

RESULT OF WATER ANALYSES

LABORATORY NO. 985382
 TO: Mr. Mark Nearburg SAMPLE RECEIVED 9-29-85
P.O. Box 31405, Dallas, Texas RESULTS REPORTED 10-1-85

COMPANY Chama Petroleum Corp. LEASE Morrison Com. #1
 FIELD OR POOL Dayton
 SECTION _____ BLOCK _____ SURVEY _____ COUNTY Eddy STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:
 NO. 1 Produced water - taken from Morrison Com. #1 (wellhead). 9-27-85
 NO. 2 _____
 NO. 3 Section 5
 NO. 4 _____

REMARKS: Sample submitted by Leo B. Prater, Halliburton

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1188			
pH When Sampled				
pH When Received	6.93			
Bicarbonate as HCO ₃	525			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	11,100			
Calcium as Ca	3,100			
Magnesium as Mg	814			
Sodium and/or Potassium	68,046			
Sulfate as SO ₄	4,216			
Chloride as Cl	109,369			
Iron as Fe	11.3			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	186,070			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	68.8			
Resistivity, ohms/m at 77° F.	0.061			
Suspended Oil				
Filtrable Solids as mg/				
Volume Filtered, ml				

BEFORE EXAMINER STOGNER
 Oil Conservation Division
~~OWA~~ Exhibit No. 4
 Case No. 8738

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: We have no records of Yeso water in this area. We do have records of the Abo, and this water does not correlate with those records. It is noted that this water shows decided similarity to commercial brine. However, due to lack of records in the area, we would be reluctant to suggest the most probable origin herein.