FW-20

S.P. 4098 -260

1X4800% MIGR AGC TVF

FINITE DIFFERENCE MIGRATION

SOUTH

WESTERN GEOPHYSICAL COMPANY

OFFSHORE ALASKA

AREA : FAIRWEATHER SHELF-YAKUTAT BAY

SHOT BY WESTERN PARTY 60 R/V ANNE BRAVO JUNE, 1979
PROCESSED BY WESTERN'S DENVER CENTER JANUARY, 1980
USGS PERMIT NO. OCS 79-12

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	650 CU. IN. 4500 PSI

INSTRUMENTS

SYSTEM	DFS-5
AMPLIFIER	INST. FLOATING POINT
FILTER	L/8-H/128
SAMPLING INTERVAL	2 MS
RECORD LENGTH	6 SECONDS
FIELD FORMAT	100 CHANNELS SEG-B GAPPED

CABLE

TYPE CABLE	STREAMER
CABLE LENGTH	7790 FEET
CABLE DEPTH	40 FEET
LEAD IN	839 FEET
GROUP INTERVAL	82 FEET
NUMBER OF GEOPHONES PER GROUP	20
NUMBER OF GROUPS RECORDED	96

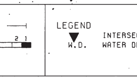
PROCESSING SEQUENCE AND PARAMETERS

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 300 MS
   - PREDICTION DISTANCE 12 MS
3. NMO STACK 4800 %
4. COHERENT NOISE FILTER
5. DECONVOLVED AFTER STACK
   - TYPE - MINIMUM PHASE INVERSE FILTER
   - WINDOW LENGTH 3 EQUAL ZONES
   - OVERLAP 20% OF ZONE
   - LENGTH OPERATOR VARIES
   - PREDICTION DISTANCE VARIES
6. MIGRATION
7. RMS GAIN
8. TIME VARIANT FILTER

TIME ZONE	L.C. (HZ)	H.C.
0.00 - 1.00 SEC	10	50
1.00 - 1.80 SEC	8	40
1.80 - 3.00 SEC	6	30
3.00 - 3.80 SEC	5	25
3.80 - 6.00 SEC	4	20

TIMES FROM WATER BOTTOM
FILTER ZONES MAY VARY WITH STRUCTURE



LEGEND
▼ INTERSECTIONS
W.D. WATER DEPTH

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

NOTATIONS
SP LOCATION AT ANTENNA
PLAYBACK REEL NUMBER 183510 / 193132
PLAYBACK GAIN 15 DB
DATA CORRECTED TO SEA LEVEL