036
252

LINE 20

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 - 1462

NW

RECORDING PARAMETERS

DATE RECORDED 7/16/80 - 7/27/80

SOURCE (BOLT AIR GUNS)

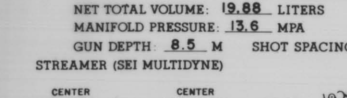
AIR GUNS IN ARRAY: 5

NET TOTAL VOLUME: 19.88 LITERS

MANIFOLD PRESSURE: 13.6 MPA

GUN DEPTH: 8.5 M SHOT SPACING: 50 M

STREAMER (SEI MULTIDYNE)



GROUP INTERVAL: 100 M AVER. STR. DEPTH: 12 M

GROUP LENGTH: 100 M PHONES/GROUP: 60

(DEPTH CONTROLLED BY FIXED AND VARIABLE WING BIRDS)

RECORDING (GUS HDDR 4200, BINARY GAIN)

SAMPLE INTERVAL: 2 MS. RECORD LENGTH 10 SEC.

GUS RECORDING FILTER: 5 (24db/oct) - 110 (42db/oct) HZ.

NUMBER OF CHANNELS: 24

NAVIGATION

SHOT ON: DISTANCE

PRIMARY NAVIGATION: SATELLITE, LORAN C, DOPPLER SONAR

DIRECTION RECORDED: 170°

PROCESSING PARAMETERS

DATE PROCESSED 12/13/82

1 DEMUX TO 9 TRACK 1600 BPI, DESAMPLE TO 4 MSEC
TRACE SHOT EDIT; DATUM 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

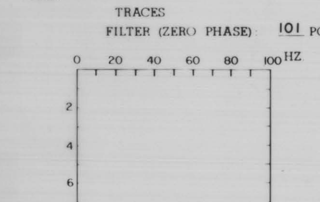
4 NMO CORRECTED GATHERS

5 STACK: 21 FOLD SUM
(V * * 2 * T GAIN RECOVERY; TRUE AMPLITUDE)
30 % STRETCH ALLOWED IN NMO

6 FILTER DECON TESTS

7 POST STACK PROCESSING
PREDICTION ERROR DECONVOLUTION:
DESIGN WINDOW LEN. 3000 MS
START OF WINDOW IS 300 MS AFTER MUTE
OPERATOR LENGTH 300 MS GAP: 60 MS

MIX:
TRACES
FILTER (ZERO PHASE): 101 POINTS



AMPLITUDE COMPRESSION POWER OF DATA ____

RESAMPLE BY FFT ____ MS TO ____ MS

MIGRATION (HIGH ORDER FINITE DIFFERENCE)

TIME-DEPTH STEP ____ MS

NUMERICAL VISCOSITY (DIP FILTERING) ____

VELOCITIES EVERY 50 CMP STARTING WITH CMP 47

DEFLECTIONS TO RIGHT ARE + PRESSURES

PLOT PARAMETERS

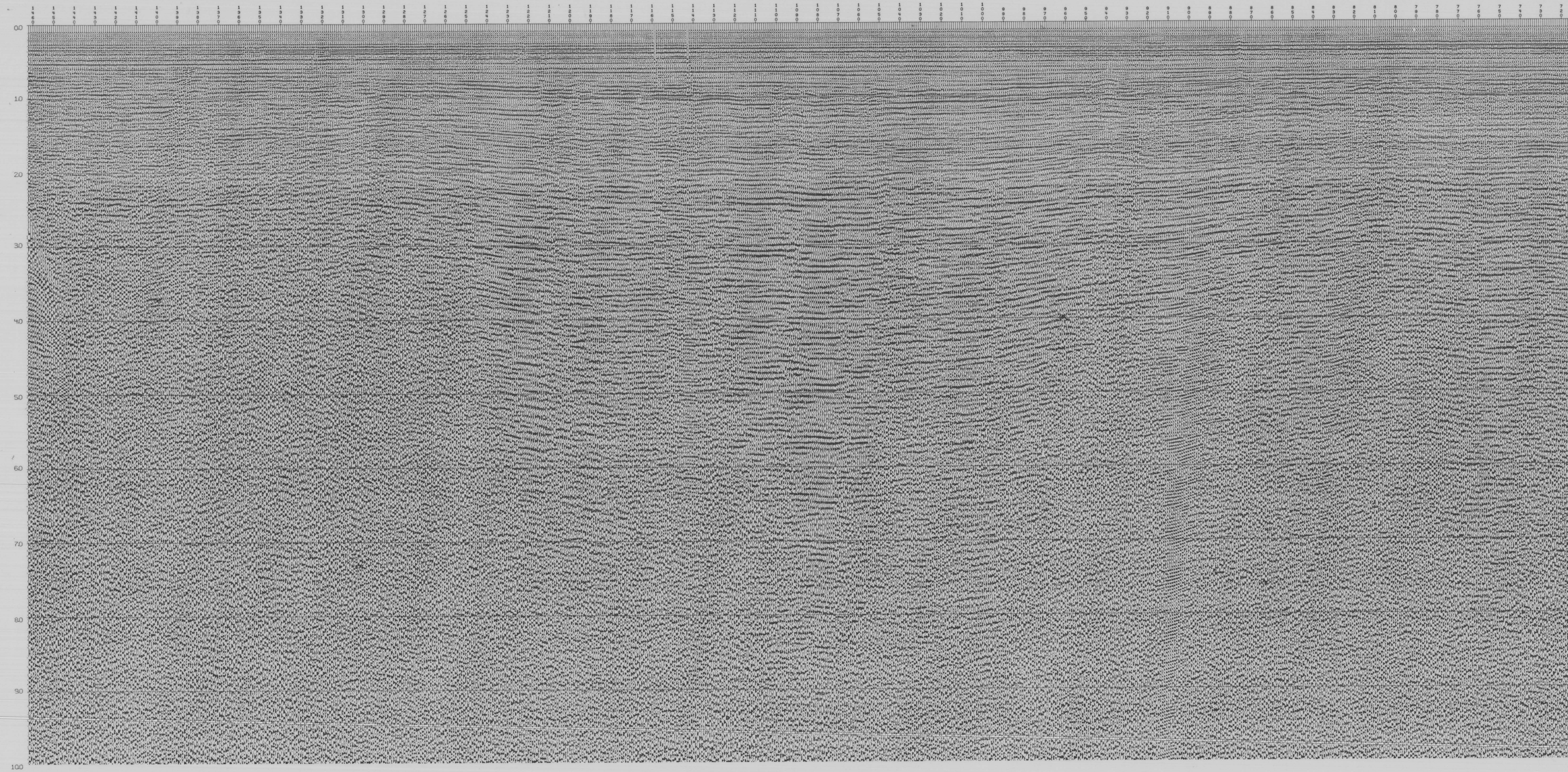
HORIZONTAL SCALE 22.86 TRACES/IN

VERTICAL SCALE 1.56 IN/SEC

RASTER POINTS BETWEEN TRACES: 7

(0 TRACE OVERLAP)

RASTERS FOR AVE. ABSOLUTE VALUE OF DATA
IN DIGITAL AGC WINDOW: 2.45
DIGITAL AGC WINDOW 604 MS.

ANY USE OF TRADE NAMES IS FOR DESCRIPTIVE PURPOSES ONLY AND DOES NOT CONSTITUTE ENDORSEMENT OF THESE PRODUCTS BY THE U S GEOLOGICAL SURVEY

USGS OPEN FILE REPORT: 82-1090
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