06050048
06000045 TF35

LINE 804

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

AREA: California CRUISE LOCATION: Lee-4-1979
VESSEL: S.P.LEE
CRPT: 15 1762
NE

RECORDING PARAMETERS

DATE RECORDED: 1/79
SOURCE (BOLT AIR GUNS)
NO. OF SUBARRAYS: 5
BOLT TOTAL VOLUME: 2.73 LITERS
MANIFOLD PRESSURE: 13.5 MPA
GUN DEPTH: 8.5 M SHOT SPACING: 50 M
STREAMER (SE) MULTISTAGE

SENSOR PER TRACE	SENSOR PER TRACE	SENSOR	SPACING	SENSOR
		38 M		38 M

HYDROPHONE

GROUP INTERVAL: 100 M AVER. STR. DEPTH: 12 M
GROUP LENGTH: 100 M FRONTS/GROUP: 80
DEPTH CONTROLLED BY FIXED AND VARIABLE WING BIRDS
RECORDING GEOS RIGH 4096, NORAT GAIN
SAMPLE INTERVAL: 2 MS RECORD LENGTH: 8 SEC
GEO RECORDING FILTER: 3 (7Hz/Hz) - 80 (80Hz/Hz) HZ
NUMBER OF CHANNELS: 24
NAVIGATION
SHOT ON: DISTANCE
PRIMARY NAVIGATION: SATELLITE, LORAN C, DOPPLER
ZONES:
DIRECTION RECORDED: NE

PROCESSING PARAMETERS

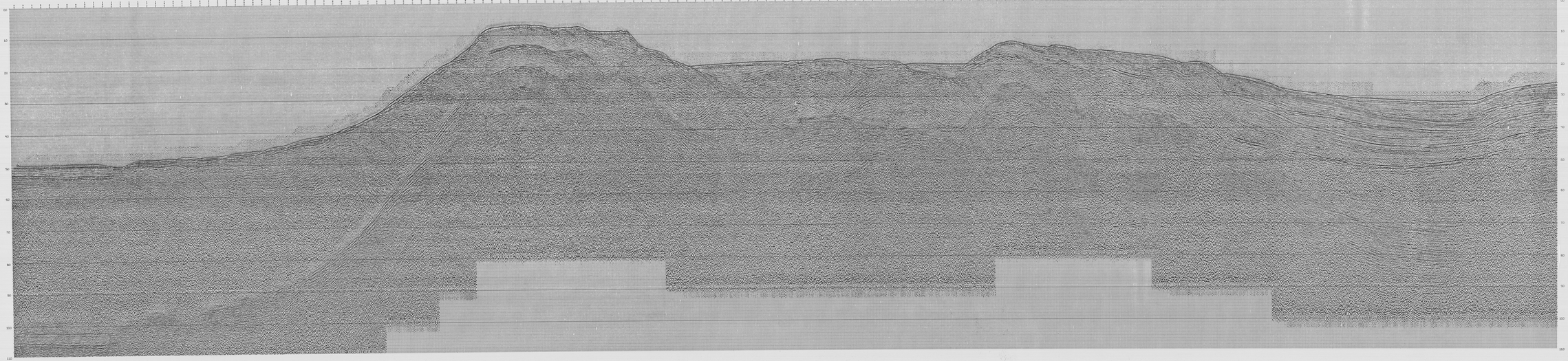
DATE PROCESSED: 3/80
1 DEMUX TO 2 TRACK SHOT SPL, DESAMPLE TO 4 MSEC
TRACE (SHOT EST); DATUM TO SEA LEVEL,
CORRELATED WITH TIMES
2 CMP SORT FOR VELOCITY ANALYSIS
3 VELOCITY SPECTRA
WINDOW LENGTH: 24 MS
WINDOW INTERVAL: 8 MS
VELOC. INCREMENT: 25.0(HZ) M/SEC
4 NMO CORRECTED GATHERS
(F = 0, 2 X 2 GAIN RECOVERY)
(F = 1, 2 X 2 GAIN RECOVERY, TRUE AMPLITUDE)
.50, % STRETCH ALLOWED IN NMO
5 FILTER (MCOM TEST)
6 POST STACK PROCESSING
DESIGN WINDOW DECONVOLUTION:
DESIGN WINDOW LEN: 2000MS
START OF WINDOW S: 500 MS AFTER MUTE
OPERATOR LENGTH: 300 MS 5400 ...32... MS
MIX:
TRACE
BANDPASS FILTER (ZERO PHASE): 15 POINTS

AMPLITUDE COMPRESSION: POWER OF DATA: .90
DESAMPLE BY FFT: MS TO MS
MIGRATION (MIGR CMGRS FINITE DIFFERENCE)
TIME-DEPTH STEP: MS
DIGITAL FREQUENCY (DF FILTERING):
VELOCITIES:
DEFLECTIONS TO RIGHT ARE: + PRESSURE

PLOT PARAMETERS

HORIZONTAL SCALE: 22.86 TRACES/IN
VERTICAL SCALE: 100 IN/SEC
PLOT TRACE SPACING: 1 TRACE
2 TRACE OVERLAP
RASTERS FOR AVE. ABSOLUTE VALUE OF DATA
IN (DIGITAL ACC WINDOW: 2.05
DIGITAL ACC 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

AUTHOR: Dennis M. Moore
James K. Crouch