

# TREAT-RITE CHEMICAL CO.

INCORPORATED

MONAHANS, TEXAS

Copy

## RESULT OF WATER ANALYSES

OFFICE 000

LABORATORY NO. M35516

TO: Mr. W. H. Mills

SAMPLE RECEIVED 3-17-55

Box 3786, Odessa, Texas

RESULTS REPORTED 3-18-55

COMPANY Kewanee Oil Company

LEASE Pearl B

FIELD OR POOL Maljamar

SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE Texas

SOURCE OF SAMPLE, AND DATE TAKEN:

NO. 1 Raw water-swabbed from Pearl B #12 at 895' to 954'. 3-16-55

NO. 2 Produced water-taken at east separator from wells #13, 19, 18, 16 & 11. 3-16-55

NO. 3 The two above mixed in equal proportions.

NO. 4 \_\_\_\_\_

REMARKS: \_\_\_\_\_

### CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
SPECIFIC GRAVITY AT 60-60° F	1.0075	1.2048		
PH WHEN SAMPLED				
PH WHEN RECEIVED	7.1	6.9		
TOTAL ALKALINITY AS CaCO <sub>3</sub>	200	220		
SUPERSATURATION AS CaCO <sub>3</sub>	0	-		
UNDERSATURATION AS CaCO <sub>3</sub>	-	62		
TOTAL HARDNESS AS CaCO <sub>3</sub>	1,985	25,648		
CALCIUM AS CaCO <sub>3</sub>	992	4,814		
MAGNESIUM AS CaCO <sub>3</sub>	993	20,831		
SODIUM AND/OR POTASSIUM	412	138,421		
SULFATE AS SO <sub>4</sub>	2,134	3,776		
CHLORIDE AS NaCl	4,944	154,430		
SILICA AS SiO <sub>2</sub>	9.5	4.5		
IRON AS Fe	1.80	3.68		
MANGANESE AS Mn	0.45	0.35		
BARIUM AS Ba	none	none		
TURBIDITY ELECTRIC	7	134	60	
COLOR AS Pt	1.5	16.5		
DISSOLVED SOLIDS AT 103 °C.	9,485	322,151		
TOTAL SOLIDS AT 103 °C.	9,492	322,285		
TEMPERATURE °F	ND	ND		
CARBON DIOXIDE CALCULATED	31	50		
DISSOLVED OXYGEN WINKLER	ND	ND		
HYDROGEN SULPHIDE	none	5.0		
RESIDUAL CHLORINE	none	none		

NOTE: ND-Not Determined. All Results Reported as Parts Per Million. Divide by 17.1 to Convert Grains Per Gallon

Additional Determinations and Remarks

The above waters are compatible as exemplified by the resulting turbidity of an equal proportioned mixture. Sample #2 turned black after sampling which indicated hydrogen sulfide might have resulted from bacterial action. If not, the presence of iron in sample #1 would give significance; however, the iron in sample #1 is very likely due to corrosion in this well. In any event these factors could be eliminated by water treatment. When this water well has been completed and cleaned out we will be able to proceed toward a definite plan of treatment.

By

Waylan C. Martin, B.S., M.A.

Curtis Teller