GRANT-NORPAC

LINE LS-45

SOUTHEAST

PROSPECT . . . GREAT LAKES
LOCATION . . . LAKE SUPERIOR

MIGRATION

ACQUISITION

RECORDING PARAMETERS

RECORDED BY . . . . . GRANT-NORPAC
PARTY 507
DATE RECORDED . . . . JUL 1985
FIELD FORMAT. . . . . SEG-B
SAMPLE INTERVAL . . . 2 MS.
RECORD LENGTH . . . . 8.0 SEC.
NAVIGATION SYSTEM . . LORAN C SATELLITE
INSTRUMENTS . . . . . DFS-V
FIELD FILTER . . . . 8-125 HZ.
DIRECTION SHOT. . . . 335 DEG

SOURCE PARAMETERS

SOURCE. . . . . 20 GUN TUNED AIR GUN ARRAY
VOLUME. . . . . 2968 CU. IN.
GUN PRESSURE. . . . . 2000 P.S.I.
ARRAY DEPTH . . . . . 8 METERS

RECEIVER PARAMETERS

CABLE . . . . SECO CENTURY
CABLE DEPTH . . . . . 10 METERS
CABLE LENGTH. . . . . 2975 METERS

GEOMETRY

SHOT INTERVAL . . . . 25 METERS
GROUP INTERVAL. . . . 25 METERS
CHANNELS/RECORD . . . 120
NEAR TRACE. . . . . . 200 METERS
FAR TRACE . . . . . . 3175 METERS
FOLD. 60

```
S------------X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X
GUN         TR 120                                              TR 1
            200 M                                             3175 M
```

PROCESSING SEQUENCE

DEMULTIPLEX
32 BIT FLOATING POINT
4 MS. SAMPLE RATE

AUTOMATIC GAIN CONTROL

TRACE EDIT

COMMON DEPTH POINT GATHER
60 FOLD
25 METER CDP INTERVAL

SPIKING DECONVOLUTION
424 MS. OPERATOR LENGTH
1% PREWHITENING

VELOCITY ANALYSIS
EVERY 120 CDPS

NORMAL MOVEOUT CORRECTION

TRACE MUTE

COMMON DEPTH POINT STACK

DECONVOLUTION
144 MS. OPERATOR LENGTH
24 MS. LAG

FILTER
8-40 HZ.

F/K FILTER

TRACE BALANCE

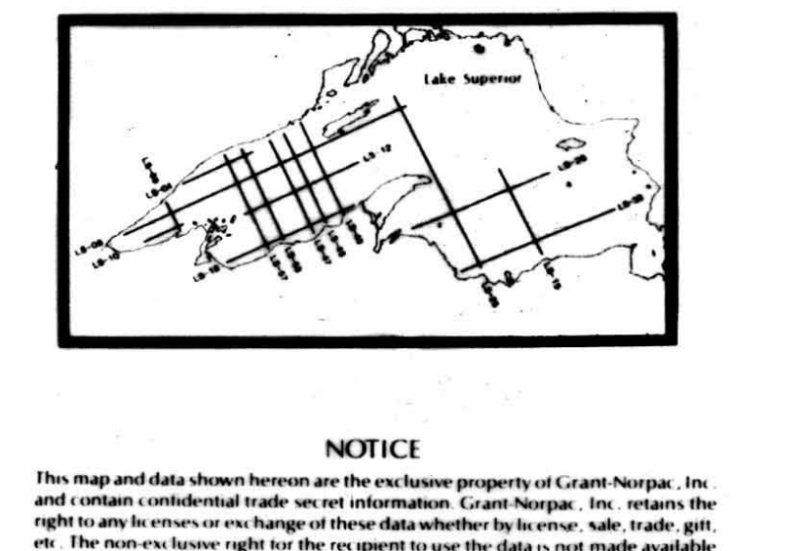
MIGRATION (FINITE DIFF.)

DISPLAY PARAMETERS

HORIZONTAL SCALE . . . . . 50 TRACES/IN.
VERTICAL SCALE . . . . . . 2.5 IN./SEC.
POLARITY . . . . BLACK=POSITIVE
DIRECTION. . . . . R TO L
SHOT POINT ANNOTATION. . . ANTENNA POSITION

GRANT-NORPAC
10550 RICHMOND AVENUE P.O. BOX 42801
HOUSTON, TEXAS 77042 713/781-4000
TWX: 910-881-2680 TLX: 774-606
CABLE: GRANTGEOCO

PROCESSED BY GRANT-NORPAC
OCT 1985



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3 Kilometers

SCALES

1 Second

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DATE 12/5/88
Delivered 2/28/90

Miscellaneous Paper 91-2: Seismic Reflection Profiling and Tectonic Evolution of the Midcontinent Rift in Lake Superior
Plate 11: Line 45
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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Ronald Hennings, Acting Director and State Geologist
3817 Mineral Point Road, Madison, Wisconsin 53705