

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. JIL CONS. COMMISSION  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240

FOR 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 <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Produced Water Disposal	5. Lease Designation and Serial No. NM 67111
2. Name of Operator Mitchell Energy Corporation	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. P. O. Box 4000, The Woodlands, TX 77387-4000	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit D, Sec 31, T19S, R33E	8. Well Name and No. Geronimo Fed #3 Battery
	9. API Well No.
	10. Field and Pool, or Exploratory Area S. Tonto (Yates)
	11. County or Parish, State Lea, NM

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

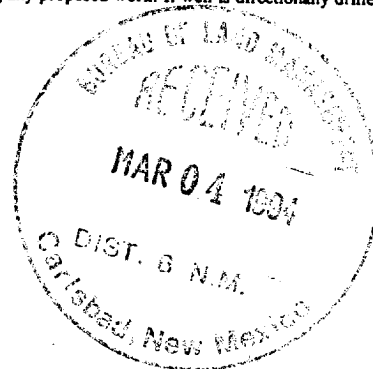
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <b>SSS</b>	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> 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 Yates formation.
- (b) Producing 20 BWPD.
- (c) Water analysis attached.
- (d) Water is stored in 210 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. Ed Earles  
400 W. Illinois, Suite 1000, Midland, TX

LABORATORY NO. 491202  
SAMPLE RECEIVED 4-19-91  
RESULTS REPORTED 4-24-91

### API WATER ANALYSIS REPORT FORM

Company Mitchell Energy			Sample No.		Date Sampled	
Field Tonto, South		Legal Description		County or Parish Lea		State NM
Lease or Unit Geronimo		Well #3	Depth		Formation Yates	Water, B/D
Type of Water (Produced, Supply, etc.) Produced			Sampling Point			Sampled By

#### DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	8,180	355.6
Calcium, Ca	1,500	75.0
Magnesium, Mg	583	48.0
Barium, Ba		

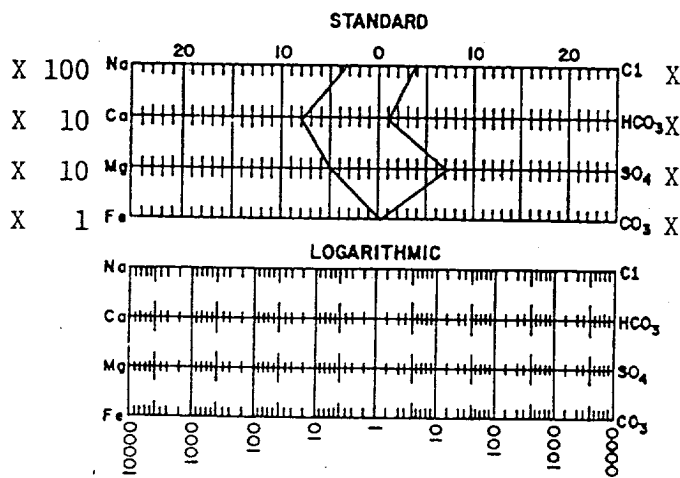
#### OTHER PROPERTIES

pH	7.44
Specific Gravity, 60/60 F.	1.0227
Resistivity (ohm-meters) 77° F.	0.28
Total Hardness, as CaCO <sub>3</sub>	6,150

#### ANIONS

Chloride, Cl	14,204	400.5
Sulfate, SO <sub>4</sub>	3,307	68.8
Carbonate, CO <sub>3</sub>	0	0.0
Bicarbonate, HCO <sub>3</sub>	567	9.3

#### WATER PATTERNS — me/l



Total Dissolved Solids (calc.)

28,341

Iron, Fe (total) 0.56 0.0  
Sulfide, as H<sub>2</sub>S 1.6

REMARKS & RECOMMENDATIONS: We have no records of Yates water in this field to compare with the above. We further note in our records in the general surrounding area that the characteristics of Yates water vary significantly, and this water does not resemble the nearest records. However, the distance of the records available are not considered sufficiently reliable to suggest this may be from a zone other than the Yates.



Waylan C. Martin, M.A.