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LINE 16

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 - 2433

→ 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)

CENTER FAR TRACE — CENTER NEAR TRACE — SOURCE

2606 M — 292 M — 38 M

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 140°

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

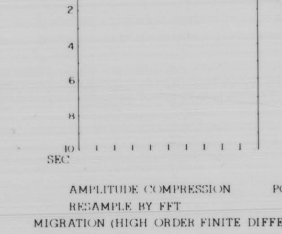
5 STACK 21 FOLD SUM
(V * * 2 * T GAIN RECOVERY, TRUE AMPLITUDE)
30 % STRETCH ALLOWED IN NMO

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

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