

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
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		¹ OGRID Number 013954
		¹ API Number 30 - 0 25-29712
¹ Property Code 20999	¹ Property Name Hudgens	¹ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	16S	36E		1980	South	1980	East	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County

⁹ Proposed Pool 1 NE Lovington Perm SWD: Wolfcamp	⁹ Proposed Pool 2
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¹⁰ Work Type Code E	¹⁰ Well Type Code S	¹⁰ Cable/Rotary N/A	¹⁰ Lease Type Code P	¹⁰ Ground Level Elevation 3883' GR
¹⁰ Multiple No	¹⁰ Proposed Depth 10,800'	¹⁰ Formation Wolfcamp	¹⁰ Contractor El Toro	¹⁰ Spud Date 6/20/97

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"	48#	427.94'	375	Surface
11"	8-5/8"	24 & 32#	4,451.30'	1675	Surface
7-7/8"	5-1/2"	17 & 20#	11,993.93'	1255	Surface

¹¹ 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. Reenter North American Royalty's Hudgens #1 P&A well. P&A 3/15/91. Drill out surface plug and cmt plug @ 1700' to 1800'. Drill out 8-5/8" cmt plug @ 4451'. Install BOP's and drill out cmt @ 5-1/2" csg stub @ 5500'. Run 5-1/2" csg and tie into csg stub. Cmt 5-1/2" csg, tie back csg into 8-5/8" csg 500' (4050') w/250 sks cmt. Drill out cmt plug in 5-1/2" csg @ 6000' to 7000'. Drill out cmt and CIBP @ 10,196'. Test Wolfcamp perms @ 10,285-293'. Drill out cmt and CIBP @ 10,500'. Set CIBP @ 10,800'. Perforate and test the Lower Wolfcamp and Beta Reef porosity. If not commercial, convert to a SWD well. See attached schematic.

SWD-671

¹² I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>David Sweeney</i> Printed name: David Sweeney Title: Drilling & Production Superintendent Date: 6/16/97		OIL CONSERVATION DIVISION Approved by: Orig. Signed by Paul Kautz Title: Geologist Approval Date: MAY 18 1997 Expiration Date: Conditions of Approval: Attached <input type="checkbox"/>	
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Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Re-Entry

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

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.

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.

9 and 10 The proposed pool(s) to which this well is being drilled.

N	New well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone

O	Single oil completion
G	Single gas completion
M	Multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well

C	Propose to cable tool drill
R	Propose to rotary drill

F	Federal
S	State
P	Private
N	Navajo
J	Jicarilla
U	Ute
I	Other Indian tribe

16 Intend to mutiple complete? Yes or No

[illegible]

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State of New Mexico
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Form C-102
Revised February 10, 1994
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Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

' APT Number 30-025-29712	' Pool Code 96135	' Pool Name SUD: Volcamp NE Lovington Penn
' Property Code 20999	' Property Name Hudgens	' Well Number 1
' OGRID No. 013954	' Operator Name Manzano Oil Corporation	' Elevation 3883'GL

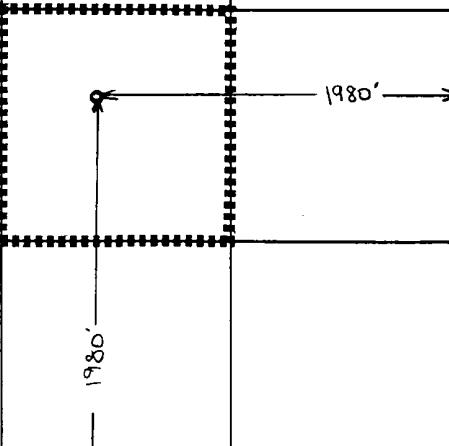
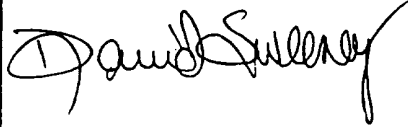
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
J	11	16S	36E		1980	South	1980	East	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
' Dedication Acres		' 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

16						17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature David Sweeney Printed Name Dirg & Prod Superintendent Title 6/16/97 Date
					18 SURVEYOR CERTIFICATION 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. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number	

New Mexico Oil Conservation Division
C-102 Instructions

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

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the appropriate OCD district office. Independent subdivision surveys will not be acceptable.

1. The OCD assigned API number for this well
2. The pool code for this (proposed) completion
3. The pool name for this (proposed) completion
4. The property code for this (proposed) completion
5. The property name (well name) for this (proposed) completion
6. The well number for this (proposed) completion
7. Operator's OGRID number
8. The operator's name
9. The ground level elevation of this well
10. The surveyed surface location of this well measured from the section lines. 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.
11. Proposed bottom hole location. If this is a horizontal hole indicate the location of the end of the hole.
12. The calculated acreage dedicated to this completion to the nearest hundredth of an acre
13. Put a Y if more than one completion will be sharing this same acreage or N if this is the only completion on this acreage
14. If more than one lease of different ownership has been dedicated to the well show the consolidation code from the following table:

C	Communitization
U	Unitization
F	Forced pooling
O	Other
P	Consolidation pending

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

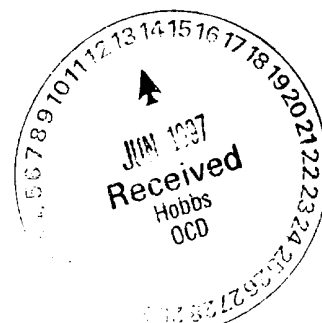
15. Write in the OCD order(s) approving a non-standard location, non-standard spacing, or directional or horizontal drilling

16. This grid represents a standard section. You may superimpose a non-standard section over this grid. Outline the dedicated acreage and the separate leases within that dedicated acreage. Show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. (Note: A legal location is determined from the perpendicular distance to the edge of the tract.) If this is a high angle or horizontal hole show that portion of the well bore that is open within this pool.

Show all lots, lot numbers, and their respective acreage.

If more than one lease has been dedicated to this completion, outline each one and identify the ownership as to both working interest and royalty.

17. The signature, printed name, and title of the person authorized to make this report, and the date this document was signed.
18. The registered surveyors certification. This section does not have to be completed if this form has been previously accepted by the OCD and is being filed for a change of pool or dedicated acreage.



WELL BORE SKETCH

OPERATOR/LEASE/WELL: Manzano Oil Corporation Hudgens #1

LOCATION: Unit J, NW/4SE/4, 1980'FSL & 1980'FEL, Sec 11, T16S, R36E, Lea County, NM

FIELD/POOL: _____ /

PLUG BACK DEPTH: KB: ELEVATION: 3883' GR

10 sks
surface
plug

Hole Size: 17-1/2"

-SURFACE CASING:

Size: 13-3/8" Weight: 48 Grade: H40
Set at: 427.94' w/ 375 Sacks cement
Circulate: 50 Sacks to surface
Remarks:

100'
cmt
plug @
1700-1800

Hole Size: 11"

-INTERMEDIATE CASING:

Size: 8-5/8" Weight: 24 & 32 Grade: K55
Set at: 4451.30' w/ 1675 Sacks cement
Circulate: 150 Sacks to surface
Cement Top: Calc _____ Temp Survey: _____
Remarks:

100' cmt
plug @
4451-4351'

Hole Size: 7-7/8"

PRODUCTION CASING:

Size: 5-1/2" Weight: 17 & 20 Grade: N80
Set at: 11,993.93' w/ 1255 Sacks cement
Cement Top: Calc: _____ Temp Survey: 5900'
Remarks:

100' cmt
plug @
5511-5411'

3/14/91
5-1/2" csg shot off
and pulled @ 5500'

TUBING:

Size: _____ Weight: _____ Grade: _____
 Number of Jts: _____ Set at: _____
 Packer set at: _____
 Bottom Arrangement: _____

100' cmt
plug @
6000-7000'

RODS:

Size: _____ Number: _____
Gas Anchor Set at: _____
Pump set at: _____
Arrangement: _____

CIBP @
10,196'
w/35' cmt

Wolfcamp perforations
@ 10,285-10,293'

Plugged & Abandoned 3/15/91.

CIBP @
10,500'
w/35' cmt

Atoka perforations @
11,754-11,762' &
11,792-11,817'

TD 12,000'

RECEIVED
NOV 20 1997

MANZANO OIL CORPORATION

