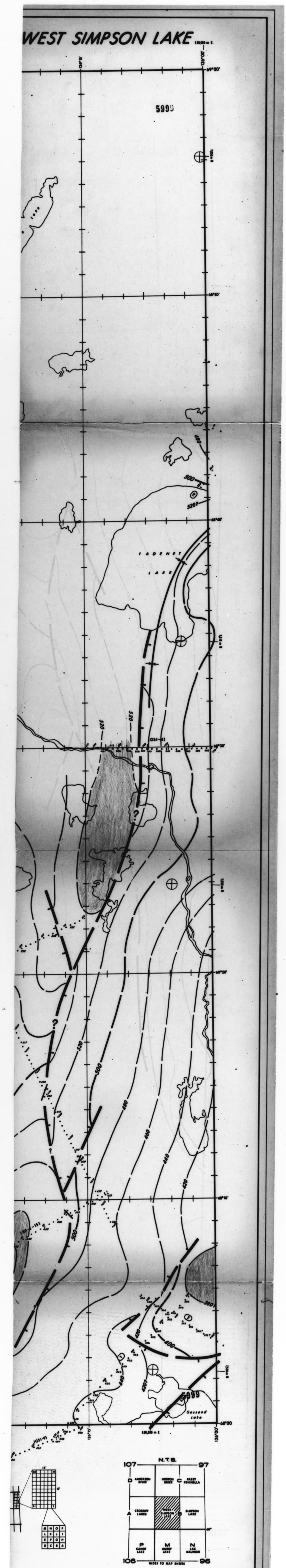

WEST SIMPSON LAKE
5999
Gassend Lake
620,000 m E
126°15'
126°00'
68°00
N.T.S.
107
97
106
96
D ANDERSON RIVER
HORTON RIVER
C PARRY PENINSULA
A CROSSLEY LAKES
WEST SIMPSON LAKE
B SIMPSON LAKE
P CANOT LAKE
M AUBRY LAKE
N LAC MAUNOIR
INDEX TO MAP SHEETS

038-06-06-047.

Hudson's Bay Oil and Gas Company Limited

EXPLORATION DEPARTMENT

CALGARY ALBERTA

WEST SIMPSON LAKE

GEOPHYSICAL STRUCTURE MAP

TOP SALINE RIVER – HORIZON 'A'

TIME STRUCTURE (UPPER GREEN)

CONTOUR INTERVAL: 0.020 sec (190' for Vo = 19,000'/sec)

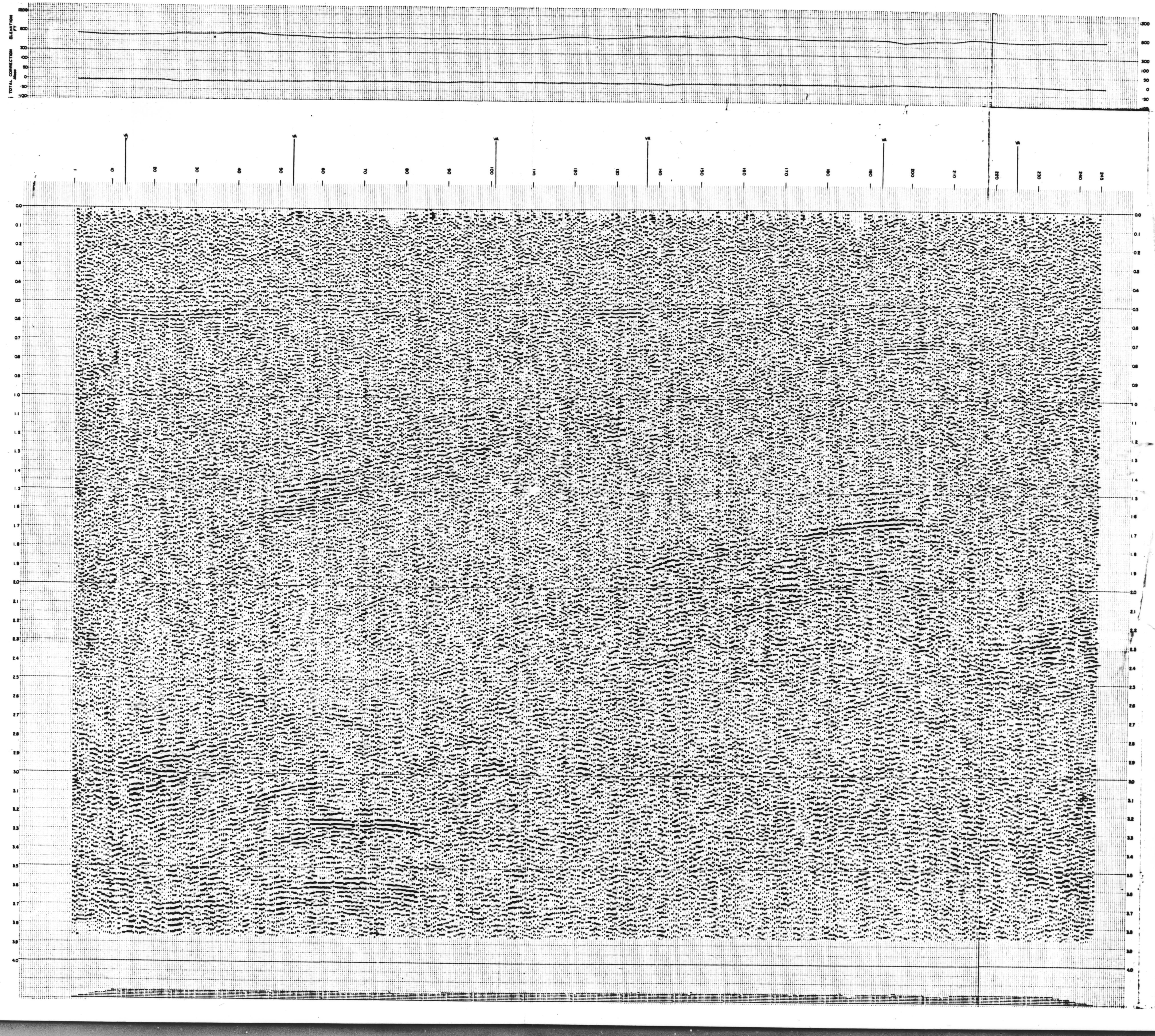
TIME or INTERVAL: sec THICKNESS or DEPTH: ft

ELEVATION REFERENCE: 700 ft VELOCITY: 17,500'/sec

AUTHORS AFFILIATION or MAP SOURCE:

SCALE	AUTHOR: M. LACK		DATE OCT., 1975	
FILE No	H-1-H	G-1-E		

WEST SIMPSON LAKE



038-06-06-017

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

1 LINE No.
NE DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

☐	SPREAD LENGTH 5280-220 -220-5280
☐	GP INTERVAL 220
☐	S.P. INTERVAL 880
☒	RECORD LENGTH 4
☐	SAMPLE INT 4 msec
☐	FOLD 600%
☐	

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☒	☐
GAIN	☒	☐
FIELD FILTER ☒	124	
SWEEP FREQ ☐	8/18	

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-80Hz 15-80Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wt	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10-35	700-2100 2100-3500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. [illegible])	11			
FILTER (CONV)	14		30-65	0-4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700' VELOCITY 17,500'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

2
LINE No

SE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	SPREAD LENGTH	3290-220 220-3290
[illegible]	☐	GP INTERVAL	220
[illegible]	☐	SP INTERVAL	660
[illegible]	☒	RECORD LENGTH	4 sec
[illegible]	☐	SAMPLE INT	4 msec
[illegible]	☐	FOLD	600%
[illegible]	☐		

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	[illegible] 124	[illegible]
SWEEP FREQ ☐	[illegible] 8/10	[illegible]

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 [illegible]	300-3800
FILTER (CONV)	5		20-80Hz 15-80Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wx	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10F 38	1900-6300
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS [illegible]	11			
FILTER (CONV)	14		30-85	0-4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975	DATUM 700	[illegible] VELOCITY 17,500/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

3
LINE No

NE →
DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	SPREAD LENGTH	5280-220
[illegible]	☐		-220-5280
[illegible]	☐	[illegible]	220
[illegible]	☒	[illegible]	660
[illegible]	☐	[illegible]	4 second
[illegible]	☐	[illegible]	4 msec
[illegible]	☐	FOLD	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	HI 124	HI
SWEEP FREQ ☐	LO 8/18	LO

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		19 point	300-3600
FILTER (CONV)	5		30-60Hz [illegible]-60Hz	0-1,200 1,200-4,000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev To.	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 30	700-1800 2,300-3,800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	15			
EQUALIZE	/			
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	8			
FILTER (CONV)	14		25-70	0-4,000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975	DATUM 700'	CORR. VELOCITY 17,500'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

4
LINE No

SE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible] ☐	SPREAD LENGTH 5280-220
[illegible] ☐	-220-5280
[illegible] ☐	[illegible] 220
[illegible] ☒	[illegible] 660
[illegible] ☐	RECORD LENGTH 4 SEC.
[illegible] ☐	[illegible] 4 msec
[illegible] ☐	FOLD 600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	[illegible] 124	[illegible]
SWEEP FREQ ☐	[illegible] 8/18	[illegible]

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		19 points	300-3800
FILTER (CONV)	5		20-80Hz 12-80Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wx	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 ± 30	1800-3300
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	11			
FILTER (CONV)	14		30-60	0-4000
RESAMPLE TO 2 msec	15			

DATE JUNE / [illegible]
DATUM 700'
CORR. VELOCITY 17,900'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS LTD.

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

5
LINE No.

NE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐
[illegible]	☐
[illegible]	☐
[illegible]	☒
[illegible]	☐
[illegible]	☐
[illegible]	☐

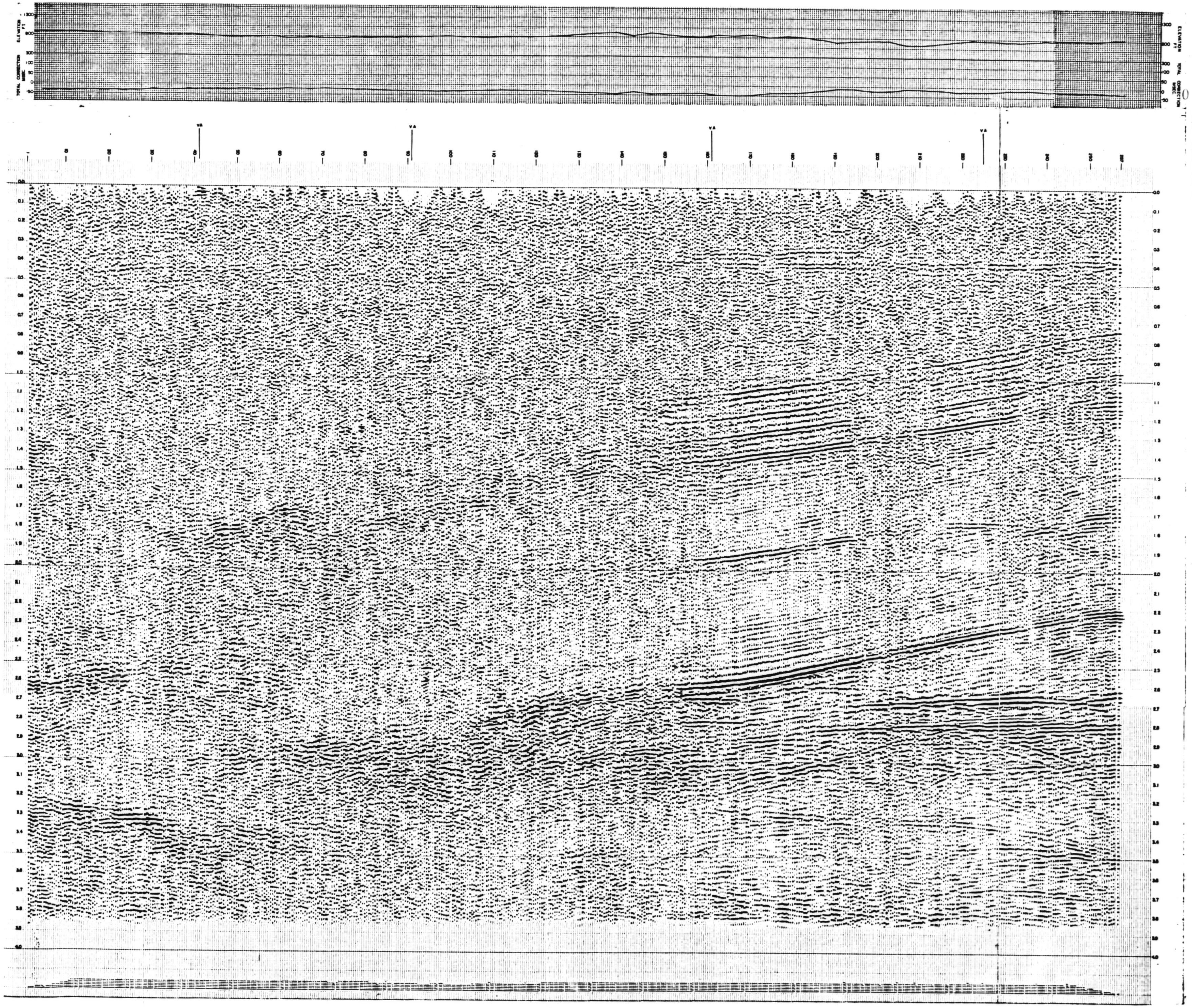
[illegible]	3850-220 220-3850
[illegible]	220
[illegible]	660
[illegible]	4 secs
[illegible]	4 msec
[illegible]	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	[illegible] 12 4	[illegible]
SWEEP FREQ ☐	[illegible] 8/18	[illegible]

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-60Hz 10-50Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev. [illegible]	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	[illegible]	1800-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	11			
FILTER (CONV)	14		30 70	0-4000
RESAMPLE TO 2 msecs	15			

DATE JUNE / 1975	DATUM 700'	CORR. VELOCITY 17,900'/sec



038-00-00-017

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

6 LINE No.
SE DIRECTION

DATA PREPARATION BY SEFEL J. D ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	SPREAD LENGTH	5280-220 -220-5280
[illegible]	☐	[illegible]	220
[illegible]	☐	[illegible]	660
[illegible]	☒	[illegible]	4 SEC
[illegible]	☐	[illegible]	4 msec
[illegible]	☐	FOLD	600%
[illegible]	☐		

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☒ [illegible]	☐ [illegible]
GAIN	☒ [illegible]	☐ [illegible]
FIELD FILTER ☒	124	
SWEEP FREQ ☐	0/18	

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-60Hz 10-50Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wx	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10+35	1000-2300 2300-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant vel. [illegible])	11			
FILTER (CONV)	14		30-65	0-4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975	DATUM 700	CORR VELOCITY 17,500/sec

8-06-06-047-24

7

038-06-06-047

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
HUDSON'S BAY OIL & GAS CO LTD
7 SSE

SEFEL J. D ASSOCIATES LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICES INCORPORATED

DFS IV

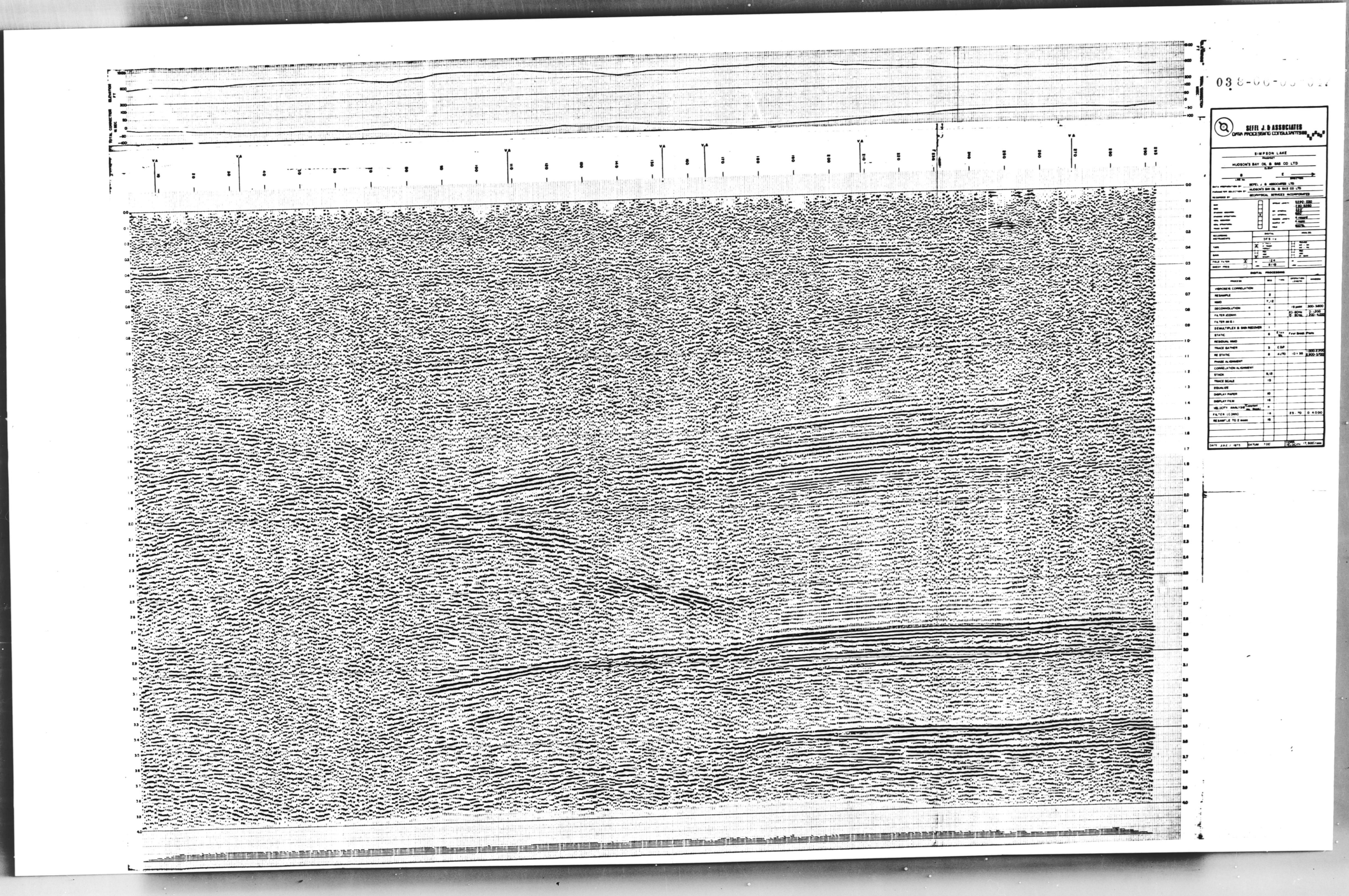
DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		[illegible]	300-3400
FILTER (CONV)	8		[illegible]	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev	First Break Plots	
REGIONAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	9	AUTO		400-2200 2200-3500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	10			
VELOCITY ANALYSIS				
FILTER (CONV)	14		25-70	
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700'

038-06-06-047-25

8



038-06-0

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT
HUDSON'S BAY OIL & GAS CO LTD
CLIENT
8
LINE No
E
DIRECTION

DATA PREPARATION BY SEFEL J. D ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

RECORDING INSTRUMENTS DIGITAL DFS IV

FIELD FILTER 124 8/18

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3600
FILTER (CONV)	5		20-80Hz 15-80Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wt.	First Break	Plots
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 × 35	1000-2700 2900-3700
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	11			
FILTER (CONV)	14		25-70	0 4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700' VELOCITY 17,500'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

3
LINE No.

EAST →
DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	[illegible]	[illegible]
[illegible]	☐		[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☒	[illegible]	[illegible]
[illegible]	☐	[illegible]	4 [illegible]
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[illegible]	☐	[illegible]	[illegible]

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	HI 124	HI
SWEEP FREQ ☐	LO 8/18	LO

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		10 [illegible]	300-3400
FILTER (CONV)	5		[illegible] [illegible]	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev. [illegible]	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	0 ± 35	1100-1900 2200-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 10			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS [illegible]	11			
FILTER (CONV)	14		25-70HZ	0—4000
RESAMPLE TO 2 msec	13			

DATE JUNE / 1975	DATUM 700	[illegible] 17,000'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CORPORATION

SIMPSON LAKE
[illegible]

HUDSON'S BAY OIL & GAS CO LTD
[illegible]

10 [illegible] EAST →

[illegible] BY: SEFEL J. & [illegible] LTD
[illegible] BY: HUDSON'S BAY OIL & GAS CO LTD
[illegible] BY: [illegible]

[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]

[illegible]		[illegible]	[illegible]
		DFS IV	
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[illegible]		[illegible]	[illegible]
[illegible]	☐	[illegible] 12.5	[illegible]
[illegible]	☐	[illegible] 3/8	[illegible]

DIGITAL PROCESSING

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] CORRELATION				
RESAMPLE	2			
[illegible]	7,13			
DECONVOLUTION	4		[illegible]	[illegible]
FILTER [illegible]	5		[illegible]	[illegible]
FILTER [illegible]				
DEMULTIPLEX & [illegible]	1			
STATICS	6	[illegible]	[illegible]	[illegible]
[illegible]				
TRACE GATHER	3	CDP		
[illegible]	9	AUTO	10-400	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	8,6			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	13			
DISPLAY FILM	13			
VELOCITY ANALYSIS [illegible]	5			
FILTER [illegible]	14		20-70	0-4,000
RESAMPLE TO 2 msec	15			

DATE [illegible] / [illegible] | DATUM [illegible] | [illegible]

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS LTD

SIMPSON LAKE
[illegible]

HUDSON'S BAY OIL & GAS CO LTD
[illegible]

8 — [illegible]
SE → [illegible]

DATA PREPARATION BY: SEFEL J & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

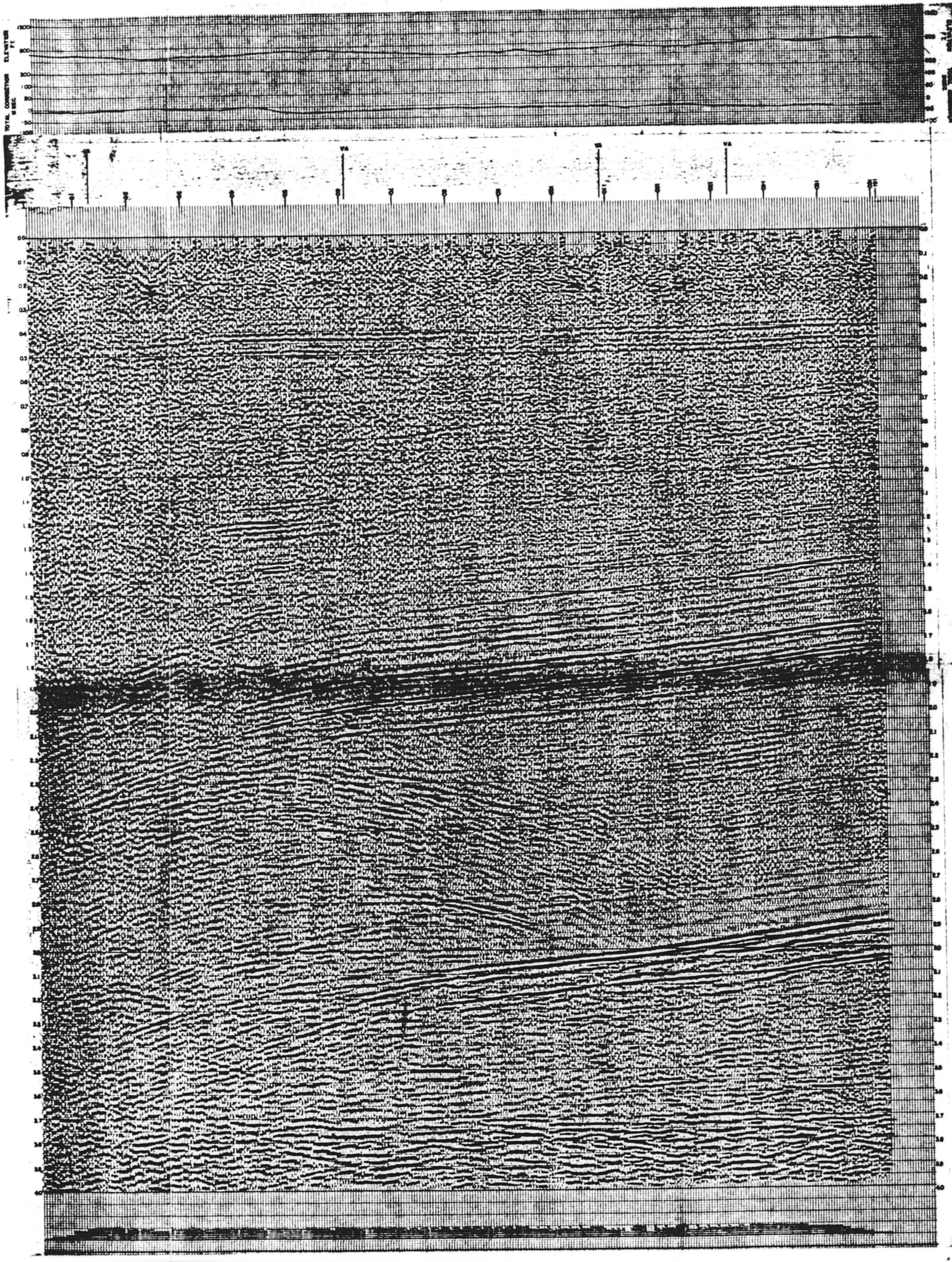
[illegible]	☐	[illegible]	1280-220
[illegible]	☐		220-1280
[illegible]	☐		220
[illegible]	☒	[illegible]	660
[illegible]	☐	[illegible]	4 record
[illegible]	☐	[illegible]	4 msec
[illegible]	☐	[illegible]	600%

	DIGITAL	ANALOG
RECORDING INSTRUMENTS	DFS IV	
TAPE	☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER	124	
SWEEP FREQ	8/18	

DIGITAL PROCESSING

PROCESS	[illegible]	[illegible]	OPERATION LENGTH	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-80Hz 15-80Hz	1-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wx	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	8 ± 20	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	8, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	9			
FILTER (CONV)	14		20-80Hz 15-80Hz	0-670 770-4000
RESAMPLE TO 2 msec	15			

DATE MAY / 1975	DATUM 700'	CORR. VELOCITY 17,900'/sec



SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

12 | NE →

DATA PREPARATION BY: SEFEL J. D. ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICE INCORPORATED

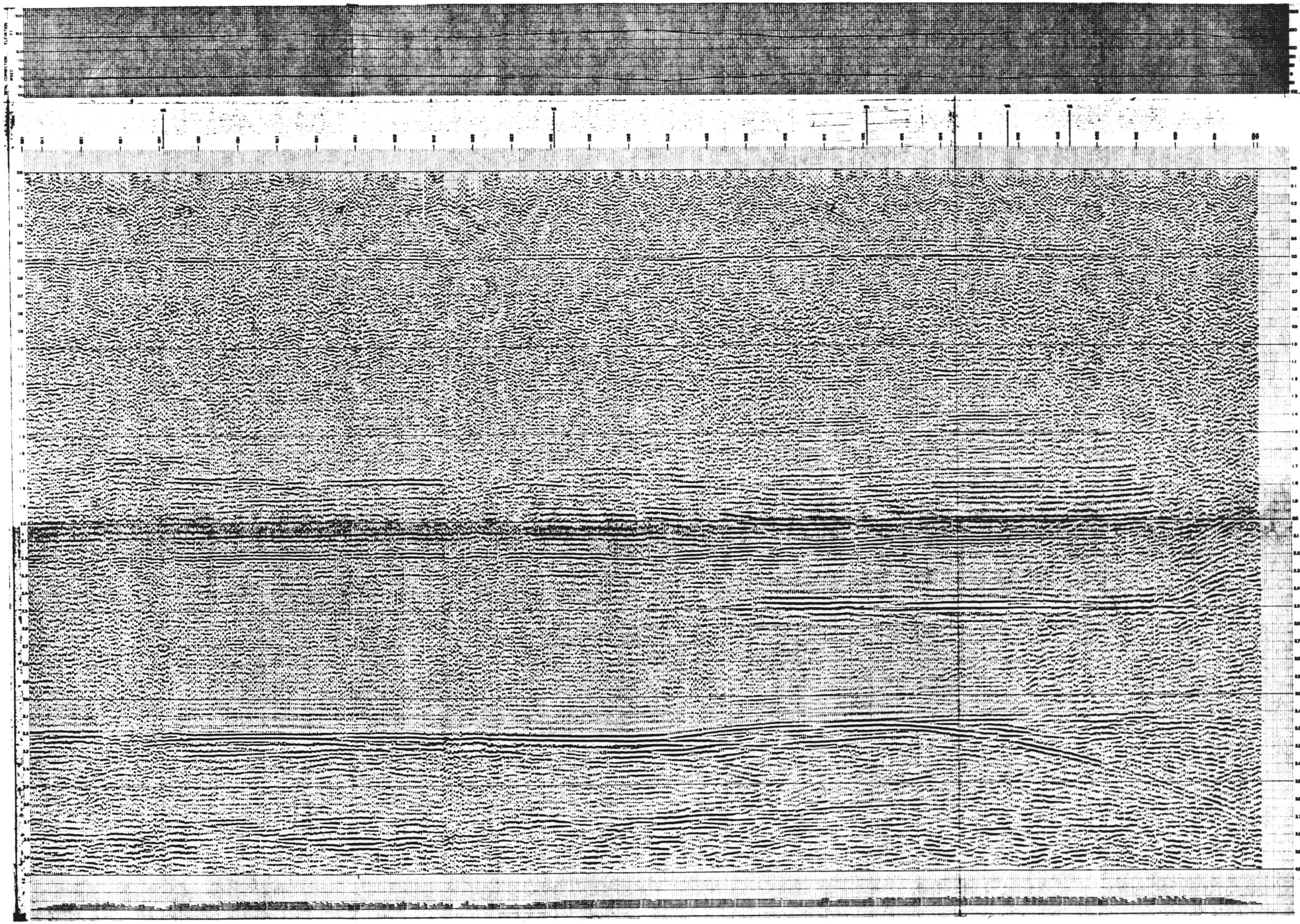
RECORDING INSTRUMENTS: DFS IV

FIELD FILTER: 12.5 / 3/10

DIGITAL PROCESSING

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		10-point	320-2400
FILTER (CONV)	5		[illegible]	[illegible]
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	[illegible]	Float Datum	[illegible]
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 30	1,200-[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,10			
TRACE SCALE	16			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	8			
FILTER (CONV)	14		25-70	0-4,000
RESAMPLE TO 2 msec.	13			

DATE JUNE / 1975 | DATUM 700' | [illegible]



038-06-06-047

SEFEL J. B ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

13 EXT.

[illegible] SEFEL J. B ASSOCIATES LTD
[illegible] HUDSON'S BAY OIL & GAS CO LTD
[illegible] GEOPHYSICAL SERVICES INCORPORATED

DFS IV

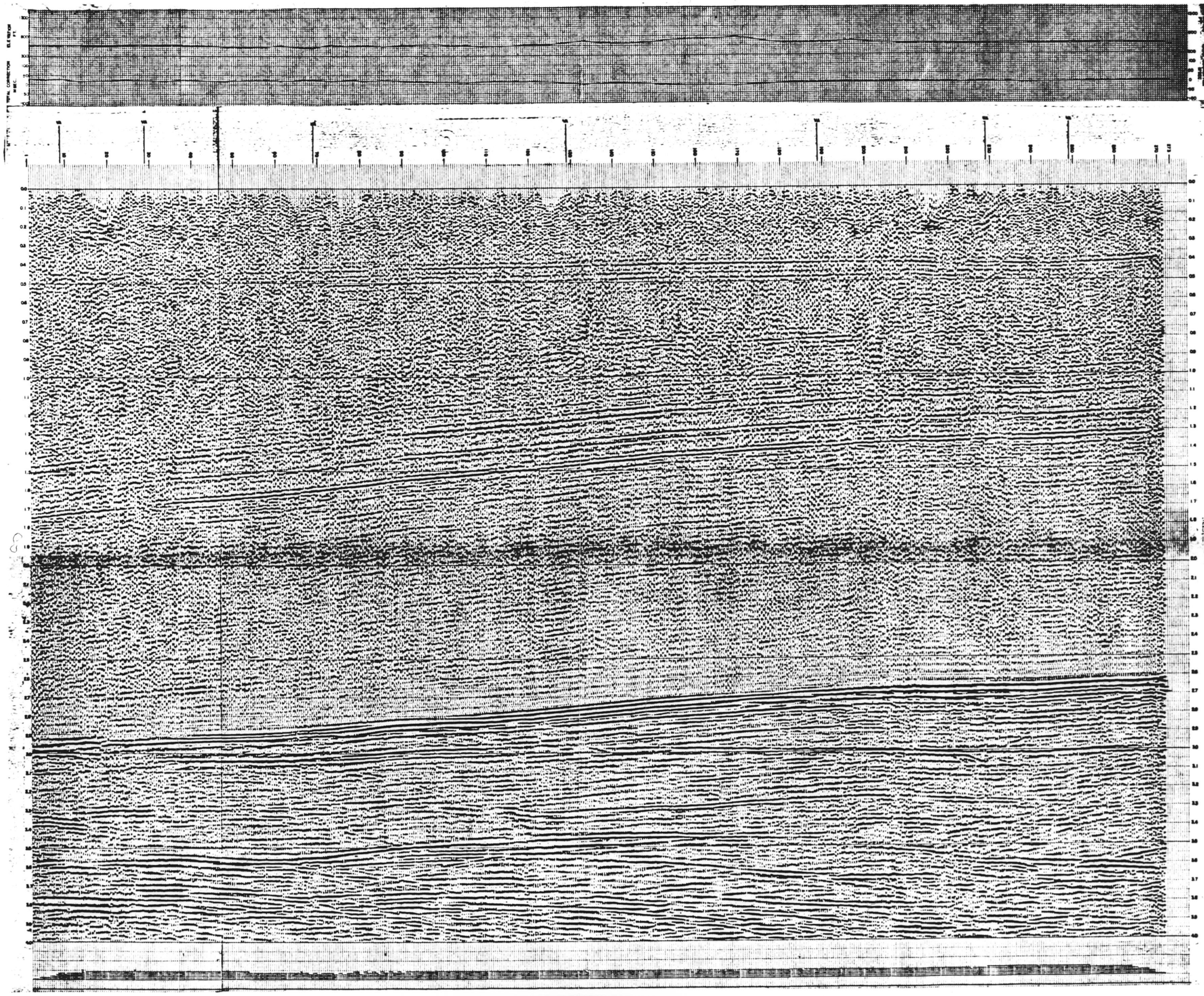
12.4

8/12

DIGITAL PROCESSING

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		[illegible]	[illegible]
FILTER (CONV)	5		20-60Hz [illegible]	[illegible]
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev [illegible]	[illegible]	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 × 20	
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS	11			
FILTER (CONV)	14		[illegible]	[illegible]
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700'



038-06-06-047

SEFEL J. D. ASSOCIATED
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
HUDSON'S BAY OIL & GAS CO LTD
14
NE

SEFEL J. D. ASSOCIATED LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICE INCORPORATED

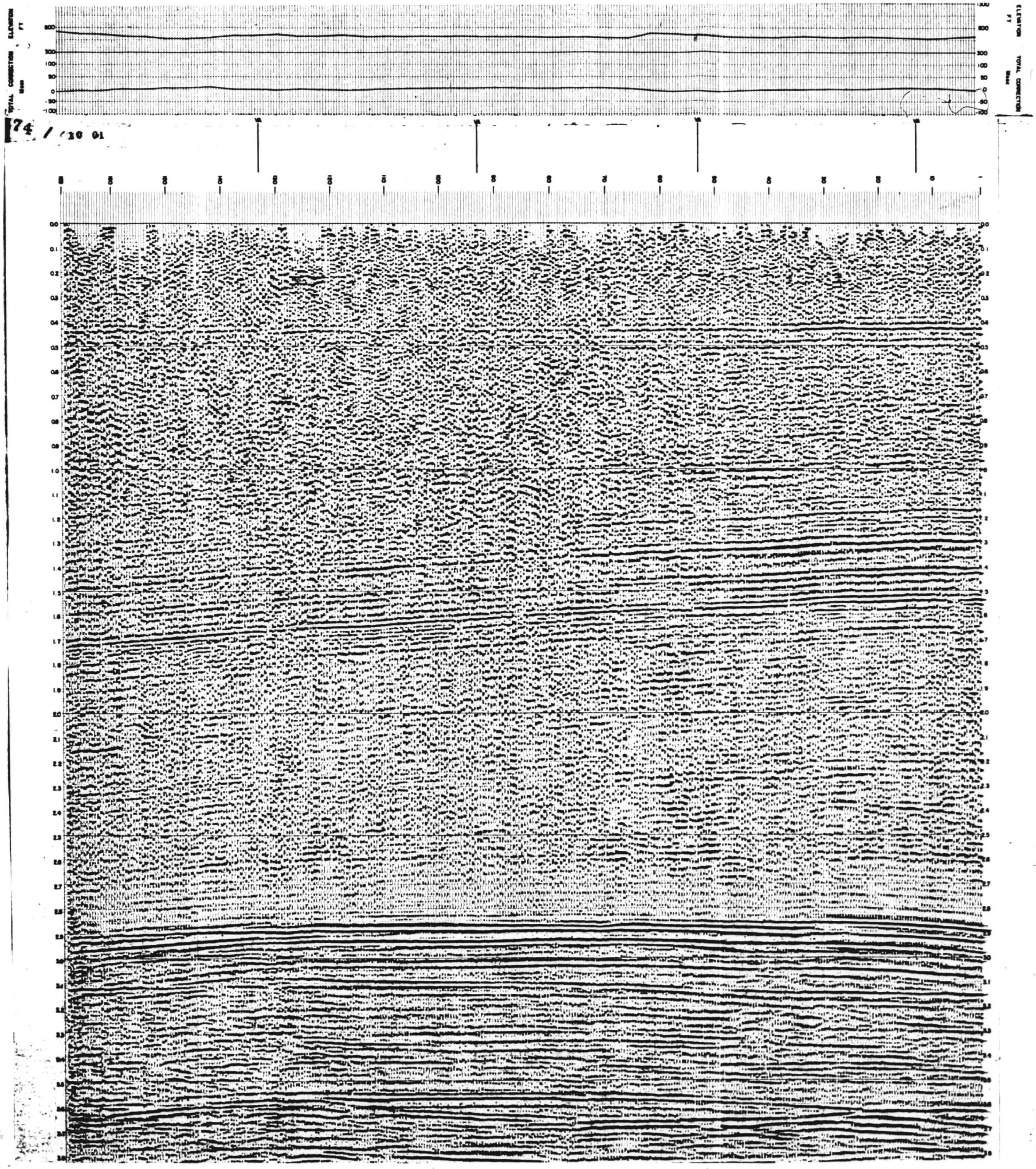
DFS IV

DIGITAL PROCESSING

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		[illegible]	300-3000
FILTER (CONV)	5		[illegible]	[illegible]
FILTER (MUL)				
DEMULTIPLEX & GAIN RECOVERY	1			
STATIC	6	[illegible]	[illegible]	[illegible]
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 / 20	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	15			
DISPLAY FILM	16			
VELOCITY ANALYSIS	8			
FILTER (DCON)	14		20 - 70	0 - 4.000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1973 DATUM 700' [illegible] 17,000'/sec

74 / 20 01



Simpson L. 70

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT
HUDSON'S BAY OIL & GAS CO LTD

15 LINE No
NE DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	[illegible]	5280-220
[illegible]	☐		-220-5280
[illegible]	☐	[illegible]	220
[illegible]	☒	[illegible]	660
[illegible]	☐	[illegible]	4 seconds
[illegible]	☐	[illegible]	4 msec
[illegible]	☐	[illegible]	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	124	
SWEEP FREQ ☐	8/18	

DIGITAL PROCESSING

PROCESS	[illegible]	[illegible]	OPERATION LENGTH	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-60Hz 18-60Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Wx	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10@88	2200-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant vel. Stack)	8			
FILTER (CONV)	14		28-70	0-4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700' CORR VELOCITY 17,900'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

15-A
LINE No

NE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐
[illegible]	☐
[illegible]	☐
[illegible]	☒
[illegible]	☐
[illegible]	☐
[illegible]	☐

SPREAD LENGTH 1280-220
-220-1280
SP INTERVAL 220
G.P. INTERVAL 660
RECORD LENGTH 4 seconds
SAMPLE RATE 4 msec
FOLD 600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	HI 124	HI
SWEEP FREQ ☐	LO 8/18	LO

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3600
FILTER (CONV)	5		20-60Hz 15-50Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev [illegible]	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 35	2200-3600
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	11			
FILTER (CONV)	14		25 - 70	0 - 4000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975
DATUM 700'
CORR. VELOCITY 17,900'/sec

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS LTD

SIMPSON LAKE
[illegible]

HUDSON'S BAY OIL & GAS CO LTD.
[illegible]

[illegible] ——— [illegible] →

DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐
[illegible]	☐
[illegible]	☐
[illegible]	☒
[illegible]	☐
[illegible]	☐
[illegible]	☐

[illegible]	[illegible]
	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	○ [illegible] ● [illegible] ○ [illegible]	○ [illegible] ○ [illegible] ○ [illegible]
GAIN	○ [illegible] ○ [illegible] ● [illegible]	○ [illegible] ○ [illegible] ○ [illegible]
FIELD FILTER ☒	[illegible] 12.4	[illegible]
SWEEP FREQ ○	[illegible] 8/18	[illegible]

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 [illegible]	300-3600
FILTER (CONV)	5		[illegible]	[illegible]
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev [illegible]	[illegible]	[illegible]
RESIDUAL NMO				
TRACE GATHER	3	C.D.P.		
RE STATIC	8	AUTO	[illegible] 30	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS [illegible]	8			
FILTER (CONV)	14		25 - 70	
RESAMPLE TO 2 msec	10			

DATE JUNE / 1973 | DATUM 700' | VELOCITY 17,900'/sec

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DATA PROCESSING CONSULTANTS LTD

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

17 — LINE No
SE → — DIRECTION

DATA PREPARATION BY: SEFEL J & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

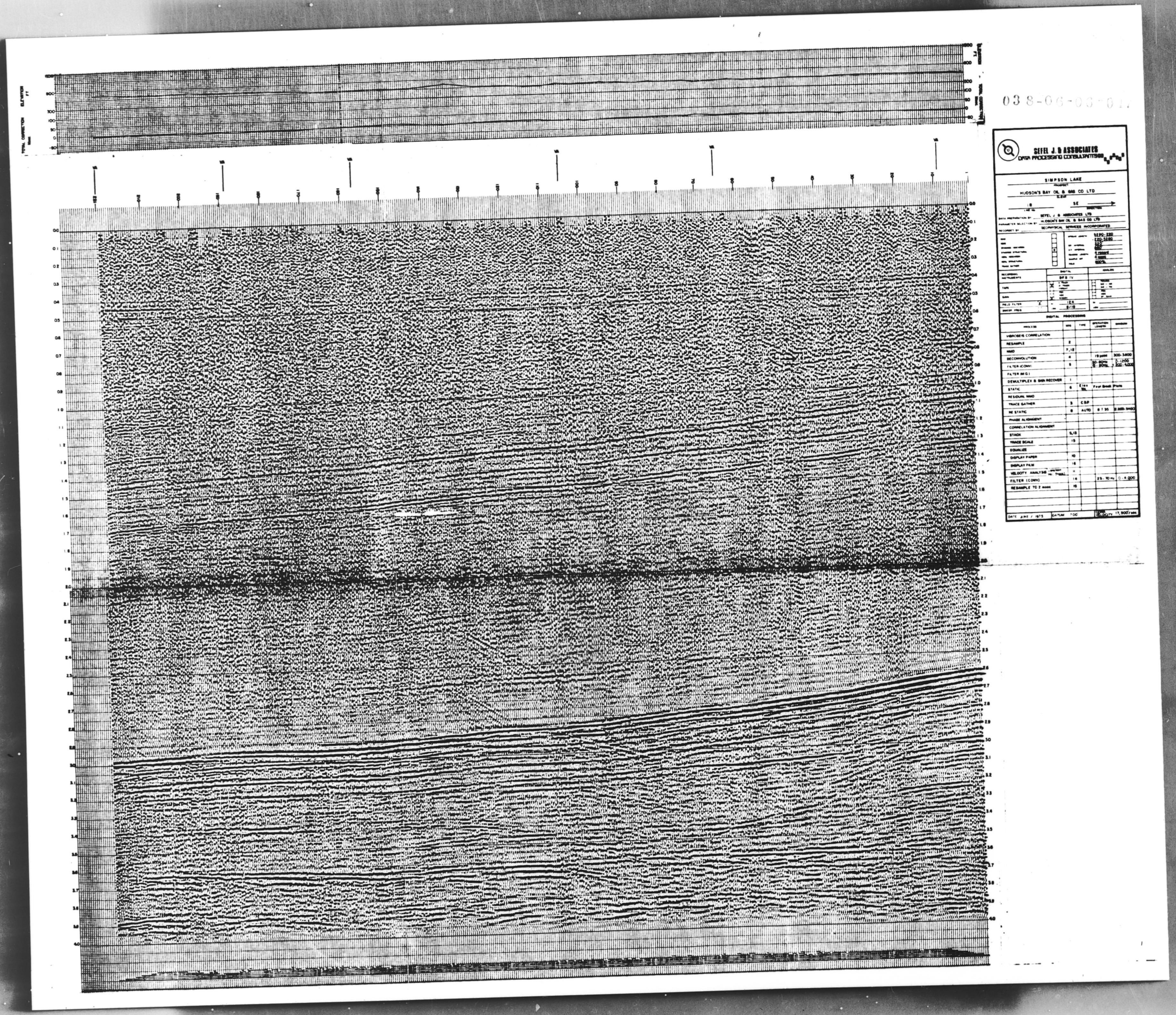
[illegible]	☐	SPREAD LENGTH	5280-220 -220-5280
[illegible]	☐	SP INTERVAL	220
[illegible]	☐	G.P. INTERVAL	660
[illegible]	☒	RECORD LENGTH	4 second
[illegible]	☐	SAMPLE RATE	4 msec
[illegible]	☐	FOLD	600%
[illegible]	☐		

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	HC 124	HC
SWEEP FREQ ☐	LC 8/18	LC

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		15 point	300-3600
FILTER (CONV)	5		20-60Hz 10-50Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev. [illegible]	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 36	400-2400 2800-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	11			
FILTER (CONV)	14		25 - 70	0 - 4000
RESAMPLE TO 2 msec	18			

DATE JUNE / 1975 — DATUM 700' — CORR. VELOCITY 17,000'/sec



038-06-03-017

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

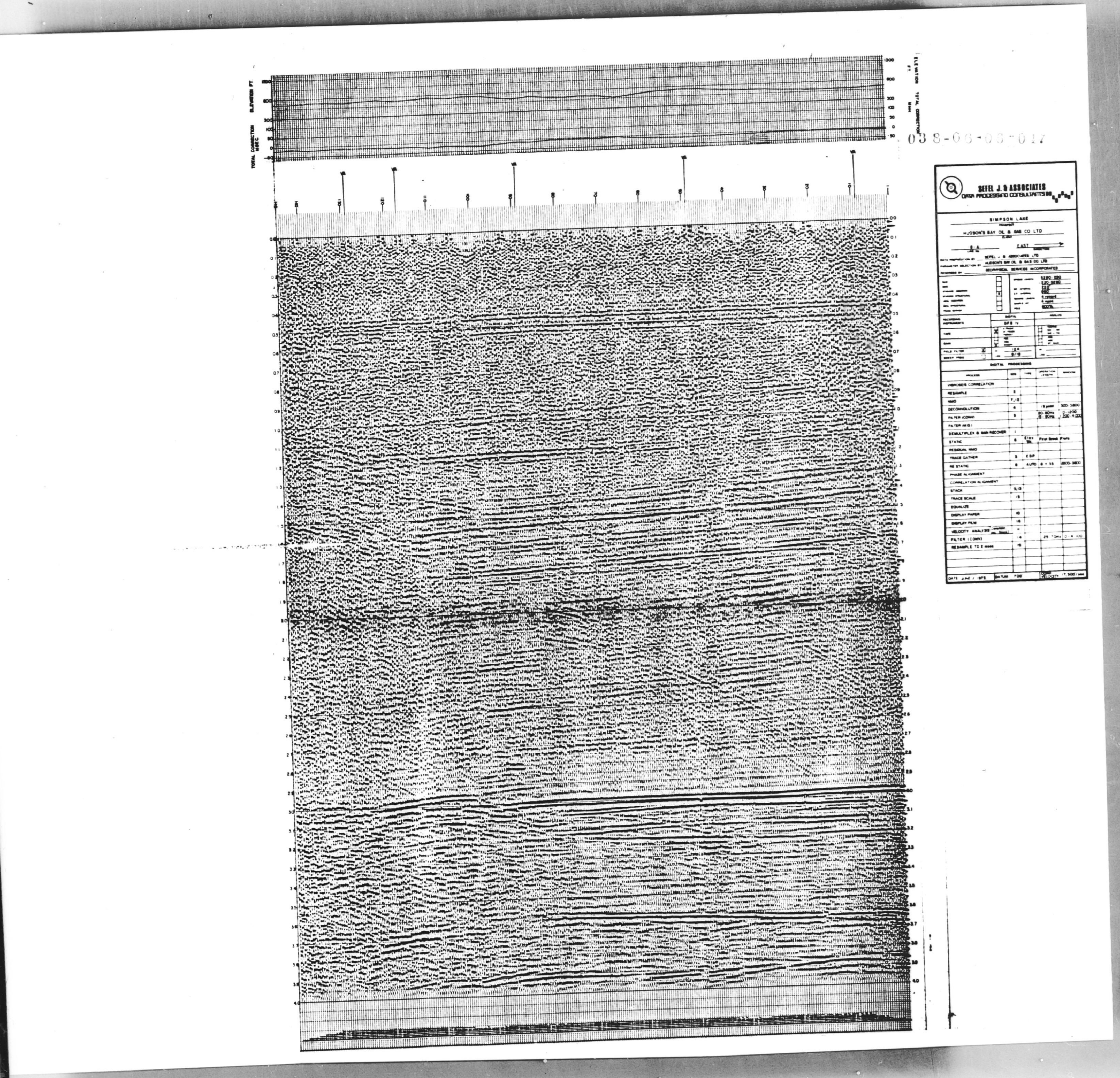
18 SE

SEFEL J. D ASSOCIATES LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICES INCORPORATED

DFS IV

DIGITAL PROCESSING

VIBROSEIS CORRELATION
RESAMPLE
DECONVOLUTION



038-06-03-017

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

8-A EAST

SEFEL J. D ASSOCIATES LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICES INCORPORATED

DFS IV

DIGITAL PROCESSING

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO. LTD
CLIENT

16-B
LINE No.

EAST →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	[illegible]	5280-220 220-5280
[illegible]	☐	[illegible]	220
[illegible]	☐	[illegible]	660
[illegible]	☒	[illegible]	4 second
[illegible]	☐	[illegible]	4 msec
[illegible]	☐	[illegible]	600%
[illegible]	☐		

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	[illegible] 124	[illegible]
SWEEP FREQ ☐	[illegible] 8/18	[illegible]

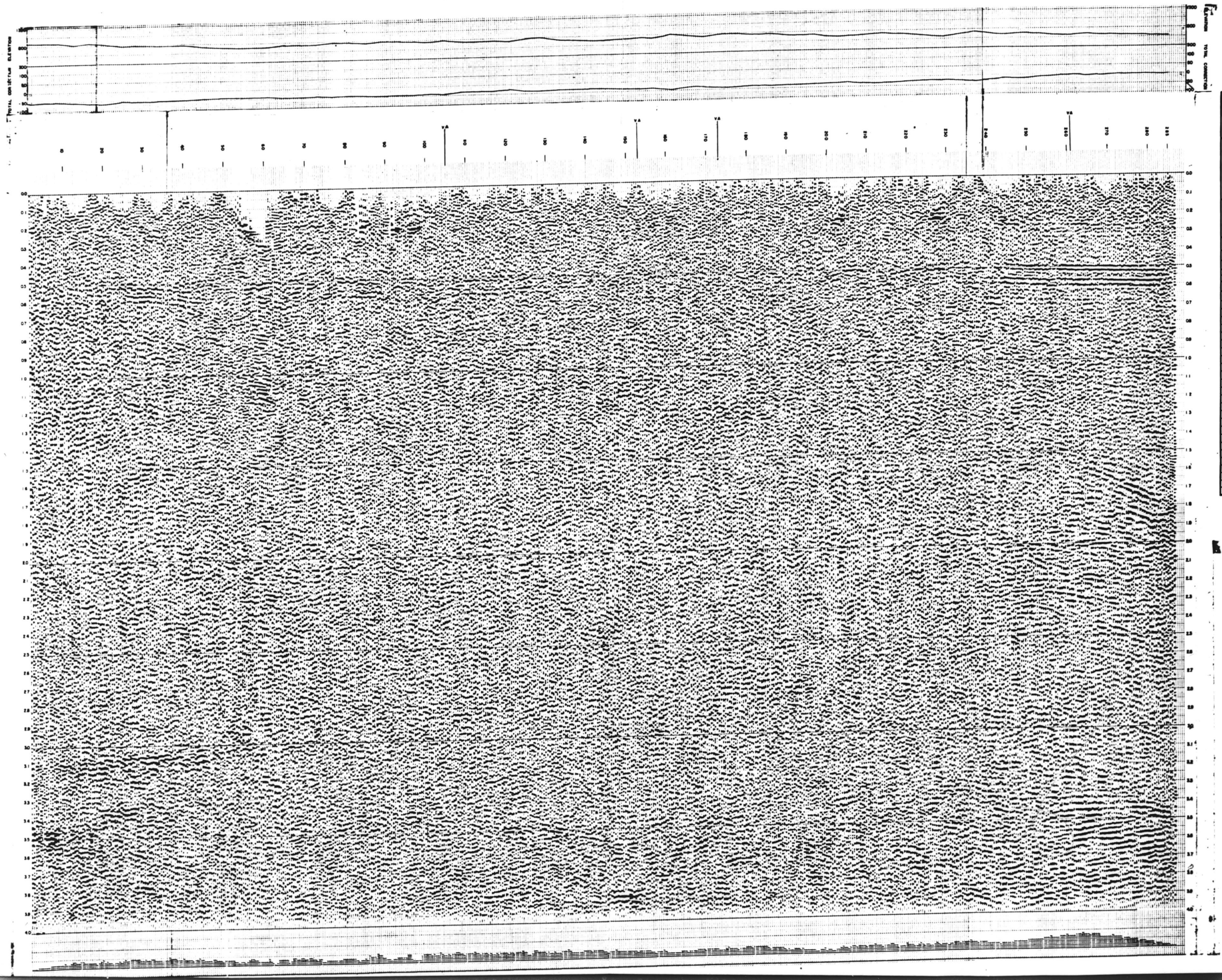
DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-60Hz 18-50Hz	0-1,200 1,200-4,000
FILTER (W.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev. Wx.	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10+25	450-2,200 2,200-3,800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS - [illegible] (in Field)	11			
FILTER (CONV)	14		25-70Hz	0-4,000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975	DATUM 700'	[illegible] VELOCITY 17,500'/sec

038-06-06-047-4

19



038-06-06-047

SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

19 NE

SEFEL J. D ASSOCIATES LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICES INCORPORATED

DFS IV

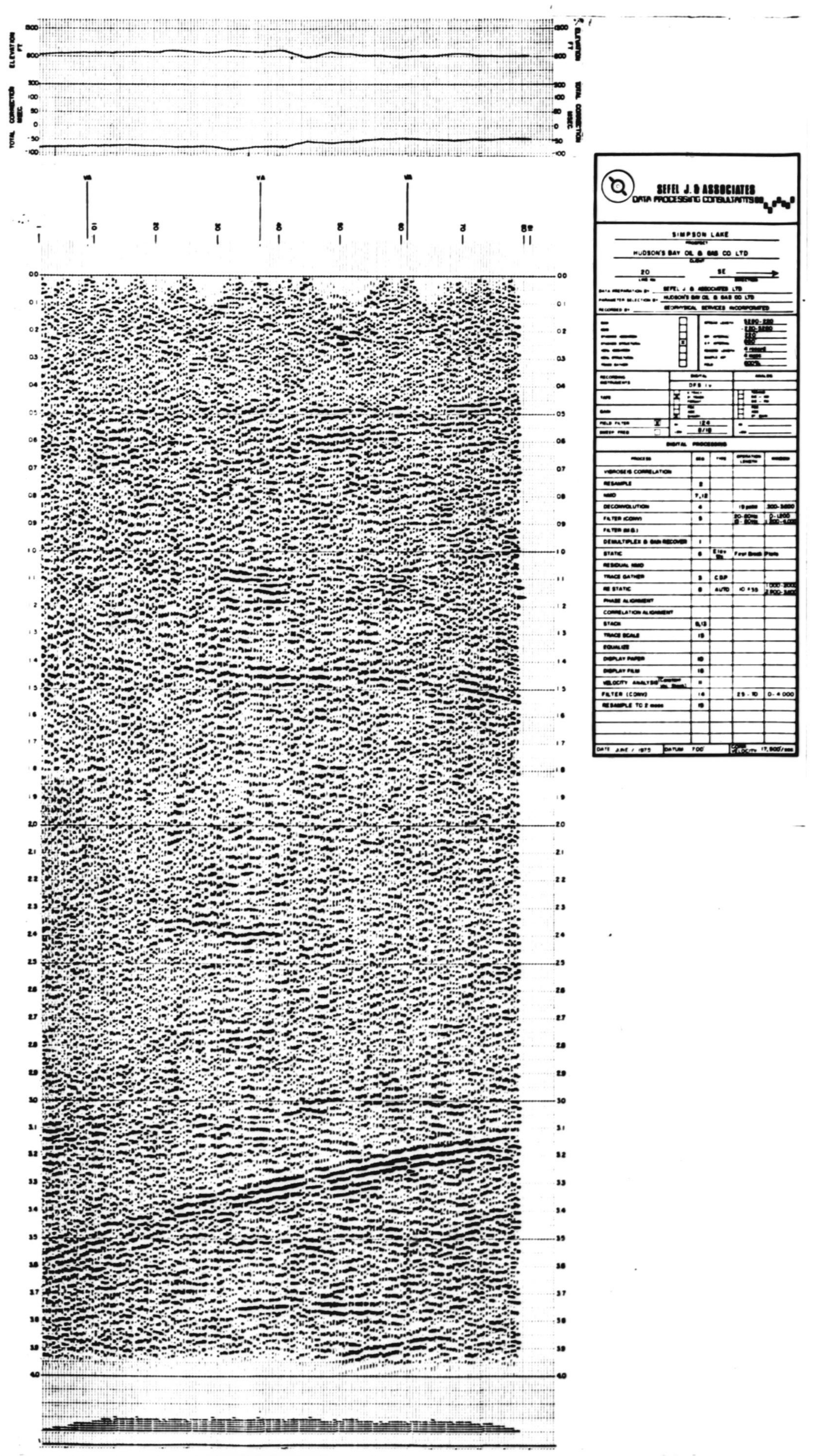
DIGITAL PROCESSING

PROCESS	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3600
FILTER (CONV)	5		20-80Hz 10-80Hz	0-1200 1200-4000
FILTER (M.D.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev	First Break	Plots
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	16 125	400-2400
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS	8			
FILTER (CONV)	14		25 - 70	0 - 4 000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700' VELOCITY 17,500'/sec.

38-

20



SEFEL J. D ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

20 SE

SEFEL J. D ASSOCIATES LTD
HUDSON'S BAY OIL & GAS CO LTD
GEOPHYSICAL SERVICES INCORPORATED

DFS IV

124
8/10

DIGITAL PROCESSING

PROCESS	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		19 point	300-3600
FILTER (CONV)	5		20-60Hz 12-50Hz	0-1200 1200-4000
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 *35	1000-200 2800-340
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS	11			
FILTER (CONV)	14		25 - 10	0- 4 000
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975 DATUM 700' VELOCITY 17,900'/sec

SEFEL J. D. ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE
[illegible]

HUDSON'S BAY OIL & GAS CO LTD
[illegible]

27-A
[illegible]

NE →
[illegible]

[illegible] SEFEL J. D. ASSOCIATES LTD
[illegible] HUDSON'S BAY OIL & GAS CO LTD
[illegible] GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	[illegible]	[illegible]
[illegible]	☐		[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☒	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]
	DFS IV	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		[illegible]	300-3600
FILTER (COMM)	5		[illegible] [illegible]	0-1200 1200-40
FILTER (MAG)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev. [illegible]	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 36	2,200-3,600
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,10			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	6			
FILTER (COMM)	14		25-70	0-4000
RESAMPLE TO 2 msec	10			

DATE JUNE / 1973	DATUM 700'	[illegible] VELOCITY 17,000'/sec.

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO LTD

27 | 1 → 2

[illegible] SEFEL J. & ASSOCIATES LTD
[illegible] HUDSON'S BAY OIL & GAS CO LTD
[illegible] GEOPHYSICAL SERVICE INCORPORATED

[illegible]	☐	[illegible]	[illegible]
[illegible]	☐		[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☒	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]
[illegible]	☐	[illegible]	[illegible]

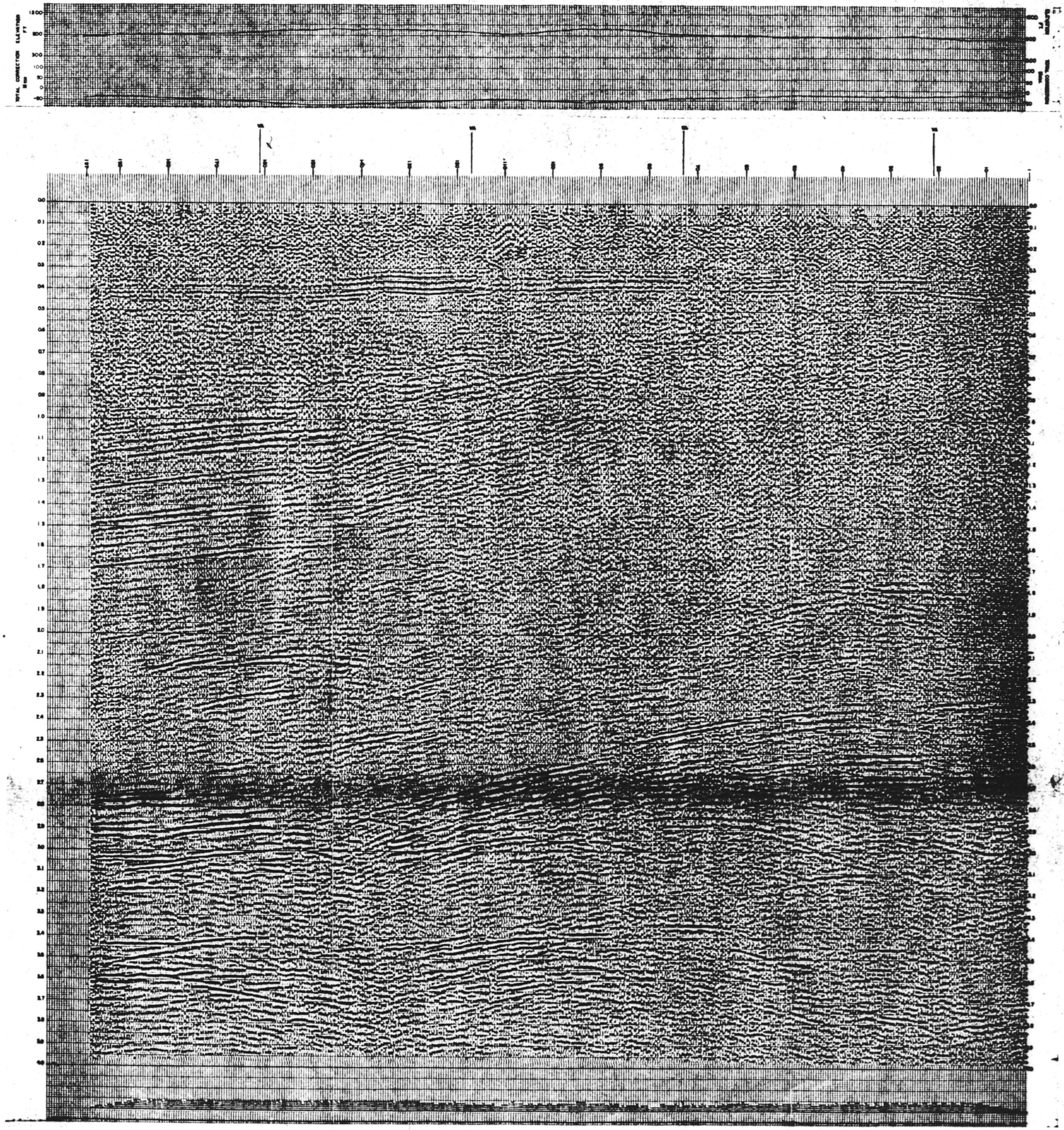
[illegible]	[illegible]	[illegible]
	DFS IV	
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible] ☒	[illegible]	[illegible]
[illegible] ☐	[illegible]	[illegible]

DIGITAL PROCESSING

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7,12			
DECONVOLUTION	4		[illegible]	[illegible]
FILTER [illegible]	5		[illegible]	[illegible]
FILTER [illegible]				
DEMULTIPLEX & GAIN REMOVAL	1			
STATIC	6	[illegible]	[illegible]	[illegible]
RESIDUAL NMO				
TRACE GATHER	3	[illegible]		
RE STATIC	8	AUTO	[illegible]	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,13			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	[illegible]			
DISPLAY FILM	[illegible]			
VELOCITY ANALYSIS [illegible]	[illegible]			
FILTER [illegible]	14		[illegible]	[illegible]
RESAMPLE TO 2 msec	[illegible]			

DATE JUNE / [illegible]	DATUM 700'	[illegible] 17,000/[illegible]

038-06-06-047



SEFEL J. D. ASSOCIATES
DATA PROCESSING CONSULTANTS

SIMPSON LAKE

HUDSON'S BAY OIL & GAS CO. LTD.

EAST

SEFEL J. D. ASSOCIATES LTD.
HUDSON'S BAY OIL & GAS CO. LTD.
GEOPHYSICAL SERVICE INCORPORATED

DFS IV

12.5
8/10

DIGITAL PROCESSING

PROCESS	[illegible]	[illegible]	[illegible]	[illegible]
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		10 point	200-3400
FILTER ADDING	5		[illegible]	[illegible]
FILTER (AGC)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	[illegible]	First Break	Plots
[illegible] NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 ± 20	[illegible]
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9, 13			
TRACE SCALE	10			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Computed Vel. Scan)	5			
FILTER (CODING)	14		20 - 70	
RESAMPLE TO 2 msec	15			

DATE JUNE / 1973 | DATUM 700' | 17,000'/sec.

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS LTD

SIMPSON LAKE
PROSPECT

HUDSON'S BAY OIL & GAS CO LTD
CLIENT

30
LINE No.

NE →
DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY: HUDSON'S BAY OIL & GAS CO LTD
RECORDED BY: GEOPHYSICAL SERVICES INCORPORATED

[illegible]	☐	SPREAD LENGTH	5280-220 220-5280
[illegible]	☐		220
[illegible]	☐	SP INTERVAL	[illegible]
[illegible]	☒	GP INTERVAL	[illegible]
[illegible]	☐	RECORD LENGTH	4 second
[illegible]	☐	SAMPLE RATE	4 msec
[illegible]	☐	FOLD	600%

	DIGITAL	ANALOG
RECORDING INSTRUMENTS	DFS IV	
TAPE	☐ [illegible] ☒ [illegible] ☐ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
GAIN	☐ [illegible] ☐ [illegible] ☒ [illegible]	☐ [illegible] ☐ [illegible] ☐ [illegible]
FIELD FILTER ☒	124	
SWEEP FREQ ☐	8/18	

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE	2			
NMO	7, 12			
DECONVOLUTION	4		19 point	300-3800
FILTER (CONV)	5		20-60Hz 10-50Hz	0-1200 1,200-[illegible]
FILTER (M.G.)				
DEMULTIPLEX & GAIN RECOVER	1			
STATIC	6	Elev Dt.	First Break Plots	
RESIDUAL NMO				
TRACE GATHER	3	CDP		
RE STATIC	8	AUTO	10 + 20	400-2000 2,000-3800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9,10			
TRACE SCALE	15			
EQUALIZE				
DISPLAY PAPER	10			
DISPLAY FILM	16			
VELOCITY ANALYSIS (Constant Vel. Stack)	8			
FILTER (CONV)	14		25-70	0-4200
RESAMPLE TO 2 msec	15			

DATE JUNE / 1975

DATUM 700'

CORR. VELOCITY 17,500'/sec