

HALLIBURTON DIVISION LABORATORY  
 HALLIBURTON COMPANY  
 MIDLAND DIVISION

LABORATORY WATER ANALYSIS No. W69-271

To CURTIS HANKAMER

Date 4-7-69

724 HOUSTON BANK & TRUST BLDG.

HOUSTON, TEXAS 77000

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 4-6-69

Well No. AS MARKED Depth \_\_\_\_\_ Formation \_\_\_\_\_

County \_\_\_\_\_ Field \_\_\_\_\_ Source \_\_\_\_\_

**DOUBLE X**

	<u>BEATY GULF</u>	<u>HANSON FEDERAL</u>	<u>HANAGAN FEDERAL</u>
Resistivity	<u>0.073 @ 68° F.</u>	<u>0.070 @ 68° F.</u>	<u>0.049 @ 68° F.</u>
Specific Gravity	<u>1.094</u>	<u>1.097</u>	<u>1.164</u>
pH	<u>7.0</u>	<u>7.3</u>	<u>5.0</u>
Calcium (Ca)	<u>10,900</u>	<u>10,300</u>	<u>24,900</u> *MPL
Magnesium (Mg)	<u>1,740</u>	<u>2,820</u>	<u>3,350</u>
Chlorides (Cl)	<u>85,000</u>	<u>91,000</u>	<u>154,000</u>
Sulfates (SO <sub>4</sub> )	<u>1,530</u>	<u>1,600</u>	<u>600</u>
Bicarbonates (HCO <sub>3</sub> )	<u>61</u>	<u>85</u>	<u>36</u>
Soluble Iron (Fe)	<u>NIL</u>	<u>NIL</u>	<u>260</u>

Remarks:

**BEFORE EXAMINER NUTTER**  
**OIL CONSERVATION COMMISSION**  
 EXHIBIT NO. 6  
 CASE NO. 712.6.4127

\*Milligrams per liter

Respectfully submitted,

Analyst: CARLILE BREWER  
 CC: THORNTON HOOPER

HALLIBURTON COMPANY  
 By H.C. Carlile  
 DIVISION CHEMIST

**NOTICE**

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

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Submitted by \_\_\_\_\_ Date Rec. 4-6-69

Well No. AS MARKED (LEASE) Depth \_\_\_\_\_ Formation \_\_\_\_\_

County \_\_\_\_\_ Field \_\_\_\_\_ Source \_\_\_\_\_

	<u>GULF FEDERAL</u>	<u>GULF FEDERAL "A"</u>	
Resistivity .....	<u>0.061 @ 68° F.</u>	<u>0.061 @ 68° F.</u>	
Specific Gravity .....	<u>1.098</u>	<u>1.098</u>	
pH .....	<u>7.0</u>	<u>6.9</u>	
Calcium (Ca) .....	<u>10,700</u>	<u>11,300</u>	<u>*MPL</u>
Magnesium (Mg) .....	<u>2,400</u>	<u>2,970</u>	
Chlorides (Cl) .....	<u>89,000</u>	<u>88,000</u>	
Sulfates (SO <sub>4</sub> ) .....	<u>1,370</u>	<u>1,280</u>	
Bicarbonates (HCO <sub>3</sub> ) .....	<u>73</u>	<u>73</u>	
Soluble Iron (Fe) .....	<u>Nil</u>	<u>Nil</u>	
.....			
.....			
.....			

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: CARLILE - BREWER  
CC: THORNTON HOOPER

HALLIBURTON COMPANY

By *M. C. Carlile*  
DIVISION CHEMIST

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