LINE 9A

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

CMPS: 342 - 1224

SE

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 13.8 MPA

GUN DEPTH 8.5 M SHOT SPACING 50 M

STREAMER (SEI MULTIDYNE)

CENTER FAR TRACE — CENTER NEAR TRACE — SOURCE

292m — 38 m

1606m

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 (GSS HDDR 4200, BINARY GAIN)

SAMPLE INTERVAL 2 MS RECORD LENGTH 10 SEC

GSS 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 309°

PROCESSING PARAMETERS

DATE PROCESSED 12/13/82

1 DEMUX TO 9 TRACE 800 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 = V + 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:

TRACKS

FILTER (ZERO PHASE) 101 POINTS

0 20 40 60 80 100 HZ

2 4 6 8 10 SEC

AMPLITUDE COMPRESSION POWER OF DATA

RESAMPLE BY FFT MS TO MS

MIGRATION (HIGH ORDER FINITE DIFFERENCE)

TIME-DEPTH STEP MS

NUMERICAL VISCOSITY (USE 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

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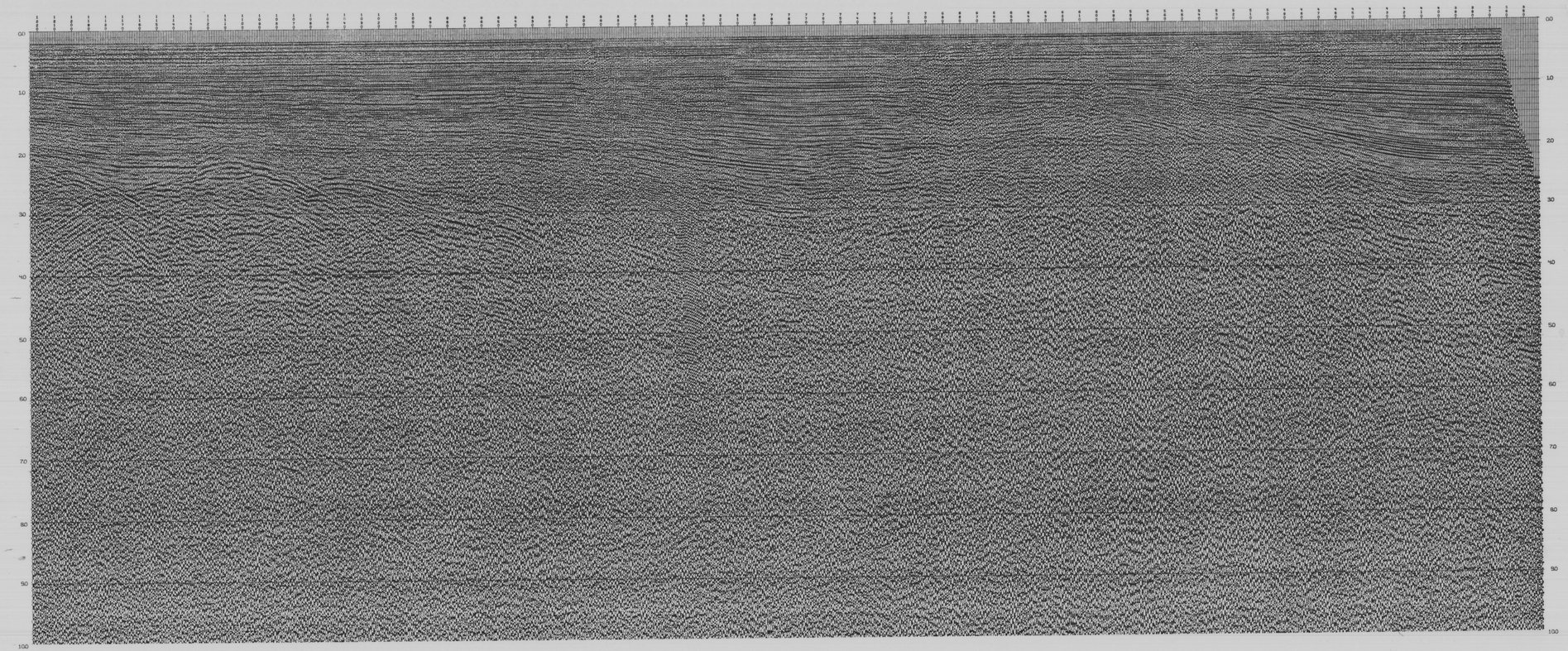

*** FFRILOT ***

CRUISE: USGS/LEE80BS80/7/E6
REEL: 1
FILE: 9
DATE: 12/27/82
TIME: 12:21
INTERVAL: 2
INTEGER DATA
BY: 24
DTL: 2004
ACL: 2.45
RNG: 2.4E6
ISI: 342