Form 3160-3 (July 1989) (formerly 9-331	DEP	UNITED S	THE INTERIOR	OFFICE FOR OF COPIES R (Other Instruct reverse al	RFT یہت tions on	BLM Roovel Modified F NHD60-3160	-2	
APPLICA			RILL, DEEPEN, C	R PILIG B	ACK	6. IF INDIAN, AL	LOTTES OR TRIRS NAME	
b. TYPE OF WELL	DRILL		EPEN 🗆	PLUG BAG		7. UNIT AGREEM	ANT MAMB	
OIL X	WELL	OTHER				8. FARM OR LEARE HAMP		
2. MAME OF OPER			3		Phone No.	Xion Fe	deral	
Manzan	o Oil Corp	oration	[505) 623	-1996	9. WELL NO.		
3. ADDRESS OF OF			-			2		
P. O. Box 2107 Roswell, NM 88202 4. LOCATION OF WALL (Report location clearly and in accordance with any State regulrements.*)						10. FIBLD AND POOL, OR WILDCAT		
AL BULLACE				uirements.*)			olfcamp North	
	2310 r	'NL & 330' F	EL Unit H			11. SSC., T., R., 1 AND BURYBY	C. OR BLE. OR ARBA	
At proposed p	Sa	ime r		4			- T 1 8 S - R 3 2 E	
		ON FROM NEAREST TOW	N OF FORT OFFICE				ABION 18. STATE	
		ljamar, NM	:			Lea	New Mexico	
10. DISTANCE FROM PROPUSED [®] LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 330' (Also to Dearest drig, unit line, if any)			16. NO. OF ACE 80			NO. OF ACEES ASSIGNED TO THIS WELL 40		
TO NEADERT WELL DUILLING COMPLETERS			19. PROPORED D		20. BOTA	OTART OR CABLE TOULS		
	, ON THIS LEASE, FT.		102	00'		Rotary	·	
21. SLEVATIONS (Show whether DF, RT, GR, etc.) 37,51 ¹ GL					<i>?</i> ,		r 2, 1992	
23.		PRO POS	ED CASING AND CEMEN	TING PROGRAM	r et es es	and the second	lied Water Basin	
HOLE SIZE	CASING SIZE	WE IGHT/FOOT	GRADE	THREAD 1		SETTING DEPTH	QUANTITT OF CEMENT	
17 1/2"	13 3/8"	54.5#	J-55	STC		350'	Circ. 300 sx	
12 1/4"	8 5/8"	24 - 32#	J-55	STC			Circ 1200 sx	
7 7/8"	5 1/2"	17 - 20#	N-80 & K-55	LTC			350 SX "H" SEE STLYS.	

Mud Program:

0' - 350': Fresh water native mud: mud wt. 8.4-9 ppg, Vis. 28, No W/L control.

350' - 9000': Cut brine mud w/starch: mud wt. 10-10.2 ppg, Vis. 28-30, No W/L control. 9000' - 10,200': Cut brine mud: mud wt. 10-10.2 ppg, Vis. 32-33, W/L 10-15cc.

BOP Program:

An 11" 5000 psi wp Shaffer Type "LWS" BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8". BOP will be used as a 3000 psi wp system and will be tested daily. .

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. 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. 7 #JONED	Agent for: Manzano Oil Corp.	October 9, 1992
(This space for Federal or State office use)		
PEBNIT KO	APPROVAL DATE	
APPROVED BY	TITLE	DATE 9. 92-
CONDITIONS OF ARROVAL SUBART 1000 GENERAL REQUIREMENTS ARD		
BOTOLAL COUDELATION	*See Instructions On Reverse Side	

Tille 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

are Lease - 4 copies	يبيد المادان والرو منافقه	م بلدويت، ، مارسم		4.25 m. e.b.	herin	لادت تناك
ce Lease - 3 copies		TOVATI		0.5		
<u>)ISTRICT I</u> .O. Box 1980, Hobbe, NM 88240		P.O. Box 20	288	UN		
<u>ISTRICT II</u> O. Drawer DD, Artesia, NM 88210	Santa Fe, I	New Mexico	87504-2088			
USU Rio Brazos Rd., Azlec, NM 87410	WELL LOCATION A All Distances must be					
урсгают		Lease		······································	Well No.	· · · · · · · · · · · · · · · · · · ·
Manzano Oil Corpo	oration	Xion	Federal			2
init Letter Section H 18	Township 18 South	Range 32 Ea		County		<u>.</u>
vetual Footage Location of Well:				<u>NMIM</u> Lea	<u> </u>	
2310 feet from the	North line and		330	feet from the East	line	
Found level Elev. Producing	Formation	Pool	······································		Dedicated Acr	rage:
3751 Wolfo	· ·	Your	ng North T	Volfca mp	40	Acres
1. Outline the acreage dedicated i	to the subject well by colored pen	icil or hachure n	irks on the plat beli	2W'.		
 If more than one lease is dedic If more than one lease of diffe unitization, force-pooling, etc.? Yes 	rent ownership is dedicated to the	well, have the i	interest of all owners	been consolidated by com		
If answer is "no" list the owners a	and tract descriptions which have	actually been co	ensolidated. (Use re	verse side of		
this form if accessary.						
No allowable will be assigned to or until a non-standard unit, elimi	outing such interest has been apr	cen consolidated	(by communitization) vision	n, unitization, forced-poolin	g, or otherwise)	
	B all			······································		
		. 1	•		in in true and	the information complete to the
		•		Signature Printed Name		- An - An
		-67986		George R	• Smith	
		nzano Oil	Corp -			
				»		
				Manzano	Oil Corpo	ration
			3754.4	3753.8		
			330'	October	9, 1992	
		, 	3748.5	3 50. SURVEY	OR CERTIF	ICATION
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APPLICATION FOR DRILLING

MANZANO OIL CORPORATION Xion Federal. Well No. 2 2310' FNL & 330' FEL, Sec. 18-T18S-R32E Lea County, New Mexico Lease No.: NM-67986 (Developemnt 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:

Yates	2485'	Delaware	4442'
Seven Rivers	2868'	Bone Spring	6386'
Queen	3632'	1st Bone Spring	8000'
Penrose	3940'	3rd Bone Spring	9430'
Grayburg	3992'	Wolfcamp Dolomite	9850'
San Andres	4289'	T.D.	10,200'

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 Wolfcamp below 9850'.

- 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: One possible in t	the Wolfcamp.
Logging: Gamma Ray/Nuetron:	T.D. to surface.
CNL-LDC, DLL, MSFL	T. D. to 8 5/8" casing.
Coring: None planned.	5

- 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 = 2400 psi with temperature of 140°.
- 10. $H_{p}S$: None expected. None in previously drilled wells in area.
- Anticipated starting date: November 2, 1992.
 Anticipated completion of drilling operations: Approximately 5 weeks.

DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

/Ek

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

RIG # |

BLOWOUT PREVENTOR ARRANGEMENT

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



BOP Specifications



Stin Roade and

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