DEPARTMEN	TED STATES TOF THE INTE		octions on side)	Budget Bure Expires: De	eau No. 1004-0136 ecember 31, 1991 FION AND SERIAL NO.
APPLICATION FOR PERMIT TO DRILL OR DEEDEN					TTES OF TRIBE HAMB
DRILL D. TYPE OF WOLL	DERPEN-HY	WIGGE TO THE REAL PROPERTY OF THE PERTY OF T	7.	UNIT AGREEMEN	IT HAME
OIL GAS WELL OTHER	APR 2 1 10	ZONE ZONE	8.	rarmor LEASE HAM Neuhaus	
Manzano Oil Corporation  8. ADDRESS AND TELETHONE NO.	\	505/623-	1996	AR WELL NO.	
P. O. Box 2107	, C. DY SRTO SEW ANIM.			PIBLD AND POO	L, OR WILDCAY
4. LOCATION OF WELL (Report location clearly and At surface 660   FNL & 165	<u></u>	Wildcat  11. SEC., T., B., M., OR BLE. AND SUBVEY OR AREA			
Dume	nt B			Sec. 14-	T20S-R35E
14. DIRTANCE IN MILES AND DIRECTION FROM NEAR 17 miles NW of Eunice.		ics•	1	COUNTY OR PAR	
18. DISTANCE PROM PROPUSED* LOCATION TO NEAREST		NO. OF ACRES IN LEASE 320		Lea  Mall 40	New Mexico
(Also to nearest drig, unit line, if any)  18. DISTANCE FROM PROPOSED LOCATION®		PROPOSED DEPTH 12.400'	1	PTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	3662.1' GL		2	2. APPROX. DATE	WORK WILL START*
25.	PROPOSED CASING AT	ND CEMENTING PROGRA	<u>'</u>	<del>7844 - 194</del> 4 - 1944	<del></del>
SIZE OF ROLE ORADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CE	MENT
17 1/2"   13 3/8" J-55 11"   8 5/8" J-55	54.5# 24 & 32#	400'			C"
7 7/8" 5 1/2" J-55 LN-80	17 & 20#	12,400'	<u>Circ</u> 1 425 sx		ite + 300 "C above <del>Strawn</del> Wolfcam
Mud Program:	4	Mud Wt.	<u>v</u>	is.	W/L Control
0' - 400': Fresh 400' - 4,000': Cut br	water Gel/lime ine mud w/stard				W/L control. W/L control.
4,000' - 8,000': Fresh	Water:	8.4- 8.6 p			W/L control.
8,000' - 11,000': Cut Br		-		- 29 No	W/L control.
11,000' - TD : Cut Br BOP Program:	ine (90-100k):	9.9-10.2 p	pg 33	- 35 W,	/L control 15co
An 11" 5000 psi wp Shaffe Casing and BOP will be te 3000 psi wp system and wi	sted before dr:	illing out with	lled on the 7 7/8".	he 8 5/8" BOP will b	casing. De used as a
AFPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS					
N ABONE STATE DESCRIBE PROPOSED PROGRAM: If   sepen directionally, give pertinent data on subsurface location	proposal is to deepen, give dates	ta on present productive zone a	and proposed new	productive zone.	if proposal is to drill or
3 1		gent for:		•	
RIGNED CATEGORE		anzano Oil Co	rp.	DATE Apr	<u>il 20, 199</u> 3
(This space for Federal or State office use)					
Application approval does not warrant or certify that the application		APPROVAL DATE	case which would ex	ntitle the applicant to	o conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:		,	15		
(ORIG. SGD.) RICHARD L. N	AMIS			_ 5/7	193
APPROVED BY	TILE	On Reverse Side	DA	IR	<del></del>

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator			Lease	·			I Wall Ma
MAN	ZANO OIL COR	PORATION	NEUH/	AUS "14"	FEDERAL		Well No.
Unit Letter	Section	Township	Range			County	
B Actual Footage Loc	14	20 SOUTH	1 -	EAST	NMPM	councy	LEA
660	t from the NO	RTH line and	1650			the EAS	Γ ,,
Ground Level Elev		rmation	Pool		feet from	ne D	line Dedicated Acreage:
3662.1'	Stra		Wildca				40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored	pencil or hachure m	arks on the	plat below.		
1		ted to the well, outline ea					
<ol><li>If more than unitization, for</li></ol>	one lease of difference-pooling, etc.?	ent ownership is dedicated	to the well, have the	interest of	all owners	been consol	idated by communitization,
Yes Yes	☐ No	If answer is "yes" type	of consolidation _				
this form hecesss	иу	d tract descriptions which					
No allowable wi otherwise) or un	ll be assigned to atil a non-standar	the well unit all intere d unit, eliminating such	sts have been conso interest, has been a	plidated (by	y communit	ization, ur	itization, forced-pooling.
	r						OR CERTIFICATION
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İ	ļ	3	664.8'3663.7'				in is true and complete to the reledge and belief.
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L			İ			George I	R. Smith
	į	NM-168				osition	
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	i		į				Oil Corporation
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	i		İ			April 20	), 1993
			ļ			SURVEYO	R CERTIFICATION
						herebu certifu	that the well location shown
	!		i		on	this plat we	is plotted from field notes of
	!	<b>,</b>	ŀ		314	tual surveys pervison an	made by me or under my I that the same is true and
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#### APPLICATION FOR DRILLING

MANZANO OIL CORPORATION
Neuhaus "14" Federal, Well No. 2
660' FNL & 1650' FEL, Sec. 14-T20S-R35E
Lea County, New Mexico
Lease No.: NM-16835
(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	2035'	Bone Spring	8070'
Base/Salt	36001	Wolfcamp	11.150'
Yates	37351	Wolfcamp Pay	11.300'
Queen	4700'	Strawn	12.000'
San Andres	5160'	T.D.	12.100'
Delaware	60551		12,100

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 Yates, San Andres. Wolfcamp and Strawn.

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.
- Testing, Logging, and Coring Program:

Drill Stem Tests: Possible in the Strawn and Wolfcamp.

Logging: Gamma Ray:

Surf. Csg. to T.D.

CNL-LDT, DLL-MFL

Below 8 5/8" to T.D.

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 = 5400 psi (Exc. Hole), Temp. = 150°.
- 9a.  $H_2S:$  None expected, based on wells drilled in the area.
- Anticipated starting date: May 20, 1993.
   Anticipated completion of drilling operations: Approximately 6 weeks.

7/19/93



#### DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498 505/623-5070 S05/746-2719 ROBWELL, NM ARTERIA, NM

### RIG #2

## BLOWOUT PREVENTOR ARRANGEMENT

II" SHAFFER TYPE LWS, 5000 psi WP
II" CAMERON SPHERICAL, 5000 psi WP
I20 GALLON, 5 STATION KOOMEY ACCUMULATOR
5000 psi WP CHOKE MANIFOLD

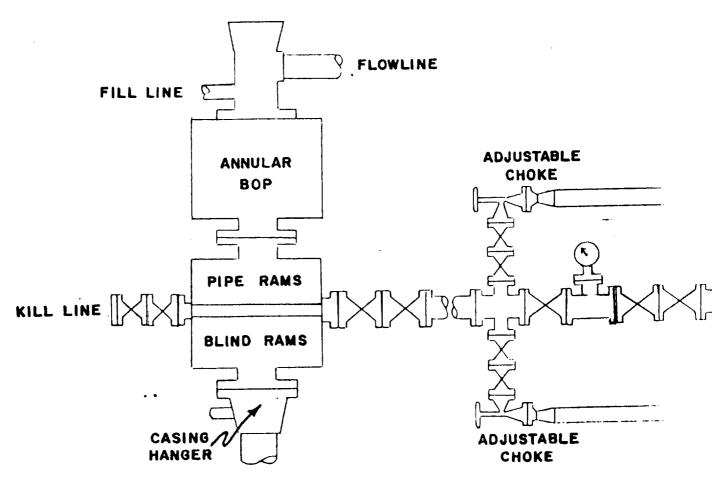


EXHIBIT "E"

MANZANO OIL CORPORATION

Neumous "11" Federal, Well No. 2

1909 Specifications