

WATER ANALYSIS REPORT


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

						SHEET NUMBER	
COMPANY <i>TEXACO Producing Inc.</i>						DATE <i>6-18-85</i>	
FIELD <i>EUNICE</i>				COUNTY OR PARISH <i>LEA</i>		STATE <i>NM</i>	
LEASE OR UNIT <i>Skelly Penrose "A" UNIT</i>			WELL(S) NAME OR NO. <i>Sims House</i>		WATER SOURCE (FORMATION) <i>FRESH WATER</i>		
DEPTH, FT.	BHT, F	SAMPLE SOURCE <i>Wellhead</i>	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED <i>6-18-85</i>		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

CATIONS

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

me/l*

*3.0**0**3.0**0**25**35*

mg/l*

*0**36.6**.05**575**575*

DISSOLVED GASES

 Hydrogen Sulfide, H₂S
 Carbon Dioxide, CO₂
 Oxygen, O₂

mg/l*

*0**0**0*

PHYSICAL PROPERTIES

 pH
 Eh (Redox Potential)
7.05

MV

 Specific Gravity
 Turbidity, JTU Units
Total Dissolved Solids (calc.) *1816* mg/l*

Stability Index @ ___ F

@ ___ F

CaSO₄ Solubility @ ___ F mg/l*

@ ___ F

Max. CaSO₄ Possible (calc.) mg/l*Max. BaSO₄ Possible (calc.) mg/l*

Residual Hydrocarbons ppm(Vol/Vol)

ANIONS

 Chloride, Cl⁻
 Sulfate, SO₄⁼
 Carbonate, CO₃⁼
 Bicarbonate, HCO₃⁻
 Hydroxyl, OH⁻
 Sulfide, S⁼
*16.9**5.9**5.2**5.2**21**600**387.5**317.2*

SUSPENDED SOLIDS (QUALITATIVE)

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

REMARKS AND RECOMMENDATIONS:

Complete Analysis plus Fe

*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.

BTC ENGINEER <i>Wonen</i>	DIST. NO. <i>821</i>	ADDRESS	OFFICE PHONE	HOME PHONE
ANALYZED <i>Cruen</i>	DATE <i>6/19/85</i>	DISTRIBUTION ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ BTC ENGINEER OR ☐ BTC LAB ☐ BTC SALES SUPERVISOR		