

Offshore China Pearl River Mouth

2D SEISMIC DATA EXAMPLES

Seismic Acquisition Parameters – PR79 series

FIELD PARAMETERS

RECORDED BY DIGICON -- M/V ATLANTIC SEAL

INSTRUMENTS -- DFS-V (FLOATING POINT AMPLIFIERS)

LAYDOWN FILTER	LOW CUT.	8 HZ	/ 18 DB/OCT
	HIGH CUT.	44 HZ	/ 24 DB/OCT
SAMPLE RATE.....		2 MS	
RECORD LENGTH.....		5 SEC	
CONSTANT GAIN.....		48 DB	

ENERGY SOURCE -- AIR GUN

DEPTH.....	8 M
ARRAY LENGTH.....	7 M
NO. OF GUNS.....	23
TOTAL VOLUME.....	1700 CUBIC INCHES
	27,868 CC.
PRESSURE.....	1800 PSI
POP INTERVAL.....	25 M

CABLE -- 96 TRACE STREAMER

GROUP LENGTH.....	25 M
GEOPHONES/GROUP.....	18
GROUP INTERVAL.....	25 M
CABLE DEPTH.....	10 M
CABLE CONFIGURATION.....	8
	POP 263 M
	2638 M

FIELD SUPERVISION BY CHEVRON ORIENT INC

DATE: SEPT 1979

2 msec
5 seconds

1700 cu.in
air gun

25 m shot int

2.4 km cable

Original side label with Processing Sequence – PR79 series

1979 MARINE SEISMIC SURVEY
PEARL RIVER BASIN
SOUTH CHINA SEA
LINE 79PR-1608
SHOTPOINTS
4393 - 6219

PROCESSING SEQUENCE

**TRACE EQUALIZED
MIGRATED STACK**

PROCESSING THRU STACK BY DIGICON

- 1) DEMULTIPLEX AND EDIT
SAMPLE RATE CONVERSION 2 MS TO 1 MS
- 2) ADJACENT TRACE SUBSTITUTION
WITH DIFFERENTIAL MOVEOUT
- 3) AMPLITUDE RECOVERY
- 4) SEA LEVEL DATUM CORRECTION
GUN DELAY 0 MS
DATUM CORRECTION +10 MS
- 5) SPIKING DECON
FILTER LENGTH 200 TO 2000 MS
DESIGN WINDOWS 200 TO 1000 (THIN RANGE)
1000 TO 2000 (THIN RANGE)
2000 TO 4000 (THIN RANGE)
WINDOWS VARY WITH WATER BOTTOM AND GEOLOGY. WINDOWS ARE FOR
WATER BOTTOM AT 200 MS AND UNCONFORMITY AT 2400 MS.
- 6) 48 CDP GATHER
P-WAVE ROUTING AND GATING
- 7) VELOCITY ANALYSIS - U
- 8) NMO AND CDP STACK
- 9) OUTPUT SEGY TRANSFER TAPE
TRUE AMPLITUDE STACK

- 8) NMO AND CDP STACK
- 9) OUTPUT SEGY TRANSFER TAPE
TRUE AMPLITUDE STACK

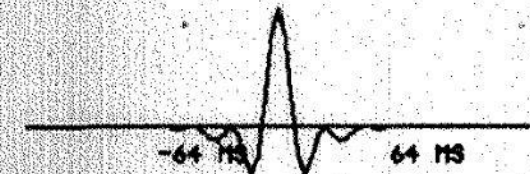
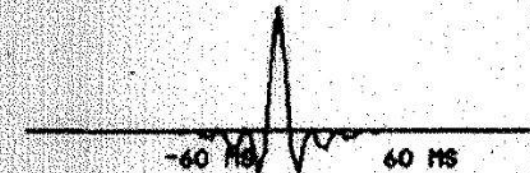
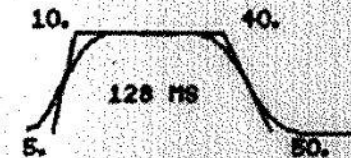
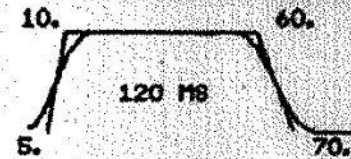
PROCESSING POST-STACK BY TEXACO GEOPHYSICAL CENTER

BELLAIRE, TEXAS

- 10) DECON
FILTER LENGTH 200 MS
PREDICTION DISTANCE 20 MS
DESIGN WINDOWS 200 TO 2700
2000 TO 4000
WINDOWS VARY WITH WATER BOTTOM AND GEOLOGY. WINDOWS ARE FOR
WATER BOTTOM AT 200 MS AND UNCONFORMITY AT 2400 MS.
- 11) WIDE BAND FILTER
- 12) TRUE AMPLITUDE GAIN
- 13) WAVE EQUATION MIGRATION
- 14) TIME VARYING FILTER

FILTER

WINDOWS..... FILTER 1 0 TO 2000
FILTER 2 2000 TO 5000
WINDOWS VARY WITH UNCONFORMITY.



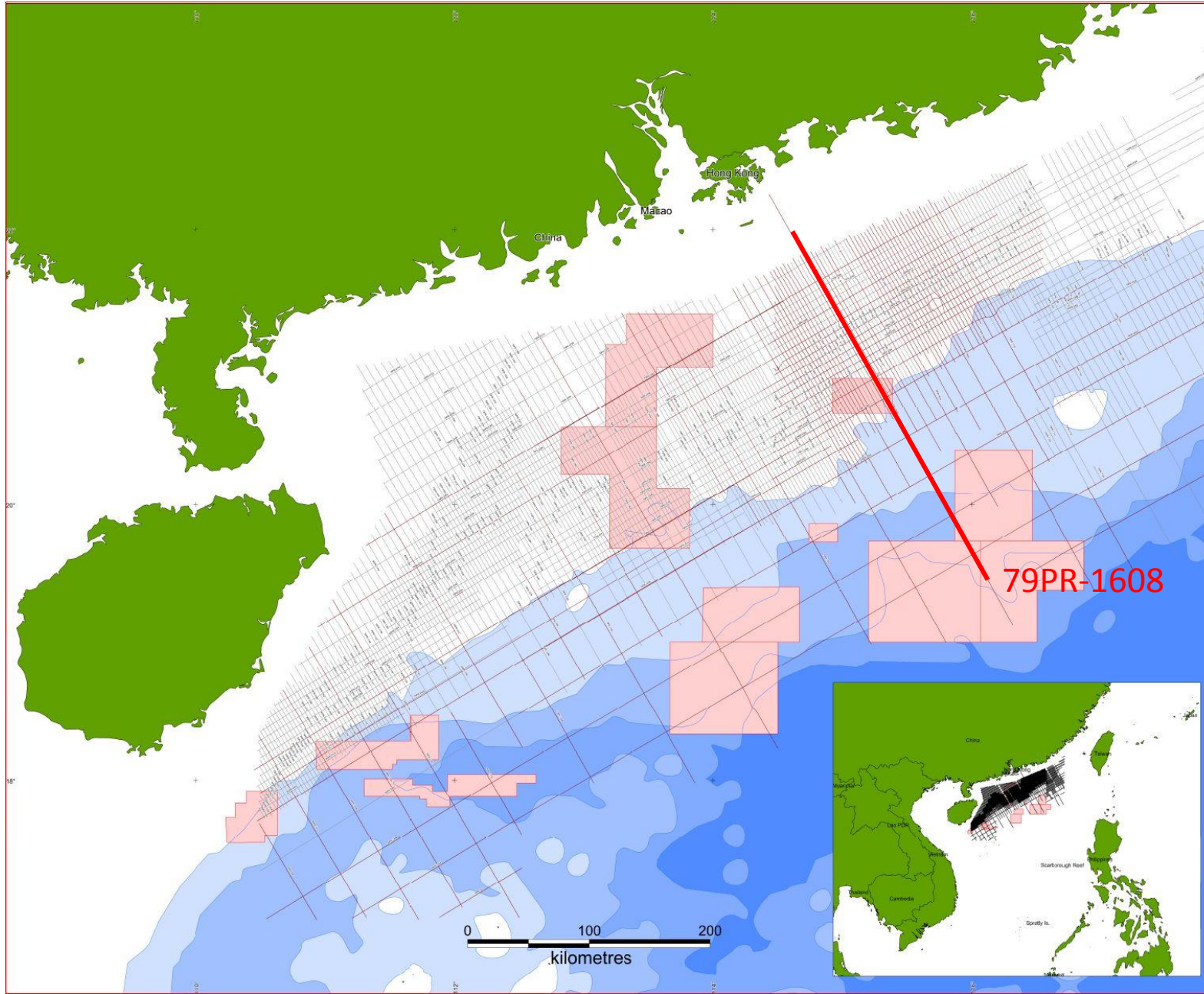
- 15) TRACE EQUALIZATION

PROCESSING SUPERVISION BY TEXACO ORIENT PETROLEUM CO.

QC: Wes

DATE: 11/8/79

Data Example

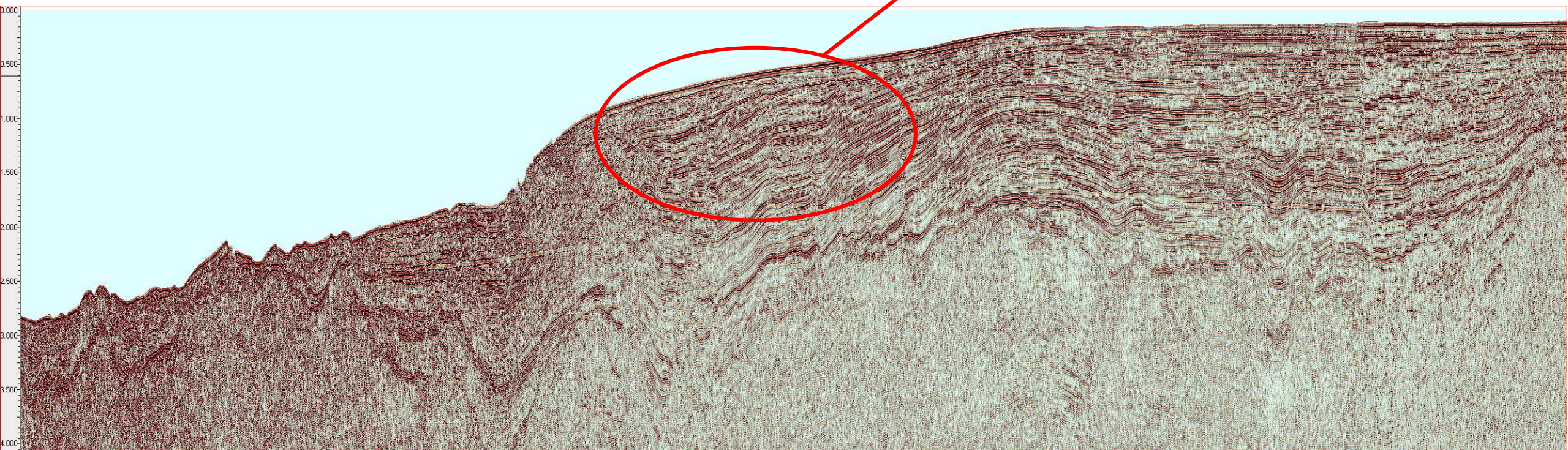


SEGY

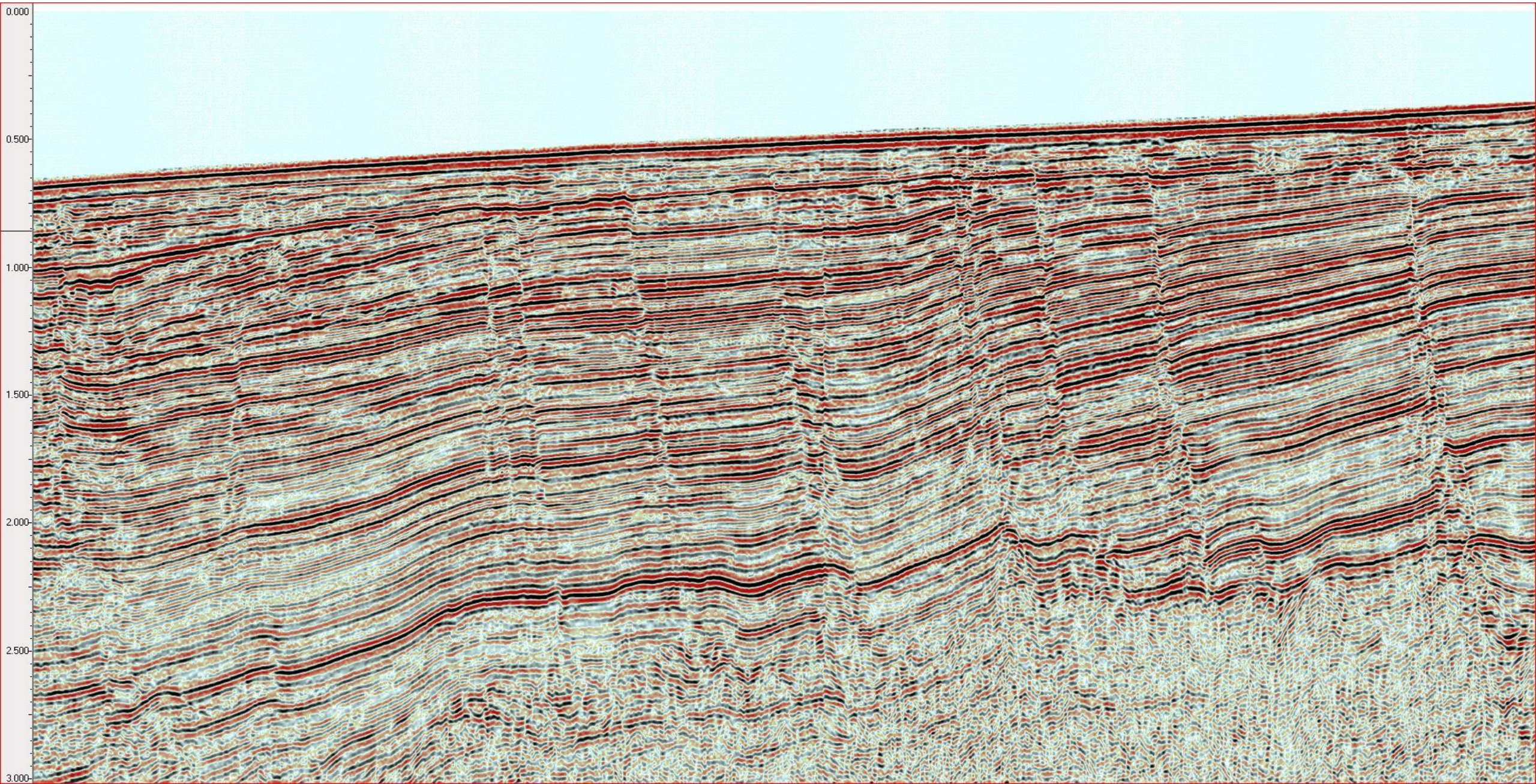
TIFF

79PR-1608

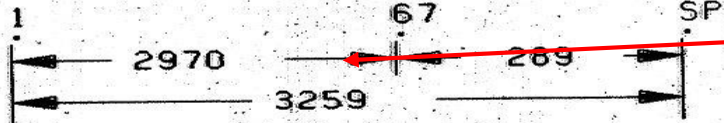
ZOOM



79PR-1608 - ZOOM



Seismic Acquisition Parameters – PK79 series

FIELD RECORDING	
CONTRACTOR	ESSO SEIS CREW ES-2
VESSEL	KIRSTEN BRAVO DATE AUG 1979
BOAT HEADING NE	
ENERGY SOURCE	
TYPE	SLEEVE EXPLODER NO. GUNS 12+8
ARRAY	BOX DEPTH 9.6
CHARGE:	SEC. IN ³
FIRING INTERVAL	22.5
SURVEYING	
SURVEY STATION INTERVAL 22.5	
NAVIGATION SYSTEM MAXIRAN	
CABLE	
TYPE: CABLE	STREAMER GEOPHONES MULTIDYN
NO. GROUPS	203 AVG. DEPTH 9.1
GEOPHONES/GROUP	17 GROUP INTERVAL 15
ARRAY	LENGTH
	
DISTANCES IN <input type="checkbox"/> FEET <input checked="" type="checkbox"/> METERS	
RECORDING INSTRUMENTS	
SYSTEM	GUS NO. CHANNELS 224
FORMAT	EES-11-FP GAIN TYPE FLOATING PT
RECORD LENGTH	5 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS	LO 5 HZ SLOPE 24 DB/OCTAVE
	HI 110 HZ SLOPE 45 DB/OCTAVE
FIELD POLARITY: COMPRESSIONAL WAVE	
RECORDED AS NEG VALUES	

22.5 m shot int

3.0 km cable

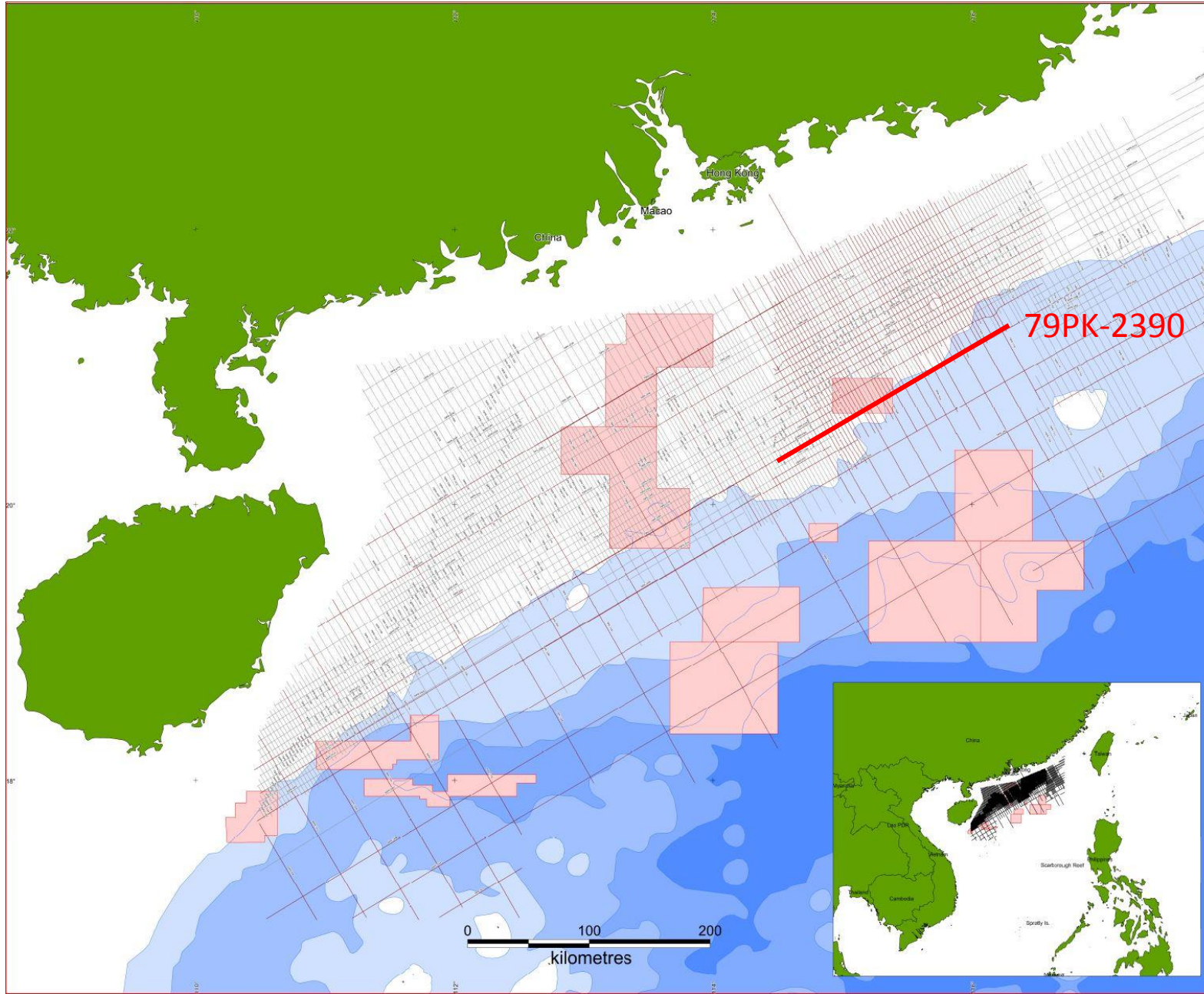
2 msec

5 seconds

Original side label with Processing Sequence – PK79 series

PROCESSING SEQUENCE	
1	DEMULT <u>FIELD COMPUTER</u>
	DATUM <u>SEA LEV.</u> DATUM VEL <u> </u> FT/SEC
	STATICS: <u> </u>
	STATICS: <u> </u>
2	GAIN: <input checked="" type="checkbox"/> EXPONENTIAL <input type="checkbox"/> GEOCOR
	VERTICAL SUMMATION <u> </u> TO 1
2	BIMATION TO <u>4</u> MS.
3	DECON BEFORE STACK: <u>SHAPING 10-60 HZ</u>
	OPERATOR LENGTH <u>120</u> MS.
	FILTER: <u> </u>
4	VELOCITY ANALYSIS: <u>CONVEL-HIREZ</u>
5	<u>67</u> FOLD STACK SB INTERVAL <u>22.5</u>
7	DECON AFTER STACK: <u>SHAPING 10-50 HZ</u>
	OPERATOR LENGTH <u>120</u> MS.
	FILTER: <u> </u>
6	IYSCALE <u> </u>
8	IYFILTER <u> </u>
9	IYSCALE <u> </u> GENVEL <u> </u>
10	SMOOTH <u> </u>
11	MIGRATION (110 PER CENT) <u> </u>
12	IYFILTER <u> </u>
13	BASSEC <u> </u>
	TRACE NORMALIZE <u> </u>
	AGC <u> </u> MS.
ORIGINAL DISPLAY	
<u>2.159</u> CM./24 TR. <u>44.4</u> TRACES/KM	
COMPRESSIONAL WAVE <input checked="" type="checkbox"/> ON SECTION	
PRESET GAIN: DB <u>-3</u>	
<u>0</u> %VA BASE <u>10.000</u> CM/SEC	
STATICS: <u>GUN-CABLE DEPTH</u>	
ADJ. TO SEA LEVEL <u> </u> TOTAL <u>12MS</u> MS.	
DIRECTION OF PLOT <u>LEFT</u> INV <u> </u>	
REMARKS	
<u>IYFILTER: TIMES REFERENCE TO ZERO TIME</u>	
<u>15-50 HZ AT 300 12-45 HZ AT 2000</u>	
<u>8-32 HZ AT 3000 8-25 HZ AT 5000</u>	
<u> </u>	
<u>S.O.B. MIGRATION</u>	
<u> </u>	
LIB. LOC. (OUT) <u>069A46</u>	
TAPE NAME (OUT) <u>BDSPHF04</u>	
TIME <u>13.05.5</u> DATE <u>064/80</u>	

Data Example

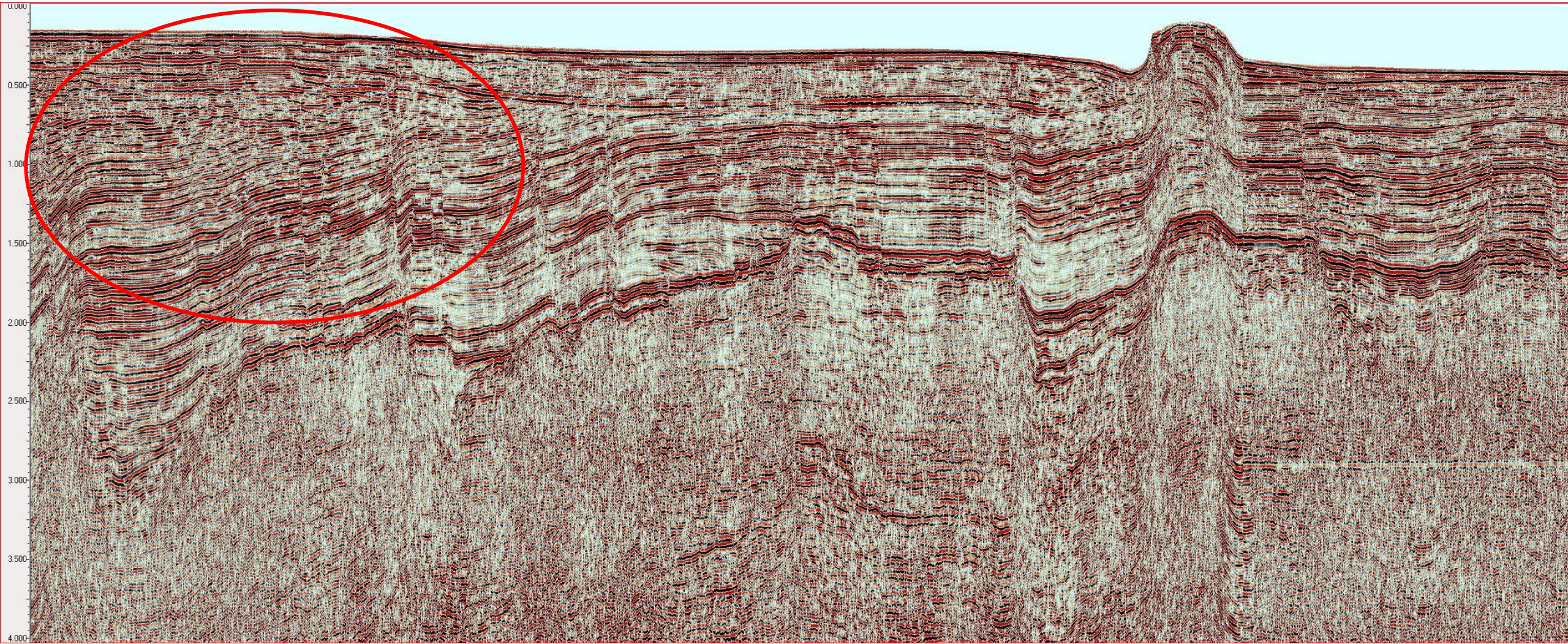


SEG Y

TIFF

79PK-2390

ZOOM



79PK-2390 - ZOOM

