LINE 13

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: 28 - 5164

NE

RECORDING PARAMETERS

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

SOURCE (BOLT AIR GUNS)

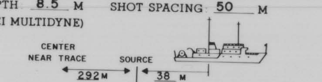
AIR GUNS IN ARRAY: 5

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: 040°

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

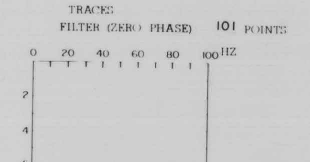
4 NMO CORRECTED GATHERS

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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