06050048
06000265

TP 35

LINE 907

DEPT. OF THE INTERIOR
U. S. GEOLOGICAL SURVEY
PACIFIC-ARCTIC BRANCH OF MARINE GEOLOGY

AREA: California CRUISE LOCATOR: Lee-4-1979

VESSEL: S. P. LEE

CMP'S: 14 - 262

SE

RECORDING PARAMETERS

DATE RECORDED 11/79

SOURCE (BOLT AIR GUNS)

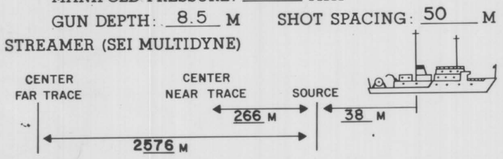
AIR GUNS IN ARRAY: 5

NET TOTAL VOLUME: 21.73 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 8 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: SE

PROCESSING PARAMETERS

DATE PROCESSED: 8/80

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: 14 MS
WINDOW INTERVAL: 8 MS
VELOC. INCREMENT: 25/200 M/SEC

4 NMO CORRECTED GATHERS

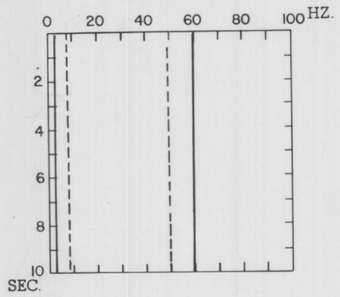
5 STACK: 24 FOLD SUM
(V * * 2 * T GAIN RECOVERY; TRUE AMPLITUDE)
30 % STRETCH ALLOWED IN NMO

6 FILTER DECON TESTS

7 POST STACK PROCESSING:
PREDICTION ERROR DECONVOLUTION:
DESIGN WINDOW LEN.: 3000MS
START OF WINDOW IS: 500 MS AFTER MUTE
OPERATOR LENGTH: 300 MS GAP: 32 MS

MIX:
____ TRACES

BANDPASS FILTER (ZERO PHASE): 101 POINTS



AMPLITUDE COMPRESSION: POWER OF DATA: .90

RESAMPLE BY FFT: ____ MS TO ____ MS

____ MIGRATION (HIGH ORDER FINITE DIFFERENCE)

TIME-DEPTH STEP: ____ MS

NUMERICAL VISCOSITY (DIP FILTERING): ____

VELOCITIES: ____

DEFLECTIONS TO RIGHT ARE + PRESSURES

PLOT PARAMETERS

HORIZONTAL SCALE: 22.86 TRACES/IN.

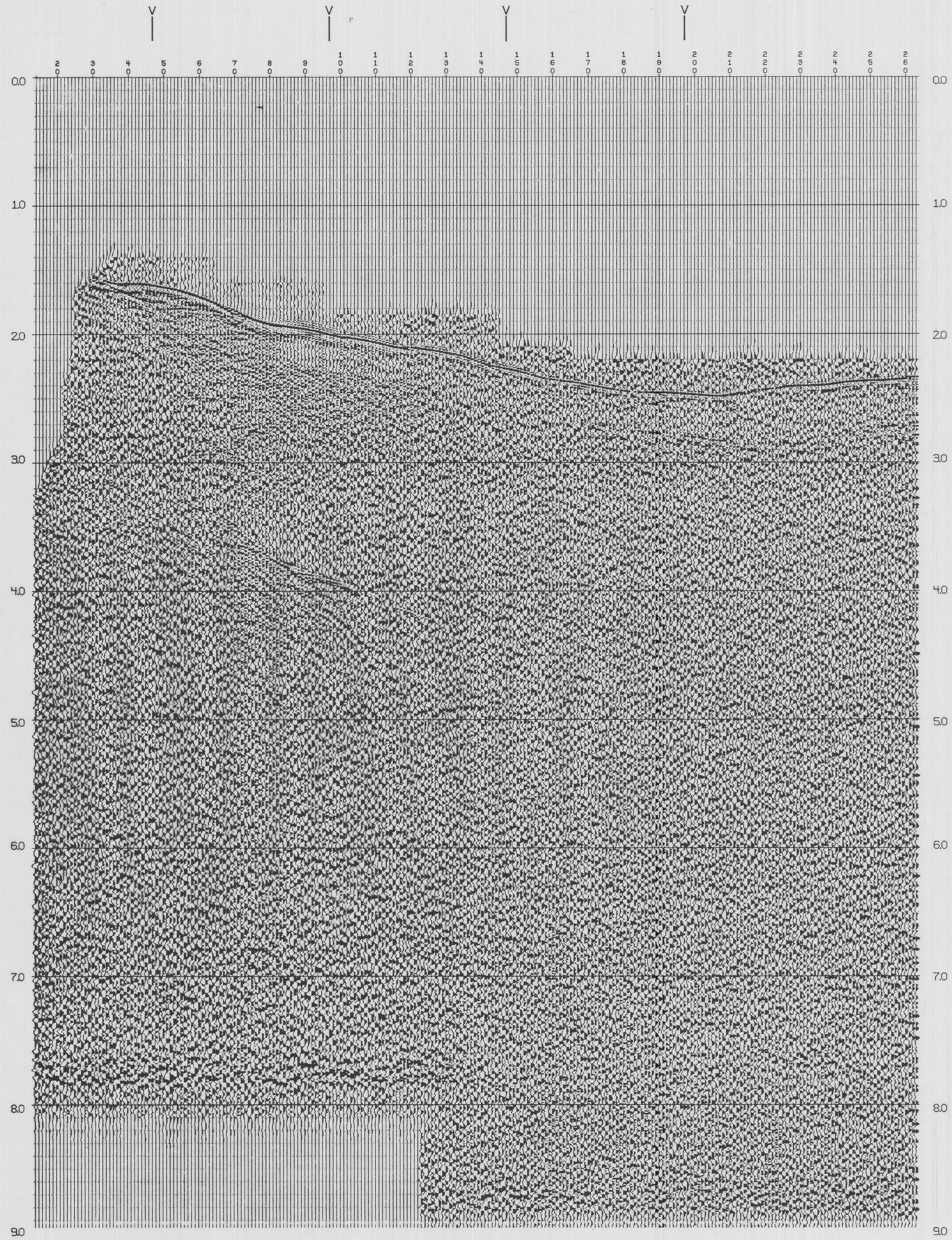
VERTICAL SCALE: 1.56 IN/SEC.

RASTER POINTS BETWEEN TRACES: 7

(0 TRACE OVERLAP)

RASTERS FOR AVE. ABSOLUTE VALUE OF DATA
IN DIGITAL AGC WINDOW: 2.45
DIGITAL AGC WINDOW: 800 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: 83-593

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James K. Crouch