

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
☐ Oil Well ☐ Gas Well ☒ Other Facility

2. Name of Operator

Mitchell Energy Corporation

3. Address and Telephone No.

P. O. Box 4000, The Woodlands, TX 77387-4000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit D, Sec 31, T19S, R33E

5. Lease Designation and Serial No.

NM 67111

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Geronimo Fed #1 Battery

9. API Well No.

10. Field and Pool, or Exploratory Area

Geronimo (Delaware)

11. County or Parish, State

Lea, NM

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.)*

Produced Water Disposal

- (a) Producing water from Delaware formation.
(b) Producing 500 BWPD.
(c) Water analysis attached.
(d) Water is stored in 400 bbl closed top fiberglass tank @ battery.
(e) Water is hauled by tank truck to disposal facility.
(f) Disposal well is the Cooper Disposal Well G-8 located @ SW/4, NE/4, Sec 8, T20S, R37E, operated by Rice Engineering. The NMOCD permit # is R-6855.

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

Signed

James Blount

Title

Engineer

Date

11/08/93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID B. GLASS

Title

Petroleum Engineer

Date

DEC 07 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

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. Jim Blount
400 W. Illinois, Suite 1000, Midland, TX

LABORATORY NO. 692159
SAMPLE RECEIVED 6-16-92
RESULTS REPORTED 6-26-92

API WATER ANALYSIS REPORT FORM

Company Mitchell Energy Corporation		Sample No.		Date Sampled	
Field <u>GERONIMO</u> North Pearl		Legal Description		County or Parish Lea	
State NM		Lease or Unit Geronimo Federal		Well #1	
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.)	67,903	2,952.3
Calcium, Ca	32,800	1,640.0
Magnesium, Mg	4,131	340.0
Barium, Ba		

ANIONS

Chloride, Cl	174,707	4,926.7
Sulfate, SO ₄	246	5.1
Carbonate, CO ₃	0	0.0
Bicarbonate, HCO ₃	27	0.4

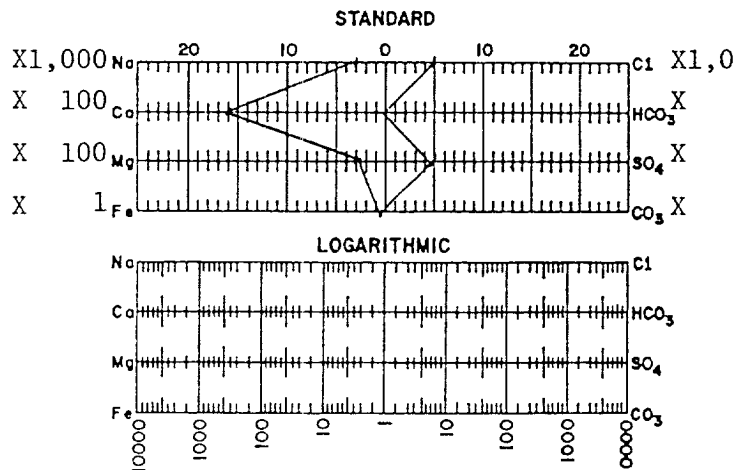
Total Dissolved Solids (calc.)
279,814

Iron, Fe (total) 12.8 0.5
Sulfide, as H₂S 0.0

OTHER PROPERTIES

pH 4.71
Specific Gravity, 60/60 F. 1.1893
Resistivity (ohm-meters) 77°F. 0.048
Total Hardness, as CaCO₃ 99,000

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS: In comparing the above with the water from this well reported on laboratory #491204 (4-24-91), we see some mild changes; but they are not considered significant. It is concluded that the water still correlates with natural Delaware.

Waylan C. Martin
Waylan C. Martin, M.A.

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.