



L Baroid/NL Industries, Inc.
O. Box 1675, Houston, Texas 77001

WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

						SHEET NUMBER	
COMPANY Getty Oil Co.						DATE 12-17-81	
WELL(S) NAME OR NO. Lovington Water System #1				COUNTY OR PARISH Lea		STATE N.M.	
WATER SOURCE (FORMATION)		WELL(S) NAME OR NO.		WATER, BBL/DAY		OIL, BBL/DAY	
GAS, MMCF/DAY		TEMP. F		SAMPLE SOURCE Wellhead		DEPTH, FT.	
DATE SAMPLED 12-17-81		TYPE OF WATER ☐ PRODUCED ☒ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISPOSAL					

WATER ANALYSIS PATTERN

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

Na ⁺ 20	15	10	5	0	5	10	15	20 Cl ⁻
Ca ⁺⁺								HCO ₃ ⁻
Mg ⁺⁺								SO ₄ ⁼
Fe ⁺⁺⁺								CO ₃ ⁼

DISSOLVED SOLIDS

ATIONS	me/l*	mg/l*
otal Hardness	8.0	
alcium, Ca ⁺⁺	6.2	124
agnesium, Mg ⁺⁺	1.8	22
on (Total) Fe ⁺⁺⁺		0
rium, Ba ⁺⁺		
dium, Na ⁺ (calc.)	3.1	71
IONS		
loride, Cl ⁻	4.2	150
lfate, SO ₄ ⁼	3.4	163
arbonate, CO ₃ ⁼	0	0
arbonate, HCO ₃ ⁻	3.5	214
droxyl, OH ⁻	0	0
lfide, S ⁼		1

DISSOLVED GASES

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

PHYSICAL PROPERTIES

pH	6.5
Eh (Redox Potential)	MV
Specific Gravity	
Turbidity, JTU Units	
Total Dissolved Solids (calc.)	744 mg/l*
Stability Index @ 68 F	-0.64
@ 122 F	-0.20
CaSO ₄ Solubility @ F	mg/l*
@ F	mg/l*
Max. CaSO ₄ Possible (calc.)	3.4 mg/l* me/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:

Complete Analysis
Solid Content

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

ENGINEER Washington	DIST. NO. 821	ADDRESS Denver City, TX	OFFICE PHONE	HOME PHONE
ANALYZED L. Medlock	DATE 12/18/81	DISTRIBUTION ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ BTC ENGINEER OR ☐ BTC LAB ☐ BTC SALES SUPERVISOR		