

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Manzano Oil Corporation P.O. Box 2107 Roswell, NM 88202-2107		² OGRID Number 013954
³ Property Code 26499		⁴ API Number 30-025-35120
⁵ Property Name Manzanita State		⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	20S	35E		1880	North	660	West	Lea

⁸ Proposed 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

⁹ Proposed Pool 1 Featherstone (Bone Spring)	¹⁰ Proposed Pool 2
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¹¹ Work Type Code N	¹² Well Type Code 0	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3707'
¹⁶ Multiple No	¹⁷ Proposed Depth 10,650'	¹⁸ Formation BS Carbonate	¹⁹ Contractor Patterson Drlg	²⁰ Spud Date 8/20/00

²¹ Proposed Casing and Cement Program

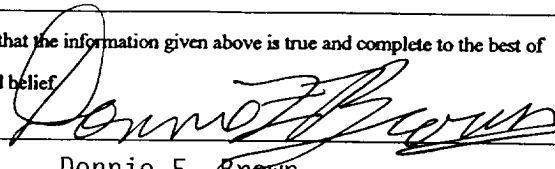
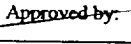
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	54.5#	400'	300	Circl
12-1/4 & 11"	8-5/8"	24 & 32#	3.800	1250	Circl
7-7/8"	5-1/2"	17 & 20#	10,650'	550	7600'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drill surface hole to 400'. Set 13-3/8" csg over all fresh water zones. Circl cement to surface. Drill interminate hole to 3800'. Run 8-5/8" csg and cement to surface. Test BOP's to 2000 psi before drlg interminate shoe. Drill 7-7/8" hole to 10,640'. DST any zone of interest. Run open hole logs. Run production string and complete in Bone Spring Carbonate if justified.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief Signature: 		OIL CONSERVATION DIVISION DISTRICT I SUPERVISOR	
Printed name: Donnie E. Brown		Approved by: 	
Title: VP Engineering		Title:	
Date: 8/08/00		Approval Date: AUG 16 2000	Expiration Date:
Phone: 505/623-1996		Conditions of Approval:	
		Attached <input type="checkbox"/>	

mp

C-101 Instructions

Measurements and dimensions are to be in inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- 1 Operator's name and address.
- 2 Operator's OGRID number. If you do not have one, it will be assigned and filled in by the District office.
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'.
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian. NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- 8 The proposed bottom hole location of this well at TD.
- 9 and 10 The proposed pool(s) to which this well is being drilled.
- 11 Work type code from the following table:

N	New well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone
- 12 Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	Miscellaneous
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well
- 13 Cable or rotary drilling code

C	Propose to cable tool drill
R	Propose to rotary drill
- 14 Lease type code from the following table:

S	State
P	Private
- 15 Ground level elevation above sea level.
- 16 Intend to multiple complete? Yes or No. Attach intended well bore diagram.
- 17 Proposed total depth of this well.
- 18 Geologic formation at TD.
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- 21 Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement.
- 22 Brief description of the proposed drilling program and BOP program. Attach additional sheets if necessary.
- 23 The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

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State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1999

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State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35120		Pool Code 24250	Pool Name Featherstone; Bone Spring
Property Code 26499	Property Name MANZANITA STATE		Well Number 1
OGRID No. 13954	Operator Name MANZANO OIL CORPORATION		Elevation 3707.

18 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	16	20-S	35-E		1880	NORTH	660	WEST	LEA

11 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 80	Joint or Infill	Consolidation Code	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

					<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Donnie E. Brown</i></p> <p>Signature Donnie E. Brown</p> <p>Printed Name VP Engineering</p> <p>Title 8/08/00</p> <p>Date</p>
					<p>18 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>JULY 26, 2000</p> <p>Date of Survey</p> <p>Signature and Seal of Registered Professional Engineer</p> <p>NEW MEXICO</p> <p>5412</p> <p>REGISTERED LAND SURVEYOR</p> <p>147</p>

DERRICK

Lee C. Moore, 131' 550,000 lb. rated capacity.

PATTERSON DRILLING COMPANY

SUBSTRUCTURE

Lee C. Moore, 14½' high 550,000 lb. rated capacity.

MUD PUMPS

Pump No. 1: Emsco DB700. 700-H.P. with steel fluid end.
4¾" - 7¾" liners, 16" stroke. Compound driven

Pump No. 2: Emsco DB500 500 H.P. powered by D379
Caterpillar Diesel.

DRILL STRING

4,500' 4½" Grade E, 20-lb.

9,000' 4½" Grade E, 16.60-lb.

Tool Joints: 4½" XH, 6¼" OD.

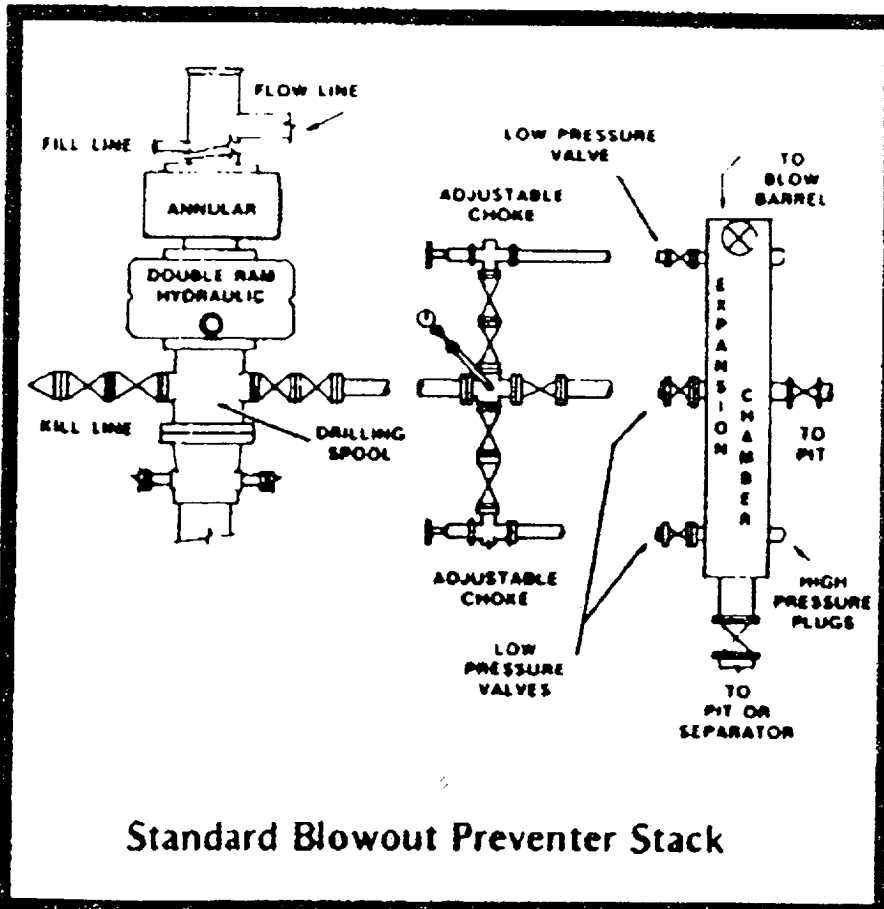
Twenty-Seven drillcollars 6½" OD, 2¼" ID.

Twenty-One 8" OD x 2½" ID Drill Collars

Other sized drillpipe and drillcollars available.

BLOWOUT PREVENTERS

One Shaffer LWS hydraulic double 11" x 5,000 p.s.i. One
Hydril 11" x 5,000 p.s.i. Choke manifold 4" x 5,000 p.s.i.
flanged connections. Kookey Type 80, 7-station
accumulator closing unit with remote control.



Manzano Oil Corporation's
Manzanita State #1
1880' FNL & 660'FWL
Sec 16, T20S, R35E
Lea County, New Mexico

ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

ELF