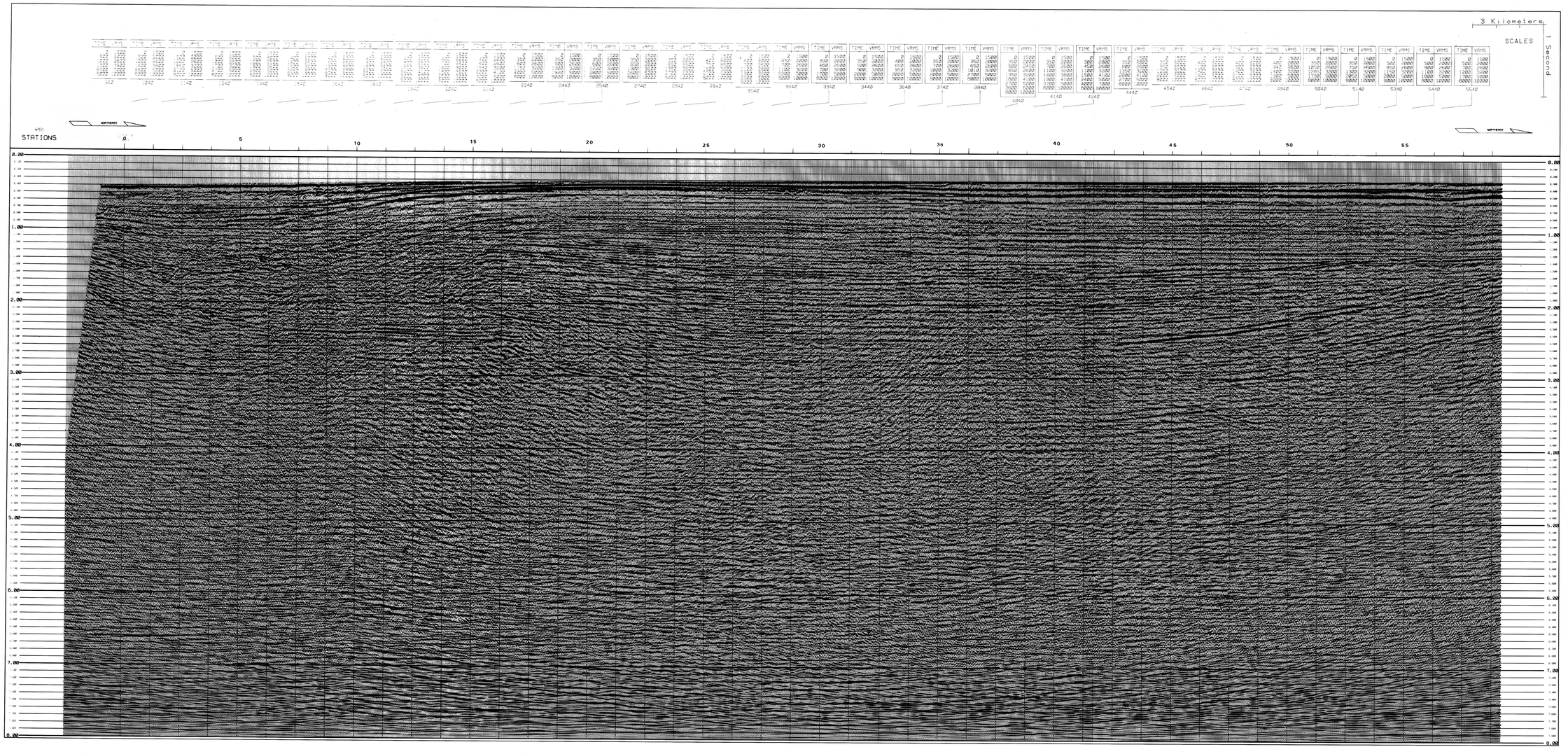

GRANT-NORPAC

LINE: LS-4

SPS: 470 - 2873

NORTHEAST

AREA . . . GREAT LAKES SURVEY 1985
LOCATION . . . LAKE SUPERIOR

MIGRATION

FIELD RECORDING PARAMETERS

RECORDED BY	GRANT/NORPAC #507	INSTRUMENTS	T.I. DFS-V
SAMPLE INTERVAL	2 MS.	TRACES/RECORD	120
RECORD LENGTH	8.0 SECONDS	FIELD FILTERS	8/18-128 HZ
DATE RECORDED	MAR 1985	PRE AMP GAIN	36 DB.
GROUP INTERVAL	25 METERS	SP INTERVAL	25 METERS
NO. OF GUNS	20	VOLUME	2968 CU. IN.
CABLE TYPE	SECO CENTURY	NAVIGATION	LORAN C
NEAR OFFSET	205 METERS	FAR OFFSET	3180 METERS

SPREAD DIAGRAM

ANT 0M GUNS 98.5M NEAR 205M FAR 3180M
T..........G..........120..............................1

PROCESSING SEQUENCE

DEMULTIPLEX
32 BIT FLOATING POINT
4 MS. SAMPLE RATE

TRACE EDIT

AUTOMATIC GAIN CONTROL

SPIKING DECONVOLUTION
424 MS OPERATOR
PRE WHITENING 1%

COMMON DEPTH POINT GATHER
60 FOLD
25 METER CDP INTERVAL

VELOCITY ANALYSIS
EVERY 1600 METERS

NORMAL MOVEOUT CORRECTION

TRACE MUTE

COMMON DEPTH POINT STACK

GAP DECONVOLUTION
144 MS OPERATOR LENGTH
24 MS LAG
1% PREWHITENING

FILTER
8 - 40 HZ.

FK FILTER

TRACE BALANCE

MIGRATION (FINITE DIFFERENCE)

DISPLAY PARAMETERS

HORIZONTAL SCALE . . . . . 50.0 TRACES/IN.
VERTICAL SCALE . . . . . . 2.5 IN./SEC.
POLARITY . . . . BLACK=POSITIVE
DIRECTION . . . . L TO R

1 KM = --------- (0.8 IN.)

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DATE 5/10

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APRIL 1990

Miscellaneous Paper 91-2: Seismic Reflection
Profiling and Tectonic Evolution of the
Midcontinent Rift in Lake Superior
Plate 1: Line 4
1992

These profiles have been photomechanically reduced from an original plotted scale of 1 second = 2.5 inches; as a result, some of the image may have been degraded.

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