DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Open-File Report 88-386

PLATE 3

GLIMPCE 1986

UNITED STATES GEOLOGICAL SURVEY

&

GEOLOGICAL SURVEY OF CANADA

LAKE SUPERIOR
LINE: C
FINAL STACK

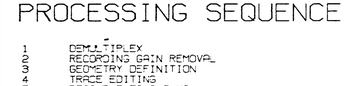
SOUTHEAST

PROCESSED BY: U.S.G.S.
BRANCH OF PETROLEUM GEOLOGY
GEOPHYSICS GROUP

RECORDING PARAMETERS

RECORDED BY:	G.S.C.	DATE RECORDED:	12/13-SEPT-1986
VESSEL:	M/V FRED J. ADNICH	PORT: #1	DULUTH
PRIMARY NAV.:	DECCA	SECONDARY NAV.:	LORAN C
	SAT/SONAR/GYRO		RANGE/RANGE
INSTRUMENT TYPE:	DFS-V	SAMPLE RATE:	4 MS
# OF GUN ARRAYS:	6 SUB ARRAYS	GUN OPERATING DEPTH:	6 METERS
ARRAY WIDTH:	80 METERS	# OF GUNS:	6
TAPE RUN TYP.:	7750 FT. INDIES	FIRING ORDER:	SIM
TAPE DENSITY:	1600 BPI	FIRING DELAY:	50.0 MS
NO. OF CHANNELS:	96	SOURCE INTERVAL:	50.0 METERS
RECORD LENGTH:	20 SECONDS	TRACE INTERVAL:	25.0 METERS
RECORD FILTER:		CABLE TYPE:	1207 COLD
LO CUT:	5.3 HZ	POSITIONING:	SAT/SONAR
SLOPE:	18 DB/OCTAVE	LINE STARTS AT:	NORTHEAST
HI CUT:	64 HZ	NEAR TRACE #:	102
SLOPE:	72 DB/OCTAVE		
60 HZ NOTCH:	OUT	FOLD:	24

SPREAD CONFIGURATION:



PROCESSING SEQUENCE

1 DEMULTIPLEX
2 RECORDING GAIN REMOVAL
3 GEOMETRY DEFINITION
4 TRACE EDITING
5 RESAMPLE TO 8.0 MS
6 F-K FILTERING IN SHOT DOMAIN
- RANGE: 4 - 45 HZ
- FILTER LENGTH: 31 POINTS
- FILTER WIDTH: 13 TRACES
- MOVEOUT RANGE: +/- 5 MS/TRACE

7 CDP SORT 24 FOLD
8,18 AUTOMATIC GAIN CONTROL
- GATE LENGTH: 1222 MS

9,11 VELOCITY ANALYSIS
10 PRELIMINARY STACK
12 MULTIPLE SUPPRESSION IN CDP DOMAIN
- CORR. VEL.: 1722 M/S
- APPL. GATE: 302 - 3222 MS

13 NORMAL MOVEOUT CORRECTION
14 FIRST BREAK NOISE SUPPRESSION (MUTE)
15 PRE-STACK DECONVOLUTION
- TYPE: SPIKING
- OPERATOR LENGTH: 59 POINTS
- TIME WINDOW: 0 - 4002
- TYPE: SPIKING
- OPERATOR LENGTH: 59 POINTS
- TIME WINDOW: 3622 - 12022
- TYPE: SPIKING
- OPERATOR LENGTH: 59 POINTS
- TIME WINDOW: 12002 - 20222

16 STACK 24 FOLD
17 BANDPASS FILTER

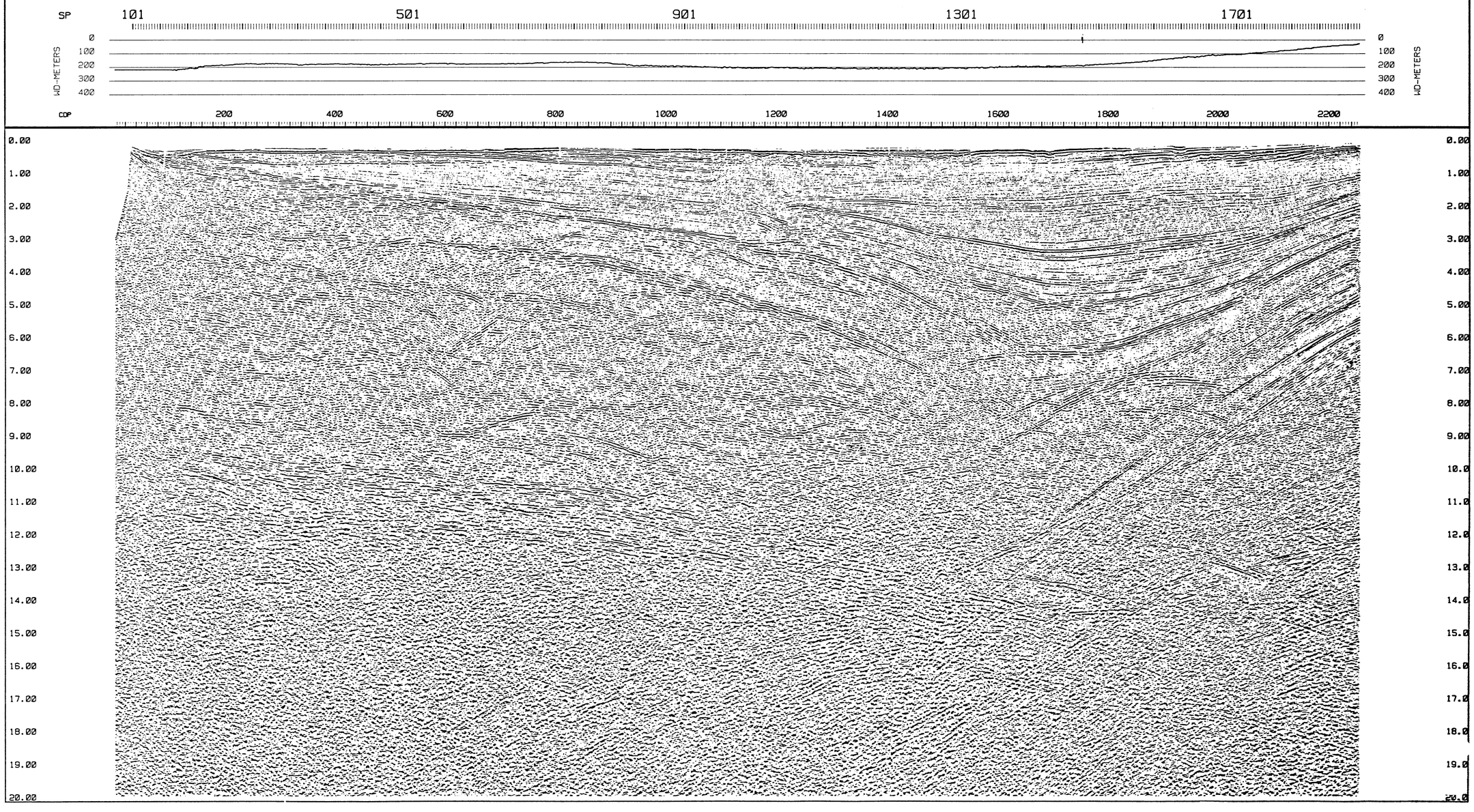
TIME:	BANDPASS:
0 - 2002 MS	4/8 - 32/36
5002 - 8022 MS	4/8 - 28/31
12002 - 20222 MS	3/5 - 25/32

19 POST-STACK DECONVOLUTION
- TYPE: 2ND ZERO CROSS.
- OPERATOR LENGTH: 59 POINTS
- TIME WINDOW: 0 - 5202
- TYPE: 2ND ZERO CROSS.
- OPERATOR LENGTH: 59 POINTS
- TIME WINDOW: 6022 - 20222

20 VERTICAL SUM (4 TO 1)
21 AUTOMATIC GAIN CONTROL
- GATE LENGTH: 2522 MS

22 POST STACK AMPLITUDE MODULATION
- TWO-DIMENSIONAL SMOOTHING OVER 3 TRACES HORIZONTALLY AND 3 SAMPLES VERTICALLY

23 DISPLAY
- TRACES PER INCH: 102
- VERTICAL SCALE: .6 INCHES / SEC
- DISPLAY DATE: APRIL 4, 1988



Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey