

BLINEBRY/TUBB PRODUCED WATER

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : CONOCO
Date : 12-10-1990
Location: Warren Unit - #53 (on 12-7-90)

Specific Gravity:	<u>Sample 1</u>
Total Dissolved Solids:	1.023
pH:	116560
IONIC STRENGTH:	6.90
	3.703

<u>CATIONS:</u>		<u>me/liter</u>	<u>mg/liter</u>
Calcium	(Ca ⁺²)	348	6960
Magnesium	(Mg ⁺²)	752	9140
Sodium	(Na ⁺¹)	1040	24000
Iron (total)	(Fe ⁺²)	1.25	35.0
Barium	(Ba ⁺²)	0.001	0.100
Manganese	(Mn ⁺²)	0.031	0.860

<u>ANIONS:</u>			
Bicarbonate	(HCO ₃ ⁻¹)	3.20	195
Carbonate	(CO ₃ ⁻²)	0	0
Hydroxide	(OH ⁻¹)	0	0
Sulfate	(SO ₄ ⁻²)	26.0	1250
Chloride	(Cl ⁻¹)	2120	75000

SCALING INDEX (positive value indicates scale)

Temperature
86°F 30°C

<u>Calcium</u>	<u>Calcium</u>
<u>Carbonate</u>	<u>Sulfate</u>
0.58	-7.8

EXHIBIT 19

BEFORE EXAMINER STOGNER OIL CONSERVATION DIVISION
EXHIBIT NO. <u>19</u>
CASE NO. <u>10220</u>
Submitted by <u>Conoco Inc.</u>
Hearing Date <u>1-24-91</u>