NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

Form 3160-5
(June 1990)

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

5. Lease Designation and Serial No.
NM-33437

6. If Indian, Allotte or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
Harvey E. Yates Company ✓

JAN 19 '95

8. Well Name and No.
PMS 8 FED. # 4

9. API Well No.
30-015-26218

3. Address and Telephone No.
P.O. Box 1993 , Roswell, NM 88202 1-505-623-6601

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

4. Location of Well (Footage, Sec., T., R., M, or Survey Description)
G, 1880' FNL & 1980' FEL
SEC. 8, T-18S, R-31E

11. County or Parish, State
EDDY CO., NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| [ ] Notice of Intent | [ ] Abandonment | [ ] Chang in Plans |
| [X] Subsequent Report | [ ] Recompletion | [ ] New Construction |
| [ ] Final Abandonment | [ ] Plugging Back | [ ] Non-Routine Fracturing |
| | [ ] Casing Repair | [ ] Water Shut-Off |
| | [ ] Altering Casing | [ ] Conversion to Injection |
| | [ ] Other _____ | [X] 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.)

1. FORMATION: BONE SPRING
2. BWPD: 1
3. WTR ANALYSIS: SEE ATTACHED
4. LEASE STORAGE: IN FIBERGLASS TANK
5. WATER TRANSPORTED: BY TRUCK TO DISPOSAL
6. OPERATOR:

TENNESSEE WATER DISPOSAL
TENNESSEE FEDERAL WELL # 1
UNIT I, SEC. 21, T-19S, R-31E
EDDY COUNTY, NM
R-8173

OR

LOCO HILLS WATER DISPOSAL COMPANY
SEC. 16, T-17S, R-30E
EDDY COUNTY, NM
R-6811 (B)

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

Signed RAY T. NOKES Title PROD. MGR./ ENG. Date 12/21/94

(This space for Federal or State office use)

Approved by Signed by Shannon J. Shaw Title PETROLEUM ENGINEER Date 1/18/95

Conditions of approval, if any:

This 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.

* See Intruction on the Reverse Side

BPCI

# Water Analysis Report

Analysis Number : 000003169

| | | | |
|---|---|---|---|
| Company.....: | Heyco | Date of Sampling.....: | 10/19/94 |
| Location.....: | Roswell, New Mexico | Date of Analysis.....: | 10/19/94 |
| Field.....: | | Baker Representative.: | Steven Stroud |
| Lease.....: | Pms Fed. | Well#.....: | 8-4 |
| Sample Source....: | Wellhead | Analysis by.....: | Stroud |

## DISSOLVED SOLIDS

| CATIONS: | mg/l | me/l |
|---|---|---|
| Ca++ | 4680.00 | 234.00 |
| Mg++ | 2952.40 | 242.00 |
| Fe+++ | 20.00 | 1.08 |
| Ba++ | 0.00 | 0.00 |
| Na+ | 47007.86 | 2043.82 |
| Mn++ | 0.00 | 0.00 |
| **ANIONS:** | | |
| Cl- | 88000.00 | 2478.87 |
| SO4-- | 1950.00 | 40.63 |
| HCO3- | 85.40 | 1.40 |
| CO3-- | 0.00 | 0.00 |
| OH- | 0.00 | 0.00 |
| S- | 0.00 | 0.00 |
| TOTAL HARDNESS.....: | | 476.00 |
| TOTAL SOLIDS (quantitative).....: | | 144695.70 |
| RESIDUAL HYDROCARBONS(ppm).....: | | 0.00 |

ø = not determined

## DISSOLVED GASES

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

## PHYSICAL PROPERTIES

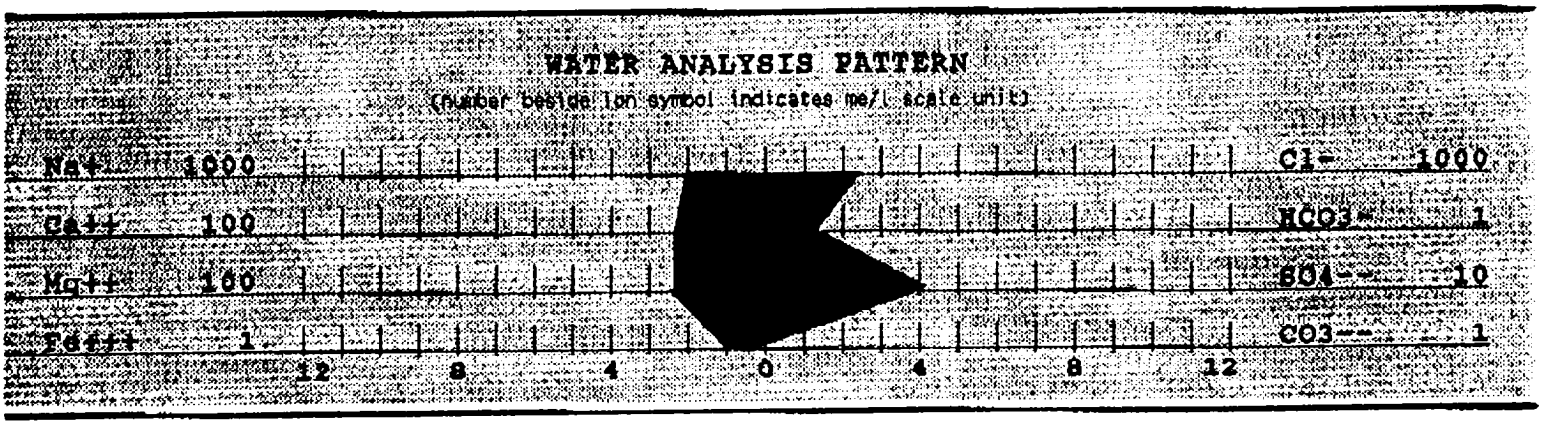
| | |
|---|---|
| pH.....: | 6.1 |
| Specific Gravity.....: | 1.080 |
| TDS (calculated) ppm.....: | 144695.7 |
| TIS (calculated) .....: | 2.8 |

## SCALE STABILITIES

| Temp. °C | °F | CaCO3 | CaSO4 | BaSO4 |
|---|---|---|---|---|
| 20 | 68 | -0.84 | 3939 | 0 |
| 30 | 86 | -0.65 | 4180 | 0 |
| 40 | 104 | -0.41 | 4762 | 0 |
| Max entity, (calculated): | | | 2888 | 0 |

## WATER ANALYSIS PATTERN

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




NOTES: