

OPER. OGRID NO. 13954

PROPERTY NO. 17100

POOL CODE 96042

EFF. DATE 5/17/95

API NO. 30-025-32963

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991 G35

UNITED STATES
DEPARTMENT OF
BUREAU OF LAND

APPLICATION FOR PERMIT

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

2355' FSL & 400' FWL **UNORTHODOX LOCATION:**

At proposed prod. zone

Same

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

29.2 miles west of Hobbs, NM

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

265'

16. NO. OF ACRES IN LEASE

200

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.

N/A

19. PROPOSED DEPTH

14,700'

20. ROTARY OR CABLE TOOLS

Rotary

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

3873' 3874' GL Captain Controlled Water Basin

22. APPROX. DATE WORK WILL START*

June 1, 1995

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" WC40	48	400	CIRC.
12 1/4"	9 5/8" K55, WC50	36; 40	5300	CIRC.
OR 8 3/4"	7.595	23, 26, 29	14500'	SEE STIP.
	5 1/2 - 5.95	17	14700'	

Mud Program:

Mud Wt.

Vis.

W/L Control

0' - 400': Fresh water Gel spud mud: 8.6- 9.2 ppg 32 - 34 No W/L control.
400' - 5,300': Brinewater: 10.0-10.8 ppg 28 - 29 No W/L control.
5,300' - 12,000': Fresh water: 8.4- 8.6 ppg 28 - 30 No W/L control.
12,000' - 14,500': Cut brine: 10.0-10.4 ppg 36 - 40 W/L cont. 10-15cc.
14,500' - 14,700': Drill out w/fresh water: 8.4- 8.6 ppg 28 - 29 No W/L control.
Alternate: If no pressure at 12,000 feet:
12,000' - 14,700': Cut Brine: 8.6- 9.2 ppg 36 - 40 W/L cont. 10-15cc.

BOP Program:

A 3000 psi wp 12" Shaffer LWS BOP and Annular will be installed on the 13 3/8" casing, to be used to a depth 5,300 feet. A 5000 psi wp 10" X 1500 Schaffer "LWS" BOP and Hydril. will be installed on the 9 5/8" casing. Casing and BOP will be tested before drilling out with the 12 1/4" and 8 3/4" bit and will be tested daily.

Approved Subject to
General Requirements and
Special Stipulations

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:

SIGNED

Manzano Oil Corp

TITLE Manzano Oil Corp

DATE April 25, 1995

(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:

APPROVED BY

Timothy P. O'Brien

TITLE

Acting AREA MANAGER

DATE

5-11-95

*See Instructions On Reverse Side

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

DISTRICT IV
PO BOX 2088, SANTA FE, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-32963	Pool Code 96042	Pool Name Wildcat Gp 11
Property Code 17100	Property Name "SV" BOBWHITE FEDERAL	Well Number 1
OGRID No. 13954	Operator Name MANZANO OIL CORPERATION	Elevation 3873

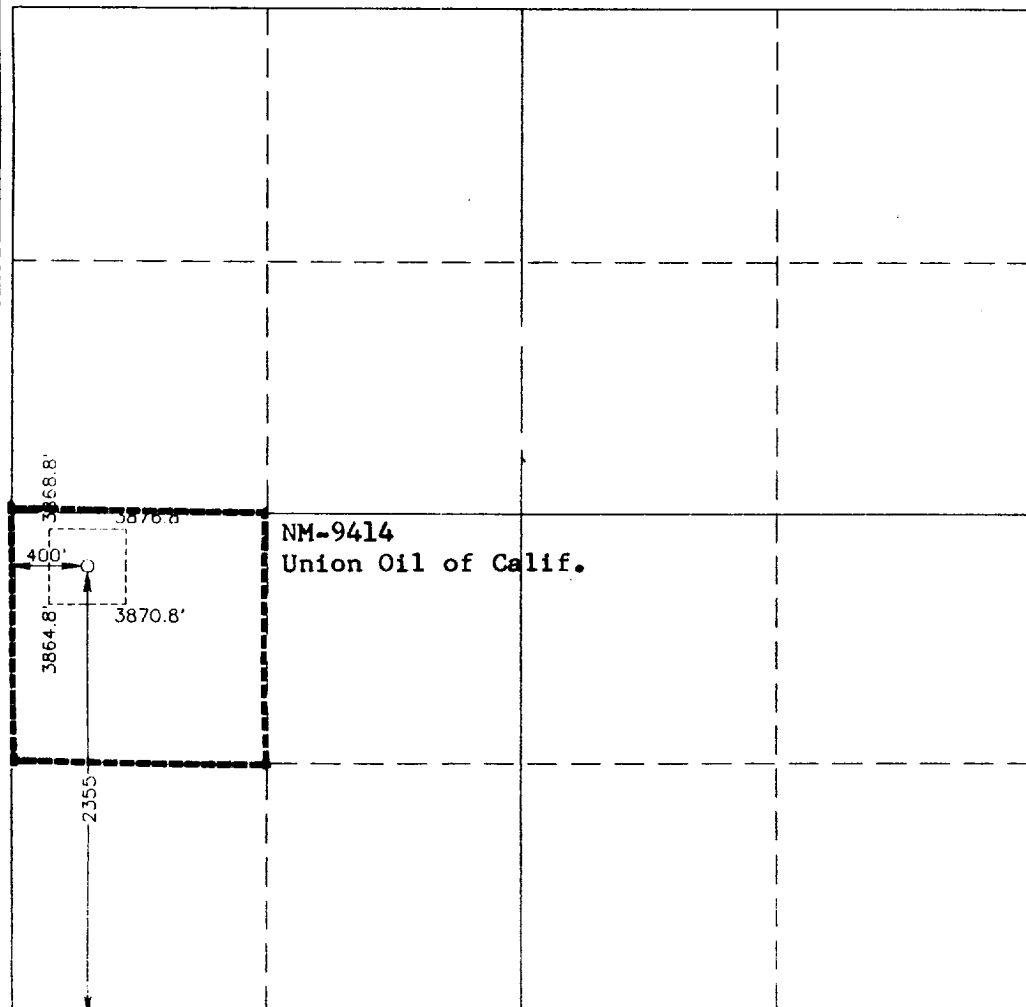
Surface Location

UL or lot No. L	Section 4	Township 19 S	Range 34 E	Lot Idn	Feet from the 2355	North/South line SOUTH	Feet from the 400	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40					Joint or Infill	Consolidation Code	Order No.		

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>George R. Smith</i> Signature</p> <p>George R. Smith, agent for: Printed Name</p> <p>Manzano Oil Corp. Title</p> <p>April 25, 1995 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>APRIL 21, 1995 Date Surveyed</p> <p><i>Ronald J. Eidson</i> Signature & Seal of Professional Surveyor</p> <p>4-24-95 W.O. Num. 95-11-0623</p> <p>Certified to: MAN. OIL WEST 6/6 RONALD J. EIDSON 3239 PROFESSIONAL SURVEYOR 12641</p>
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APPLICATION FOR DRILLING
MANZANO OIL CORPORATION
"SV" Bobwhite Federal. Well No. 1
2355' FSL & 400' FWL. Sec. 4-T19S-R34E
Lea County, New Mexico
Lease No.: NM-9414
(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:

Anhydrite	1630'	Canyon	11979'
Top/Salt	1713'	Strawn	12070'
Base/Salt	3075'	Atoka	12336'
Yates	3235'	Morrow	12825'
Queen	4486'	Miss. Barnett	13397'
San Andres	5148'	Miss. Lm.	13700'
Delaware	5919'	Woodward	14250'
Bone Spring	7850'	Devonian	14370'
Wolfcamp	10661'	Devonian-Lwr Por.	14609'
Cisco	11790'	T.D.	14700'

Group 11

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 Queen: Below 4486'
Possible in the Delaware: Below 5919'
Possible in the Bone Spring: Below 7850'
Possible in the Wolfcamp: Below 10,661'
Possible in the Devonian: Below 14,370'

Gas: Possible in the Morrow: Below 12,285'

4. Proposed Casing Program: See page 2 of APD.
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: Surface casing to T.D.
CNL-LTD, LDT, Litho-Dens.: Below 9 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, evacuated hole, = 4851 psi, BH temp. = 200°

RECEIVED

1975-1976
OFFICE

Manzano Oil Corporaton
 "SV" Bobwhite Federal, Well No. 1
 Page 2

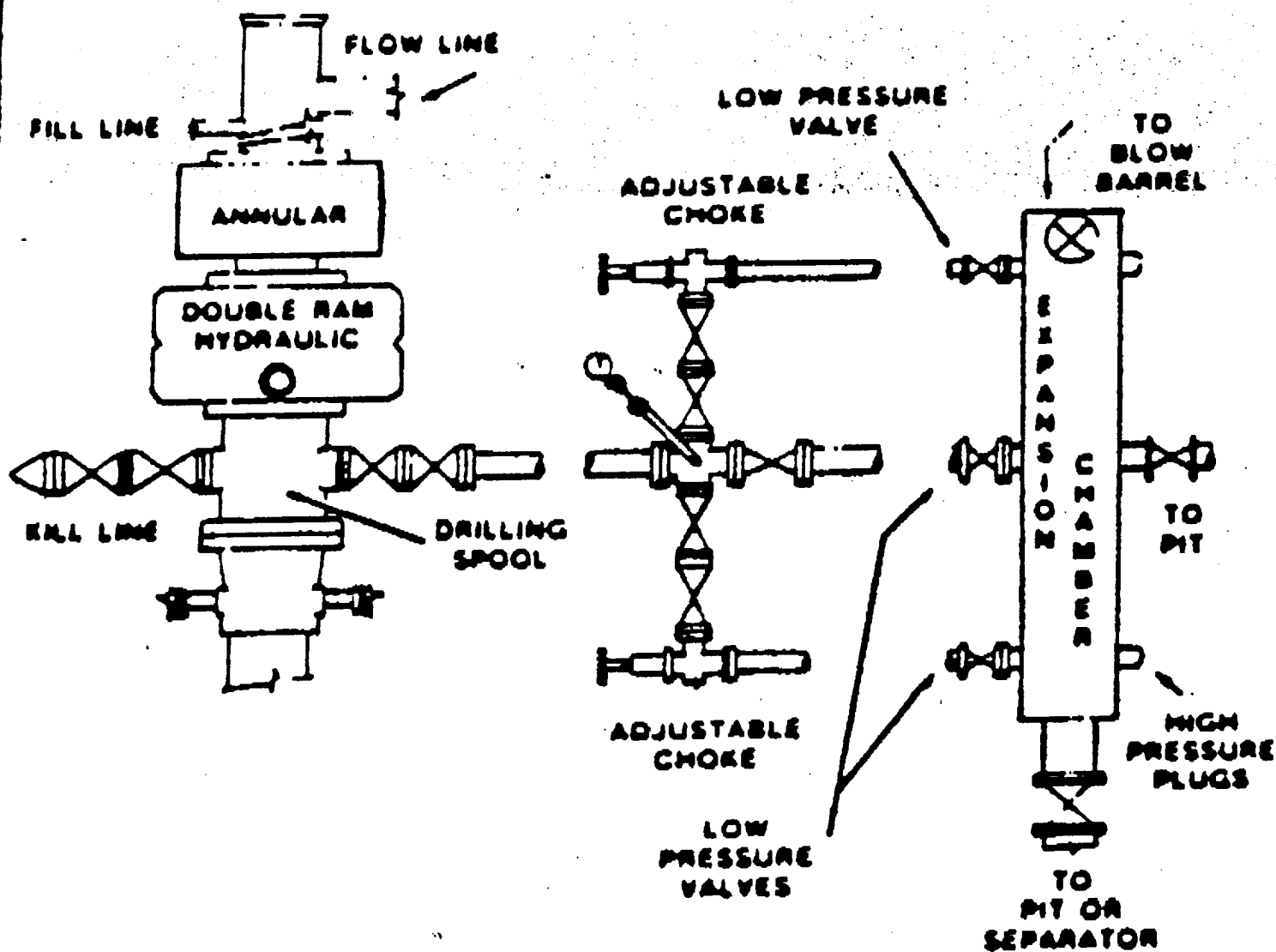
10. H₂S: None expected based on previous drilling of area wells.
11. Anticipated starting date: June 1, 1995 or when approved.
 Anticipated completion of drilling operations: Approx. 6 weeks.

Ref. Par. 4: PROPOSED CASING AND CEMENTING PROGRAM:

Hole Size	Casing Size,Grade	Weight/ft	Depth Set	Quantity of Cement
17 1/2"	13 3/8" WC-40	48.0#	400'	Circ. 450 sx "C"
12 1/4"	9 5/8" K55	40.0#	1600'	
"	" WC-50	36.0#	3000'	
"	" WC-50	40.0#	4100'	
"	" HCK55	36.0#	4900'	
"	" HCK55	40.0#	5300'	Circ. 1375 Sx Lite + 200 sx "C"
8 3/4"	7" S-95	29.0#	1200'	
"	" "	26.0#	3100'	
"	" "	23.0#	8700'	
"	" "	26.0#	13100'	
"	" "	29.0#	14500'	
5 3/4"	Open hole test of the Devonian.		14700'	Cover formation with 860 sx "H"

Alternate drilling program if there is no pressure in the Atoka or Morrow:

8 3/4"	5 1/2" S-95	17.0#	14700'	1st stage: 200 sx "H"
				2nd stage: 800 sx "H" w/DV tool



Standard Blowout Preventer Stack

EXHIBIT "E"
 MANZANO OIL CORPORATION
 "SV" Bobwhite Federal. Well No. 1
 BOP Specifications

10/27/05

10/27/05
ELF