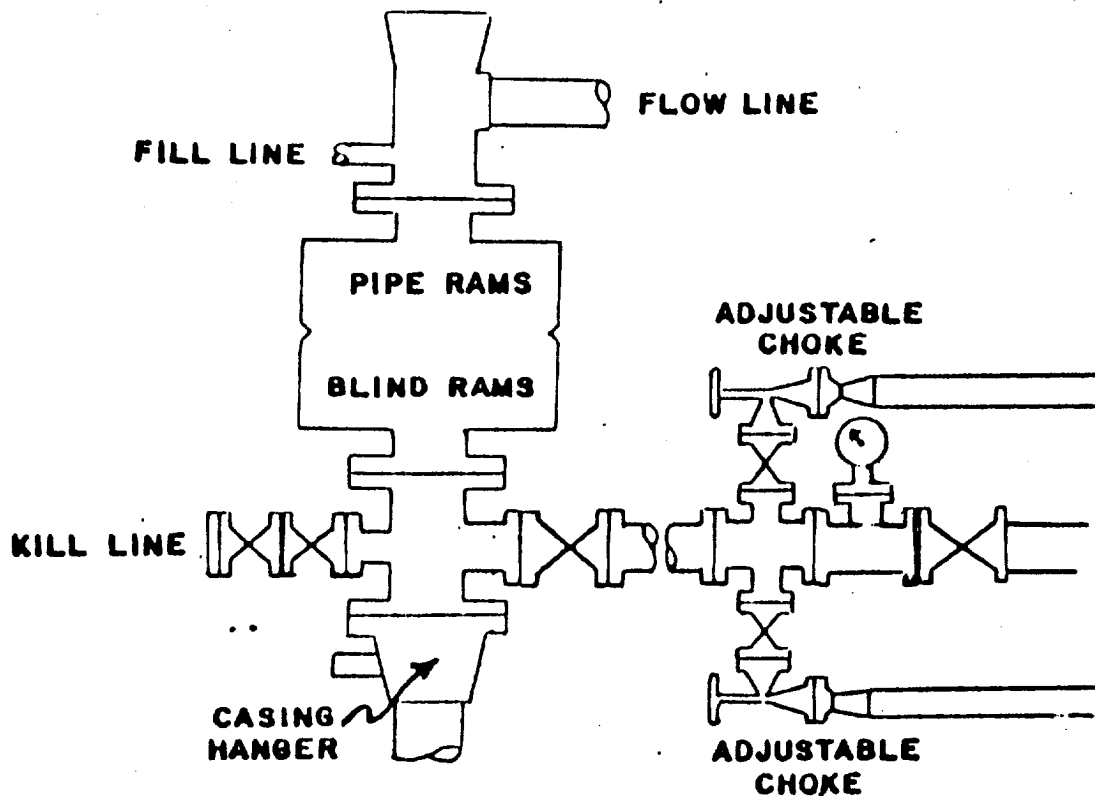
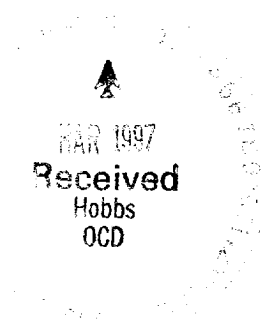


EXHIBIT "E"
MANZANO OIL CORPORATION
Federal (USA) "L", Well No. 7
BOP Specifications



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