

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division  
P.O. Box 1980  
Hobbs, NM 88241

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. LC 032099A
2. Name of Operator CONOCO INC.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T. R. M. or Survey Description) 1827' FSL & 1818' FWL, Sec. 18, T 21S, R 36E, Unit Ltr 'K'	8. Well Name and No. Lockhart A-18, Well #8
	9. API Well No. 30-025-32429
	10. Field and Pool, or Exploratory Area Eumont Yates 7 Rvrs Qn
	11. County or Parish, State Lea, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Repon	<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 checked="" type="checkbox"/> Other OO & GO #7 IILA
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracuring
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Repon 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.)\*

Water Producing Formation: Eumont Queen Gas  
Amount of Water Produced: 7 bpd  
Current Water Analysis Attached: Yes  
How is Water Stored on Lease: 400 bbl Tank  
How is Water Moved: By Transport Truck  
Disposal Facility Operator Name: Gold Star SWD Ltd. Co  
Disposal Facility Well Name / No.: Christmas #3, Unit B, Sec. 28, T 22S, R 37E  
NMOCD SWD Permit #: SWD 606

Your approval of this method of disposal is respectfully requested.

RECEIVED  
MAR 21 12 24 PM '97  
BUREAU OF LAND MANAGEMENT  
HOBBS, NM

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

Signed Bill R. Keathly Title Sr. Regulatory Specialist Date 3-17-97

(This space for Federal or State office use)

Approved by (ORIG. SGD.) ALEXIS C. SWOBODA Title PETROLEUM ENGINEER Date MAR 27 1997

Conditions of approval if any:

BLM(6), BRK, PONCA, DJS, FILE ROOM

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

## TREXOLITE DIVISION

 (505) 392-6711  
 Fax (505) 392-3759

## WATER ANALYSIS REPORT

Company : Conoco Inc. Date : 3-6-97  
 Address : Eunice NM Date Sampled : 3-6-97  
 Lease : Lockhart A-18 Analysis No. : 119  
 Well : 8  
 Sample Pt. : Seperator B.L.M. Request

ANALYSIS	mg/L	* meq/L
1. pH	5.5	
2. H <sub>2</sub> S	< 1 ppm	
3. Specific Gravity	1.005	
4. Total Dissolved Solids	26339.0	
5. Suspended Solids	NR	
6. Dissolved Oxygen	NR	
7. Dissolved CO <sub>2</sub>	NR	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )		
10. Methyl Orange Alkalinity (CaCO <sub>3</sub> )	100.0	
11. Bicarbonate	HCO <sub>3</sub> 122.0	HCO <sub>3</sub> 2.0
12. Chloride	Cl 15654.5	Cl 441.6
13. Sulfate	SO <sub>4</sub> 300.0	SO <sub>4</sub> 6.2
14. Calcium	Ca 1042.1	Ca 52.0
15. Magnesium	Mg 262.5	Mg 21.6
16. Sodium (calculated)	Na 8649.8	Na 376.2
17. Iron	Fe 308.0	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO <sub>3</sub> )	3683.3	

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
52 *Ca <----- *HCO <sub>3</sub>	Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.0	162
22 *Mg <----- *SO <sub>4</sub>	CaSO <sub>4</sub>	68.1	425
376 *Na <----- *Cl	CaCl <sub>2</sub>	55.5	2428
	Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.2	
	MgSO <sub>4</sub>	60.2	
	MgCl <sub>2</sub>	47.6	1028
	NaHCO <sub>3</sub>	84.0	
	Na <sub>2</sub> SO <sub>4</sub>	71.0	
	NaCl	58.4	21988

Saturation Values Dist. Water 20 C  
 CaCO<sub>3</sub> 13 mg/L  
 CaSO<sub>4</sub> \* 2H<sub>2</sub>O 2090 mg/L  
 BaSO<sub>4</sub> 2.4 mg/L

REMARKS: Vernon Mackey / Harlan Robertson  
 ----- Greg Archer / file

Petrolite Oilfield Chemicals Group

 Respectfully submitted,  
 Greg Archer

