

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM 30400
2. Name of Operator Enron Oil & Gas Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. Box 2267, Midland, Texas 79702	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 330' FSL & 1980' FEL Sec 12, T25S, R33E	8. Well Name and No. Hallwood 12 Federal #2
	9. API Well No. 30 025 32167
	10. Field and Pool, or Exploratory Area Red Hills Bone Spring
	11. County or Parish, State Lea

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>New Disposal Method</u> for produced water	<input type="checkbox"/> 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.)\*

SEE ATTACHED

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

Signed <u>Betty Gildon</u>	Title <u>Regulatory Analyst</u>	Date <u>2/22/94</u>
(This space for Federal or State office use)		
Approved by <u>Orig. Signed by Adam Salameh</u>	Title <u>Petroleum Engineer</u>	Date <u>3/9/94</u>
Conditions of approval, if any:		

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 ~~48 CFR~~ 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.

The following information is to show changes in Enron Oil & Gas Company's method of disposal of produced water. Onshore Oil & Gas Order #7.

**Hallwood 12 Federal #2**

1. Name of formation(s) producing water on the lease:

**Bone Spring**

2. Amount of water produced from all formations in bbls/day:

**The well averages 46 barrels of water/day.**

3. How water is stored on lease:

**210 barrel fiber glass tank**

4. How water is moved to the disposal facility:

**B&E Water Haulers**

5. Primary disposal facility:

**Bettis, Boyle & Stovall's Littlefield Federal No. 1 SWD R-485, located 660' FNL & 1980' FEL (Unit B) of Section 11, T24S, R31E. Eddy County.**

6. Secondary disposal facility:

**Ralph Williamson's Conoco Federal No. 2 SWD R-3638, located in Unit B of Section 15, T26S, R33E. Lea County.**

A copy of permits for both disposal facilities is enclosed.

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# Laboratory Services, Inc.

1331 Tasker Drive  
 Hobbs, New Mexico 88240

Telephone: (505) 397-3713

## WATER ANALYSIS

COMPANY Enron Oil & Gas

SAMPLE Hallwood 12 Fed. #2

SAMPLED BY Ray Gallagher-Pro Well Testing & Wireline

DATE TAKEN 12-24-93

REMARKS

Barium as Ba	25.00	
Carbonate alkalinity PPM	0.00	
Bicarbonate alkalinity PPM	612.00	
pH at Lab	6.94	
Specific Gravity @ 60° F	1.050	
Magnesium as Mg	3,770	
Total Hardness as CaCO <sub>3</sub>	6,500	
Chlorides as Cl	38,477	
Sulfate as SO <sub>4</sub>	650.00	
Iron as Fe	91.25	
Potassium	134.38	
Hydrogen Sulfide	0.00	
Resistivity Ohms	0.1720	23.7° C
Total Dissolved Solids	60,060	
Carbonate as CO <sub>3</sub> Gm/L	0.00	
Calcium as Ca	2,730	
Nitrate	55.00	

Results reported as Parts per Million unless stated

Langelier Saturation Index +1.06

Analysis by Rolland Perry  
 Date: 12-27-93