

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. OIL CONS. COMMISSION  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240  
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

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)

UT. 1, 1650' FSL & 330' FEL  
SEC. 4, T-18S, R-32E

5. Lease Designation and Serial No.

LC-0644638 LC064638

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8910180420

8. Well Name and No.

YOUNG DEEP UNIT # 12

9. API Well No.

30-025-30866

10. Field and Pool, or Exploratory Area

YOUNG BONE SPRING, NORTH

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

TYPE OF ACTION

- ☐ 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 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.)

- FORMATION: BONE SPRING
- BWPD: APPROX. 546
- WTR ANALYSIS: SEE ATTACHED.
- LEASE STORAGE: STOCK TANKS FOR BACKUP & TESTING
- WATER TRANSPORTED: BY FASTLINE TO "HEYCO'S" YDU PRESSURE MAINT. INJ. FACILITY IN SEC. 10, NW/NW
- 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

NOTE: WATER FASTLINED TO YOUNG DEEP UNIT (PRESSURE MAINT.)  
STORAGE FACILITY LOCATED SOUTH OF YOUNG DEEP UNIT #1 PAD, UT. D, SEC. 10, T-18S, R-32E.

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

Signed RAY F. NOKES Title PROD. MGR/ ENG. Date 9/22/94

(This space for Federal or State office use)

Approved by Petroleum Engineer Title Petroleum Engineer Date 10/20/94

Conditions of approval, if any:

- ATTACHED -

(rev. 3/10/94)

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, then 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.



# Water Analysis Report

Analysis Number : 000003107

Company.....: **Heyco**  
Location.....: **Roswell, New Mexico**  
Field.....:   
Lease.....: **Young Deep**  
Sample Source....: **Wellhead**

Date of Sampling.....: **09/15/94**  
Date of Analysis.....: **09/15/94**  
Baker Representative.: **Steven Stroud**  
Well#.....: **# 12**  
Analysis by.....: **Williams**

## DISSOLVED SOLIDS

### CATIONS:

|       | mg/l     | me/l    |
|-------|----------|---------|
| Ca++  | 8400.00  | 420.00  |
| Mg++  | 2928.00  | 240.00  |
| Fe+++ | 50.00    | 2.69    |
| Ba++  | 0.00     | 0.00    |
| Na+   | 32306.49 | 1404.63 |
| Mn++  | 0.00     | 0.00    |

### ANIONS:

|       |          |         |
|-------|----------|---------|
| Cl-   | 72000.00 | 2028.17 |
| SO4-- | 1620.00  | 33.75   |
| HCO3- | 329.40   | 5.40    |
| CO3-- | 0.00     | 0.00    |
| OH-   | 0.00     | 0.00    |
| S-    | 0.00     | 0.00    |

TOTAL HARDNESS.....: 660.00

TOTAL SOLIDS (quantitative).....: 117633.90

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

Ø = not determined

## DISSOLVED GASES

|                             |      |
|-----------------------------|------|
| Hydrogen Sulfide, H2S.....: | 0.0  |
| Carbon Dioxide, CO2.....:   | 59.4 |
| Oxygen, O2.....:            | 0.0  |

## PHYSICAL PROPERTIES

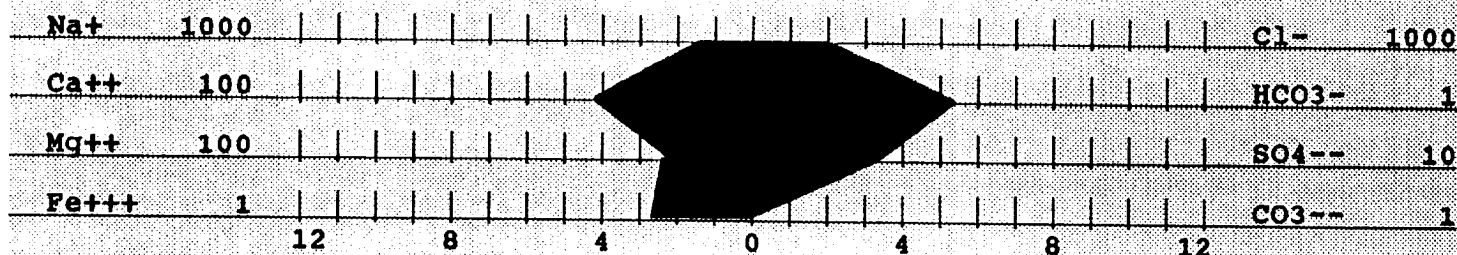
|                            |          |
|----------------------------|----------|
| pH.....:                   | 6.2      |
| Specific Gravity.....:     | 1.075    |
| TDS (calculated) ppm.....: | 117633.9 |
| TSS (calculated) .....:    | 2.4      |

## SCALE STABILITIES

| Temp.                     | °C | °F  | CaCO3 | CaSO4 | BaSO4 |
|---------------------------|----|-----|-------|-------|-------|
|                           | 20 | 68  | -0.03 | 2325  | 0     |
|                           | 30 | 86  | 0.16  | 2480  | 0     |
|                           | 40 | 104 | 0.38  | 2821  | 0     |
| Max entity, (calculated): |    |     |       | 2379  | 0     |

## WATER ANALYSIS PATTERN

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



### NOTES:

@20'C...CALCIUM SULFATE SCALING IS UNLIKELY.  
@20'C...SLIGHTLY CORROSIVE.



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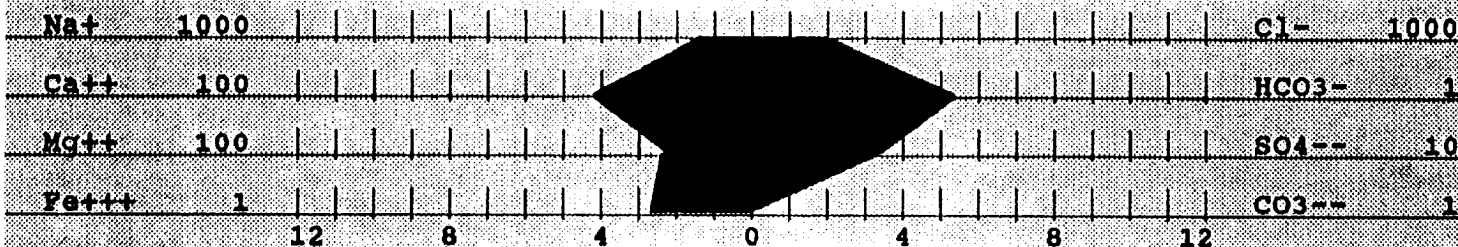
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