

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

Case Designation and Serial No.  
NM 63763

6. If Indian, Allottee or Tribe Name  
N/A

SUBMIT IN TRIPLICATE

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Mitchell Energy Corporation

3. Address and Telephone No.  
P.O. Box 4000, The Woodlands, Texas 77387-4000 (713) 377-5818

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FNL and 1980' FWL  
Sec. 23, T 19S, R. 33E

7. If Unit or CA, Agreement Designation  
Sapphire Federal Unit  
NM NM 72631 B

8. Well Name and No.  
Sapphire Federal No. 2

9. API Well No.  
30-025-31198

10. Field and Pool, or Exploratory Area  
East Gem-Delaware Pool

11. County or Parish, State  
Lea County, New Mexico

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other  
☐ Change of 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.)

Requesting approval of the method of disposal of produced salt water. Checklist attached.

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MAY 19 10 18 AM '93  
CARP  
ARLAIN

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

Signed [Signature] Title Mgr., Prod-Regulatory Affairs Date 05-14-93

(This space for Federal or State office use)

Approved by [Signature] Title [Signature] Date May 15 1993

Conditions of approval, if any:

see attached

Title 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 Instruction on Reverse Side

## **CHECKLIST FOR NTL-2B APPROVAL**

**MITCHELL ENERGY CORPORATION  
SAPPHIRE FEDERAL WELL NO. 2  
660' FNL AND 1980' FWL  
SEC. 23, T19S, R33E  
LEA COUNTY, NEW MEXICO**

1. Name of formation producing water on lease: Delaware.
2. Amount of water produced by this well: 76 BPD.
3. Storage Method of produced water: Fiberglass Tank.
4. Disposal Method: Injection into the Queen formation in the Mitchell Energy Corporation Sapphire Federal SWD Well No. 2, 660' FNL and 1980' FWL.
5. Method of transportation of water to disposal facility: Pipeline.
6. Water Analysis: Attached.
7. NMOCD Permit No.: SWD-455 (copy attached).

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JUN 18 1993

MR HOBBS  
OFFICE

## MARTIN WATER LABORATORIES, INC.

P.O. Box 1468 Phone 943-3234 or 563-1040  
Monahans, Texas 79756

## RESULT OF WATER ANALYSES

709 W. Indiana Phone 683-4521  
Midland, Texas 79701  
79185 (Page 3)TO: Mr. Ed Earles  
400 W. Illinois, Suite 1000, Midland, TXLABORATORY NO. \_\_\_\_\_  
SAMPLE RECEIVED 7-11-91  
RESULTS REPORTED 7-16-91

## API WATER ANALYSIS REPORT FORM

Company Mitchell Energy Corporation		Sample No.		Date Sampled	
Field Sapphire	Legal Description		County or Parish Lea		State NM
Lease or Unit Sapphire	Well #2	Depth	Formation Delaware		Water, B/D
Type of Water (Produced, Supply, etc.) Produced		Sampling Point		Sampled By	

## DISSOLVED SOLIDS

## CATIONS

	mg/l	me/l
Sodium, Na (calc.)	71,477	3,107.7
Calcium, Ca	32,600	1,630.0
Magnesium, Mg	4,374	360.0
Barium, Ba		

## OTHER PROPERTIES

pH	5.62
Specific Gravity, 60/60 F.	1.1874
Resistivity (ohm-meters) 77° F.	0.047
Total Hardness, as CaCO <sub>3</sub>	99,500

## ANIONS

Chloride, Cl	180,388	5,086.9
Sulfate, SO <sub>4</sub>	358	7.4
Carbonate, CO <sub>3</sub>	0	0.0
Bicarbonate, HCO <sub>3</sub>	200	3.3

Total Dissolved Solids (calc.)

289,397

Iron, Fe (total)

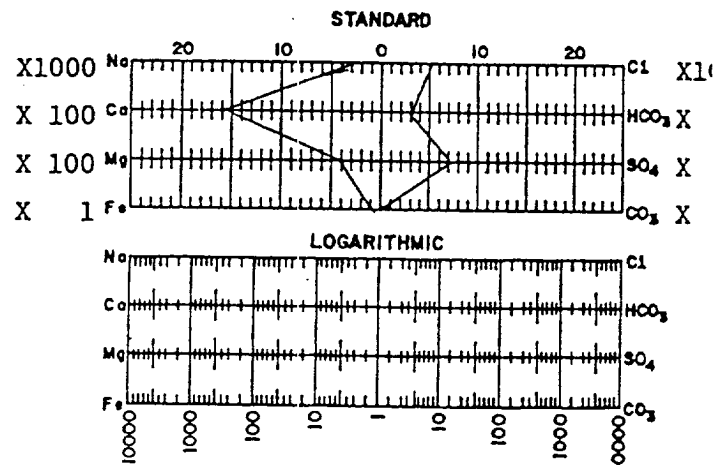
26.8

1.1


Sulfide, as H<sub>2</sub>S

0.0

## WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS: The objective herein is to evaluate the compatibility of the water from Quail #1 with the waters from Sapphire #1 and #2. In studying these results, we have identified no evidence of any incompatibility between these waters and therefore see no reason why they cannot be effectively mixed with no resulting detrimental effects to be expected.

  
Waylan C. Martin, M.A.

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WGD HOBBS  
OFFICE

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. That 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 should 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.

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