

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT ... TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

458

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.

NM-0544986-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Leah Fed 31

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Undesignated Delaware

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 31, T-23-S, R31E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

4001 Penbrook Street, Odessa, TX 79762

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

Tank Battery located at Christopher Fed 31 #2 Wellsite  
1980' FNL & 330' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, HT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) NTL2B

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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.)

Please be advised that the produced water from the Leah 31 Federal lease will be disposed of as follows:

The name of the produced water is Brushy-Canyon (Delaware). The amount of produced water from these leases is expected to be 40 BWPD.

A water analysis of the produced water is attached.

Water is stored in two 500 barrel fiberglass water tanks.  
Water will be moved to the disposal facility by trucks.

The Operator of the facility is Phillips Petroleum Company. The facility is the James A St. No. 12W located in the SE 1/4 SE 1/4 of Sec. 2, T-22-S, R-30-E, Eddy Co., NM. The James A 12W water injection well is part of Phillips Petroleum Company's James A State Pressure Maintenance Project. The purpose of the project is to maintain reservoir pressure in the Delaware formation in the pilot area (SE 1/4 SE 1/4 of Sec. 2) in the Cabin Lake (Delaware) Field. Phillips received authorization for the project via NMOC Order R-9500.

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

SIGNED

*L. M. Sanders*  
L. M. Sanders

TITLE

Supv., Regulatory Affairs

DATE 11-02-93

(915) 368-1488

(This space for Federal or State office use)

(ORIG. SGD) DAVID R. CLARK

REGULATORY ENGINEER

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE DEC 02 1993

SEE ATTACHED

\*See Instructions on Reverse Side



GP.O.BOX 2187  
HOBBS, N.M. 88240

PHONE: (505) 393-7726

# WATER ANALYSIS REPORT

Report for: Lendell Hawkins  
cc: Scott Malone  
cc: Jeff Hargrove  
cc:  
Company: Phillips  
Address:  
Service Engineer: Kenny Kearney

Date sampled: 10-15-93  
Date reported: 10-22-93  
Lease or well # : Christopher 32 #1  
County: State:  
Formation:  
Depth:  
Submitted by: R. Middleton

## CHEMICAL COMPOSITION :

	mg/L	meq/L
Chloride (Cl)	150000	4231
Iron (Fe) (total)	6.0	
Total hardness	62637	
Calcium (Ca)	21855	1091
Magnesium (Mg)	1944	156
Bicarbonates (HCO3)	61	1
Carbonates (CO3)	0	
Sulfates (SO4)	125	3
Hydrogen sulfide (H2S)	2	
Carbon dioxide (CO2)	343	
Sodium (Na)	68730	2988
Total dissolved solids	242715	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	

Specific Gravity 1.173  
Density (#/gal.) 9.775  
pH 5.600  
IONIC STRENGTH 4.86

Stiff-Davis (CaCO3) Stability Index :

SI = pH - pCa - pAlk - K

SI @ 86 F = +0.15  
104 F = +0.38  
122 F = +0.64  
140 F = +0.93  
158 F = +1.25

This water is 770 mg/l (-81.31%) under ITS CALCULATED  
CaSO4 saturation value at 82 F.  
SATURATION= 947 mg/L PRESENT= 177 mg/L

Post-it brand fax transmittal memo 7671	
To: Jeff Hargrove	From: Kenny Kearney
cc: Phillips	cc: Champion
Dept:	Phone #
Fax # 368-1507	Fax #

REPORTED BY ROBERT C MIDDLETON *Rcm*  
TECHNICAL SERVICES REPRESENTATIVE

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 NTL-2B.
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.