

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
☐ 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 **SSS**
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

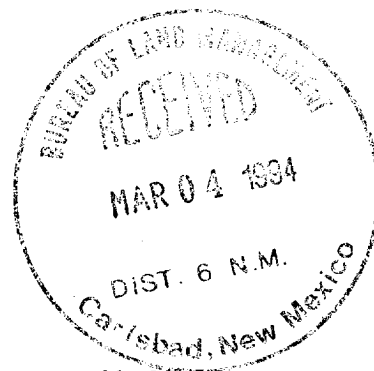
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☒ Dispose Water

(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 transported by pipeline to disposal facility.
(f) Disposal is in the Mewbourne Querecho Plains Bone Spring Waterflood, operated by Mewbourne. The NMOCD permit is attached w/injection well locations.



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

Signed James Blount

Title Engineer

Date 2/7/94

(This space for Federal or State office use)

Approved by Orig. Signed by Shannon J. Shaw

Title PETROLEUM ENGINEER

Date 3/18/94

Conditions of approval, if any:

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		

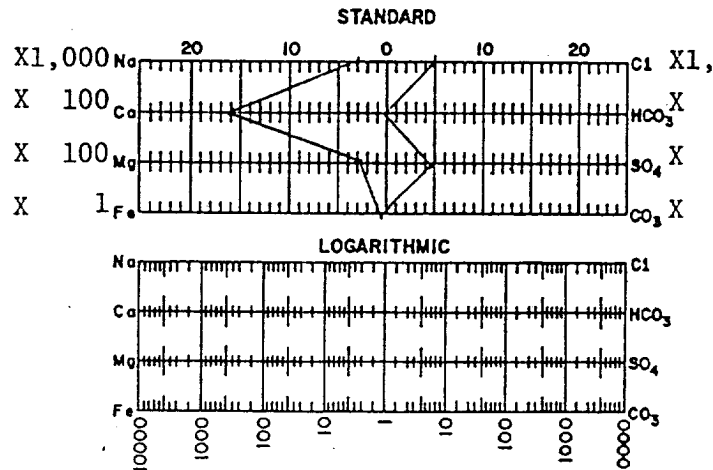
OTHER PROPERTIES

pH	4.71
Specific Gravity, 60/60 F.	1.1893
Resistivity (ohm-meters) 77°F.	0.048
Total Hardness, as CaCO ₃	99,000

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

WATER PATTERNS — me/l



Total Dissolved Solids (calc.)

279,814

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

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, M.A.