

## NORTHEAST

## WESTERN GEOPHYSICAL CO.

OFFSHORE ALASKA

AREA : 1983 SOUTH ALEUTIAN

WGC AREA NO.45

SHOT BY WESTERN GEOPHYSICAL CO. PARTY 80 JUNE 1983  
 M/V WESTERN ANCHORAGE  
 PROCESSED BY WESTERN GEOPHYSICAL (MDC 1) GROUP 01 JAN 1984  
 USGS # 83-66 JOB 5099

## RECORDING DATA

## SOURCE

ENERGY SOURCE AIRGUN  
 NUMBER OF GUNS 24  
 GUN DEPTH 20 FEET  
 FIRING INTERVAL 82 FEET  
 SHOT POINT INTERVAL 82 FEET  
 DISTANCE OF SOURCE TO ANTENNA 234 FEET  
 TOTAL GUN VOLUME 1450 CU. IN.  
 GUN PRESSURE 4500 PSI

## INSTRUMENTS

SYSTEM DFS-V  
 AMPLIFIER I.F.P.  
 FILTER 5.3L/128H  
 SAMPLING INTERVAL 2 MSEC  
 RECORD LENGTH 6.0 SEC

## CABLE

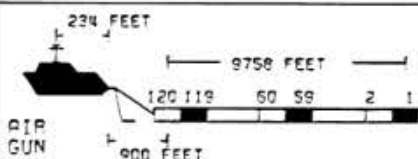
TYPE CABLE STREAMER  
 CABLE LENGTH 9758 FEET  
 CABLE DEPTH 40 FEET  
 LEAD IN 900 FEET  
 GROUP INTERVAL 82 FEET  
 NUMBER OF GROUPS RECORDED 120

## PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLING INTERVAL 4 MSEC

1. EDIT
2. BEAM STEER  
116 TRACE OUTPUT  
GROUP INTERVAL 82 FEET
3. F-K FILTER
4. GEOMETRIC SPREADING VELOCITIES
5. DECONVOLVED BEFORE STACK  
TYPE - - MINIMUM PHASE INVERSE FILTER  
WINDOW LENGTH 3 EQUAL ZONES  
OVERLAP 20% OF ZONE  
LENGTH OPERATOR 200 MS.  
PREDICTION DISTANCE 4 MS.
6. NMO STACK 5800 %
7. AGC
8. TIME VARIANT FILTER

TIME ZONE	L.C. (HZ)	H.C.
.40 SEC	15	55
1.50 SEC	12	45
2.40 SEC	10	40
3.60 SEC	8	35
4.90 SEC	7	30
5.70 SEC	6	25



## LEGEND

VELOCITY ANALYSIS INTERSECTIONS  
 W.D. WATER DEPTH  
 VELOCITY ANALYSIS EVERY 4920 FEET

## HORIZONTAL SCALE

128 TRACE INTERVALS = 1 MILE



## POLARITY CONVENTION

RECORDING : COMPRESSION PULSE NEGATIVE NUMBER  
 PROCESSING : COMPRESSION PULSE NEGATIVE NUMBER  
 DISPLAY : COMPRESSION PULSE TROUGH (DECREASING BLACK)

## NOTATIONS

SHOTPOINT LOCATION AT ANTENNA  
 PLAYBACK CORRECTION TO SEA LEVEL DATUM 12 MS  
 PLAYBACK REEL: 081085