WATER ANALYSIS REPORT

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

			SHEET NUMBER
COMPANY: Texaco Producing Inc.			DATE
FIELD: Eunice Area		COUNTY OR PARISH: Lea	STATE: NM
LEASE OR UNIT: Old Sims House	WELL(S) NAME OR NO.	WATER SOURCE (FORMATION)	

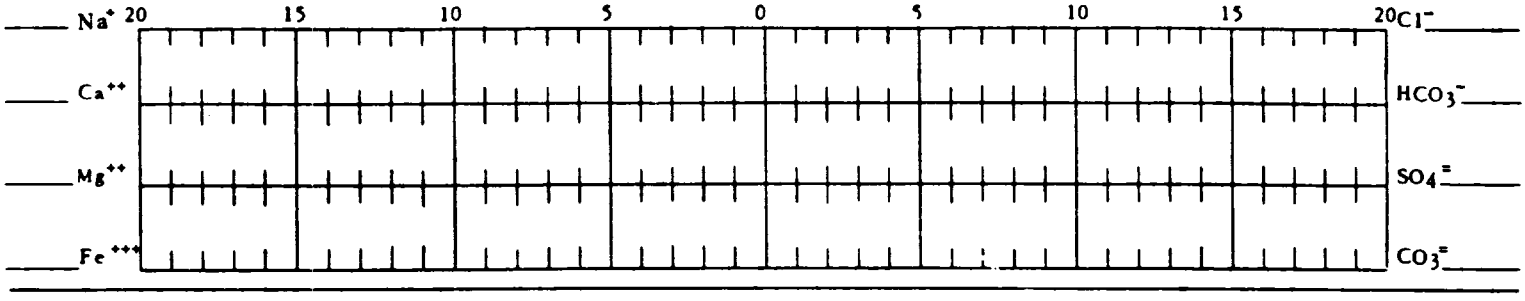
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY

DATE SAMPLED: 8-7-85

TYPE OF WATER: ☐ PRODUCED ☒ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISPOSAL

WATER ANALYSIS PATTERN

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



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	5.4	
Calcium, Ca^{++}	2.6	52.0
Magnesium, Mg^{++}	2.8	34.2
Iron (Total) Fe^{+++}	0.1	1.3
Barium, Ba^{++}		
Sodium, Na^{+}(calc.)	16.3	374.9
ANIONS		
Chloride, Cl^{-}	14.1	500.0
Sulfate, $SO_4^{=}$	3.2	155.0
Carbonate, $CO_3^{=}$		
Bicarbonate, HCO_3^{-}	4.5	274.5
Hydroxyl, OH^{-}		
Sulfide, $S^{=}$	<1	<1

DISSOLVED GASES

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

PHYSICAL PROPERTIES

pH	7.6	
Eh (Redox Potential)		MV
Specific Gravity		
Turbidity, JTU Units		
Total Dissolved Solids (calc.)	1,391.7	mg/l*
Stability Index @____F		
@____F		
$CaSO_4$ Solubility @____F		mg/l*
@____F		mg/l*
Max. $CaSO_4$ Possible (calc.)		mg/l*
Max. $BaSO_4$ Possible (calc.)		mg/l*
Residual Hydrocarbons		ppm(Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron 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.

REMARKS AND RECOMMENDATIONS:

Complete Water Analysis plus Fe

BTC ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
Frank Wower	821	Box 1697 Hobbs NM	392-1518	392-4616
ANALYZED: Ramon	DATE: 8/12/85	DIST	☐ AREA OR ☐ BTC LAB	☐ DISTRICT OFFICE ☐ BTC SALES SUPERVISOR

Exhibit