DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

GLIMPCE 1986

UNITED STATES GEOLOGICAL SURVEY
&
GEOLOGICAL SURVEY OF CANADA

LAKE SUPERIOR
LINE: A
FINAL STACK

SOUTH

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

RECORDING PARAMETERS

RECORDED BY:	G.S.I.	DATE RECORDED:	9/10-SEPT-1986
VESSEL:	M/V FRED J. AGNICH	PARTY #:	2995
PRIMARY NAV.:	GEONAV SAT/SONAR/GYRO	SECONDARY NAV.:	LORAN C RANGE/RANGE
INSTRUMENT TYPE:	DFS-V	SAMPLE RATE:	4.0 MS
# OF GUN ARRAYS:	6 SUB ARRAYS	GUN OPERATING DEPTH:	6 METERS
ARRAY WIDTH:	80 METERS	# OF GUNS:	50
TOT. GUN VOL.:	7780 CU. INCHES	TYPE GAIN:	PGC
TAPE FORMAT:	SEG-B 1600 BPI	FIRING DELAY:	51.2 MS
NO. OF CHANNELS:	120	SOURCE INTERVAL:	50.0 METERS FOR SP 101 - 2289; 62.5 METERS FOR SP 2290 - 3844
RECORD LENGTH:	20 SECONDS	TRACE INTERVAL:	25.0 METERS
RECORD FILTER:		CABLE TYPE:	120T COLD
LOCUT:	5.3 HZ.	POSITIONING:	SAT/SONAR
SLOPE:	18 DB/OCTAVE	LINE STARTS AT:	SOUTH
HICUT:	64 HZ.	NEAR TRACE #:	120
SLOPE:	72 DB/OCTAVE	FOLD:	30 FOR SP 101 - 2289; 24 FOR SP 2290 - 3844
60 HZ NOTCH:	OUT		

SPREAD CONFIGURATION:

TR 1 — TR 120 — SOURCE — SHIP ANTENNA
<— 2975 M —> <- 232 M -> <— 73 M —>

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 30 & 24 FOLD
  (SEE "PROCESSING 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: 0 - 3000 MS
13 NORMAL MOVEOUT CORRECTION
14 FIRST BREAK NOISE SUPPRESSION (MUTE)
15 PRE-STACK DECONVOLUTION
  TYPE: SPIKING
16 STACK 30 & 24 FOLD
  (SEE "PROCESSING PARAMETERS" ABOVE)
17 BANDPASS FILTER

TIME:	BANDPASS:
0 - 2000 MS	4/8 - 30/36
5000 - 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
23 DISPLAY
  TRACES PER INCH: 100
  VERTICAL SCALE: .6 INCHES / SEC
  DISPLAY DATE: APRIL 5, 1988

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PLATE 1

Any use of trade names is for descriptive
purposes only and does not imply