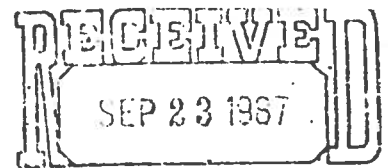




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SEP 23 1987

Cenref Labs

Century Refining Company

COLO. OIL & GAS CCNS. COMM.

FORMATION WATER ANALYSIS

LAB NO. K87FW-038
 COMPANY Beren Corp./Okmar Oil Co.
 REQUESTED BY John D'Hooqe

*6 wells - Simpson A-7
 only Simpson A-7
 producing as of 2/88
 and 8/87*

DATE COMPLETED September 2, 1987

DATE SAMPLED _____

DATE RECEIVED _____

WELL NAME "Water from Simpson Lease"

LOCATION _____

COUNTY _____

STATE _____ FIELD _____

FORMATION _____

DEPTH _____

TO _____

SAMPLED FROM _____

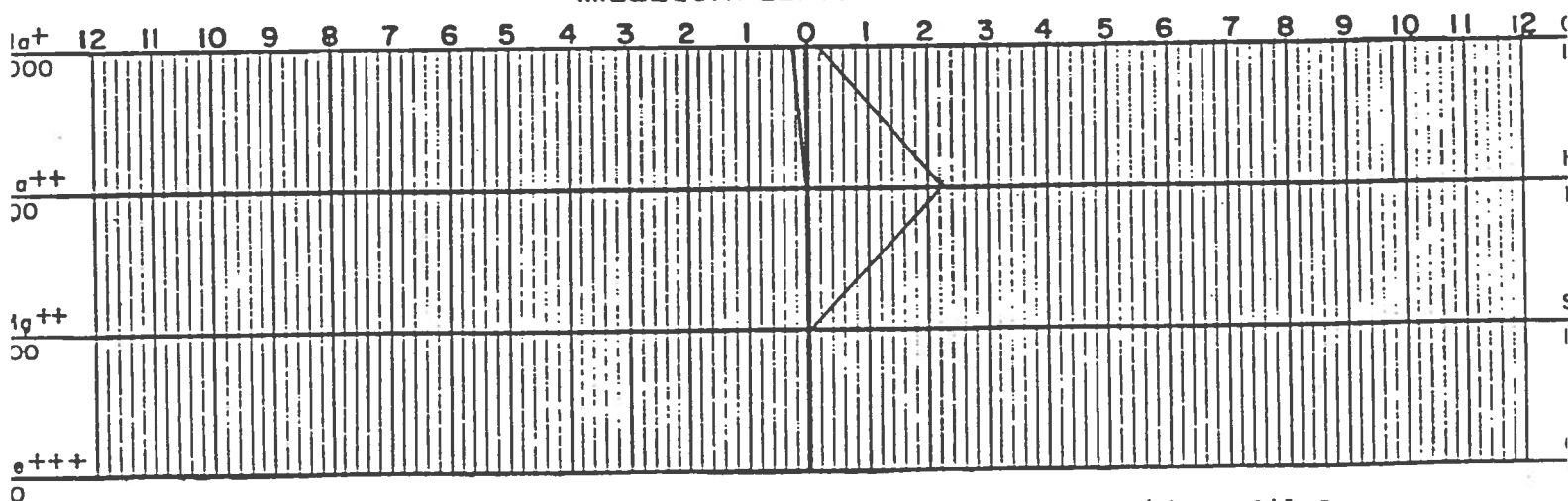
SAMPLED BY _____

pH 6.00 Specific Gravity 1.0031 at 60 °F
 Water Resistivity 4.3 ohm meters at 60 °F

	mg/l	ppm	me/l	RV%
Sodium, Na (calc.)	6 051	6 032	263.1	49.72
Calcium, Ca	13	13	0.6	0.12
Magnesium, Mg	10	10	0.8	0.16
Chloride, Cl	8 597	8 570	242.1	45.76
Carbonate, CO ₃	0	0	0.0	0.00
Bicarbonate, HCO ₃	1 366	1 362	22.4	4.23
Sulfate SO ₄	3	2	0.0	0.01
Hydroxide, OH	0	0	0.0	0.00
Total Dissolved Solids (calc.)	16 040	15 989		
Primary Salinity	91.54	% Total Reaction Value		
Primary Alkalinity	7.90	% Total Reaction Value		
Secondary Alkalinity	0.56	% Total Reaction Value		
CaCl ₂ /Mg Cl ₂ Ratio	0.895			

*Secondary Salinity 0.00

REACTION VALUES
 MILLEQUIVALENTS PER LITER



Beren
 CRC(3)

INVOICE Beren Corp./Okmar Oil Co.

Attn: John D'Hooqe P.O. Box 5850
 Denver, CO 80217

ANALYST *[Signature]*LAB MANAGER *[Signature]*