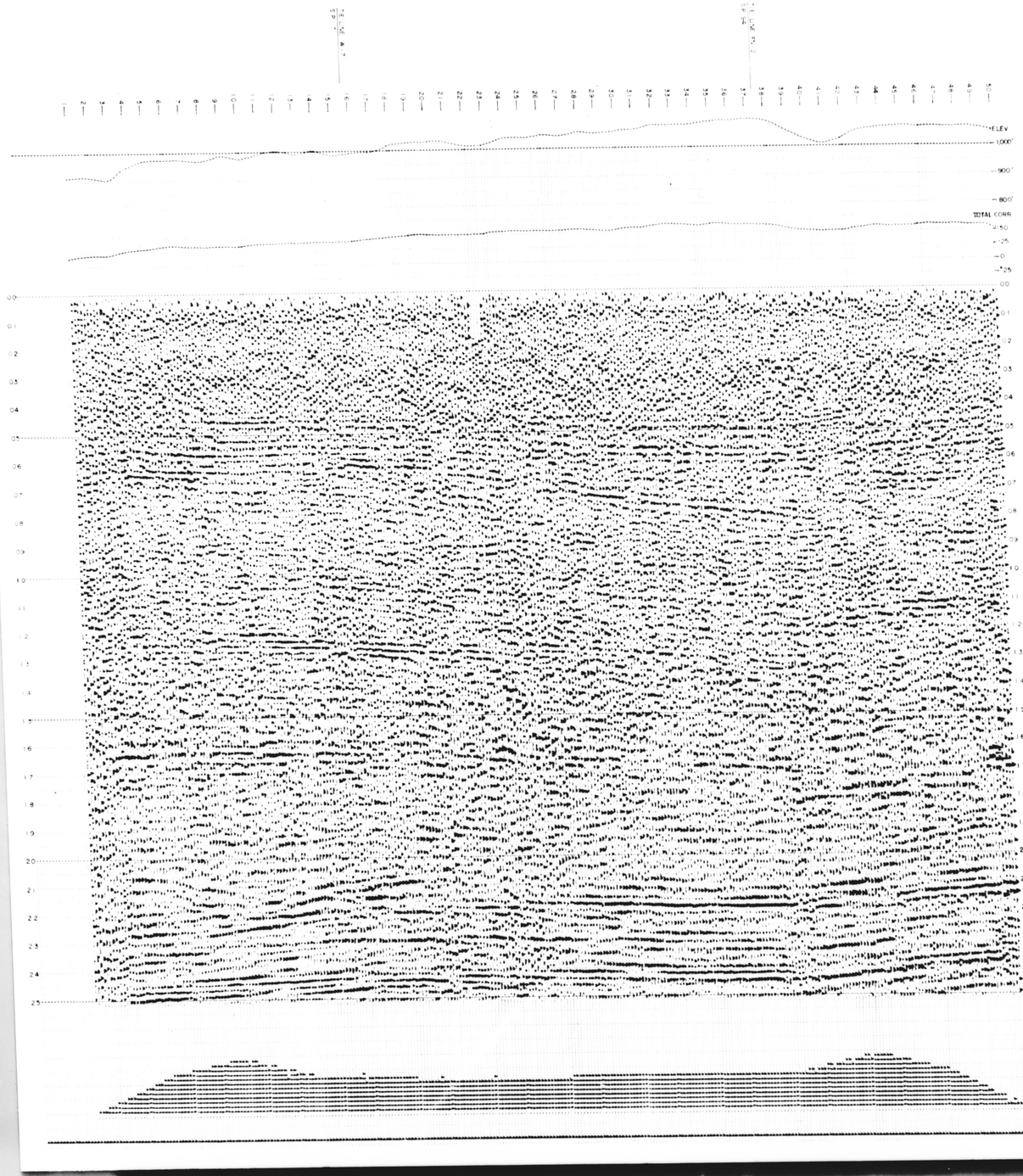
690-06-06-012- 10

line W-9



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

COLVILLE LAKE
PROSPECT
PETROLINA CANADA LTD
CLIENT
W-9 — SE
LINE No. — DIRECTION
DATA PREPARATION BY SEFEL J. AND ASSOCIATES
PARAMETER SELECTION BY SEFEL J. AND ASSOCIATES
RECORDED BY WESTERN GEOPHYSICAL COMPANY OF CANADA LTD.

	DIGITAL	ANALOG
RECORDING INSTRUMENTS		
TAPE		
GAIN		
FIELD FILTER		
SWEEP FREQ		

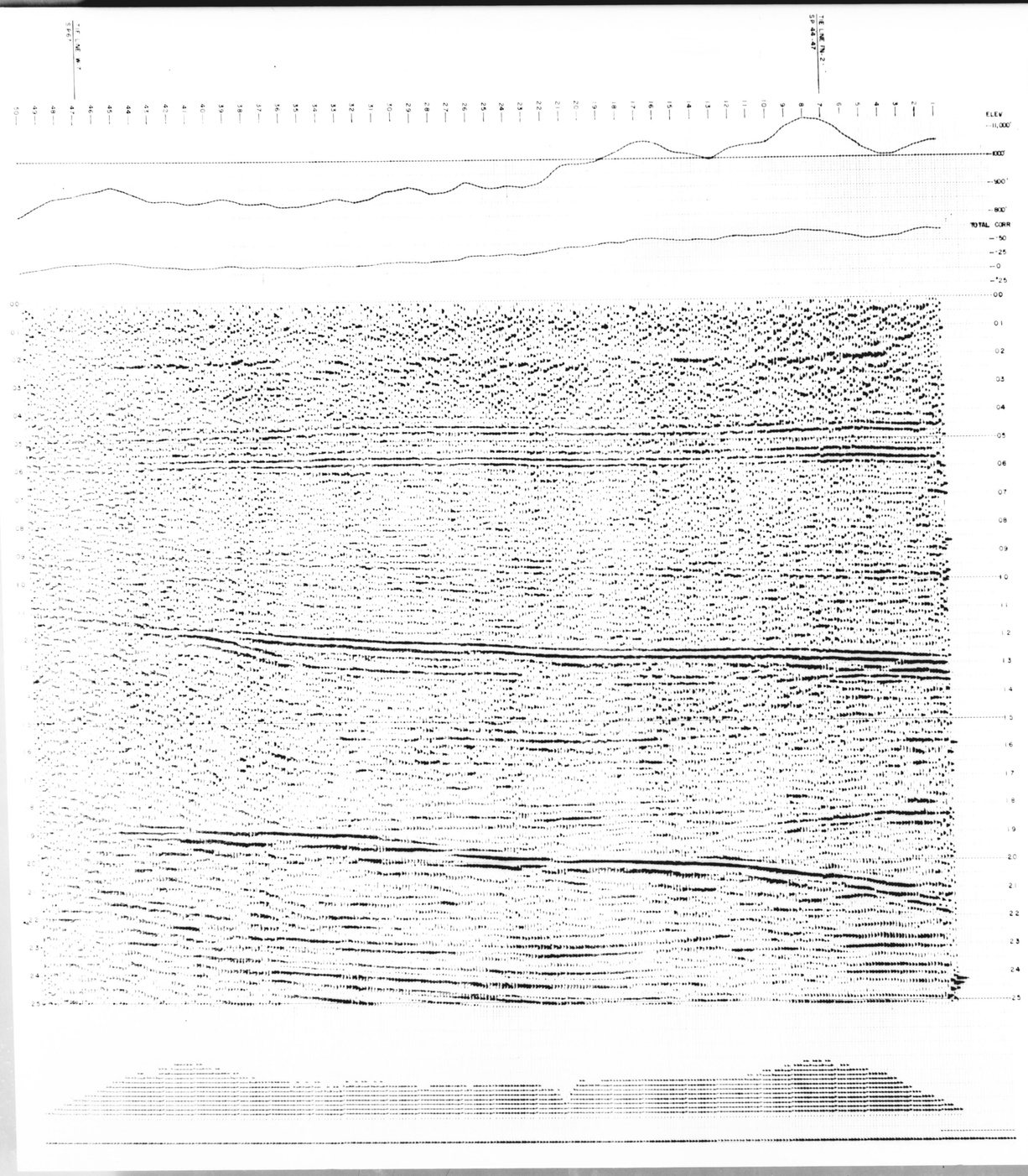
DIGITAL PROCESSING

PROCESS	SEQ.	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	8			
DECONVOLUTION	1	W.L.	19 PT	100 - 1900
FILTER (CONV)				
FILTER (M.G.)	4	B.P.	5/10-25-45/50	0 - 1000 - 1500 - 3000
DMPX & GAIN RECOVERY				
STATIC	6	W.X.		
RESIDUAL NMO				
TRACE GATHER	2			
RESTATIC	9	AUTO	120-12 H	500-2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	T.V.		
EQUALIZE	5		RMS	2200 - 500 - 4600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	7			

DATE MAY 12, 1975 — DATUM 900 — CORR. VELOCITY 1500 MS

690-06-06-012- 9

Line W-8



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

COLVILLE LAKE
PROSPECT
PETROFINA CANADA LTD
CLIENT
W - 8
LINE No.
SE
DIRECTION
DATA PREPARATION BY SEFEL J. AND ASSOCIATES
PARAMETER SELECTION BY SEFEL J. AND ASSOCIATES
RECORDED BY WESTERN GEOPHYSICAL COMPANY OF CANADA LTD.

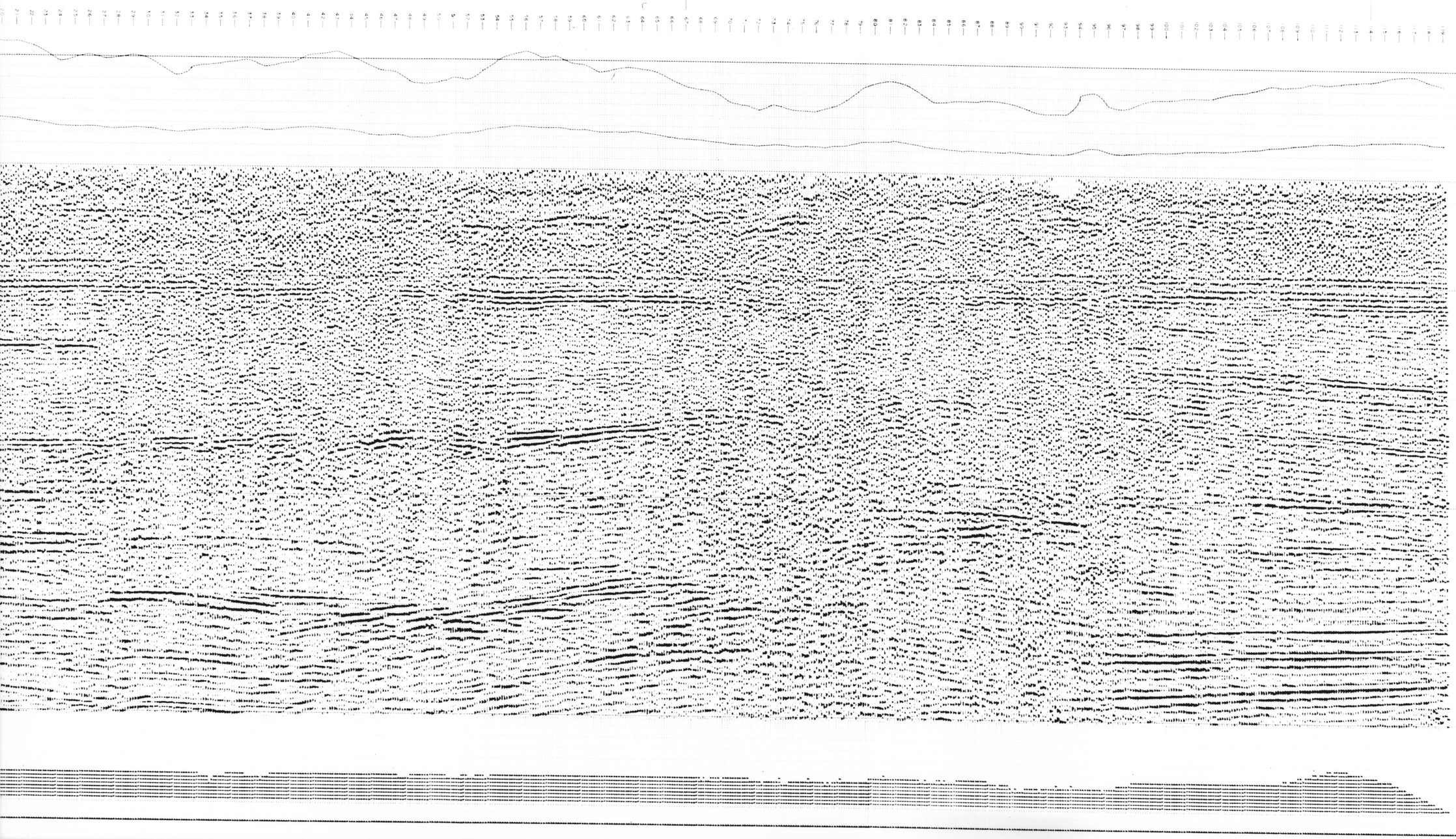
RECORDING INSTRUMENTS	DIGITAL	ANALOG
TAPE	9 TRACK 7 TRACK	TAPE No.
GAIN	FIXED BINARY	
FIELD FILTER	8	64
SWEEP FREQ	12	120

DIGITAL PROCESSING

PROCESS	SEQ.	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	4			
DECONVOLUTION	5	W.L.	0.5 PT	500-1900
FILTER (CONV.)				
FILTER (M.G.)	6	B.P.	30/35-65/70	500-3000
DISP. & GAIN RECOVERY				
STATIC	6	W.S.		
RESIDUAL NMO				
TRACE GATHER	7			
RESTATIC	9	AUTO	120/12 M	500-2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	T.V.		
EQUALIZE	5		RMS 2200	500-1600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	7			

DATE MAY 12 1975 | DATUM 1000 | CORR. VELOCITY 4500 M/S

690-06-06-012- 3



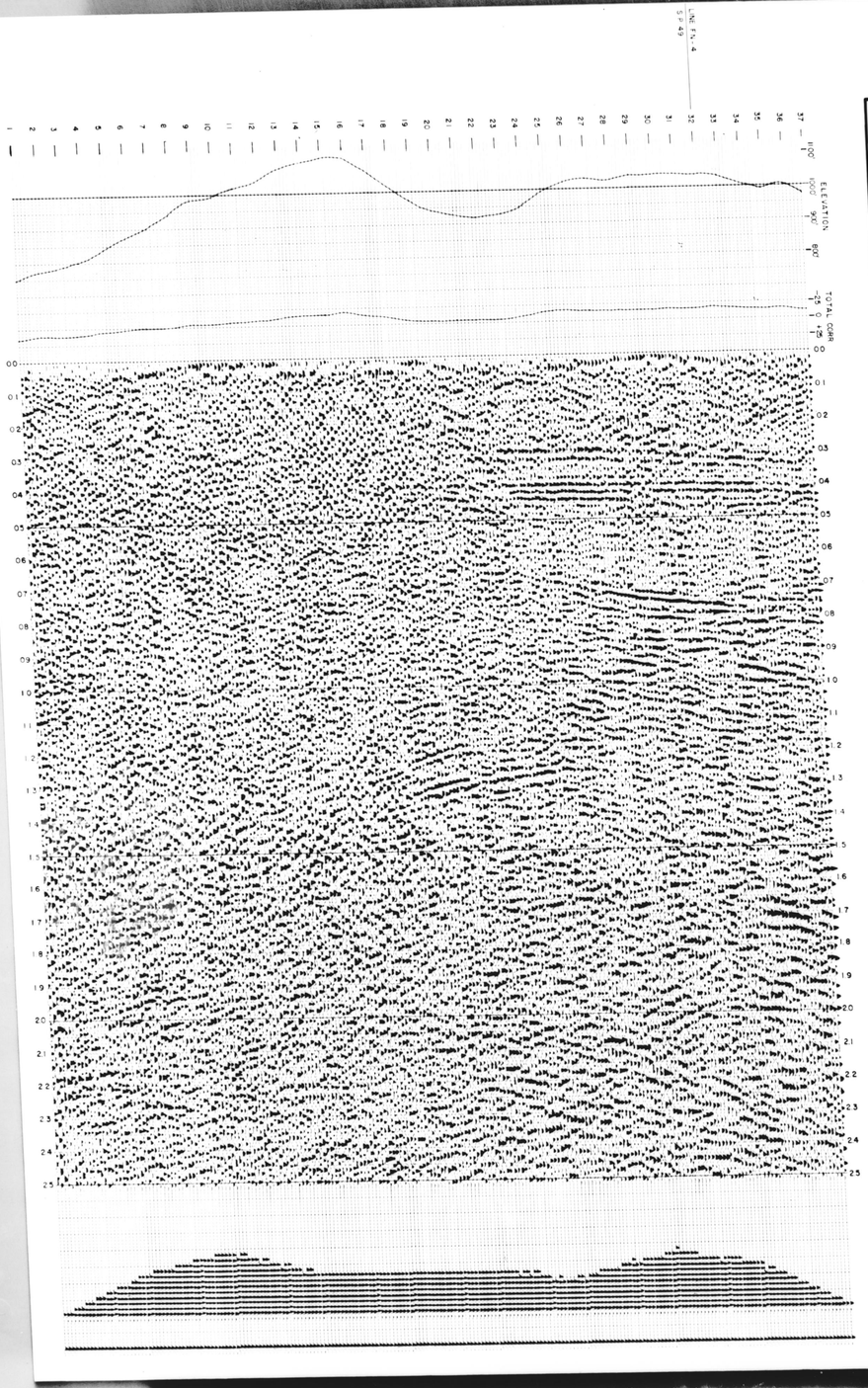
SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

DIGITAL PROCESSING

690-06-06-012- 3

690-06-06-012-4

Line W-6



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

COLVILLE LAKE
AREA
PETROFINA CANADA LTD.
CLIENT
W.-E. (DIP N.)
NE (DIP S.)
DIRECTION
DATA PREPARATION BY: SEFEL J. AND ASSOCIATES
PARAMETER SELECTION BY: SEFEL J. AND ASSOCIATES
RECORDED BY: WESTERN GEOPHYSICAL COMPANY OF CANADA LTD.

SPREAD - ENDON	TRACES - TOTAL 60 (60 - 364)
S.P. INTERVAL	264
S.P. INTERVAL	660
RECORD - LENGTH	3 SEC.
SAMPLE INT.	4
FOLD	60 (30 %)

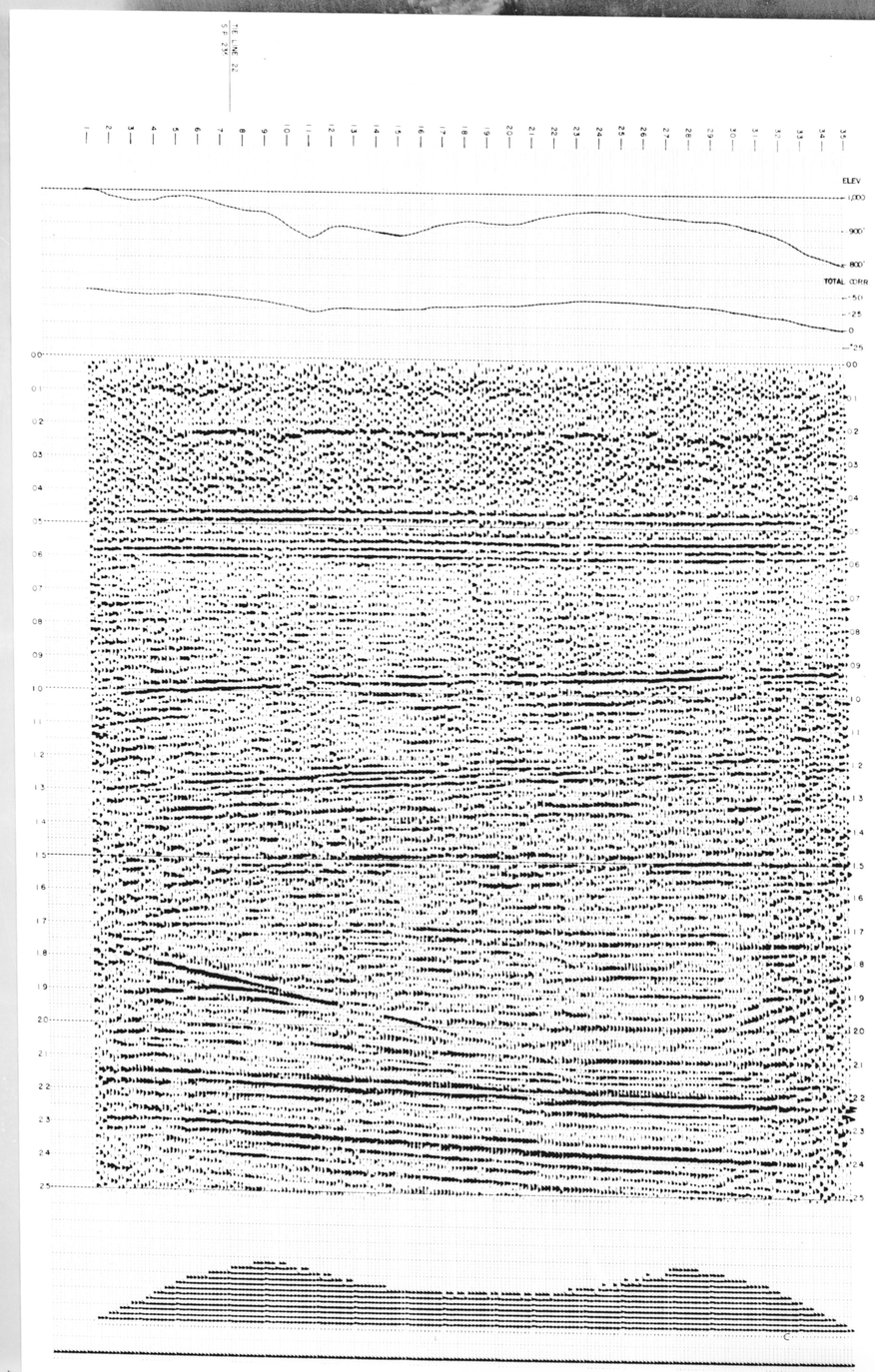
RECORDING INSTRUMENTS	DIGITAL	ANALOG
TAPE	1 9 TRACK 2 7 TRACK 3 NO.	1 1/2 IPS 2 3.5 IPS 3 7.5 IPS
GAIN	1 FIXED 2 BINARY	1 FIXED 2 AGC
FIELD FILTER	3 — 124 HP — 12	3 — HP —
SWEEP FREQ		

DIGITAL PROCESSING

PROCESS	SEQ.	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	8			
DECONVOLUTION	3	W.L.	79 PT.	100 - 1900
FILTER (CONV)				
FILTER (M.G.)	4	B.P.	32/45-65/80-000	1845 - 500 - 3000
DMPX & GAIN RECOVERY				
STATIC	6	W.X.		
RESIDUAL NMO				
TRACE GATHER	2			
RE STATIC	9	AUTO	720-12 H	500-2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	T.V.		
EQUALIZE	5		RM = 2200	500 - 1600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	7			

DATE MAY 12, 1975 | DATUM 1,000 | CDMP VELOCITY 7,500 FEET

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690-06-06-012

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

COLVILLE LAKE
PROJECT
PETROFINA CANADA LTD
CLIENT
W-S — SE
LINE NO. — DIRECTION

DATA PREPARATION BY SEFEL J. AND ASSOCIATES
PARAMETER SELECTION BY SEFEL J. AND ASSOCIATES
RECORDED BY WESTERN GEOPHYSICAL COMPANY OF CANADA LTD

FOLD		SPREAD LENGTH	5940' (1KL)
MIX			(1KL - 5940)
STACKED SEQUENCE		GP. INTERVAL	55'
STACKED STRUCTURAL	24	GP. INTERVAL	495'
REC. SEQUENCE		RECORD LENGTH	2 SEC
REC. STRUCTURAL		SAMPLE INT.	4
TRACE GATHER		FILE	MOBIL

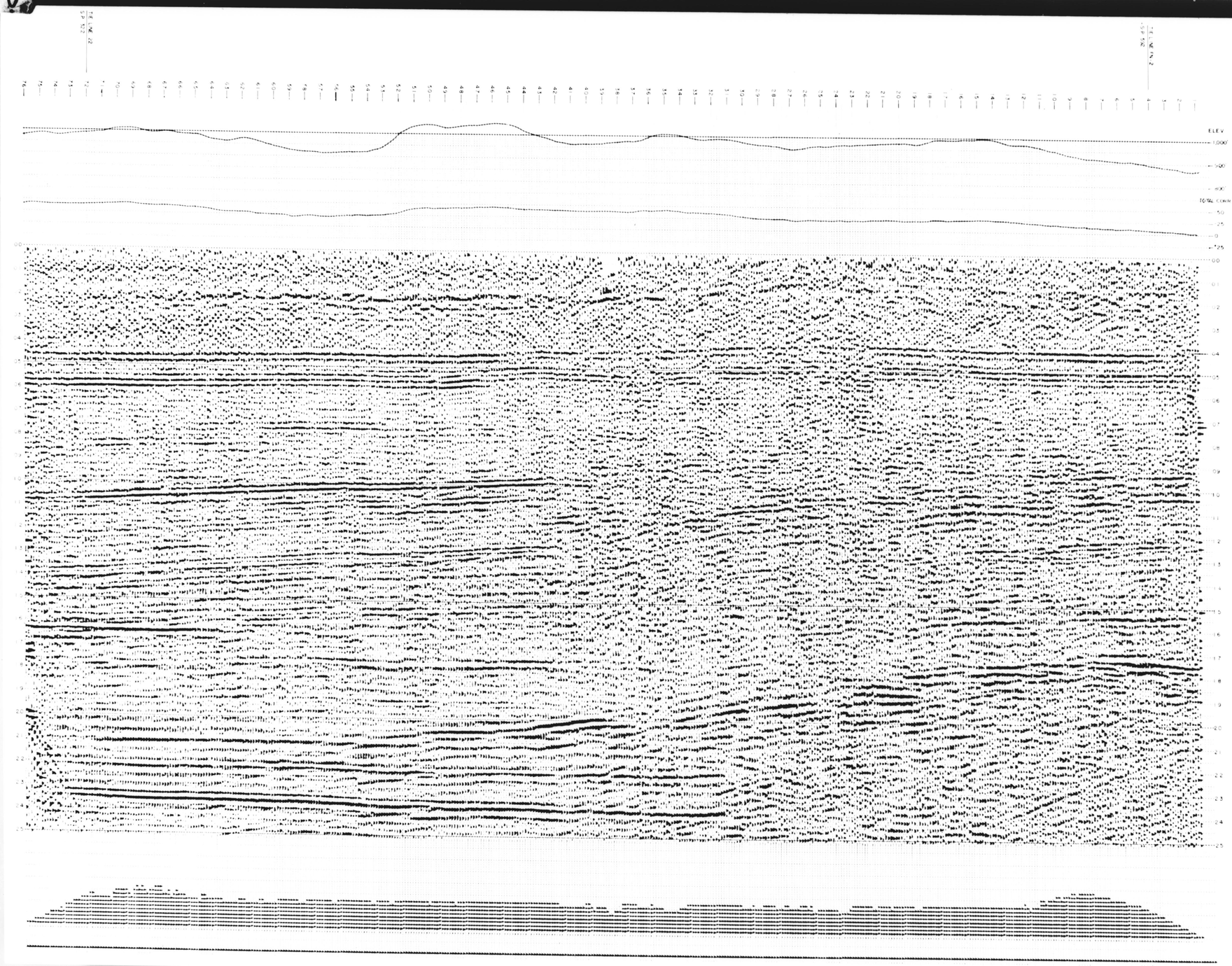
RECORDING INSTRUMENTS	DIGITAL	ANALOG
TAPE	24 TRACK	24 TRACK
	1/2" TRACK	1/2" TRACK
	800 BPI	800 BPI
GAIN	FIXED	FIXED
FIELD FILTER	8	
SWEEP FREQ		

DIGITAL PROCESSING

PROCESS	SEQ.	TYPE	OPERATOR LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	8			
DECONVOLUTION	3	W.L.	19 PT	100 - 1900
FILTER (CONV)				
FILTER (MIG)	4	B.P.	25-65-70-1000	
EMPX & GAIN RECOVERY	1		18-65, 500-3000	
STATIC	6	W.X.		
RESIDUAL NMO				
TRACE GATHER	2			
RESTATIC	9	AUTO	120 +12 H	500-2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	T.V.		
EQUALIZE	5		RM + 22.00	500 - 1600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	7			

DATE MAY 12, 1975 DATUM 1,000 CORR VELOCITY 17,500/SEC

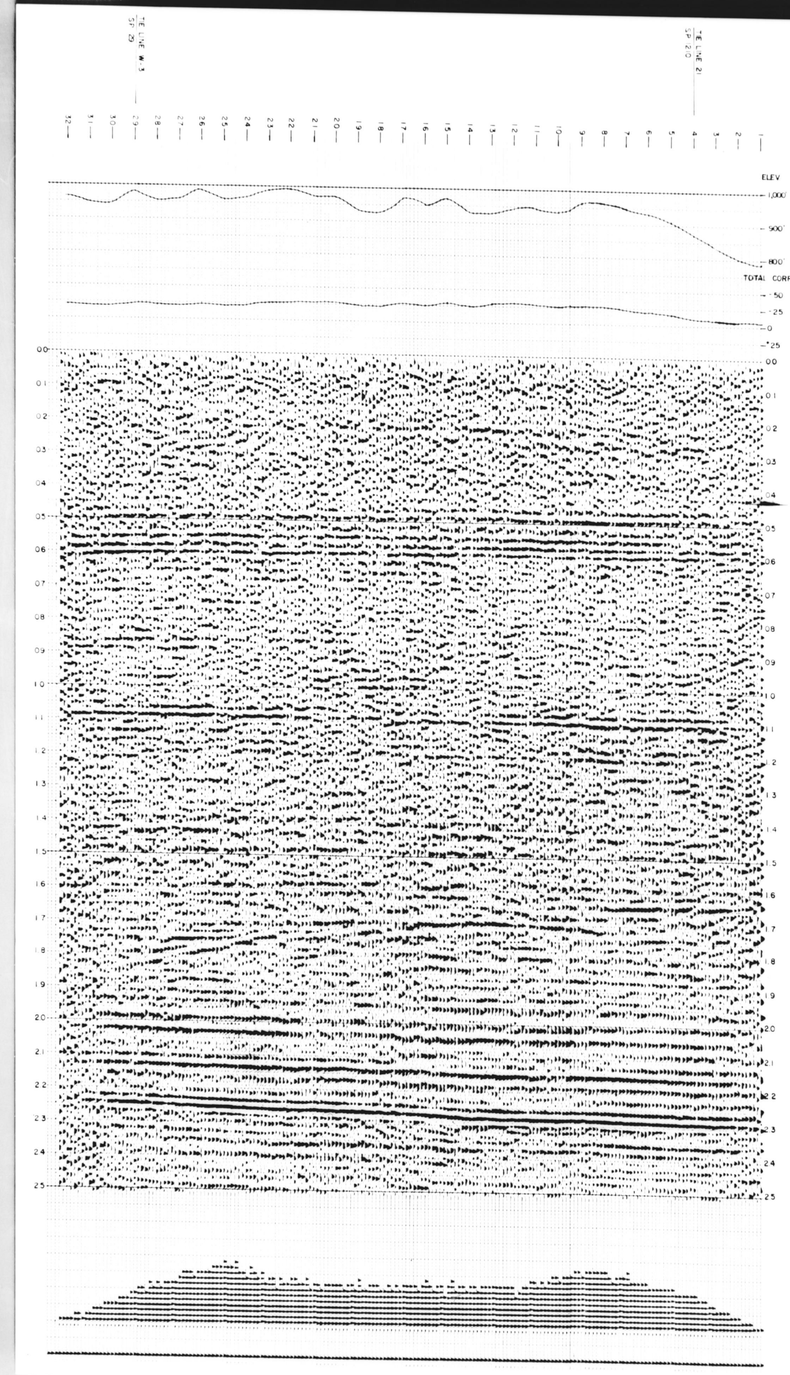
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690-06-06-012
SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

DIGITAL PROCESSING

690-06-06-012-7



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

COLVILLE LAKE
PROSPECT
PETROFINA CANADA LTD
CLIENT
W - 1 LINE No. NE DIRECTION
DATA PREPARATION BY SEFEL J. AND ASSOCIATES
PARAMETER SELECTION BY SEFEL J. AND ASSOCIATES
RECORDED BY WESTERN GEOPHYSICAL COMPANY OF CANADA LTD.

SPREAD LENGTH	1940 - 160 160 - 5640
S.P. INTERVAL	660 440
RECORD LENGTH	3 SEC.
SAMPLE INT.	4 1600 Hz

RECORDING INSTRUMENTS	DIGITAL	ANALOG
TAPE	1 - 8 TRACK 2 - 8 TRACK 3 - 7 TRACK	1 - 16 CHAN. 2 - 8 CHAN. 3 - 8 CHAN.
GAIN	1 - FIXED 2 - FIXED 3 - BINARY	1 - FIXED 2 - FIXED 3 - ST. GAIN
FIELD FILTER	1 - 124 2 - 12	1 - 2 -
SWEEP FREQ	1 - 12 2 -	1 - 2 -

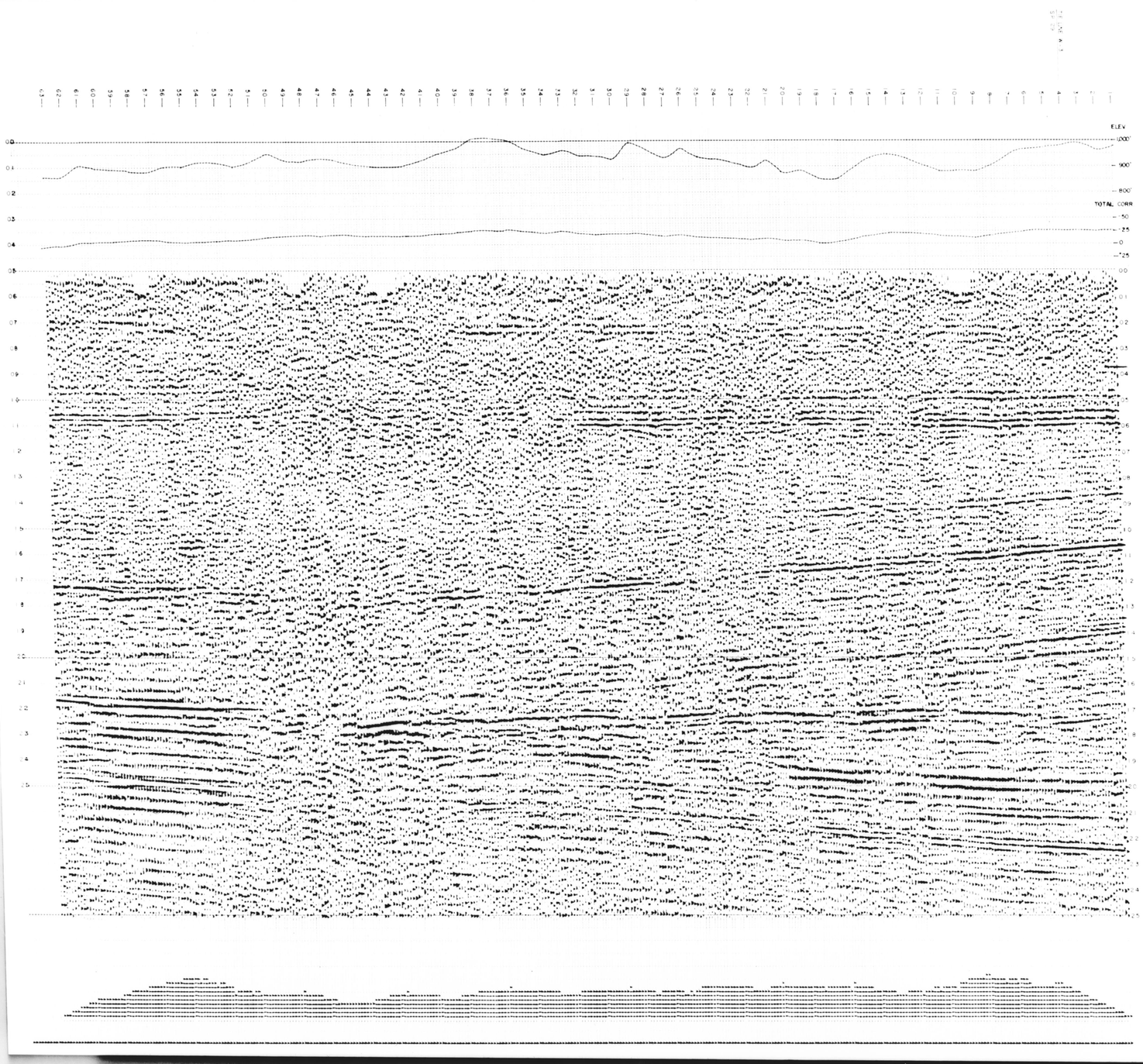
DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	8			
DECONVOLUTION	3	M.L.	9 PT.	100 - 1900
FILTER (CONV)				
FILTER (M.G.)	4	B.P.	30	25-65-1000 18-65-500-3000
DMPX & GAIN RECOVERY	1			
STATIC	6	M.X.		
RESIDUAL NMO				
TRACE GATHER	2			
RE STATIC	9	AUTO	T 20 - 12 H	500-2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	T.V.		
EQUALIZE	5		RM = 2200	500 - 1600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	7			

DATE MAY 12, 1975 DATUM 1,000 CORR VELOCITY 17,500 FT/SEC

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line W-2



SEFEL J. B ASSOCIATES
DATA PROCESSING CONSULTANTS

SOUTH LAKE
PROSPECT
PETROFINA CANADA LTD.
CLIENT
W - 2
LINE NO.
SE
DIRECTION
DATA PREPARATION: SEFEL J. AND ASSOCIATES
PARAMETER SELECTION: SEFEL J. AND ASSOCIATES
RECORDED BY: AUTOSEIS (CANADA) LTD. AMOCO 2 CHANNEL

SHOT		TYPE
GAP		NO.
FIRST SHOT		LAT.
LAST SHOT		LONG.
NO. SHOTS		DATE
NO. TRACES		SHOT 1
REC. STATION		SHOT 2
FILE NO.		

RECORDING INSTRUMENTS	DIGITAL	ANALOG
TAPE		
GAIN		
FIELD FILTER		
SAMPLE FREQ.		

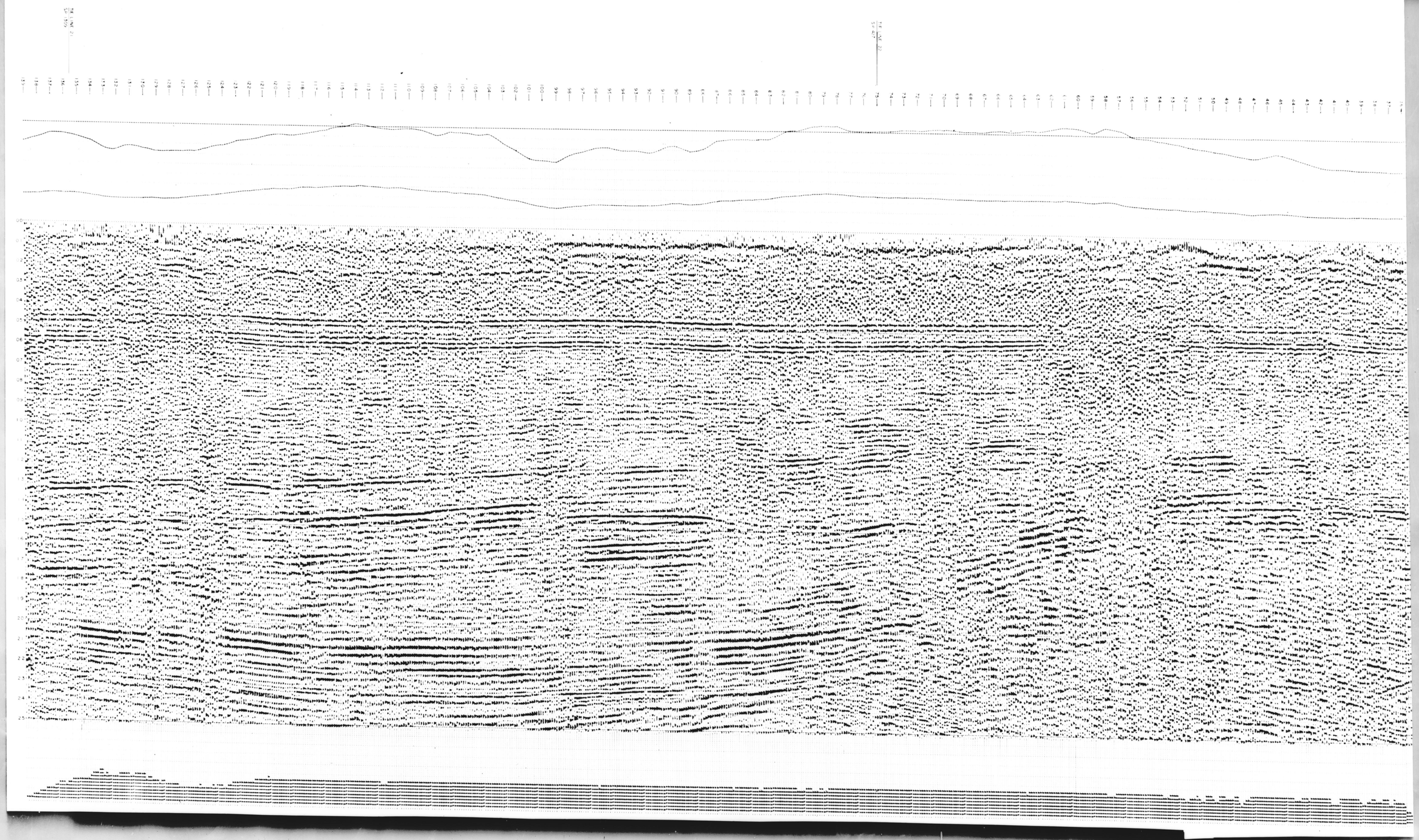
DIGITAL PROCESSING

PROCESS	SEQ.	TIME	VARIABLE CONSTANT	ANCHOR
VERTICAL CORRELATION				
RESAMPLE				
NMO	4			
DECONVOLUTION	1	W.L.	SHIFT	100 300
FILTER CONV.				
FILTER MIG.	4	P.F.	20 40 60 80	65 500 3000
EMPR. % GAIN RECOVERY				
STATIC	6	W.S.		
RESIDUAL NMO				
TRACE GATHER	2			
RESTATIC	9	AUTO	200 12H	400 1500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE		T.S.		
EQUALIZE	5		RM 2200	500 600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS				

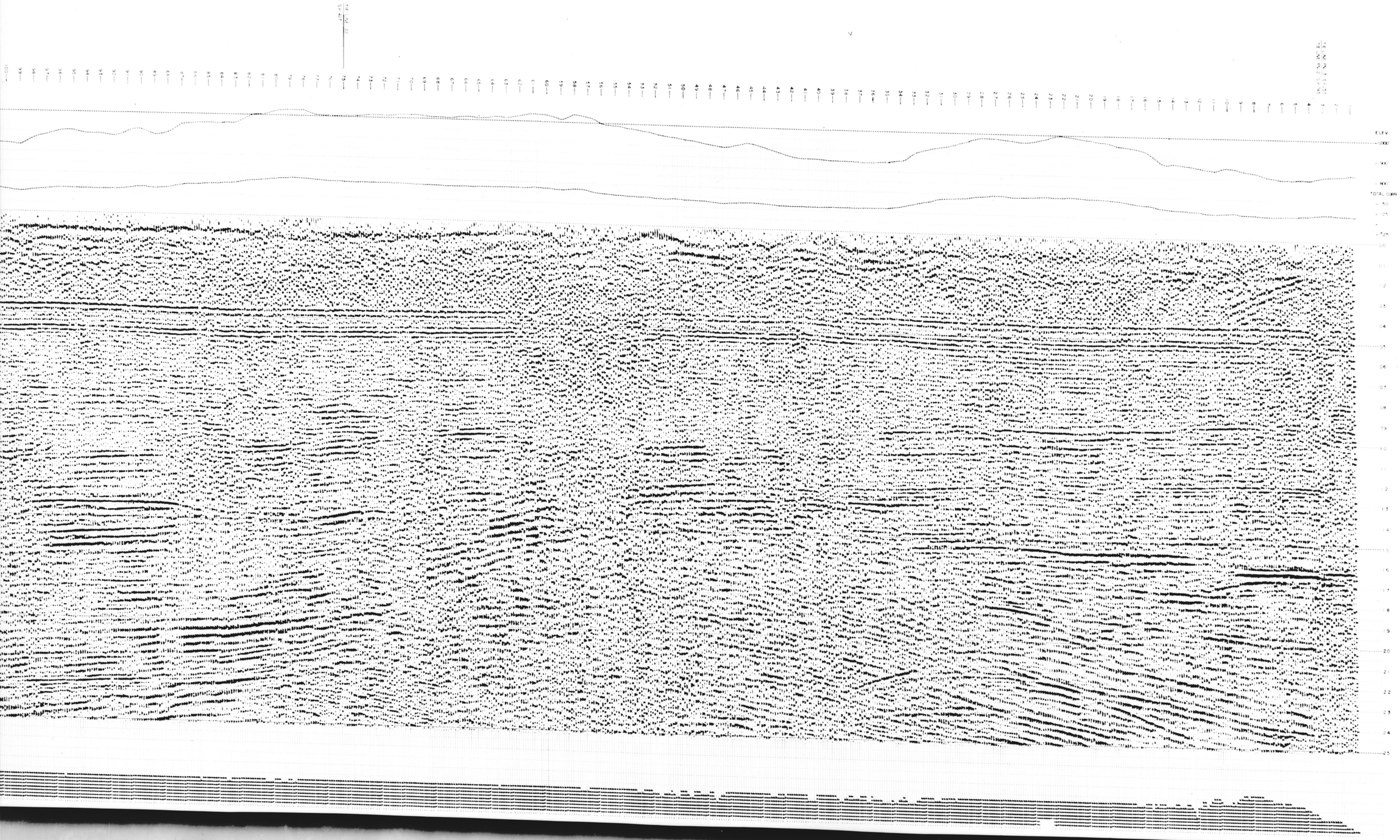
DATE MAY [illegible] DATUM [illegible] CORR. VELOCITY [illegible]

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Line W-1



690-06-06-012- 2



SEFEL J. B ASSOCIATES
DATA PROCESSING CONSULTANTS

COYOTE LAKE
PROSPECT
PETROCON CONSULTD
CLIENT
SE
LINE NO.
DATA PREPARED BY SEFEL J. B AND ASSOCIATES
PREPARED IN ASSOCIATION WITH SEFEL J. B AND ASSOCIATES
RECORDED BY PETTEN GEOPHYSICAL CONTRACTORS

YEAR		SPREAD LENGTH	7200 FT
SP		NO. OF TRACES	96
ENERGY SOURCE		SP INTERVAL	75 FT
SHOT DEPTH		NO. OF FOLDS	24
SHOT PATTERN		RECORD LENGTH	6 SEC
RECEIVER PATTERN		SAMPLE INT.	4 MS

FIELD ACQUISITION PARAMETERS	ORIGINAL	ANALYSIS
GAIN	0 DB/OCT	0 DB/OCT
FILTER	8 HZ	8 HZ
LOW CUT	8 HZ	8 HZ
HIGH CUT	125 HZ	125 HZ
NOTCH FILTER	IN	IN
STREET PULL	IN	IN

DIGITAL PROCESSING

PROCESS	SEQ.	TIMES	VARIABLES	WINDOW
VARIABLE CORRELATION				
RESAMPLE				
NMO	3			
DECONVOLUTION	5	MIN.	0.8 PT	700 - 900
FILTER (CONV)				
FILTER (MIG)	4		25 40 60 80	1000
EMPV. N GAIN RECOVERY			1.5 2.5 3.5	700 2000
STATIC	6			
RESIDUAL NMO				
TRACE GATHER	7			
RE STATIC	9	AUTO	20 - 12 H	500 - 2500
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	11	TV		
EQUALIZE	5		RM 2200	500 - 600
DISPLAY PAPER	12			
DISPLAY FILM	13			
VELOCITY ANALYSIS	4			

DATE MAY 12 1975 | DATUM 1000 | JOHN VELOCITY 7500 MS

2060 Walkley Rd. Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3602 Cable: TERRA

PROJ. NO: 6 9 0 6 0 6 0 1 2 LINE NO: M A P PART NO: 1 of 1 R.R. 8 x

690-6-6-012

