

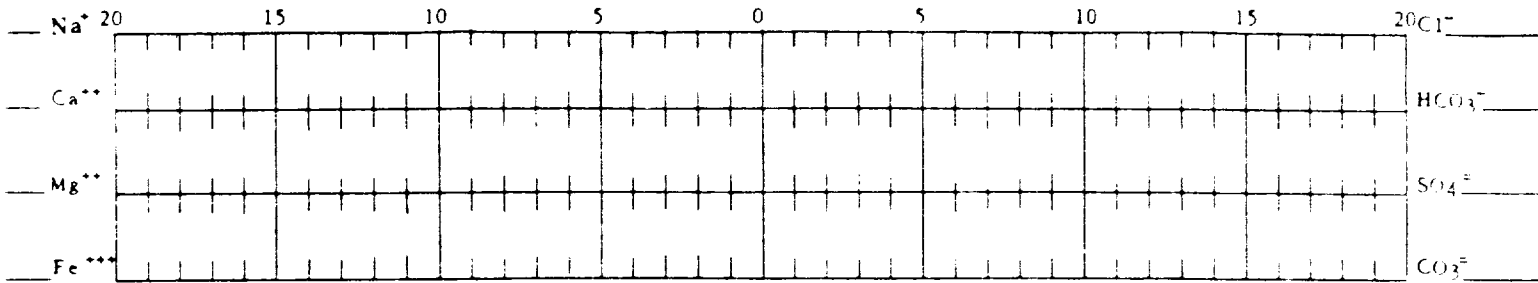
WATER ANALYSIS REPORT



NL Treating Chemicals / NL Industries, Inc.
P. O. Box 4305 Houston, Texas 77210

COMPANY <i>Gulfco West</i>				SHEET NUMBER		
ELD				COUNTY OR PARISH		DATE <i>11/9/84</i>
WELL'S NAME OR NO. <i>South well</i>		WATER SOURCE (FORMATION) <i>winomine</i>		STATE		
BASE OR UNIT <i>B.V. Lynch</i>	DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL DAY	OIL, BBL DAY
TYPE SAMPLED		TYPE OF WATER ☐ PRODUCED ☐ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISPOSAL				

WATER ANALYSIS PATTERN (NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

IONS	me/l*	mg/l*
Total Hardness	<u>1</u>	
Calcium, Ca ⁺⁺	<u>.9</u>	<u>18</u>
Magnesium, Mg ⁺⁺	<u>.1</u>	<u>1.2</u>
Iron (Total), Fe ⁺⁺⁺		
Barium, Ba ⁺⁺		
Sodium, Na ⁺ (calc.)	<u>51.7</u>	<u>1189.1</u>
Chloride, Cl ⁻	<u>50.7</u>	<u>1800</u>
Sulfate, SO ₄ ⁼	<u>0</u>	<u>0</u>
Bicarbonate, CO ₃ ⁼		
Carbonate, HCO ₃ ⁻	<u>2</u>	<u>122</u>
Hydroxyl, OH ⁻		
Sulfide, S ⁼	<u>> 1</u>	

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	_____ mg/l*
Carbon Dioxide, CO ₂	_____ mg/l*
Oxygen, O ₂	_____ mg/l*

PHYSICAL PROPERTIES

pH	<u>7.7</u>
Eh (Redox Potential)	_____ MV
Specific Gravity	_____
Turbidity, JTU Units	_____
Total Dissolved Solids (calc.)	<u>3130</u> mg/l*
Stability Index @ _____ F	_____
CaSO ₄ Solubility @ _____ F	_____ mg/l*
Max. CaSO ₄ Possible (calc.)	_____ mg/l*
Max. BaSO ₄ Possible (calc.)	_____ mg/l*
Residual Hydrocarbons	_____ ppm (Vol/Vol)

SPENDED SOLIDS (QUALITATIVE)

Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

REMARKS AND RECOMMENDATIONS:

BACKGROUND INFORMATION

BEFORE EXAMINER SIGNATURE

Texas

NOTE: me/l and mg/l are commonly used interchangeably for ppm and ppm respectively. Where ppm and ppm are used, corrections should be made for specific gravity.

CASE NO. 8626

ANALYZED BY <i>[Signature]</i>	DIST. NO. <u>821</u>	ADDRESS	OFFICE PHONE	HOME PHONE
DATE	DISTRIBUTION	☐ CUSTOMER	☐ AREA OR	☐ DISTRICT OFFICE