

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : SOVERIGN OIL CO.

DATE : 02-25-87

FIELD, LEASE & WELL : NAVAJO LAKE #1

SAMPLING POINT: WELLHEAD

DATE SAMPLED : 02-17-87

SPECIFIC GRAVITY = 1.003

TOTAL DISSOLVED SOLIDS = 6260

PH = 7.79

RECEIVED
AUG 03 1987
OIL CON. DIV
DIST. 3

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.6	33.5
MAGNESIUM	(MG)+2	.11	1.3
SODIUM	(NA), CALC.	101.	2340.
ANIONS			
BICARBONATE	(HCO3)-1	7.6	463.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	0	0
CHLORIDES	(CL)-1	96	3400
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.38
BARIUM	(BA)+2	.3	20.8
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .106

SCALING INDEX	TEMP	
	30C	48.8C
	86F	120F
CARBONATE INDEX	.188	.590
CALCIUM CARBONATE SCALING	LIKELY	LIKELY
CALCIUM SULFATE INDEX	-28.	-28.
CALCIUM SULFATE SCALING	UNLIKELY	UNLIKELY