

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Manzano Oil Corporation

3. Address and Telephone No.

P.O. Box 2107, Roswell, NM 88202-2107 (505) 623-1996

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2310' FSL & 330' FWL  
Sec 17, T18S, R32E

5. Lease Designation and Serial No.

NM-9017

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Conoco Federal #1

9. API Well No.

30-025-34958

10. Field and Pool, or Exploratory Area

Young Delaware

11. County or Parish, State

Lea County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Request approval of water disposal per attached.

SUBJECT TO  
LIKE APPROVAL  
BY STATE

RECEIVED  
MAY 17 A 11:43

14. I hereby certify that the foregoing is true and correct

Signed Elissa Hernandez

Title Engineering Technician

Date 5/16/00

(This space for Federal or State office use)

Approved by (ORIG. SGD.) GARY GOURLEY

Title PETROLEUM ENGINEER

Date JUN 09 2000

Title 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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Water Production & Disposal Information

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease Delaware
2. Amount of water produced from all formations in barrels per day 15 BOPD
3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.  
(One sample will suffice if the water is commingled)  
Attached.
4. How water is stored on the lease 500 bbl fiberglass tank
5. How water is moved to the disposal facility trucked
6. Identify the Disposal Facility by:
  - A. Facility operators name Manzano Oil Corporation
  - B. Name of facility or well name & number BSWU #34
  - C. Type of facility or well (WDW) (WIW) etc. SWD
  - D. Location by 1/4 1/4 NESW Section 30 Township 18S  
Range 31E
7. Attach a copy of the State issued permit for the Disposal Facility  
Attached

Submit to this office, 414 W. Taylor, Hobbs, NM 88240, the above required information on a Sundry Notice, form 3160-5. Submit 1 original and 5 copies, within 20 days from receipt of notice. (This form may be used as an attachment to the Sundry Notice). Call at (505)393-3612 if you have any questions.

**MILLER CHEMICALS, INC.**

Post Office Box 298  
Artesia, N.M. 88211-0298  
(505) 746-1919 Artesia Office  
(505) 393-2893 Hobbs Office  
(505) 746-1918 Fax

## WATER ANALYSIS REPORT

Company : MANZANO OIL & GAS  
Address :  
Lease : CONOCO FED.  
Well : #1  
Sample Pt. : WELLHEAD

Date : 5-3-00  
Date Sampled : 5-3-00  
Analysis No. :

ANALYSIS	mg/L	* meq/L
1. pH	5.7	
2. H <sub>2</sub> S	0	
3. Specific Gravity	1.140	
4. Total Dissolved Solids	197485.6	
5. Suspended Solids	NR	
6. Dissolved Oxygen	NR	
7. Dissolved CO <sub>2</sub>	NR	
8. Oil in Water	NR	
9. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )		
10. Methyl Orange Alkalinity (CaCO <sub>3</sub> )		
11. Bicarbonate	HCO <sub>3</sub> 122.0	HCO <sub>3</sub> 2.0
12. Chloride	Cl 122049.0	Cl 3442.8
13. Sulfate	SO <sub>4</sub> 125.0	SO <sub>4</sub> 2.6
14. Calcium	Ca 18880.0	Ca 942.1
15. Magnesium	Mg 1445.6	Mg 118.9
16. Sodium (calculated)	Na 54863.5	Na 2386.4
17. Iron	Fe 0.5	
18. Barium	Ba 0.0	
19. Strontium	Sr 0.0	
20. Total Hardness (CaCO <sub>3</sub> )	53100.0	

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
942 *Ca <----- *HCO <sub>3</sub>   2	Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.0	162
/----->	CaSO <sub>4</sub>	68.1	177
119 *Mg -----> *SO <sub>4</sub>   3	CaCl <sub>2</sub>	55.5	937.5
<-----/	Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.2	
2386 *Na -----> *Cl   3443	MgSO <sub>4</sub>	60.2	
+-----+	MgCl <sub>2</sub>	47.6	118.9
	NaHCO <sub>3</sub>	84.0	
Saturation Values Dist. Water 20 C	Na <sub>2</sub> SO <sub>4</sub>	71.0	
CaCO <sub>3</sub> 13 mg/L	NaCl	58.4	2386.4
CaSO <sub>4</sub> * 2H <sub>2</sub> O 2090 mg/L			139462
BaSO <sub>4</sub> 2.4 mg/L			

REMARKS:

SCALE TENDENCY REPORT  
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Company	: MANZANO OIL & GAS	Date	: 5-3-00
Address	:	Date Sampled	: 5-3-00
Lease	: CONOCO FED.	Analysis No.	:
Well	: #1	Analyst	: S.TIGERT
Sample Pt.	: WELLHEAD		

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO<sub>3</sub> Scaling Tendency

S.I.	=	-0.1	at	70 deg.	F or	21 deg.	C
S.I.	=	-0.1	at	90 deg.	F or	32 deg.	C
S.I.	=	-0.0	at	110 deg.	F or	43 deg.	C
S.I.	=	0.0	at	130 deg.	F or	54 deg.	C
S.I.	=	0.1	at	150 deg.	F or	66 deg.	C

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CALCIUM SULFATE SCALING TENDENCY CALCULATIONS  
(Skillman-McDonald-Stiff Method)  
Calcium Sulfate

S	=	861	at	70 deg.	F or	21 deg	C
S	=	928	at	90 deg.	F or	32 deg	C
S	=	974	at	110 deg.	F or	43 deg	C
S	=	992	at	130 deg.	F or	54 deg	C
S	=	993	at	150 deg.	F or	66 deg	C

Respectfully submitted,  
S.TIGERT



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

ADMINISTRATIVE ORDER SWD-701

*APPLICATION OF MANZANO OIL CORPORATION FOR SALT WATER DISPOSAL,  
EDDY COUNTY, NEW MEXICO.*

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Manzano Oil Corporation made application to the New Mexico Oil Conservation Division on November 24, 1997, for permission to complete for salt water disposal its Benson Shugart Waterflood Unit Well No.34 (formerly the Kenwood Well No.4) located 2310 feet from the South line and 2160 feet from the West line (Unit K) of Section 30, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met;
- (4) When designated as the Kenwood Well No.4, the well had been authorized for salt water disposal by Division Order R-4741, but had been converted back to production by a previous operator; and,
- (5) No objections have been received within the waiting period prescribed by said rule.

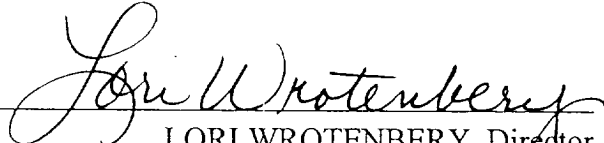
IT IS THEREFORE ORDERED THAT:

The applicant herein, Manzano Oil Corporation, is hereby authorized to complete its Benson Shugart Waterflood Unit Well No.34 located 2310 feet from the South line and 2160 feet from the West line (Unit K) of Section 30, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of salt water for disposal purposes into the Queen and Grayburg formations at approximately 3378 feet to 3614 feet through 2 3/8-inch plastic-lined tubing set in a packer located at approximately 3310 feet.

*Administrative Order SWD-701*  
*Manzano Oil Company*  
*April 15, 1998*  
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Approved at Santa Fe, New Mexico, on this 15th day April, 1998.

  
LORI WROTENBERY, Director

LW/BES/kv

cc: Oil Conservation Division - Artesia