



Analytical & Consulting Services

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MAR 24 1989

Water Quality Division
Dept. of Environmental Quality

ARCO
P.O. BOX 147
BAKERSFIELD CA. 93302

LABORATORY NO : 15597
DATE RECEIVED : 7/8/88
DATE REPORTED : 7/18/88

ATTENTION : BRIAN TULLOH

SAMPLE DESCRIPTION : MIST DRILLING MUD (FILTRATE)

GEOCHEMICAL WATER ANALYSIS

| CONSTITUENTS | MG/L | MEQ/L | REACTING PERCENT |
|--|---------|-----------------------|------------------|
| CALCIUM, CA | 310.00 | 15.46 | 13.87 |
| MAGNESIUM, MG | 20.00 | 1.64 | 1.47 |
| SODIUM, NA | 850.00 | 36.96 | 33.15 |
| POTASSIUM, K | 38.00 | 0.97 | 0.87 |
| IRON, FE (TOTAL) | 14.00 | 0.75 | 0.67 |
| CHLORIDE, CL | 151.00 | 4.25 | 3.81 |
| SULFATE, SO4 | 2470.00 | 51.42 | 46.12 |
| SULFIDE, S | 0.00 | | |
| BICARBONATE, HCO3 | 0.01 | 0.00 | 0.00 |
| CARBONATE, CO3 | 0.00 | 0.00 | 0.00 |
| HYDROXIDE | 0.00 | 0.00 | 0.00 |
| TOTALS (SUM) | 3853.00 | 111.47 | 100.00 |
| BORON | 0.40 | | |
| TOTAL DIS SOLIDS (GRAV) | 4230.00 | | |
| TOTAL HARDNESS AS CaCO3 | 881.47 | | |
| SODIUM CHLORIDE, TOTAL | 2343.45 | | |
| PH | 3.03 | PRIMARY SALINITY | 66.31 |
| SPECIFIC GRAVITY @ 60 F | 1.003 | SECONDARY SALINITY | 33.58 |
| | | TOTAL SALINITY | 99.89 |
| ELECTRICAL CONDUCTIVITY, (E.C., MILLIMHO/CM @ 25C) | 5.12 | PRIMARY ALKALINITY | 0.00 |
| RESISTIVITY @ 25 C (OHM-METERS) | 1.951 | SECONDARY ALKALINITY | 0.00 |
| | MG/L | TOTAL ALKALINITY | 0.00 |
| Total Petroleum Hydrocarbons, EPA Method 418.1 | <2.0 | LANGELIER SCALE INDEX | -8.02 |

Jim Etherton, JZ
JIM EHERTON
LABORATORY DIRECTOR