•	-		-		C/SF		
Form 9-331 C (May 1963)		ED STATES OF THE INTER	SUBMIT IN TA (Other instruc reverse si RIOR	tious on	/ ·		
		GICAL SURVEY			NM-64595		
			EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
18. TYPE OF WORK		0 211127 2 221			7. UNIT AGREEMENT NAME		
DRILI	LX	DEEPEN	PLUG BA		I. UNIT AUBBEMENT NAME		
b. TYPE OF WELL OIL GAB WELL X WEL 2. NAME OF OPERATOR	L OTHER		INGLE MULTIP		8. FARM OR LEASE NAME PBIC Federal		
	il Corporation				9. WELL NO.		
3. ADDRESS OF OPERATOR				~ .	2 10. FIELD AND POOL, PE WELLEGAT (ART		
P. O. BOX 4. LOCATION OF WELL (Repo	2107 Roswell	, NM 88202	<u>State requirements.*)</u>		Undesignated Bone Spring		
At surface		accordance and day	Q. C. D.	A.	11. SEC. T., R., M., OFILK. AND SURVEY OR AND		
At proposed prod. zone	& 800' FWL		ARTESIA, OFFICE	$\mathcal{J}_{\mathcal{J}_{L}}$			
same				<u></u>	Section 7-T18S-R31E		
14. DISTANCE IN MILES AND			·E+		Eddy New Mexico		
5 miles 8 15. DISTANCE FROM PROPOSE	outheast of Lo		O. OF ACRES IN LEASE		OF ACRES ABSIGNED		
LOCATION TO NEAREST PROPERTY OR LEASE LIN	E, FT	30'	68.67	-	HIS WELL) (34.34)		
(Also to nearest drig. 1 18. DISTANCE FROM PROPOS	ED LOCATION*	19. г	ROPOSED DEPTH	20. ROTA	TABY OR CABLE TOOLS		
TO NEAREST WELL, DRH OR APPLIED FOF, ON THIS	LEASE, PT. /	90'	8800'	Rot	22. APPROX. DATE WORK WILL START*		
21. ELEVATIONS (Show wheth	er DF, RT, GR, etc.)				January 21, 1988		
3579 GL		DODOSED CASING AN	D CEMENTING PROGR	4 M			
·····		······································			QUANTITY OF CEMENT		
SIZE OF HOLE	SIZE OF CASING	weight per foot 54.5#	SETTING DEPTH	500 51	K "C" circulated		
17 1/2"	<u>13 3/8''</u> 8 5/8''	32.0#	2200'		sx "C" circulated		
7 7/8"	5 1/2"	17 & 20 #	8800'		x 50/50 Poz		
<u>Mud Program:</u> 0' - 6:00' - 22:00' - 7000' - BOP Program: A. 3000 and tea	2200' Brine w 7000' Fresh w 8800' Cut bri	ater mud, 9-9. ne water mud, Shaffer doubl	d, 9-9.5 ppg, V 5 ppg, Vis. 30- 9-9.5 ppg, Vis. e hydraulic ope	35, no 30-35	-35, no W/L control. W/L control. , W/L 20 cc or less. BOP will be used $PosT + 10 \# 1$ $N \perp \Psi APT$ $a - 12 - 88$		

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, 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.

preventer program, in any.		
SIGNED Aleongal commeth	Agent for: <u>Manzano Oil Corporation</u>	December 29, 1987
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	0 5 \$8
APPROVED BY		DATE 2-5 88

OIL CONSERVATION DIVIL-

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	NEW MEXICO	r	P. SANTA FE	O. BOX		37501		Farm C-102 Revisea 10-1-79
			ces must be fro				tion.	
								Well No.
Cperator	0.11 0				<u>I.C.</u>	Pedera	1	2
Manzano		ation Township		P • D • Range		County		······································
Unit Letter	Section		outh		31 East	1	Eddy	
M Zëluat Fostage Loc	gijon of Well:	10 5	outh			<u> </u>		
	test from the SOU	+h	line and	۶	300	fgat from th	. West	line
990 Gigund Level Elev.	Producing For			Pool		USHO		Dedicated Acreage:
3579		Spring		Undesi	gnated			40 (34.34) Acres
1. Outline th	e acreage dedica	ted to the		l by cold	ored penci	l or hach	ure marks on t	
interest an	nd royalty).							thereof (both as to working
3. If more that dated by c	an one lease of d ommunitization, u	fferent own nitization,	vership is do force-poolin	edicated g. etc?	to the we	ll, have t	he interests o	f all owners been consoli-
[] Yes			es," type of		ation			
			-				been consolid	lated. (Use reverse side of
this form if	(necessary.)				· ·			
No allowab	le will be assigne	d to the we	ell until all	interests	have bee	n consol	idated (by con	nmunitization, unitization,
forced-nool	ing, or otherwise)	or until a n	on-standard	unit, eli	minating	such inte	ests, has bee	n approved by the Division.
Turced poor					-			
								CERTIFICATION
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		{		I			Manzan	o Oil Corporation
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NM-64595				1				
M. Shearn :				1				y certify that the well location
Manzano Oi	1 Co t p. = 45%			1			1 1	n this plat was platted from field
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APPLICATION FOR DRILLING MANZANO OIL CORPORATION PBIC Federal, Well No. 2 990' FSL & 800' FWL, Sec. 7-T18S-R31E Eddy County, New Mexico Lease No.: NM-64595 (Development Well)

In conjunction with Form 9-331C, 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 Anhyd.	445'	Delaware sand	3545'
Base of Salt	1590'	Top Bone Spring	5045'
Yates	1870'	1st Bone Spring	7172'
Queen	2880'	2nd Bone Spring	7768 '
Grayburg	3430'	Τ.D.	8800 '

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

Water: Fresh water from 100 to 300 feet.

Gas: Possible in Bone Spring.

Oil: Possible in Bone Springs: 7175' - 7275' 7770' - 7870'

- 4. Proposed Casing Program: See Form 9-331C.
- 5. Proposed Control Equipment: See form 9-331C and Exhibit "E".
- 6. Mud Program: See Form 9-331C.
- 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: One possible in the Bone Spring formation.

Logging: Surface to T.D.: Gamma Ray. Inter. Casing to T.D.: DLL, CNL-FDC, MSFL

Coring: None.

- 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.
- Anticipated starting date: January 21, 1988.
 Anticipated completion of drilling operations: Approximately 3 weeks.



