# NM OIL CONS COMMISSION Drawer DD Artesia, NM 88210

| Form 3160-5<br>June 1990)                                      | UNITED ST<br>DEPARTMENT OF T   | THE INTERIOR   | FORM APPROVED  Budget bureau No. 1004-0135  Expires: March 31, 1993  |
|--|--|--|--|
|  | BUREAU OF LAND N   | MANAGEMENT   | 5. Lease Designation and Serial No.  |
| Do not use this  | SUNDRY NOTICES AND R<br>form for proposals to drill or to<br>Use "APPLICATION FOR PERM | deepen or reentry to a different?                      | LC-029393-A 6. If Indian, Allottee or Tribe Name   |
|  | SUBMIT IN TRI  | IPLICATE   | 7. If Unit or CA, Agreement Designation  |
| 1. Type of Well Gas Gas  | []   |  |  |
| Oil Gas Well  2. Name of Operator                              | Other  |  | 8. Well Name and No.  ARCO 8-1   |
| ·  | ates Company   | 9. API Well No.  |  |
| 3. Address and Telephone                                       |  |  | 30-015-27055   |
| P.O. Box 193   | 33, Roswell, NM 88201  | (505)623-6601  | 10. Field and Pool, or Exploratory Area  |
|  | age, Sec., T., R., M., or Survey Description)  O'FSL & 1980'FWL  S, R31E               |  | North Shugart/Bone Spring 11. County or Parish, State  Eddy County, NM   |
| 12. CHECK  | APPROPRIATE BOX(s) TO IN   | NDICATE NATURE OF NOTICE                               | , REPORT, OR OTHER DATA  |
| TYPE OF  | SUBMISSION   | TYPE OF  | ACTION   |
| X Notice   | of Intent  | Abandonment  | Change of Plans  |
| LAL HOUSE  | of fitten  | Recompletion   | New Construction   |
| Subseq   | juent Report   | Plugging Back  | Non-Routine Fracturing   |
|  |  | Casing Repair  | Water Shut-Off   |
| Final A  | Abandonment Notice   | Altering Casing  | Conversion to Injection  |
|  |  | Other  | Note: Report results of multiple completion on Well  |
| 11. Datasiba Branavad or C                                     | Consoleted Operations (Clearly state all pertinent d                                   | letails, and give pertinent dates, including estimated | Completion or Recompletion Report and tog form.) date of starting any proposed work. If well is directionally drilled, |
| 1. Formation 2. BWPD: 1 3. Wtr Ana 4. Lease s 5. Water t       | on: Bone Spring to 5   | disposal.  osal or Loco  11 #1 Sec.  R31E Eddy         | Hills Water Disposal Company<br>16, T17S, R30E<br>County, NM   |
| 14. I hereby certify that th                                   | ne foregoing is true and correct   | SPECIAL STIPULATIONS ATTACHED                          | 1/04/04  |
| Signed #   | / Hun  | Title Night  | Date   |
| (This space for Federa<br>Approved by<br>Conditions of approva | uss li. Como   | Title Super. PET                                       | Date 2/14/54   |

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 faise, fictinious or fraudulent statements or representations as to any matter within its jurisdiction.



WATER ANALYSIS for **HEYCO** 

Date of Analysis: JANUARY 12, 1994

Company:

HEYCO

state:

NEW MEXICO

Lease:

ARCO 8 FED. # 1

Lil 10-1

Oil (bbl/day):

N/D

Type of Water: Sample Source: PRODUCED

Representative:

HEATER TREATER STEVE STROUD

Analysis #:

Analysis By:

Company Address:

2550 ROSWELL

N/D

Field: Well #:

1

Water (bbl/day):

N/D

Temp.,C:

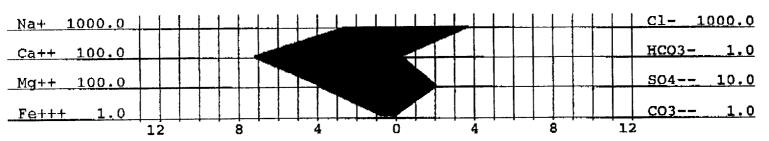
20

Date of Sampling:

JANUARY 11, 1994 SUZANNE WILLIAMS

## WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/L scale unit)



### DISSOLVED SOLIDS

# DISSOLVED GASES

| CATIONS            | me/l    | mg/l     |
|--------------------|---------|----------|
| Total Hardness :   | 1140.00 |          |
| Calcium, (Ca++) :  | 740.00  | 14835.60 |
| Magnesium, (Mg++): | 400.00  | 4860.56  |
| Iron, (Fe+++):     | 0.81    | 15.00    |
| Barium, (Ba++) :   |         | N/D      |
| Sodium, Na+(calc): | 2739.97 | 63019.31 |
| Manganese, (Mn++): | 0.00    | 0.00     |
| <del>-</del>       |         |          |

ANIONS 3859.15 136995.03

Chloride, Cl-1020.00 21.23 Sulfate, SO4--0.00 Carbonate, CO3--: 0.00 24.41 Bicarbonate, HCO3-: 0.40 0.00 0.00 Hydroxyl, OH-; 0.00 0.00 Sulfide, 8--220769.90 TOTAL SOLIDS (quant. ):

Hydrogen sulfide: 0.00 mg/1Carbon dioxide 63.36 mg/1N/D mg/1Oxygen

#### PHYSICAL PROPERTIES

5.45 Ħq : 1.135 Spec Grav. :220770.33 TDS (calc.)

SCALE STABILITIES

| Temp.,C    | CaCO3      | Caso4 | B | 1804 |
|------------|------------|-------|---|------|
| 20.0       | N/D        | 1240  |   | 1    |
| 30.0       | N/D        | 1365  |   | 1    |
| 40.0       | N/D        | 1634  |   | 1    |
| Max entity | y, (calc.) | 1548  |   | 0    |
| RESIDUAL I | N/D        |       |   |      |