DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Open-File Report 88-386

PLATE 7

GLIMPCE 1986

UNITED STATES GEOLOGICAL SURVEY

&

GEOLOGICAL SURVEY OF CANADA

LAKE HURON
LINE: I
FINAL STACK

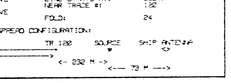
SOUTH

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

RECORDING PARAMETERS

RECORDED BY:	G.S.C.	DATE RECORDED:	20/21-SEPT-1986
VESSEL:	CAPT. FRED J. ADNISH	PARTY #:	2006
PRIMARY NAV.:	GPS	SECONDARY NAV.:	LORAN - C
			PHASE/RANGE
INSTRUMENT TYPE:	G.S.C.	SAMPLE RATE:	4 MS
SLOW GUN ARRAYS:	SLOW ARRAYS	SHOT DOWNHOLE DEPTH:	10 METERS
ARRAY WIDTH:	80 METERS	TUBE DEPTH:	5M
TOW DEPTH:	10 METERS	TUBE GAIN:	0DB
TOW PARAMETER:	5 METERS	FILTER DELAY:	0 MS
NO. OF CHANNELS:	120 (1ST 120 SP)	SOURCE INTERVAL:	20.0 METERS
RECORD LENGTH:	20 SECONDS	TRACE INTERVAL:	20.0 METERS
RECORD FILTER:	G.S.C. 3D	CABLE TYPE:	DEPT COLC
LOGIC:	IN 3D/OCTAVE	POSITIONING:	LORAN/GPS
SLOPE:	18 DB/OCTAVE	LINE STARTS AT:	SOUTH
HIGH:	60 HZ	NEAR TRACE #:	120
SLOPE:	72 DB/OCTAVE		
60 HZ NOTCH:	OUT	FOLD:	24

SPREAD CONFIGURATION:

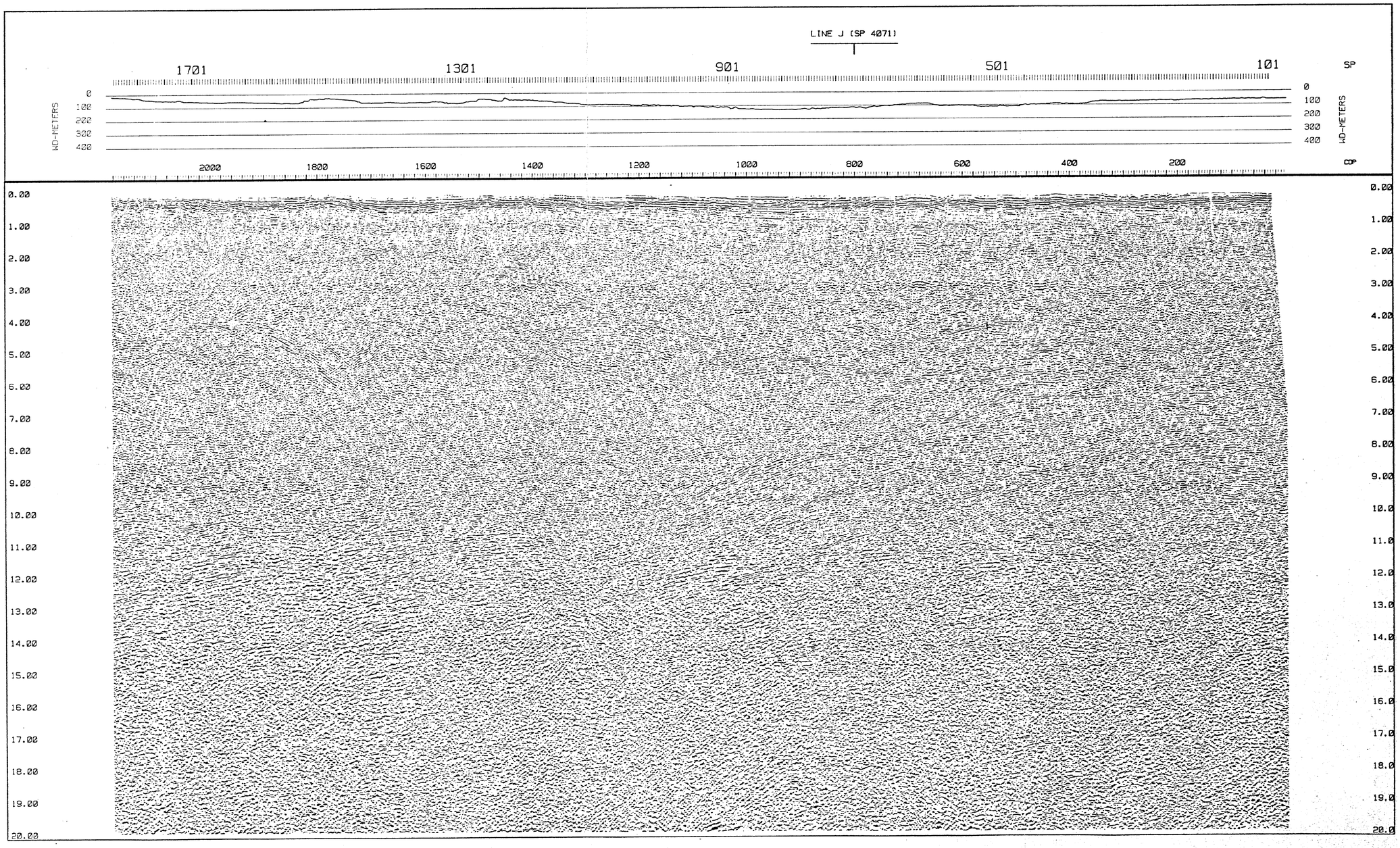


PROCESSING SEQUENCE

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: 1000 MS
9.11 VELOCITY ANALYSIS
10 PRELIMINARY STACK
12 MULTIPLE SUPPRESSION IN CDP DOMAIN
  CORR. VEL.: 1700 M/S
  APPL. GATE: 900 - 3200 MS
13 NORMAL MOVEOUT CORRECTION
14 FIRST BREAK NOISE SUPPRESSION (MUTE)
15 PRE-STACK DECONVOLUTION
  TYPE: SPIKING
  OPERATOR LENGTH: 59 POINTS
  TIME WINDOW: 0 - 4000
  TYPE: SPIKING
  OPERATOR LENGTH: 59 POINTS
  TIME WINDOW: 4000 - 10000
  TYPE: SPIKING
  OPERATOR LENGTH: 59 POINTS
  TIME WINDOW: 10000 - 20000
16 STACK 24 FOLD
17 BANDPASS FILTER

TIME:	BANDPASS:
0 - 2000 MS	4/8 - 32/36
5000 - 6000 MS	4/8 - 28/32
18000 - 20000 MS	3/6 - 25/32

18 POST-STACK DECONVOLUTION
  TYPE: END ZERO CROSS.
  OPERATOR LENGTH: 59 POINTS
  TIME WINDOW: 0 - 6000
  TYPE: END ZERO CROSS.
  OPERATOR LENGTH: 59 POINTS
  TIME WINDOW: 6000 - 20000
20 VERTICAL S/N (4 TO 1)
21 AUTOMATIC GAIN CONTROL
  GATE LENGTH: 2000 MS
22 POST STACK AMPLITUDE MODIFICATION
  THREE-DIMENSIONAL SMOOTHING OVER
  3 TRACES HORIZONTALLY AND 3 SAMPLES
  VERTICALLY
23 DISPLAY
  TRACES PER INCH: 100
  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