

1X4800% MIGR AGC TVF  
FINITE DIFFERENCE MIGRATION

SOUTHWEST

## WESTERN GEOPHYSICAL COMPANY

OFFSHORE ALASKA

AREA: SHELKOF STRAIT

SHOT BY WESTERN PARTY 60 R/V ANNE BRAVO OCTOBER, 1979

PROCESSED BY WESTERN'S DENVER CENTER MARCH, 1980

USGS OCS PERMIT NO. 79-33

## RECORDING DATA

## SOURCE

ENERGY SOURCE AIRGUNS  
 NUMBER OF GUNS 16  
 GUN DEPTH 20 FEET  
 FIRING INTERVAL 82 FEET  
 SHOT POINT INTERVAL 82 FEET  
 DISTANCE OF SOURCE TO ANTENNA 119 FEET  
 NORMAL GUN ARRAY SIZE 600 CU. IN. 4600 PSI

## INSTRUMENTS

SYSTEM DFS-5  
 AMPLIFIER INST. FLOATING POINT  
 FILTER 5.3-120  
 SAMPLING INTERVAL 2 MS  
 RECORD LENGTH 6 SECONDS  
 FIELD FORMAT 100 CHANNELS SEC-B GAPPED

## CABLE

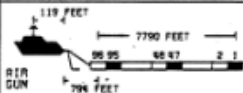
TYPE CABLE STREAMER  
 CABLE LENGTH 7790 FEET  
 CABLE DEPTH 35 FEET  
 LEAD IN 794 FEET  
 GROUP INTERVAL 82 FEET  
 NUMBER OF GEOPHONES PER GROUP 20  
 NUMBER OF GROUPS RECORDED 96<sup>m</sup>

## PROCESSING SEQUENCE AND PARAMETERS

- PROCESSING SAMPLING INTERVAL 4 MS  
 1. EDIT  
 2. DECONVOLVED BEFORE STACK  
 TYPE - MINIMUM PHASE INVERSE FILTER  
 WINDOW LENGTH 3 EQUAL ZONES  
 OVERLAP 20% OF ZONE  
 LENGTH OPERATOR 140 MS  
 PREDICTION DISTANCE 4 MS  
 3. NMO STACK 4800 %  
 4. COHERENT NOISE FILTER  
 5. MIGRATION  
 6. RMS GAIN

## 7. TIME VARIANT FILTER

TIME ZONE	L.C. (HZ)	H.C.
0.00-1.00 SEC	10	50
1.00-1.60 SEC	8	40
1.60-2.20 SEC	7	35
2.20-3.00 SEC	6	30
3.00-6.00 SEC	5	25



LEGEND  
 [Symbol] VELOCITY ANALYSIS INTERSECTIONS  
 [Symbol] W.D. WATER DEPTH  
 [Symbol] VEL. ANALYSIS EVERY 4820 FEET

## POLARITY CONVENTION

RECORDING : COMPRESSION PULSE POSITIVE NUMBER  
 PROCESSING : COMPRESSION PULSE POSITIVE NUMBER  
 DISPLAY : COMPRESSION PULSE PEAK (INCREASING BLACK)

## NOTATIONS

SP LOCATION AT ANTENNA  
 PLAYBACK REEL NUMBER 7721  
 PLAYBACK GAIN IS DB  
 DATA CORRECTED TO SEA LEVEL