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

BAROID TREATING CHEMICALS

WATER ANALYSIS REPORT

			SHEET NUMBER
MPANY: Getty Oil Co.			DATE: 12-7-81
ELD		COUNTY OR PARISH: Lea Co.	STATE: N.M.
ASE OR UNIT: STHIEP Lovington ABO	WELL(S) NAME OR NO.: #4	WATER SOURCE (FORMATION)	

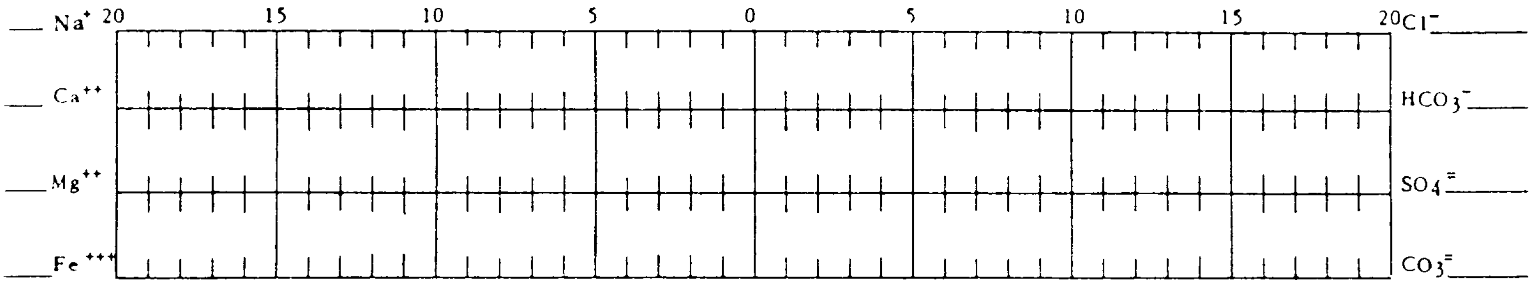
EPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY

ATE SAMPLED: 12-7-81

TYPE OF WATER: [x] PRODUCED [ ] SUPPLY [ ] WATERFLOOD [ ] SALT WATER DISPOSAL

WATER ANALYSIS PATTERN

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



SSOLVED SOLIDS

ATIONS	me/l*	mg/l*
otal Hardness	106	
lcium, Ca++	82	1,640
gnesium, Mg++	24	293
n (Total) Fe+++		
rium, Ba++		0
dium, Na+(calc.)	458.0	10,530
IONS		
loride, Cl−	478.9	17,000
fate, SO4=	54.0	2,590
rbonate, CO3=	0	0
carbonate, HCO3−	24.2	1,480
droxyl, OH−	0	0
lfide, S=	6.9	111

DISSOLVED GASES

Hydrogen Sulfide, H_2S		mg/l*
Carbon Dioxide, CO_2		mg/l*
Oxygen, O_2		mg/l*

PHYSICAL PROPERTIES

pH	8.0	
Eh (Redox Potential)		MV
Specific Gravity		
Turbidity, JTU Units		
Total Dissolved Solids (calc.)	33,644	mg/l*
Stability Index @ 68 F	+1.59	
@ 122 F	+2.26	
$CaSO_4$ Solubility @ 68 F	49	~~mg/l*~~ me/l
@ 104 F	50	~~mg/l*~~ me/l
Max. $CaSO_4$ Possible (calc.)	54	~~mg/l*~~ me/l
Max. $BaSO_4$ Possible (calc.)		mg/l*
Residual Hydrocarbons		ppm(Vol/Vol)

SPENDED SOLIDS (QUALITATIVE)

n Sulfide [ ] Iron Oxide [ ] Calcium Carbonate [ ] Acid Insoluble [ ]

*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.

EMARKS AND RECOMMENDATIONS:

Corrosion rate high. Well needs evulation.

C ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
Washington	821	Denver City, TX	393-3938	592-8212

ALYZED	DATE	DISTRIBUTION
C. Medlock	12/10/81	[ ] CUSTOMER [ ] AREA OR [ ] DISTRICT OFFICE [ ] BTC ENGINEER OR [ ] BTC LAB [ ] BTC SALES SUPERVISOR

BTC 14/B I,M G & C