TP40
06050036
06000252

LINE 17

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: 16 - 5348

NE

RECORDING PARAMETERS

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

SOURCE (BOLT AIR GUNS)

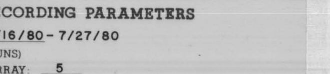
AIR GUNS IN ARRAY: 5

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: 038°

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

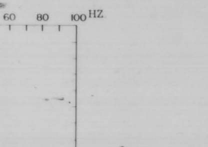
4 NMO CORRECTED GATHERS

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 AUTHOR: M.S. MARLOW, A.K. COOPER, G.L. SMITH, and T.E. CHASE