



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANT

CLIENT: CPI

PROSPECT: PERMIT BR 109

TVF STACK

SEA LEVEL DATUM

SP 1 TO SP 1190

LINE BR-109-06 NE

RECORDED BY: GEOPHYSICAL OFFSHORE EXPLORATION
VESSEL: GREL EGGRE
RECORDING DATE: 04/15/1978
INSTRUMENTS: LRS-200 (CBA-1) SEG-C FORMAT
RECORD LENGTH: 6.0 SECONDS
SAMPLE INTERVAL: 2 MSEC
RECORDING FILTER: 6/124 HZ
SOURCE: 16 028 GUNS
TOTAL GUN CAPACITY: 2450 CU. IN.
OPERATING PRESSURE: 2000 PSI
GUN DEPTH: 7.6 METRES
CABLE: 45 GROUPS - 52 HYDROPHONES/GROUP
CABLE DEPTH: 12.2 METRES
CENTRE OF GUNS TO CENTRE OF NEAR GROUP: 20.0 METRES
GROUP INTERVAL: 50 METRES
SHOT INTERVAL: 25 METRES
RECORDING F.I.D.: 4000 PERCENT
PRIMARY NAVIGATION: TELESCOPE
SECONDARY NAVIGATION: SAT NAV

PROCESSING SEQUENCE

1. DEMULTIPLY AND BINARY GAIN RECOVERY
INCLUDES RESAMPLING TO 4 MSEC
2. SYNTHETIC GAIN CURVE APPLICATION
G(DB) = 41 + 30 LOG(DCT) + 20
3. CDP TRACE GATHER TO 4000 PERCENT
5.0 SECOND DATA LENGTH
INCLUDES NEAR TRACE DISPLAY
INCLUDES EDITING
4. FILTER
5-60 HZ BANDPASS - 320 MSEC O.L.
200 MSEC OPERATOR LENGTH
5. DECONVOLUTION - 4.0 L. LEAST SQUARES
24 MSEC PREDICTION TIME
WINDOW = 200 MS TO 1000 MS
SLOPE OF HIGHER FREQ. ACROSS 40 TRACES
6. VELOCITY ANALYSES
CONSTANT VELOCITY STACKS
7. NMO REMOVAL
0-320, 600-570, 1000-1520
8. FIRST BREAK MUTE
9. STACK TO 4000 PERCENT
10. BULK STATIC - DATUM CORRECTION - 4ms
11. TIME VARIANT FILTER
1/50 HZ BANDPASS WB TO 1.5
R/35 HZ BANDPASS 5.0 TO 5.0
FOLLOWS UNIFORMITY
12. TIME VARIANT EQUALIZATION
VARIED WITH STRUCTURE
13. FILM DISPLAY
5 CM/SEC VERTICAL SCALE
4 CM x 1 KM HORIZONTAL SCALE

OF 04/15/1978 DATE: JUNE 7/1978