DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Open-File Report 88-386

PLATE 4

GLIMPCE 1986

UNITED STATES GEOLOGICAL SURVEY
&
GEOLOGICAL SURVEY OF CANADA

LAKE SUPERIOR
LINE: F
FINAL STACK

SOUTHWEST

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

RECORDING PARAMETERS

RECORDED BY:	G.S.I.	DATE RECORDED:	1-5-1987
VESSEL:	M.V. FRED A. MONTSH	PROJ. #:	1986
MAINWAY NAV.:	GPS/DGPS	SECONDARY NAV.:	LORAN
	DEPTH:		PAGE RANGE
INSTRUMENT TYPE:	DIGITAL	SAMPLE RATE:	1 MS
BLDG. AUTOMATIC:	8 BIT GAIN	GAIN SPACING:	6 DB
BASIC LOCAL:	8 BIT GAIN	GAIN SPACING:	6 DB
TOW DEPTH:	1 TO 2 MS	TOW DEPTH:	1 TO 2 MS
NO. OF CHANNELS:	1	FIRING DELAY:	1.2 MS

SOURCE INTERVAL:

20.0 M FOR SHOTPOINTS 1 - 1000	20.0 M FOR SHOTPOINTS 1 - 1000	20.0 M FOR SHOTPOINTS 1 - 1000	20.0 M FOR SHOTPOINTS 1 - 1000
20.0 M FOR SHOTPOINTS 1000 - 2000	20.0 M FOR SHOTPOINTS 1000 - 2000	20.0 M FOR SHOTPOINTS 1000 - 2000	20.0 M FOR SHOTPOINTS 1000 - 2000

RECORD LENGTH: 20 SECONDS TRACE INTERVAL: 25.0 METERS

RECORD FILTER:		CABLE TYPE:	1 TO 2 MS
LOW:	5.0 HZ	FOLD:	1 TO 2 MS
HIGH:	10 HZ	FOLD:	1 TO 2 MS
SLOPE:	20 DB/OCTAVE	FOLD:	1 TO 2 MS
SLOPE:	20 DB/OCTAVE	NEAR TRACE #:	1 TO 2 MS
SLOPE:	20 DB/OCTAVE		
60 HZ NOTCH:	20 DB/OCTAVE		

FOLD:

20 FOR SHOTPOINTS 1 - 1000	20 FOR SHOTPOINTS 1 - 1000	20 FOR SHOTPOINTS 1 - 1000	20 FOR SHOTPOINTS 1 - 1000
20 FOR SHOTPOINTS 1000 - 2000	20 FOR SHOTPOINTS 1000 - 2000	20 FOR SHOTPOINTS 1000 - 2000	20 FOR SHOTPOINTS 1000 - 2000

SPHERE CONFIGURATION:

TR 1	38 100	SOURCE	SHOT ANTENNA
	2975 M		

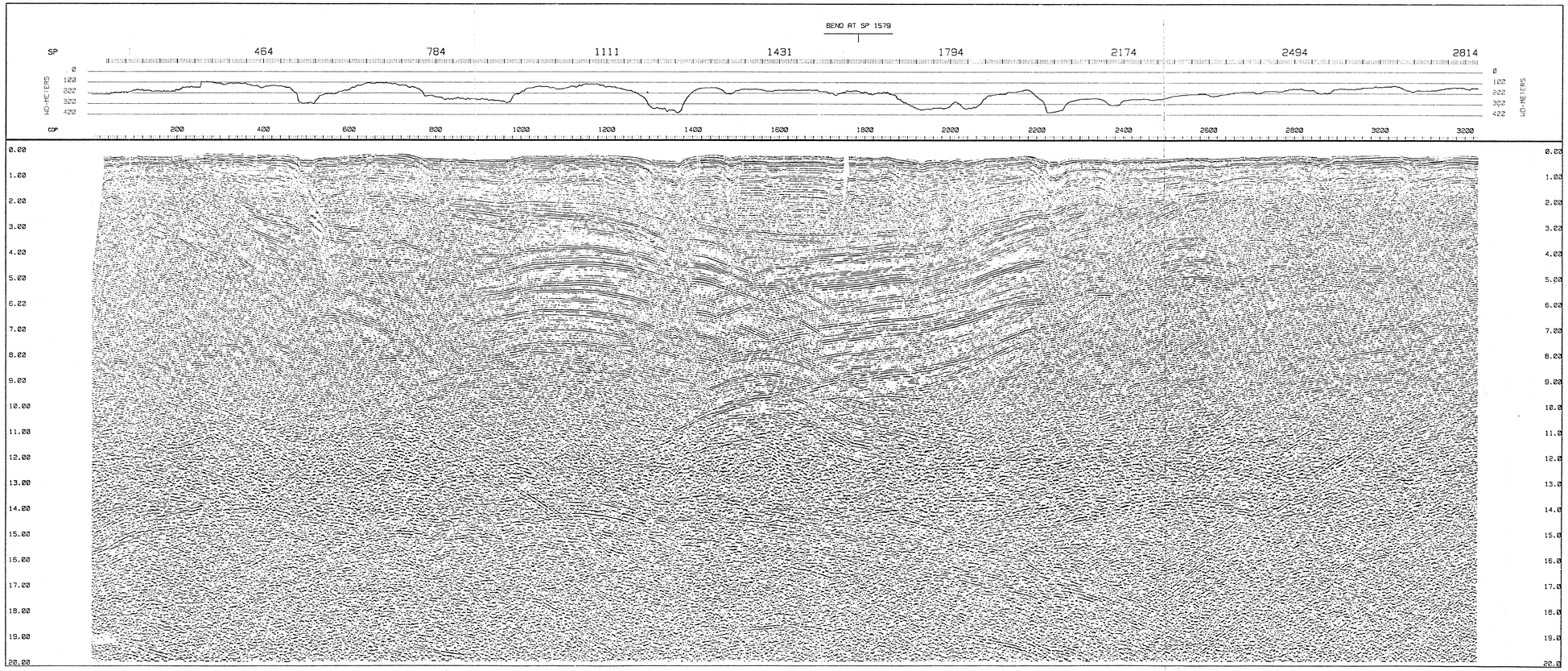
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1

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 COP SORT 30 & 24 FOLD
(SEE "RECORDING PARAMETERS" ABOVE)
8,18 AUTOMATIC GAIN CONTROL
GATE LENGTH: 1000 MS
9,11 VELOCITY ANALYSIS
10 PRELIMINARY STACK
12 MULTIPLE SUPPRESSION IN COP DOMAIN
CORR. VEL.: 1700 MPS
APPL. GATE: 300 - 5000 MS
13 NORMAL MOVEOUT CORRECTION
14 FIRST BREAK NOISE SUPPRESSION (MUTE)
15 PRE-STACK DECONVOLUTION
TYPE: SPIKING
16 STACK 30 & 24 FOLD
(SEE "RECORDING PARAMETERS" ABOVE)
17 BANDPASS FILTER

TIME:	BANDPASS:
0 - 2000 MS	4/8 - 30/36
5000 - 8000 MS	4/8 - 28/31
12000 - 20000 MS	5/5 - 25/30

18 POST-STACK DECONVOLUTION
TYPE: 2ND ZERO CROSS.
20 VERTICAL SUM (4 TO 1)
21 AUTOMATIC GAIN CONTROL
GATE LENGTH: 2500 MS
22 POST STACK AMPLITUDE MODULATION
TWO-DIMENSIONAL SMOOTHING OVER
3 TRACES HORIZONTALLY AND 3 SAMPLES
VERTICALLY
23 DISPLAY
TRACES PER INCH: 100
VERTICAL SCALE: 1.8 INCHES / SEC
DISPLAY DATE: APRIL 4, 1988



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