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.C.	DATE RECORDED:	3-26-SEPT-1986
RECORDED FOR:	CONOCO & RONICH	PRIM. NAV.:	LORAN C
PRIMARY NAV.:	LORAN	SECONDARY NAV.:	LORAN C
	SP/SRANK/GYRO		RANGE/RANGE
INSTRUMENT TYPE:	24 SUR. SERRAYS	SAMPLE RATE:	2 MILLISECONDS
NUMBER OF STREAMERS:	24 SUR. SERRAYS	SHOT/RECEIVING DEPTH:	7.5 METERS
SHOT ALTITUDE:	90 METERS	FILE FORM:	SEG
TOTAL ZOND VOL.:	1700 CU. INCHES	FILTERING:	NONE
FIRST CHANNEL:	1 (TRANS BY)	FIRST SAMPLE:	512.0 MS
NO. OF CHANNELS:	192		

SOURCE INTERVAL:

ROW 1 FOR SHOTPOINTS 100 - 1000	ROW 2 FOR SHOTPOINTS 1001 - 1999
ROW 3 FOR SHOTPOINTS 2000 - 2999	ROW 4 FOR SHOTPOINTS 3000 - 3999
ROW 5 FOR SHOTPOINTS 4000 - 4999	ROW 6 FOR SHOTPOINTS 5000 - 5999

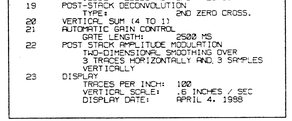
RECORD LENGTH: 20 SECONDS TRACE INTERVAL: 25.0 METERS

RECORD FILTER:		DEVICE TYPE:	AIR GUNS
LOW:	5.3 HZ	POSITIONING:	LORAN C
SLOPE:	18 DB/OCTAVE	SHOT SPACING AT:	100 METERS
HIGH:	70 HZ	NOISE TRACE AT:	100 METERS
SLOPE:	72 DB/OCTAVE	NOISE TRACE AT:	100 METERS
60 HZ NOTCH:	OUT		

FOLD:

ROW 1 FOR SHOTPOINTS 100 - 1000	ROW 2 FOR SHOTPOINTS 1001 - 1999
ROW 3 FOR SHOTPOINTS 2000 - 2999	ROW 4 FOR SHOTPOINTS 3000 - 3999
ROW 5 FOR SHOTPOINTS 4000 - 4999	ROW 6 FOR SHOTPOINTS 5000 - 5943

SPREAD CONFIGURATION:

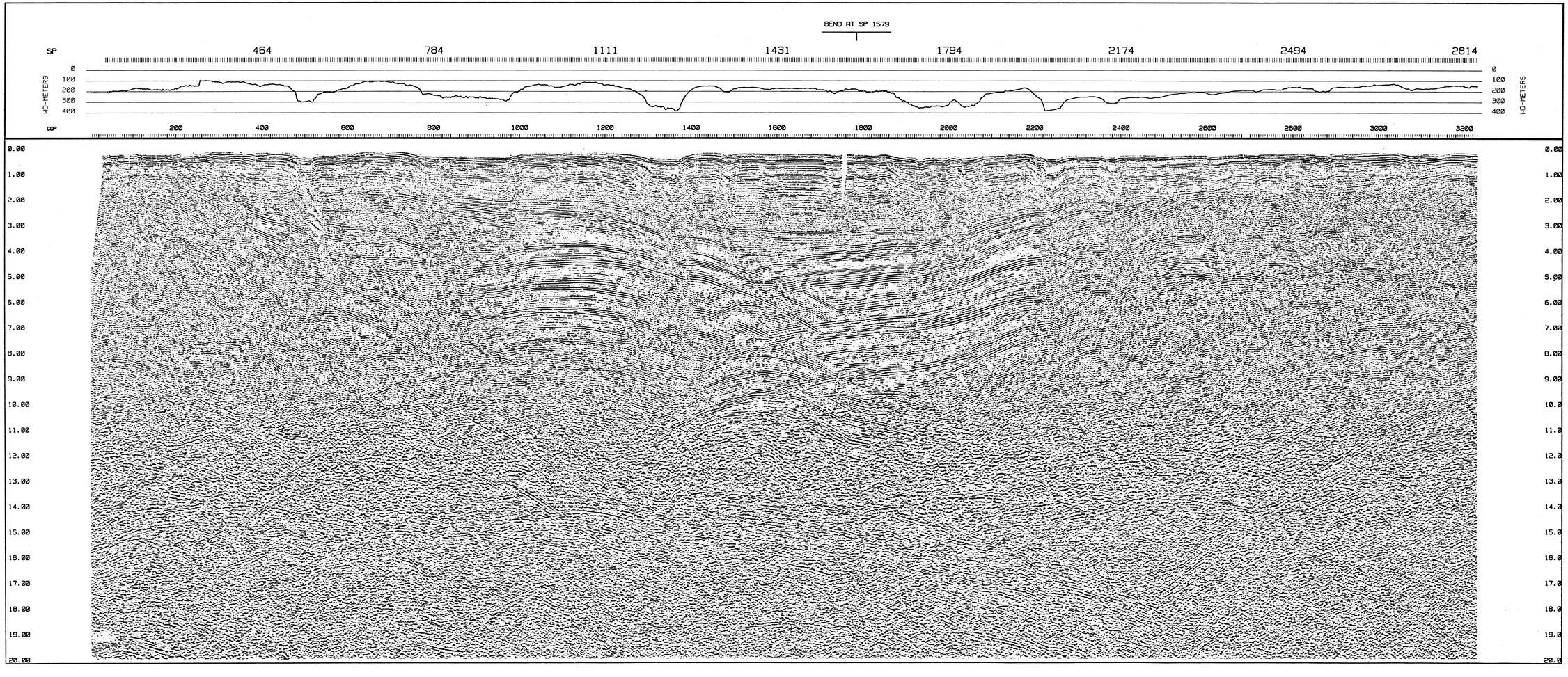


PROCESSING SEQUENCE

1 DEMULTIPLEX
2-3 RECORDING GAIN REMOVAL
4 GEOMETRY DEFINITION
5 TRACE EDITING
6-7 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 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 CDP DOMAIN
CORR. VEL.: 1700 M/S
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
2000 - 8000 MS	4/8 - 28/31
12000 - 20000 MS	3/5 - 25/30

19 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: .8 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