

ARCO EXPLORATION CO.

AREA: COOK INLET, ALASKA
LINE: 180-2. SP 100-1251

SOUTHEAST

547
2 - RNA - migr.

RNA MIGRATION

RECORDING PARAMETERS

DATE SHOT:	7/2/84
PARTY:	511
REC. VESSEL:	GULF SEAL
SHIP HEADING:	111 DEGREES
INSTRUMENTS:	DIGICON DIGITAL CABLE/DDS 220
ENERGY SOURCE:	AIRGUNS
VOLUME:	3500 CUBIC INCHES
WORKING PRESSURE:	1850 PSI
FORMAT:	SEGY
POLARITY:	COMPRESSIONAL WAVE RECORDED AS NEGATIVE ON TAPE
RECORDING FILTER:	LO: 8 HZ HIGH: 80 HZ
RECORD LENGTH:	6.0 SEC.
SAMPLE RATE:	4 MS.
CABLE DEPTH:	95 METERS
GUN DEPTH:	99 METERS
NUMBER OF CHANNELS:	240
SHOTPOINT INTERVAL:	25 METERS
GROUP INTERVAL:	12.5 METERS
SHOT INTERVAL:	25 METERS
SPREAD:	900-3207 METERS
OCS PERMIT #:	84-24

PROCESSING SEQUENCE

1. REFORMAT
2. FK FILTER ON SHOT RECORDS
3. 2 TO 1 COMPRESSION WITH DIFFERENTIAL NORMAL MOVEOUT CORRECTION
4. MUTE
5. SPHERICAL DIVERGENCE CORRECTION
6. GAIN RECOVERY: 1 DB/SEC. 0-4 SEC
7. TRACE EQUALIZATION: 1 GATE
8. BAND PASS FILTER: 6-55 HZ
9. SOURCE/RECEIVER ARRAY SIMULATION
SOURCE ARRAY: 5 SOURCES
RECEIVER ARRAY: 5 RECEIVERS
10. PRE STACK SPIKING DECONVOLUTION
OPERATOR LENGTH: 240 MS.
WHITE NOISE: 1%

	DESIGN GATE	APPLICATION GATE
NEAR TRACE:	500-2500 MS	0-1500 MS
	2000-4200	2000-4000
	3500-5500	4200-6000
FAR TRACE:	2500-4450	0-2500
	2500-4750	2600-4200
	3700-5700	4500-6000

11. NORMAL MOVEOUT CORRECTION
12. POST NMO MUTE
13. COMMON DEPTH POINT STACK: 60 FOLD
14. ADJACENT TRACE SUM
15. POST STACK DECONVOLUTION
(AVERAGE AUTOCORRELATIONS (31 TRACES))

NEAR TRACE GATES	FAR TRACE GATES
900-1800 MS.	900-1800 MS.
1500-3700 MS.	1500-3700 MS.
3400-5300 MS.	3400-5300 MS.

16. TIME VARIANT FILTER

0.0-0.0	8-45
1000.0-1000.0	8-40
2500.0-6000.0	8-30
17. TRACE EQUALIZATION: 8 GATES SPATIALLY VARYING
18. WAVE EQUATION MIGRATION
19. RANDOM NOISE ATTENUATION
20. FULL-SCALE DISPLAY: 12 TRACES/INCH
5.0 INCHES/SECOND
- HALF-SCALE DISPLAY: 24 TRACES/INCH
2.5 INCHES/SECOND

PROCESSED BY:

DIGICON GEOPHYSICAL CORPORATION

3701 KIRBY DRIVE, SUITE 1.12
HOUSTON, TEXAS 77098
(713) 526-5611



DISPLAY: 40 TRACES/KILOMETER
HORIZONTAL (TRACES/INCH) VERTICAL (INCHES/SEC)

FULL-SCALE:	12.0	5.0
HALF-SCALE:	24.0	2.5

SHOTPOINT LOCATIONS ARE ANTENNA POSITIONS
POLARITY: NORMAL
DATE PROCESSED: NOVEMBER 1984

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