EXHIBIT VII.4.a.

HE WESTERN COMPANY OF NORTH AMERICA

WATER ANALYSIS

HOBBS, NEW MEXICO LAB — ANALYSIS #: HB010501

GENERAL INFORMATION

OPERATOR: MANZANO OIL CORP.
WELL: SV SUNDOWN ST. #1
FIELD:
FORMATION:
COUNTY:
STATE:

Send Data Sep. Division

DEPTH: 0
DATE SAMPLED: 3/30/95
DATE RECEIVED: 3/30/95
SUBMITTED BY:
WORKED BY: MIKE LEE
PHONE #: 505-392-5556

SAMPLE DESCRIPTION: MORNING SAMPLE

Rw w/Eq. NaCl @ 190° = .204

PHYSICAL AND CHEMICAL DETERMINATIONS

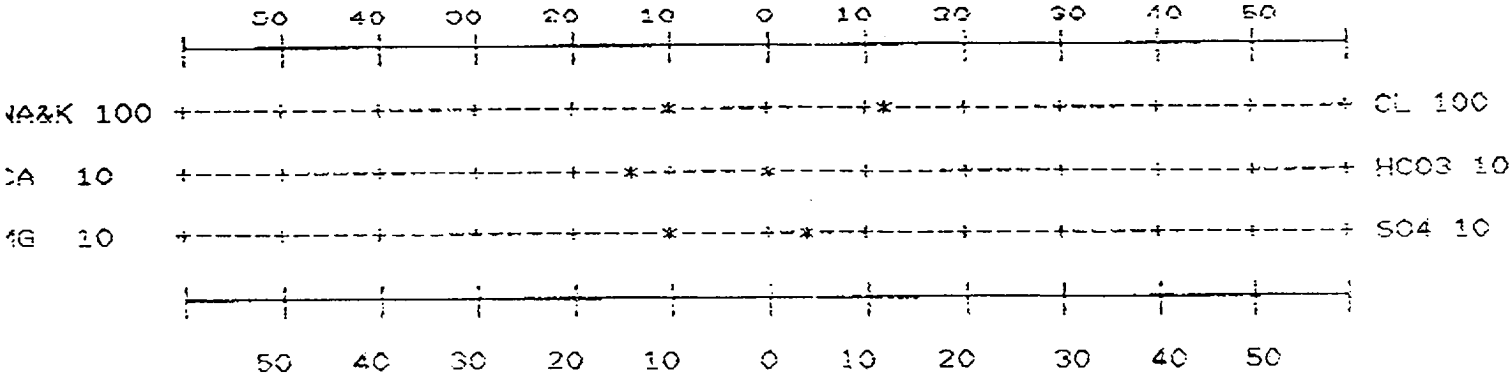
SPECIFIC GRAVITY: 1.050 @ 62 °F — PH: 5.65
RESISTIVITY (CALC.): .095 OHMS @ 75 °F

ON (FE++):	2500 PPM	SULFATE:	1571 PPM
LCIUM:	2667 PPM	TOTAL HARDNESS:	11905 PPM
MAGNESIUM:	1273 PPM	BICARBONATE:	465 PPM
CHLORIDE:	39991 PPM	SODIUM CHLORIDE (CALC)	65785 PPM
SODIUM+POTASS:	21396 PPM	TOT. DISSOLVED SOLIDS:	75330 PPM
		H2S	:NONE

REMARKS: 3PM SAMPLES DID NOT HAVE ENOUGH WATER FOR ANALYSIS.

API OIL GRAVITY FOR AFTERNOON SAMPLES WAS 37.5

STIFF TYPE PLOT (IN MEQ/L)



ANALYST _____
MIKE LEE