



Water Analysis Report

Analysis Number : 000003168

Company.....:	Heyco	Date of Sampling.....:	10/19/94
Location.....:	Roswell, New Mexico	Date of Analysis.....:	10/19/94
Field.....:	"4"	Baker Representative..:	Steven Stroud
Lease.....:	Hondo Fed. Bat.	Well#.....:	# 6 1,2,3,4,5
Sample Source....:	Wellhead	Analysis by.....:	Stroud

DISSOLVED SOLIDS

CATIONS:	mg/l	me/l
Ca++	5400.00	270.00
Mg++	5904.80	484.00
Fe+++	500.00	26.88
Ba++	0.00	0.00
Na+	60824.42	2644.54
Mn++	0.00	0.00

ANIONS:

Cl-	120000.00	3380.28
SO4--	2050.00	42.71
HCO3-	109.80	1.80
CO3--	0.00	0.00
OH-	0.00	0.00
S-	10.00	0.63

TOTAL HARDNESS.....: 754.00
 TOTAL SOLIDS (quantitative).....: 194799.00
 RESIDUAL HYDROCARBONS(ppm).....: 0.00

s = not determined

DISSOLVED GASES

Hydrogen Sulfide, H2S.....:	0.0
Carbon Dioxide, CO2.....:	110.9
Oxygen, O2.....:	0.0

PHYSICAL PROPERTIES

pH.....:	5.8
Specific Gravity.....:	1.110
TDS (calculated) ppm.....:	194799.0
TIS (calculated):	3.8

SCALE STABILITIES

Temp.	°C	°F	CaCO3	CaSO4	BaSO4
	20	68	-1.69	3643	1
	30	86	-1.59	3942	1
	40	104	-1.38	4719	1
Max entity, (calculated):			3085	0	

WATER ANALYSIS PATTERN

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



NOTES:

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.