

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION  
Lawer DD  
Artesia, NM 88210

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.  
LC-029393-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

ARCO 8 FED. # 2

9. API Well No.

30-015-27130

10. Field and Pool, or Exploratory Area  
SHUGART BONE SPRING, N.

11. County or Parish, State

EDDY CO., NM

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

Harvey E. Yates Company

3. Address and Telephone No.

P.O. Box 1993 , Roswell, NM 88202 1-505-623-6601

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

J, 1980' FSL & 1980' FEL  
SEC. 8, T-18S, R-31E

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change in Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☒ Dispose Water

(Note: Report results of multiple completions 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.)

1. FORMATION: BONE SPRING  
2. BWPD: 5  
3. WTR ANALYSIS: SEE ATTACHED  
4. LEASE STORAGE: IN FIBERGLASS TANK AT MAIN BATTERY LOC. ON ARCO 8 FED. 1 PAD UNIT LETTER K.  
5. WATER TRANSPORTED: BY TRUCK TO DISPOSAL  
6. OPERATOR: TENNESSEE WATER DISPOSAL OR LOCO HILLS WATER DISPOSAL COMPANY  
TENNESSEE FEDERAL WELL # 1 SEC. 16, T-17S, R-30E  
UNIT I, SEC. 21, T-19S, R-31E EDDY COUNTY, NM  
EDDY COUNTY, NM

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

Signed

RAY F. NOKES

Title

PROD. MGR./ ENG.

Date 12/16/94

(This space for Federal or State office use)

Approved by

(ORIG. SGD.) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

1/13/95

Conditions of approval, if any:

See attached



## Water Analysis Report

Analysis Number : 000003166

Company.....:	Heyco	Date of Sampling.....:	10/19/94
Location.....:	Roswell, New Mexico	Date of Analysis.....:	10/19/94
Field.....:	*8*	Baker Representative..:	Steven Stroud
Lease.....:	Arco Fed. Batt	Well#.....:	# 1,2,5
Sample Source....:	Wellhead	Analysis by.....:	Stroud

## DISSOLVED SOLIDS

CATIONS:	mg/l	me/l
Ca++	4400.00	220.00
Mg++	2854.80	234.00
Fe+++	10.00	0.54
Ba++	0.00	0.00
Na+	55448.17	2410.79
Mn++	0.00	0.00

ANIONS:	mg/l	me/l
Cl-	100000.00	2816.90
SO4--	2200.00	45.83
HCO3-	158.60	2.60
CO3--	0.00	0.00
OH-	0.00	0.00
S-	0.00	0.00

TOTAL HARDNESS.....: 454.00

TOTAL SOLIDS (quantitative).....: 165071.60

RESIDUAL HYDROCARBONS(ppm).....: 0.00

s = not determined

## DISSOLVED GASES

Hydrogen Sulfide, H2S.....:	0.0
Carbon Dioxide, CO2.....:	110.9
Oxygen, O2.....:	0.0

## PHYSICAL PROPERTIES

pH.....:	5.7
Specific Gravity.....:	1.110
TDS (calculated) ppm.....:	165071.6
TIS (calculated) .....:	3.1

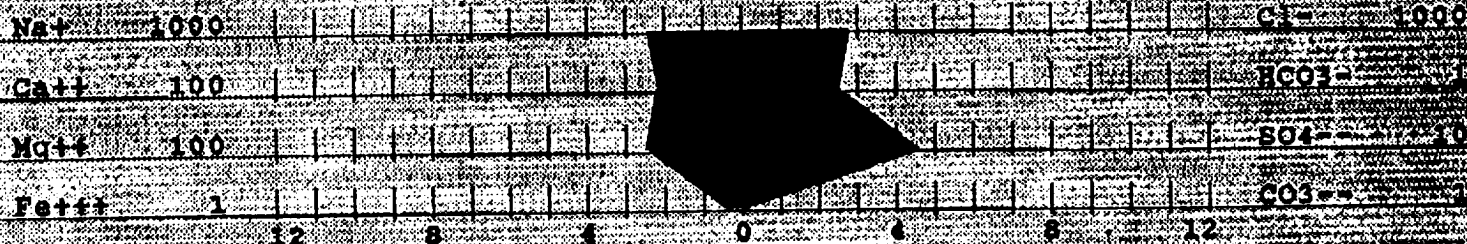
## SCALE STABILITIES

Temp.	°C	°F	CaCO3	CaSO4	BaSO4
	20	68	-0.83	4248	0
	30	86	-0.61	4522	0
	40	104	-0.36	5211	0
				3280	0

Max entity, (calculated):

## WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



NOTES:

**BUREAU OF LAND MANAGEMENT**  
**CARLSBAD RESOURCE AREA**

**Disposal of Produced Water From Federal Wells**

**Conditions of Approval**

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.