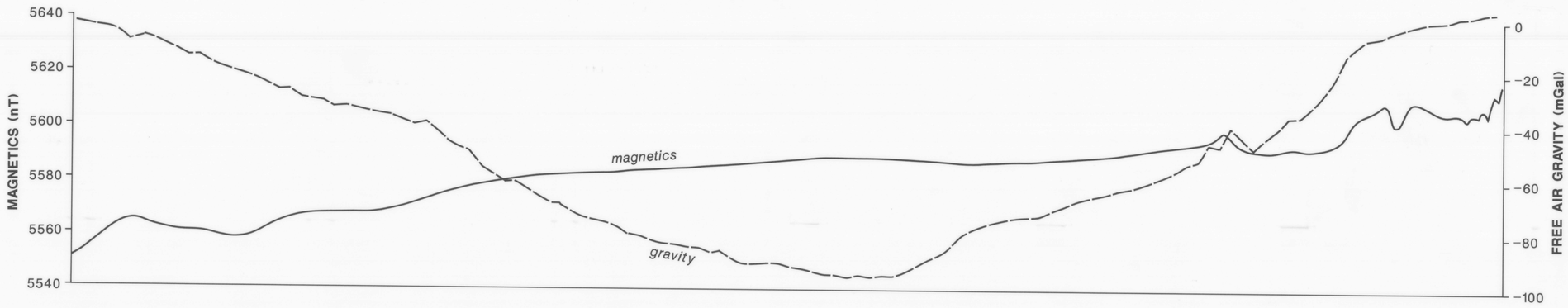
MARINE MULTICHANNEL SEISMIC REFLECTION, GRAVITY AND MAGNETIC PROFILES

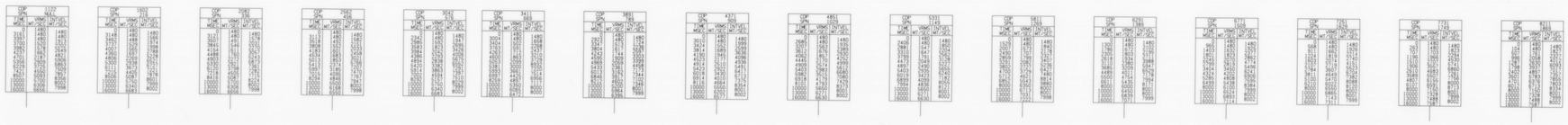
Vancouver Island Continental Margin and Juan de Fuca Ridge

Line 4

G.S.C. Open File No. 1661
Geological Survey of Canada

100 West Pender St., Vancouver, B.C. V6B 1R8





LINE LP85-04
S.P. 101 TO 1942

PACIFIC GEOSCIENCE CENTRE

WEST COAST VANCOUVER ISLAND

51 DEGREES — DIRECTION SHOT

FINAL STACK

FIELD DATA

VESSEL	M/V EDWARD O. VETTER
SHOT BY	G.S.I.
DATE SHOT	MAY 1985
NAVIGATION	PRIMARY - SPOT SECONDARY - LORAN C
DATA TYPE	SEISMIC REFLECTION
RECORDING SYSTEM	1 / 2 OPS.
RECORDING FORMAT	SEG B GAPPED
RECORDING DENSITY	1600 B.P.I.
RECORD LENGTH / SAMPLE PERIOD	18.0 SEC. / 4 MSEC
GAIN CONTROL MODE	IFP
GAIN CONSTANT/FINAL GAIN	36/120 DB
RECORDING FILTERS	LOW CUT 3.5 HZ @ 18 DB/OCTAVE HIGH CUT 64 HZ @ 72 DB/OCTAVE
TAPE POLARITY	NORMAL
SEISMIC SOURCE	TUNED AIRGUN ARRAY (4 ELEMENTS) 2015 CU. IN. - 2000 P.S.I. - 50 GUNS / 51.2 MSEC DELAY
AVERAGE SOURCE DEPTH	12 METRES
CABLE LENGTH/AVG DEPTH	3017 METRES / 18 METRES
NUMBER OF GROUPS	120
NOMINAL GROUP	25 - ACCELERATION CANCELLING
GEOPHONES PER GROUP/SPACING	15 / 1.66 METRES
NORMAL GROUP INTERVAL	25 METRES
SHOTPOINT INTERVAL	50 METRES
MULTIPLICITY	30 FOLD
NEAR/FAR TRACE GROUP OFFSET	200 METRES
FATHOMETER	51MRAD / 148D M/SEC / DRAFT CORRECTED

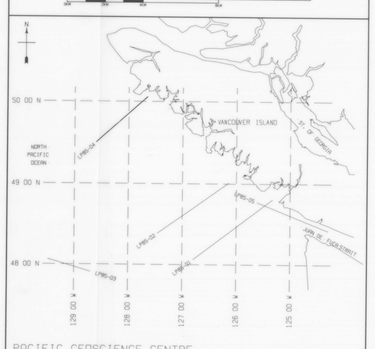
SPREAD DIAGRAM

DIGITAL PROCESSING

DEMULTIPLEX	PROCESSED TO 18.0 SEC
RESAMPLE	4 MSEC TO 8 MSEC (MIN. PHASE)
TRUE AMPLITUDE RECOVERY	3.5 DB/SEC FROM 0 TO 6.0 SEC DATUM - WATER BOTTOM
PRE-DECONVOLUTION MUTE	MUTING OF FIRST BREAK ENERGY
VELOCITY FILTER (SHOT DOMAIN)	12 TRACE / 72 MSEC/TR MAXIMUM FREQUENCY PASS 70 HZ
DESIGNATURE (SHOT DOMAIN)	STANDARD MARINE MODE
EQUALIZATION	DESIGN AND APPLICATION OF FILTER
DEMULTIPLE (SP 101 - 1828)	WHOLE TRACE DESIGN GATE
DECONVOLUTION (SP 1580 - 1942)	WATER BOTTOM AND PEGLEG MULTIPLE ATTENUATION 1.6 400 MSEC OPERATOR. GAP - 2W DATUM - WATER BOTTOM
VELOCITY ANALYSIS - FIRST 8 SECONDS OF DATA - LAST 8 SECONDS OF DATA	VELSCAN EVERY 3 KM FOR STACK FUNCTION STACK FUNCTION DERIVED FROM REFRACTION DATA
NORMAL MOVEOUT CORRECTIONS	SEE STACK SECTION HEADER FOR VELOCITIES
STACK	FULL FOLD ACHIEVED ON FAR TRACE AT 4.0 SEC
COMMON DEPTH POINT STACK	30 FOLD / TYPE - DIVERSITY POWER
DECONVOLUTION	1.6 400 MSEC / 2 MSEC GAP AUTO CORR START/END TIMES - 50/16000 MSEC DATUM - WATER BOTTOM
DIPFILT	KEEP ZONE - -5 TO 5 MS/TR
TIME/SPACE VARIANT FILTER	3/7 - 28/32 @ 0 SEC
TIME/SPACE VARIANT DISPLAY GAIN	
EVERY THIRD TRACE DISPLAYED ONLY	

DISPLAY

HORIZONTAL SCALE	- 48.0 TR/IN 26.666667 TR/KM
VERTICAL SCALE	-1.875000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WIGGLE - 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.895918 CM



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02 APR 1986
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PARTY 6408D

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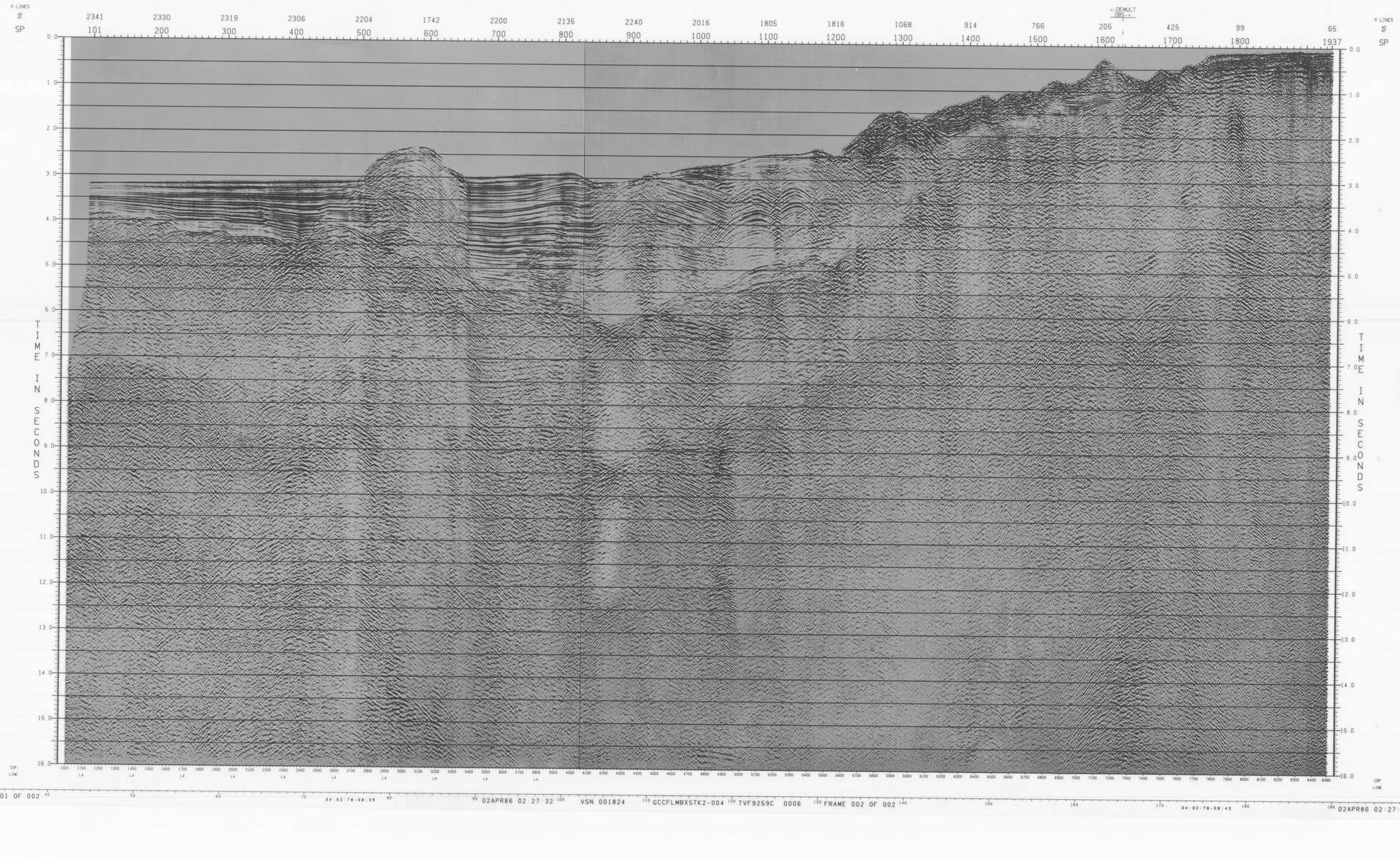

LINE LP85-04
S.P. 101 TO 1942

FINAL STACK

VSN 001824 GCCFLMBXSTK2-004 TVF9259C 0006 FRAME 001 OF 002 04:02:78-08:39 02APR86 02:27:32

VSN 001824 GCCFLMBXSTK2-004 TVF9259C 0006 FRAME 002 OF 002 04:02:78-08:43 02APR86 02:27:32

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