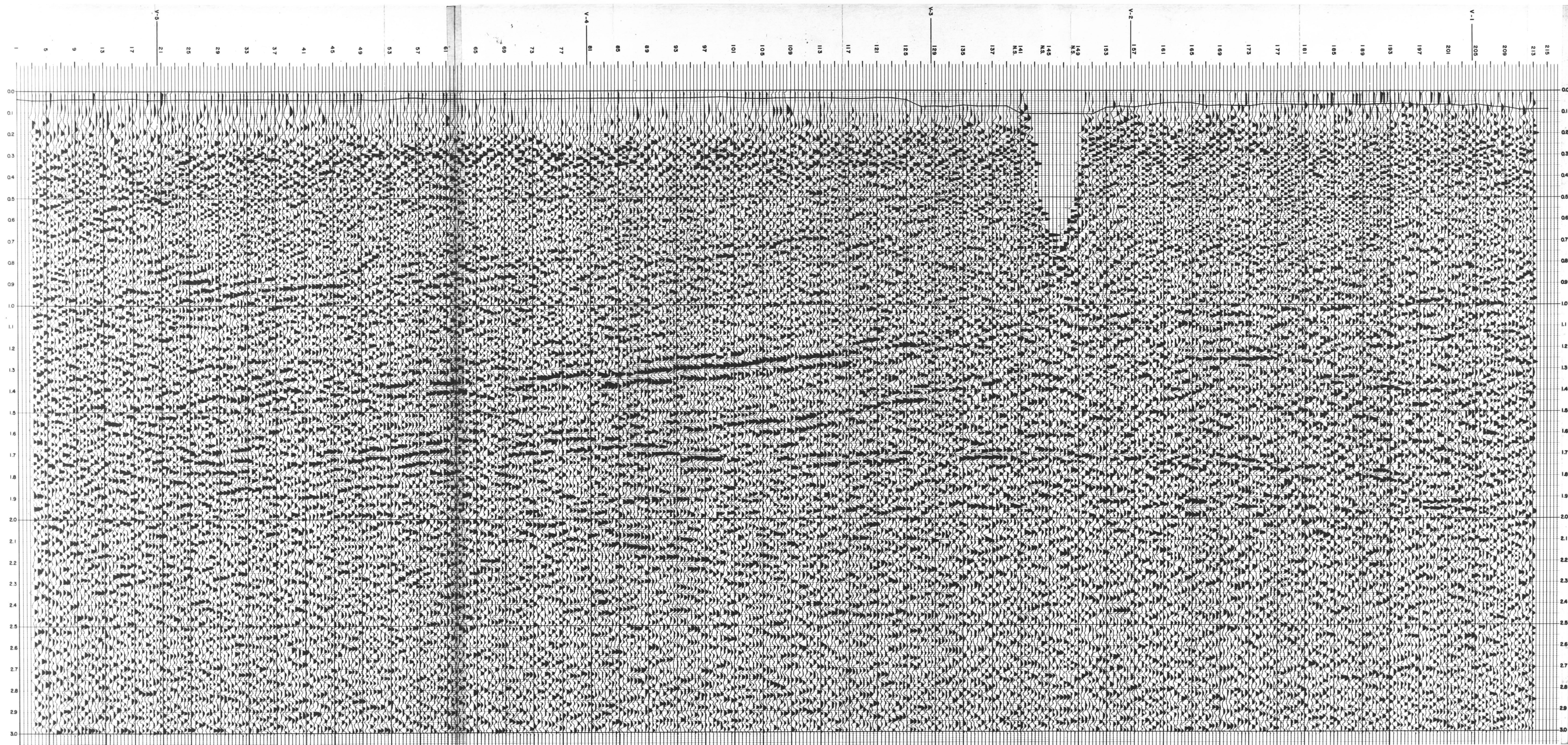




SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

NAHANNI BUTTE
PROJECT
MURPHY OIL COMPANY LTD.
CLIENT

2 SE DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES
RECORDED BY: GRESSER OLYMPIC CANADA

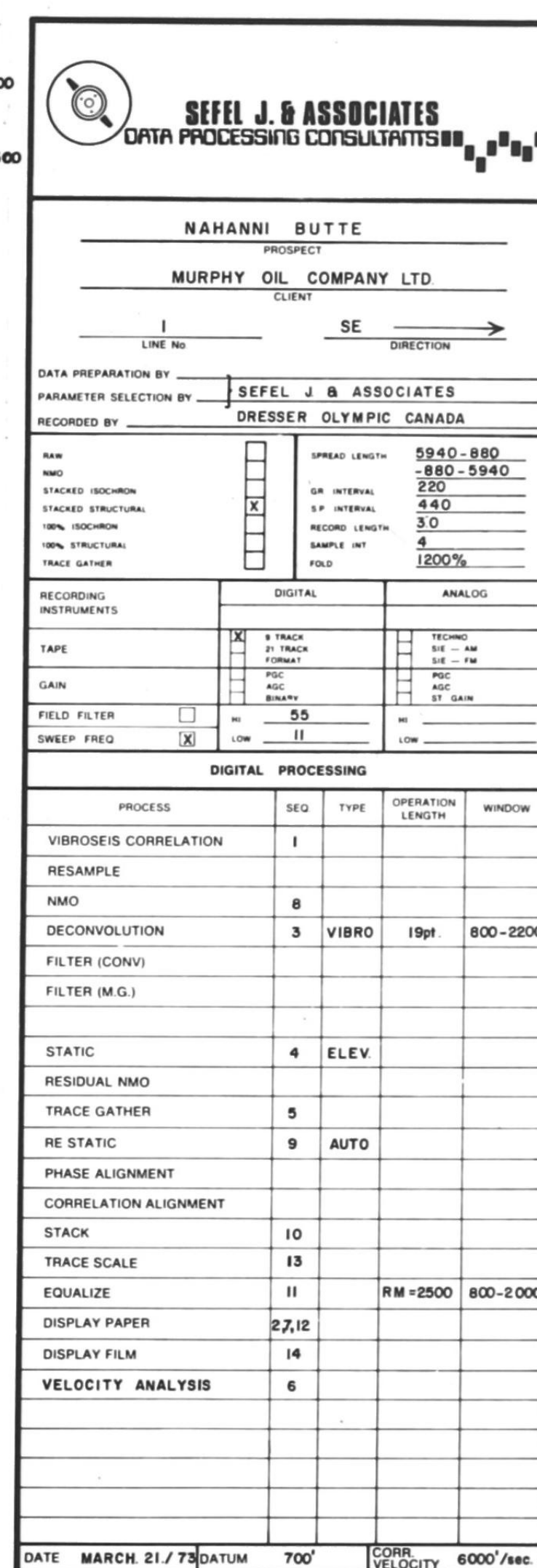
RAW: SPREAD LENGTH: 5940-880
STRETCHED COLUMN: 820
MIN. GROUND: 440
MAX. GROUND: 3.0
MIN. STRUCTURAL: 1000
MAX. STRUCTURAL: 1000

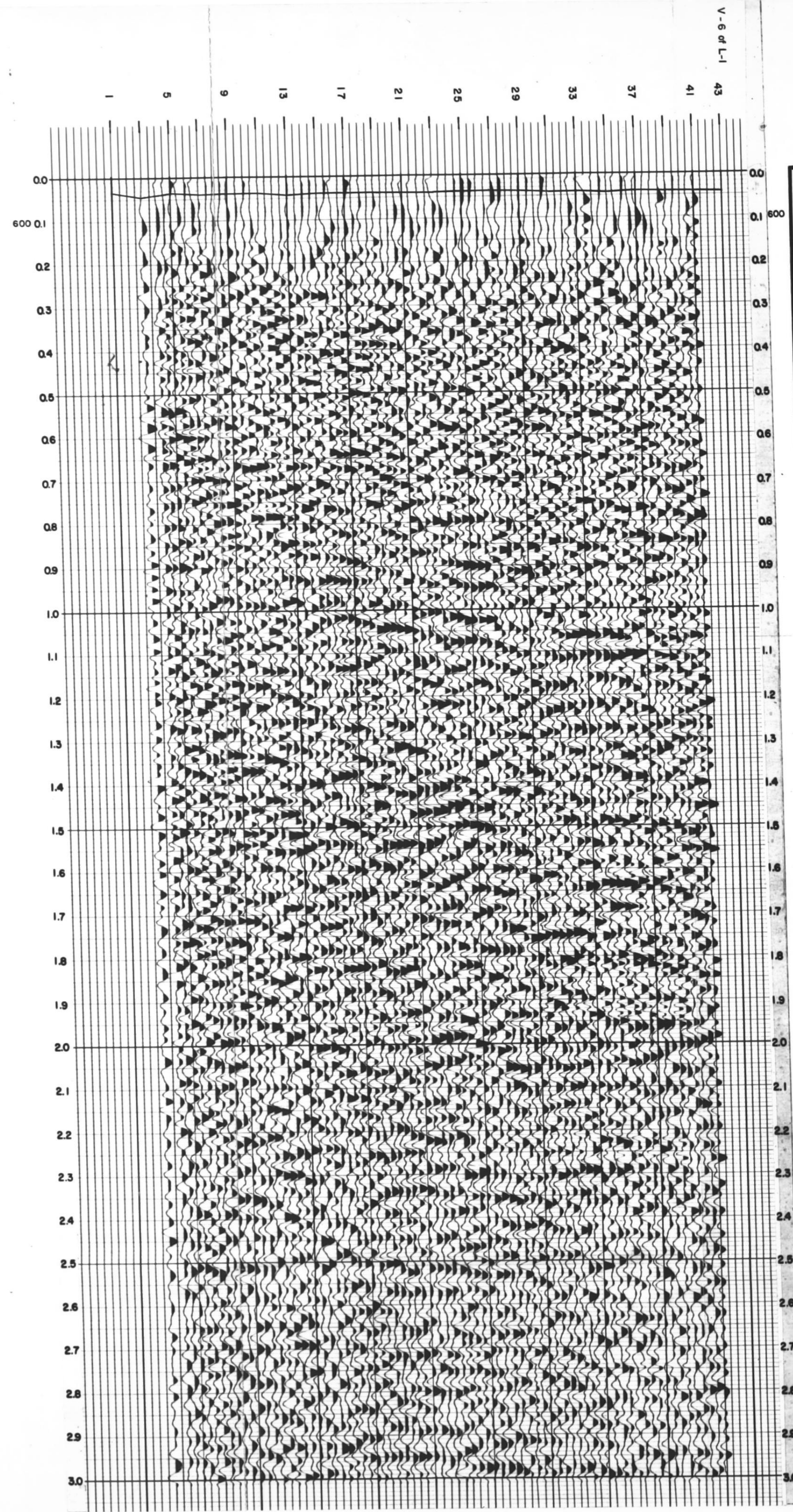
RECORDING: DIGITAL ANALOG
INSTRUMENTS: A TRACK: 11 TRACK: 11
TAPE: 11 TRACK: 11
GAIN: 11 TRACK: 11
FIELD FILTER: 11 TRACK: 11
SWEEP FREQ: 11 TRACK: 11

DIGITAL PROCESSING

PROCESS	SEG	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION	1			
RESAMPLE	6			
DECONVOLUTION	5	VIBRO	19 pt	800-2000
FILTER (CONV)				
FILTER (MG)				
STATIC	4	ELEV		
RESIDUAL NMO				
TRACE GATHER	5			
RE STATIC	9	AUTO		
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	15			
EQUALIZE	11			RM + 2500 800-2000
DISPLAY PAPER	2,710			
DISPLAY FILM	14			
VELOCITY ANALYSIS	6			

DATE: MARCH 21 / 73 DATUM: 700 CORR. VELOCITY: 6000/SEC





SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

NAHANNI BUTTE
PROJECT
MURPHY OIL COMPANY LTD.
CLIENT

LINE NO. 4 NE DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES
PARAMETER SELECTION BY: SEFEL J. & ASSOCIATES
RECORDED BY: DRESSER OLYMPIC CANADA

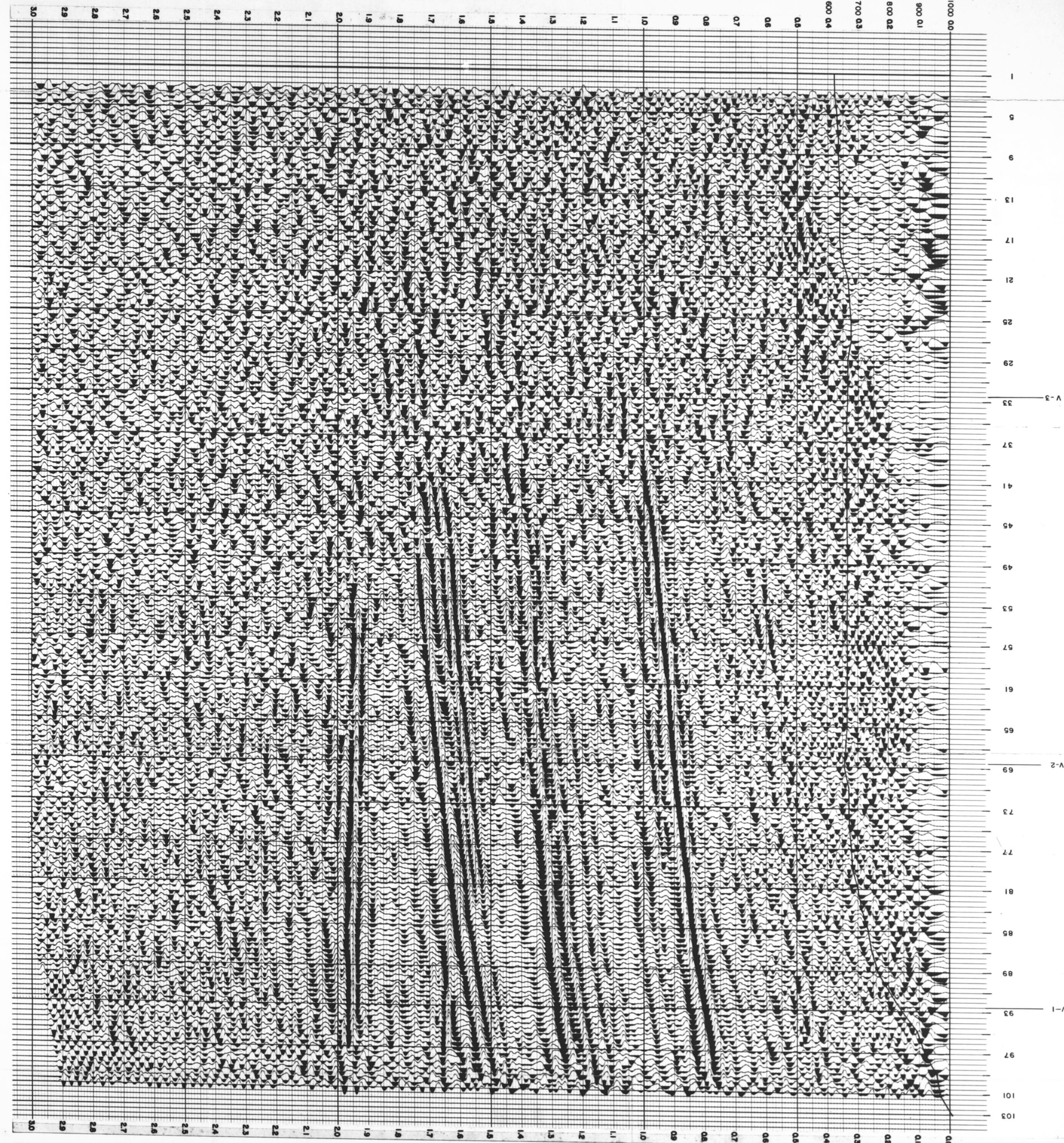
NAME: NAHANNI BUTTE
DATE: 1973
TIME: 10:00
LOCATION: NAHANNI BUTTE
WELL: NAHANNI BUTTE
WELL DEPTH: 1000 ft
WELL TYPE: NAHANNI BUTTE
WELL STATUS: NAHANNI BUTTE

RECORDING INSTRUMENTS: DIGITAL
TAPES: 1/2" 1500
GAIN: 100
FIELD FILTER: 55
SWEEP FREQ: 10

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION	1			
RESAMPLE				
NMO	8			
DECONVOLUTION	3	VIBRO	18 ft	800-2800
FILTER (CONV)				
FILTER (M.G.)				
STATIC	4	ELEV		
RESIDUAL NMO				
TRACE GATHER	5			
RE-STATIC	9	AUTO		
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	10			
TRACE SCALE	13			
EQUALIZE	11			
DISPLAY PAPER	2,7,12			
DISPLAY FILM	14			
VELOCITY ANALYSIS	6			

DATE: MARCH 21/73 DATUM: 700' CORR. VELOCITY: 6000'/sec



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

NAHANNI BUTTE
PROJECT
MURPHY OIL COMPANY LTD.
CLIENT

LINE NO. 4 NE DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES
PARAMETER SELECTION BY: SEFEL J. & ASSOCIATES
RECORDED BY: DRESSER OLYMPIC CANADA

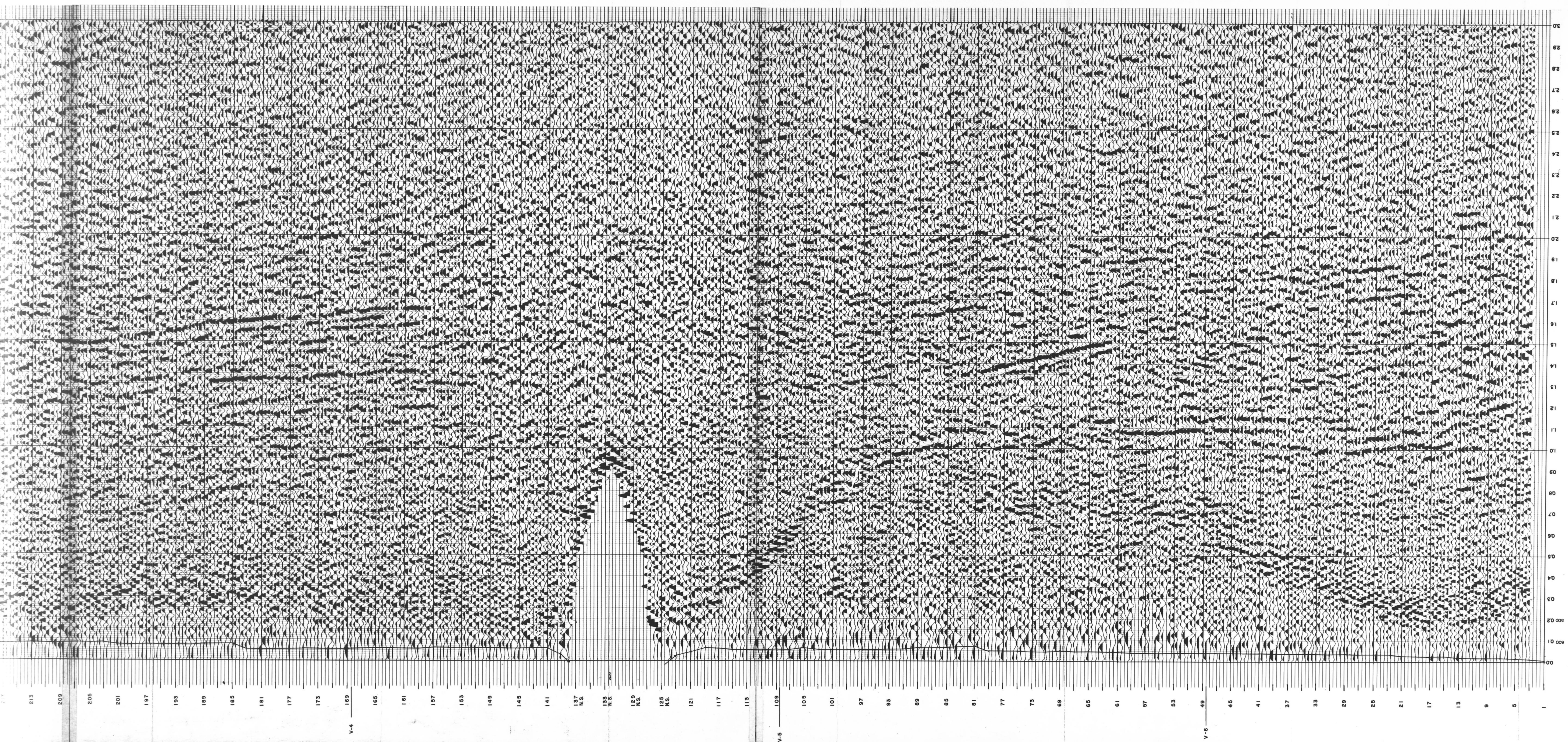
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DISPLAY FILM	14			
VELOCITY ANALYSIS	6			

DATE: MARCH 21/73 DATUM: 700' CORR. VELOCITY: 6000'/sec



[illegible]



MURPHY OIL COMPANY LTD. London, England	
Nahomni : Butle (Iard River) Project TIME STRUCTURE Devonian - Nahomni	
Interpretation: W. S. Haggard	Date: May 72
Revised by: _____	Drawn: J. Haggard
Corructor: Haggard (0.00046) (0.01)	Scale: 1" = 1' 18"
Sited by: Deane Perry #254 Division	Map No. G-110
W. # 000001 Price:	