

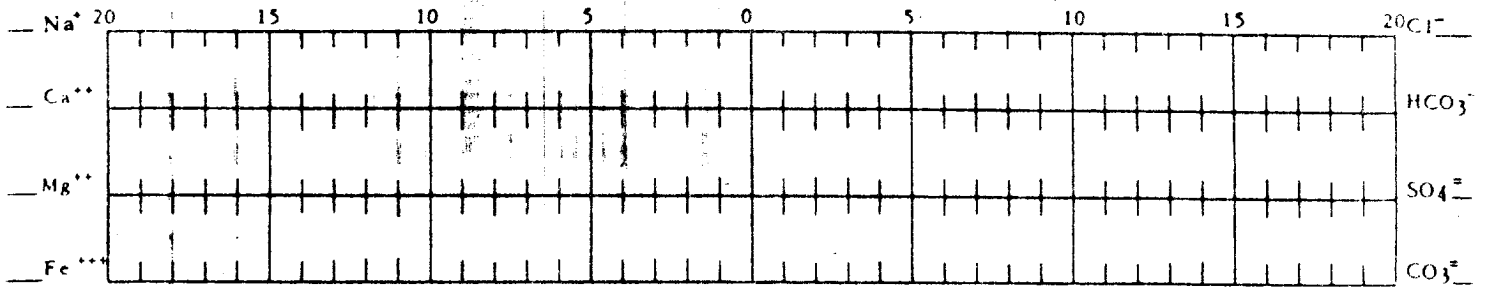
WATER ANALYSIS REPORT


 NL Treating Chemicals/NL Industries, Inc.
 P. O. Box 4305 Houston, Texas 77211

COMPANY Alpha-Twenty One						SHEET NUMBER	
LD						DATE 5-11-84	
COUNTY OR PARISH LEA						STATE N.M.	
WELL(S) NAME OR NO. #2		WATER SOURCE (FORMATION) El Paso Tom Fed.					
PTH. FT.	BHT. F.	SAMPLE SOURCE Wellhead	TEMP. F.	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF DAY	
DATE SAMPLED 5-7-84		TYPE OF WATER ☒ PRODUCED ☐ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISP.					

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES mg/l* SCALE UNIT)



DISSOLVED SOLIDS

IONS

 Total Hardness
 Calcium, Ca⁺⁺
 Magnesium, Mg⁺⁺
 Iron (Total), Fe⁺⁺⁺
 Sodium, Na⁺
 Sodium, Na⁺ (calc.)

mg/l*

6.8

16

5.2

0.2

172.0

mg/l*

320

634.4

3.75

3956.0

DISSOLVED GASES

 Hydrogen Sulfide, H₂S
 Carbon Dioxide, CO₂
 Oxygen, O₂

mg/l*

mg/l*

mg/l*

PHYSICAL PROPERTIES

 pH **5.5**
 Eh (Redox Potential) _____ MV
 Specific Gravity _____
 Turbidity, JTU Units _____
 Total Dissolved Solids (calc.) **13679** mg/l*
 Stability Index @ _____ F
 @ _____ F
 CaSO₄ Solubility @ _____ F
 @ _____ F
 Max. CaSO₄ Possible (calc.) _____ mg/l*
 Max. BaSO₄ Possible (calc.) _____ mg/l*
 Residual Hydrocarbons _____ ppm (Vol.)

IONS

 Chloride, Cl⁻
 Sulfate, SO₄⁼
 Bicarbonate, CO₃⁼
 Carbonate, HCO₃⁼
 Hydroxyl, OH⁻
 Silicate, Si⁻

mg/l*

219.7

12.0

4.9

2.6

mg/l*

7800

625

298.9

41.7

DISSOLVED SOLIDS (QUALITATIVE)

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

REMARKS AND RECOMMENDATIONS:

Extremely low scaling conditions.

Low iron count.

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

ENGINEER Andy Brown	DIST. NO. 821	ADDRESS	OFFICE PHONE	HOME PHONE
ANALYZED Crum	DATE 5/25/84	DISTRIBUTION ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ BTC ENGINEER OR ☐ BTC LAB ☐ BTC SALES SUPERV.		

RECEIVED

DEC 21 1984

O.C.D.
HOBBS OFFICE