

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

Operator Name and Address. Manzano Oil Corporation P.O. Box 2107 Roswell, NM 88202-2107		OGRID Number 013954
		API Number 30 - 025-340AD
Property Code 20998	Property Name "SV" Butch Cassidy State	Well No. 1

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 10	6	140S	34E	10	4290	South	2211	East	Lea

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
Proposed Pool 1 Wildcat					Proposed Pool 2				

Work Type Code N	Well Type Code G	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 4158'
Multiple No	Proposed Depth 12,600'	Formation Atoka	Contractor Patterson Drlg	Spud Date 6/22/97

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"	72#	400'	365	Circl
11"	8-5/8"	32#	4,500'	1450	Circl
7-7/8"	5-1/2"	17 & 20#	12,600'	To be designed - 600' above upper most pay	

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 to a total depth of 12,600'. DST zones with possible commercial pay.
Run open hole log. Run production casing if justified.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

Approval for drilling ONLY -- CANNOT produce until acreage is clarified if well comes in as a gas well for this area.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Allison Hernandez

Printed name:

Allison Hernandez

Title:

Engineering Technician

Date:

6/18/97

Phone:

(505) 623-1996

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Title:

Approval Date:

JUN 30 1997

Expiration Date:

Conditions of Approval

Attached ☐

C-101 Instructions

Measurements and dimensions are to be in feet/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 OGRID number. If you do not have one it will be assigned and filled in by the District office. | 18 | Geologic formation at TD |
| 2 | Operator's name and address | 19 | Name of the intended drilling company if known. |
| 3 | API number of this well. If this is a new drill the OCD will assign the number and fill this in. | 20 | Anticipated spud date. |
| 4 | Property code. If this is a new property the OCD will assign the number and fill it in. | 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 |
| 5 | Property name that used to be called 'well name' | 22 | Brief description of the proposed drilling program and SOP program. Attach additional sheets if necessary. |
| 6 | The number of this well on the property. | 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. | | |
| 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 Multiple completion
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:
F Federal
S State
P Private
N Navajo
J Jicarilla
U Ute
I Other Indian tribe | | |
| 15 | Ground level elevation above sea level | | |
| 16 | Intend to multiple complete? Yes or No | | |
| 17 | Proposed total depth of this well | | |

1700
4
06

District I
PO Box 1960, Hobbs, NM 88241-1960
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

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3D-025-34D4D	² Pool Code	³ Pool Name Wildcat
⁴ Property Code 2D998	⁵ Property Name "SV" Butch Cassidy State	
⁶ OGRID No. 013954	⁷ Operator Name Manzano Oil Corporation	⁸ Well Number 1 ⁹ Elevation 4158

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
10	6	16s	34e		4290	South	2211	East	Lea

¹¹ 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

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
40			

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>13.12</p> <p>4 3 2 1</p> <p>36.75 45.98 45.81 45.64 4.</p> <p>5 6 7 8</p> <p>31.87 40 40 40</p> <p>12 11 10 9</p> <p>31.88 40 40 40</p> <p>13 14 15 16</p> <p>31.88 40 40 40</p> <p>17</p> <p>31.89</p> <p>18</p> <p>31.90</p> <p>N 89° 42' E.</p> <p>1</p> <p>75.95</p> <p>123.10</p> <p>122.178</p> <p>4290'</p> <p>N 0° 5' W.</p>	<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>Allison Hernandez</i></p> <p>Signature</p> <p>Allison Hernandez</p> <p>Printed Name</p> <p>Engineering Technician</p> <p>Title</p> <p>June 18, 1997</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>June 17, 1997</p> <p>Date of Survey</p> <p><i>P.R. Patton</i></p> <p>Signature and Seal of Professional Surveyor</p> <p>P.R. Patton</p> <p>Certificate Number</p>



RIG 2 9,000' - 16,000'

P.O. Box 1860 • Hobbs, New Mexico 88241 • 505/397-3511 • 800/922-3745

DRAWWORKS

Emsco GB-800 1000 H.P.
Drum: 1 1/4" Lebus grooved
Compound: 2-engine oil bath chain drive
Brake: Hydromatic Parkersburg 46" Double
Satellite Automatic Driller
Duo-O-Matic Crown Block Protector
Totco Weight Indicator

ENGINES

Two 610-H.P. D379TA Caterpillar Diesel.

DERRICK

Pyramid 136' 800,000 lb. rated capacity.

SUBSTRUCTURE

Pyramid 17' high 800,000 lb. rated capacity.

MUD PUMPS

Pump No. 1: Emsco DC700. 700-H.P. with steel fluid end.
4 3/4" - 7 3/4" liners, 16" stroke. Compound driven
Pump No. 2: Emsco DB700 - 700-H.P. powered by D379
Caterpillar Diesel.

DRILL STRING

6,500' 4 1/2" Grade E, 20-lb.
9,000' 4 1/2" Grade E, 16.60-lb.
Tool Joints: 4 1/2" XH, 6 1/4" OD.
Twenty-Seven drillcollars 6 1/2" OD, 2 1/4" ID.
Twenty-One 8" OD x 2 1/2" 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. Kooimey 7-station
accumulator closing unit with remote control.

MUD SYSTEM

Three 30' x 7 1/2' x 6' steel pits with 700-bbl capacity and
one 250-bbl slug pit. Complete low pressure circulating
system, consisting of four submerged mud guns and two
countersunk jets in each pit. System utilizes a 6 x 8
centrifugal pump, powered by diesel.

MUD HOSE

One 8' x 30' Steel Storage House.

COMMUNICATIONS

24-hour direct cellular telephone 505/370-4532

OTHER EQUIPMENT

BLOCKS. Oilwell 300 Ton

HOOK. BJ 4300 300 Ton

SWIVEL. Oilwell PC-800 300 Ton

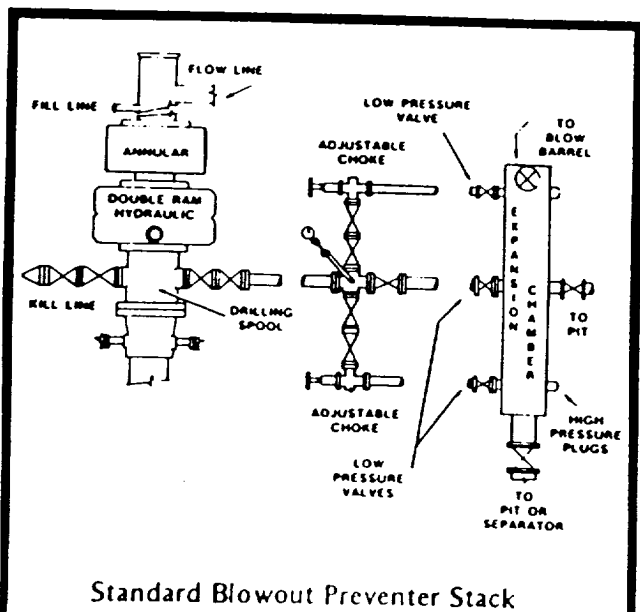
ROTARY TABLE. Gardner Denver 27 1/2"

SHALE SHAKER. Totco Double Screen.

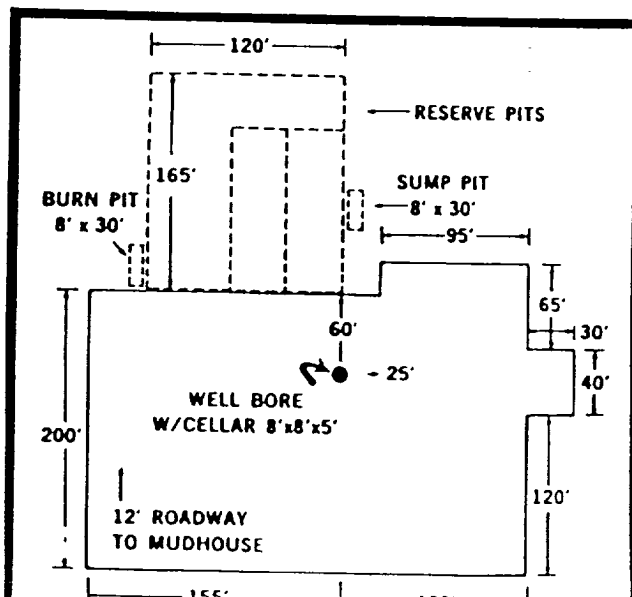
ELECTRICAL POWER. One 210-kw/one 90-kw AC
generators powered by diesel engines. AC fluorescent or
mercury vapor lights. All vapor-proof.

FRESH WATER STORAGE. Two 500-bbl horizontal tanks.

HOUSING. One 10' x 44' refrigerated air-conditioned
house with sleeping and cooking facilities.



Standard Blowout Preventer Stack



District I
PO Box 1988, Hobbs, NM 88241-1988
District II
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1808 Rio Grande Rd., Amos, NM 87410
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-025-34040		* Pool Code 78850	* Pool Name Hume Atoka
* Property Code 20998	* Property Name "SV" Butch Cassidy State		* Well Number 1
* OGRID No. 013954	* Operator Name Manzano Oil Corporation		* Elevation 4158

10 Surface Location

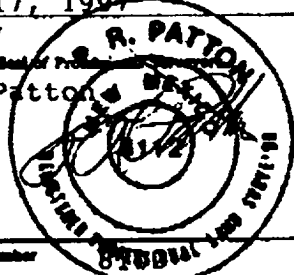
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
3/10	6	16s	34e		4290	South	2211	East	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

* Dedicated Acres 320	* Joint or Infill	* Consolidation Code	* Order No.
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<p>13.12 7503 9.05</p> <p>4 3 2 1</p> <p>36.75 45.98 45.81 45.64 4.</p> <p>5 6 7 8</p> <p>31.87 40 40 40</p> <p>12 11 10 9</p> <p>31.88 40 40 40</p> <p>13 14 15 16</p> <p>31.88 40 40 40</p> <p>17 933.60</p> <p>31.89</p> <p>18 4290'</p> <p>31.90</p> <p>N.89°42'E.</p> <p>1 7595</p> <p>122178</p> <p>NO.5'W</p>					<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>Allison Hernandez</i></p> <p>Signature Allison Hernandez Printed Name Engineering Technician Title June 30, 1997 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>June 17, 1997 Date of Survey</p> <p><i>P.R. Patton</i></p> <p>Signature and Seal of Professional Surveyor P.R. Patton</p> <p></p> <p>Certificate Number</p>						