

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Drawer DD
Artesia, NM 88210

015F

RECEIVED

FORM APPROVED

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

5. Lease Designation and Serial No.
NM-0560353

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

HALE 11 FED. # 1

9. API Well No.

30-015-25778

10. Field and Pool, or Exploratory Area

BENSON BONE SPRING

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)

2310' FSL & 2160' FWL
UNIT LETTER K, SEC. 11, T-19S, R-30E

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

TYPE OF ACTION

☐ 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. 10 (5BW FROM # 1 & 5 BW FROM # 2)
- WTR ANALYSIS: SEE ATTACHED.
- LEASE STORAGE: STOCK TANKS FOR BACKUP & TESTING
- WATER TRANSPORTED: BY FASTLINE TO ONSITE PIT; FOR BACKUP PW TRUCKED TO DISPOSAL
- 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 RAY F. NOKES Title PROD. MGR./ ENG. Date 10/17/94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 12/7/94
Conditions of approval, if any: See attached.



Water Analysis Report

Analysis Number : 000003164

Company.....: Heyco
Location.....: Roswell, New Mexico
Field.....:
Lease.....: Hale Fed.
Sample Source....: Battery

Date of Sampling.....: 10/14/94
Date of Analysis.....: 10/14/94
Baker Representative.: Steven Stroud
Well#.....: #11
Analysis by.....: Williams

DISSOLVED SOLIDS

CATIONS:

	mg/l	me/l
Ca++	16800.00	840.00
Mg++	732.00	60.00
Fe+++	500.00	26.88
Ba++	0.00	0.00
Na+	50248.33	2184.71
Mn++	0.00	0.00

ANIONS:

Cl-	110000.00	3098.59
SO4--	480.00	10.00
HCO3-	183.00	3.00
CO3--	0.00	0.00
OH-	0.00	0.00
S-	0.00	0.00

TOTAL HARDNESS.....: 900.00

TOTAL SOLIDS (quantitative).....: 178943.30

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

= not determined

DISSOLVED GASES

Hydrogen Sulfide, H2S.....:	0.0
Carbon Dioxide, CO2.....:	514.8
Oxygen, O2.....:	0.0

PHYSICAL PROPERTIES

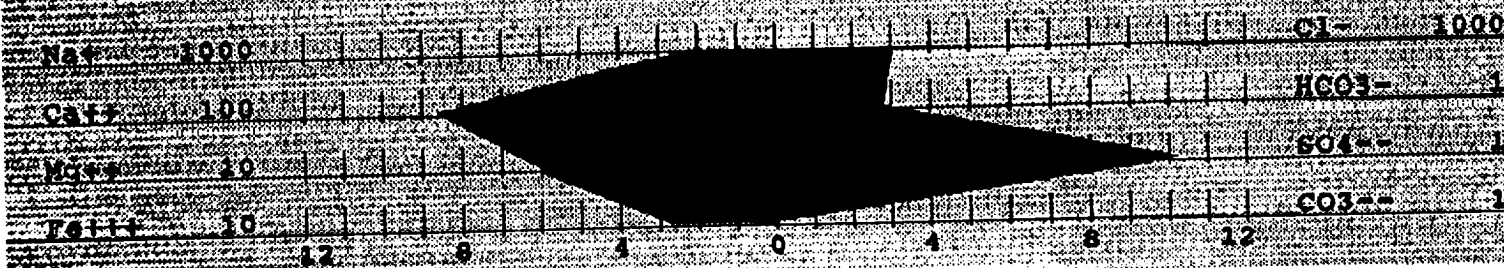
pH.....:	5.2
Specific Gravity.....:	1.135
TDS (calculated) ppm.....:	178943.3
TIS (calculated):	3.6

SCALE STABILITIES

Temp.	°C	°F	CaCO3	CaSO4	BaSO4
	20	68	-0.66	1129	2
	30	86	-0.45	1229	2
	40	104	-0.18	1510	2
Max entity, (calculated):				719	0

WATER ANALYSIS PATTERN

(number beside ion symbol indicates mg/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.