

GLIMPCE 1986

UNITED STATES GEOLOGICAL SURVEY

&

GEOLOGICAL SURVEY OF CANADA

LAKE SUPERIOR
LINE: B
FINAL STACK

SOUTHEAST

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

RECORDING PARAMETERS

RECORDED BY:	C.S.I.	DATE RECORDED:	6/7-SEPT-1986
LOCATION:	MARSHAL J. RONICH	SHOTTY #:	2025
PRIMARY NAV. #:	GEORRY	SECONDARY NAV. #:	LORAN C
INSTRUMENT TYPE:	DIGITAL SONAR/GYRO	SAMPLE RATE:	4.0-4.75
# OF GUN ARRAYS:	6 SUB ARRAYS	GUN OPERATING DEPTH:	6 METERS
TYPE OF GUN:	7700 CU. INCHES	TYPE GATE:	51.2 MS
TOTAL GUN VOL. I:	562.8 1600 BPI	TYPE GATELAY:	PSC
NO. OF CHANNELS:	20 CHANNELS	SOURCE INTERVAL:	51.2 MS
RECORD LENGTH:	20 SECONDS	TRACE INTERVAL:	25.0 METERS
RECORD FILTER:	5.3 Hz	CABLE TYPE:	1201 COLD
SLOPE:	18 dB/OCTAVE	POWER SOURCE:	SHIP POWER
HICUT:	64 Hz OCTAVE	LINE STARTS AT:	NORTHWEST
60 Hz NOTCH:	70 Hz	NEAR TRACE #:	1200
		FOLD:	30
SPREAD CONFIGURATION:			
TR 1	TR 1200	SOURCE	SHIP ANTENNA

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 FOLD
- 8, 18 AUTOMATIC GAIN CONTROL
 - GATE LENGTH: 1000 MS
- 9, 11 VELOCITY ANALYSIS
- 10 MULTIPLE SUPPRESSION IN CDP DOMAIN
 - CORR. VEL.: 1700 M/S
 - APPL. GATE: 300 - 3000 MS
- 12 NORMAL MOVEOUT CORRECTION
- 13 FIRST BREAK NOISE SUPPRESSION (MUTE)
- 14 PRE-STACK DECONVOLUTION
 - TYPE: SPIKING
 - OPERATOR LENGTH: 59 POINTS
 - TIME WINDOW: 0 - 4000
- 15
 - TYPE: SPIKING
 - OPERATOR LENGTH: 59 POINTS
 - TIME WINDOW: 3000 - 12000
- 16 STACK 30 FOLD
- 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
- 18 POST-STACK DECONVOLUTION
 - TYPE: 2ND ZERO CROSS.
 - OPERATOR LENGTH: 53 POINTS
 - TIME WINDOW: 0 - 5000
- 19
 - TYPE: 2ND ZERO CROSS.
 - OPERATOR LENGTH: 53 POINTS
 - TIME WINDOW: 6000 - 20000
- 20 VERTICAL SUM (4 TO 1)
- 21 AUTOMATIC GAIN CONTROL
 - GATE LENGTH: 2500 MS
- 22 POST STACK AMPLITUDE MODULATION
 - THREE-DIMENSIONAL SMOOTHING OVER 3 TRACES HORIZONTALLY AND 3 SAMPLES VERTICALLY
- 23 DISPLAY
 - TRACES PER INCH: 100
 - VERTICAL SCALE: .5 INCHES / SEC
 - DISPLAY DATE: APRIL 4, 1986

