

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

agm
N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO

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

88240
5. Lease Designation and Serial No.
NM 63763

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

7. If Unit or CA, Agreement Designation
Sapphire Federal Unit

8. Well Name and No.
Sapphire Federal No. 1

9. API Well No.
30-025-30510 ✓

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

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

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
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)
1650' FEL and 1650' FSL (NW/SE)
Sec. 23, T 19S, R 33E

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.

RECEIVED
MAY 19 10 19 AM '93
CARA
AREA

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)

PETROLEUM ENGINEER

Approved by JOE G. LARA
Conditions of approval, if any:

Title _____

Date JUN 13 1993

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.

CHECKLIST FOR NTL-2B APPROVAL

**MITCHELL ENERGY CORPORATION
SAPPHIRE FEDERAL WELL NO. 1
1650' FEL AND 1650' FSL (NW/SE)
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: 270 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. 1, 1650' FEL and 1650' FSL (NW/SE).
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

JOHN 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

TO: Mr. Ed Earles
400 W. Illinois, Suite 1000, Midland, TX

LABORATORY NO. 79185
SAMPLE RECEIVED 7-11-91
RESULTS REPORTED 7-16-91

API WATER ANALYSIS REPORT FORM

Company Mitchell Energy Corporation		Sample No.		Date Sampled	
Field Quail	Legal Description		County or Parish Lea		State NM
Lease or Unit Quail 57	Well #1	Depth	Formation Queen	Water, B/D	
Type of Water (Produced, Supply, etc.) Produced		Sampling Point		Sampled By	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	79,345	3,449.8
Calcium, Ca	21,600	1,080.0
Magnesium, Mg	4,982	410.0
Barium, Ba		

ANIONS

Chloride, Cl	174,707	4,926.7
Sulfate, SO ₄	477	9.9
Carbonate, CO ₃	0	0.0
Bicarbonate, HCO ₃	188	3.1

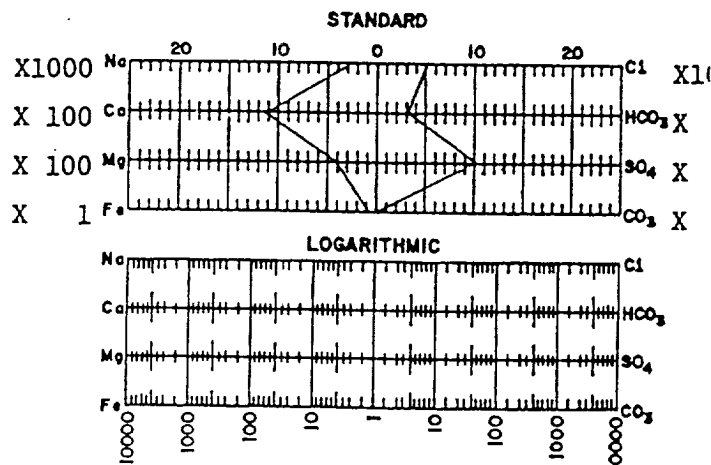
Total Dissolved Solids (calc.)
281,298

Iron, Fe (total) 27.2 1.1
Sulfide, as H₂S 0.0

OTHER PROPERTIES

pH 5.19
Specific Gravity, 60/60 F. 1.1808
Resistivity (ohm-meters) 77° F. 0.047
Total Hardness, as CaCO₃ 74,500

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS:

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WV 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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JOE HOBBS

OFFICE