LINE 21

DEPT. OF THE INTERIOR
U. S. GEOLOGICAL SURVEY
PACIFIC-ARCTIC BRANCH OF MARINE GEOLOGY

AREA: BS - 1980 CRUISE LOCATOR: LEE-6
VESSEL: S. P. LEE
CMP'S: 15 1399
NE

RECORDING PARAMETERS

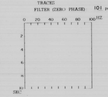
DATE RECORDED: 7/18/80 - 7/27/80
SOURCE (SCRT AIR-GUN):
AIR-GUNS IN ARRAY: 5
NET TOTAL VOLUME: 19.68 LITERS
MANIFOLD PRESSURE: 15.5 MPA
GUN DEPTH: 8.5 M SHOT SPACING: 50 M
STREAMER (SR) MULTISTRING:

CENTER END TRACE — CENTER NEAR TRACE — SOURCE — 282* — 28 M

GROUP INTERVAL: 100 M AVER STR DEPTH: 12 M
GROUP LENGTH: 100 M FRONTS/GROUP: 50
DEPTH CONTROLLED BY FIXED AND VARIABLE WING BIRDS)
RECORDING (SCRT HIGH NON) BINARY GAIN:
SAMPLE INTERVAL: 2 MS RECORD LENGTH: 10 SEC
(SCRT RECORDING FILTER: 5 [illegible] - 150 [illegible] HZ
NUMBER OF CHANNELS: 24
NAVIGATION:
SHOT ON: DISTANCE
PRIMARY NAVIGATION: SATELLITE, LORAN C, DOPPLER
SONAR
DIRECTION RECORDED: 260*

PROCESSING PARAMETERS

DATE PROCESSED: 12/13/82
1 (SEMI) TO TRACE EDIT, DEL. DESAMPLE TO 4 MSEC
TRACE SHOT SCRT, (BITOM TO SEA LEVEL,
MANUALLY PICKED MUTE TIMES
2 CMP SORT FOR VELOCITY ANALYSIS
3 VELOCITY SPECTRA
WINDOW LENGTH: 60 MS
WINDOW INTERVAL: 60 MS
VELOC INCREMENT: 25/200 M/SEC
4 NMO CORRECTED GATHERS
5 STACK: 21 FOLD SUM
(V + x + T (GAIN RECOVERY, TRUE AMPLITUDE)
50 % STRETCH ALLOWED IN NMO
6 FILTER (RECOM TEST)
7 DECON (SEE PARAMETERS):
PREDICTION ERROR (RECORDED)FILTER:
DESIGN WINDOW LEN: 3000 MS
START OF WINDOW (I): 300 MS AFTER MUTE
OPERATOR LENGTH: 300 MS) GAP: 60 MS
MCE:
TRACE)
FILTER (ZERO PHASE): 101 POINTS)

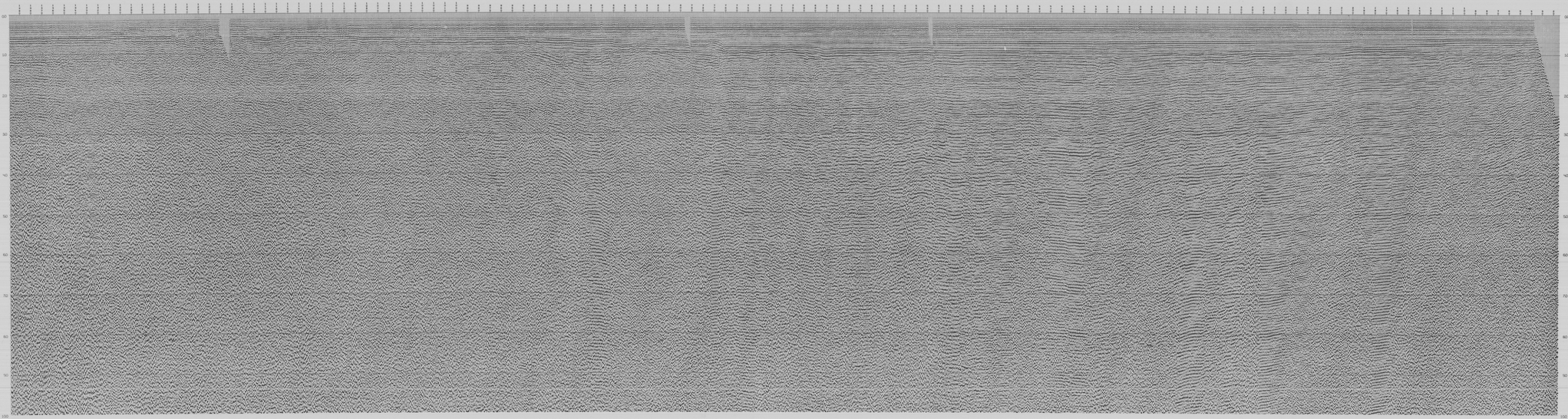


AMPLITUDE (S-BITRECTION: POWER OF DATA
RESAMPLE BY FIFT: MS TO: MS
MIGRATION (SECOND ORDER FINITE DIFFERENCE)
TIME-DEPTH (TSF): MS
NUMERICAL SUM-VERT (OF FILTERING)
VELOCITIES: EVERY 50 CMP STARTING WITH CMP 47
DEFLECTIONS TO RIGHT AXIS: + PRESSURES

PLOT PARAMETERS

HORIZ-NTAL SCALE: 22.86 TRACES/IN
VERTICAL SCALE: 1.56 IN/SEC
RASTER POINTS) BETWEEN TRACES: 7
(: 0 TRACE OVERLAP)
RASTERS FOR AVE. ABSOLUTE VALUE OF DATA
IN DIGITAL ACC WINDOW: 2.40
DIGITAL ACC WINDOW: 604 MS

ANY USE OF TRADE NAMES IS FOR DESCRIPTIVE PURPOSES ONLY AND DOES NOT IMPLY ENDORSEMENT BY THE U.S. GEOLOGICAL SURVEY
USGS OPEN FILE REPORT: 82-1090 AUTHOR: M.S. MARLOW, A.K. COOPER, G.L. SMITH, and T.E. CHASE



*** FILE 21 ***
REV/DESCRIPTION