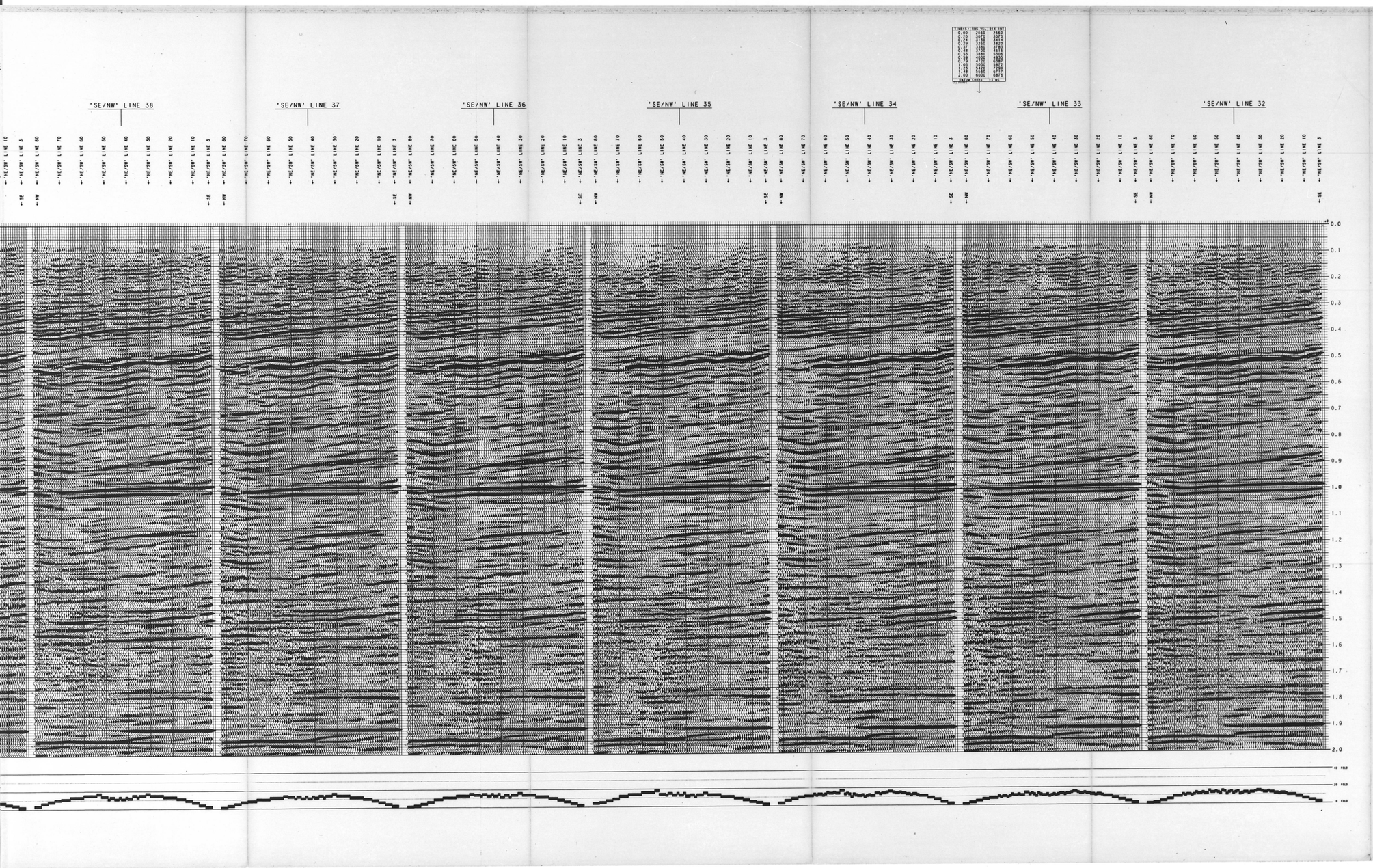
tera
2080 Woodroffe Rd. Ottawa, Ont.
Canada K1G 3P5
Tel: (613) 731-9671
Telex: 053-3502 Cable: TERRA

PROJ. NO. 9 2 2 9 - M 3 - 1 E

LINE NO. 3 2 - 6 2

PART NO. 1 OF 5

R.R. 8X



AREA: FORT GOOD HOPE, N.W.T.
SE/NW LINES 1 - 124 (32 - 62)

MIGRATION
REVERSE POLARITY

SOUTHEAST

MOBIL OIL CANADA

88-762

MIGRATION
LINES 1 - 124
AREA: FORT GOOD HOPE, N.W.T.

TYPE OF SECTION	MIGRATION
LINE LOCATION	65 DEG. 48' N 129 DEG. 12' W
LINE DIRECTION	I SE----NW I
DATUM PLANE	100 METERS ASL
REPLACEMENT VELOCITY	3600 METERS/SEC

ACQUISITION:

ACQUIRED FOR:	MOBIL OIL CANADA
ACQUIRED BY:	WESTERN GEOPHYSICAL
PARTY:	367
RECORDING DATE:	MARCH 1989

SOURCE:

ENERGY SOURCE	VIBROSEIS
SOURCE INTERVAL	50 METERS
SWEEP FREQUENCY	8 - 100 HZ NONLINEAR
SWEEP LENGTH	10.0 SEC
NUMBER OF SWEEPS	12
NUMBER OF VIBRATORS	4
DRAG LENGTH	29.7 METERS

INSTRUMENTS:

MODEL	DFS V
FILTER	OUT - 128 HZ
SAMPLING INTERVAL	2 MSEC
RECORD LENGTH	3.0 SECONDS
TAPE FORMAT	SEG-B
TAPE DENSITY	6250 BPI

RECEIVERS:

TYPE OF GEOPHONE	LRS 1011
GEOPHONE FREQUENCY	14 HZ
NUMBER OF GEOPHONES PER ARRAY	18 OVER 52.5 M
NUMBER OF GROUPS RECORDED	120 CHANNEL
GROUP INTERVAL	50 METERS
AVERAGE PERCENT COVERAGE	3500 %
PATTERN	4 LINES X 30 RECEIVERS

PROCESSED BY WESTERN GEOPHYSICAL CALGARY, ALBERTA

PROCESSING:
DATE: MAY 1989

DEMULTIPLEX
PROCESSING SAMPLE RATE 2 MSEC
PROCESSING RECORD LENGTH 13000 MSEC

CORRELATION
CORRELATION WITH SWEEP TD 3000 MSEC

PRE-PROCESSOR
TRACE HEADER UPDATE FOR CELL SORT
VISUAL QC OF RAW RECORDS

AMPLITUDE COMPENSATION
TIME FUNCTION EXPONENTIAL VALUE OF 2.25

DECONVOLUTION
TYPE: MINIMUM PHASE INVERSE FILTER
AUTOCORRELATION WINDOW: 200 - 2200 MSEC
MINIMUM PREDICTIVE DISTANCE SPIKING 2 MSEC
OPERATOR LENGTH: 80 MSEC
PERCENT WHITE NOISE .1 %

TRACE EQUALIZATION
TYPE 2000 RMS
WINDOW 200 - 2200 MSEC

GEOPHONE/INSTRUMENT PHASE COMPENSATION
FILTER OPERATOR LENGTH 600 MSEC
DESIGNED BY MOBIL

CELL SORT
25 X 25 METER CELL SIZE

STATICS:(DRIFT & WEATHERING)
METHOD: MODEL BASED REFRACTION
DATUM ELEVATION: 100 METERS ASL
REPLACEMENT VELOCITY: 3600 METERS/SEC
WEATHERING VELOCITY: 610 METERS/SEC
STATICS CORRECTED FROM SURFACE TO DATUM

STATICS:(AUTOMATIC)
HND WITH REGIONAL VELOCITY FUNCTION
TYPE (3D MISE®): AUTOMATIC SURFACE CONSISTENT
GATE 200 - 1200 MSEC
MAXIMUM SHIFT 08 - 24 MSEC
RESIDUAL SHOT AND RECEIVER STATICS CORRECTIONS

3-D VELOCITY ANALYSIS
TYPE VELAN®: SEMBLANCE
3-D VELOCITY INTERPOLATION

VELOCITY VERIFICATION
COMMON OFFSET STACKS WITH NMO & STATICS APPLIED

STATICS:(AUTOMATIC)
HND WITH 3D INTERPOLATED VELOCITY FUNCTION
TYPE (3D MISE®): AUTOMATIC SURFACE CONSISTENT
GATE 200 - 1200 MSEC
MAXIMUM SHIFT 08 - 12 MSEC
RESIDUAL SHOT AND RECEIVER STATICS CORRECTIONS

NORMAL MOVEOUT APPLICATION
MUTE APPLIED AFTER N.M.O.:

DISTANCE(METERS)	TIME(MSEC)
220	0
225	200
375	240
1500	450
1500	900

DIP MOVEOUT STACK
MAXIMUM D!P 25.0 DEGREES

TIME VARIANT FILTER

FREQUENCY(HZ)	SLOPE(DB/OCT)	TIME(MSEC)
10-90	24/64	1200
10-80	24/64	2100
20-50	24/64	3000

STOLT MIGRATION
2 PASS MIGRATION (1ST PASS NE/SW, 2ND PASS SE/NW)
PERCENT VELOCITY USED 100%

BANDPASS FILTER
FREQUENCY 10 -80 HZ
SLOPES 24/48 DB/OCT

GAIN
TYPE RMS
WINDOW 300 - 500 MSEC

DISPLAY:

HORIZONTAL SCALE	16.0 TRACES PER INCH
VERTICAL SCALE	7.5 INCHES PER SECOND
PLOTTING GAIN	12 DB

Canada Oil and Gas Lands Administration
Administration des terres de la couronne
MAR 19 1990
Resource Evaluation Branch
Direction de l'évaluation des ressources
Project
9229-M3-1E

terra surveys ltd
2060 Walkley Rd. Ottawa, Ont.
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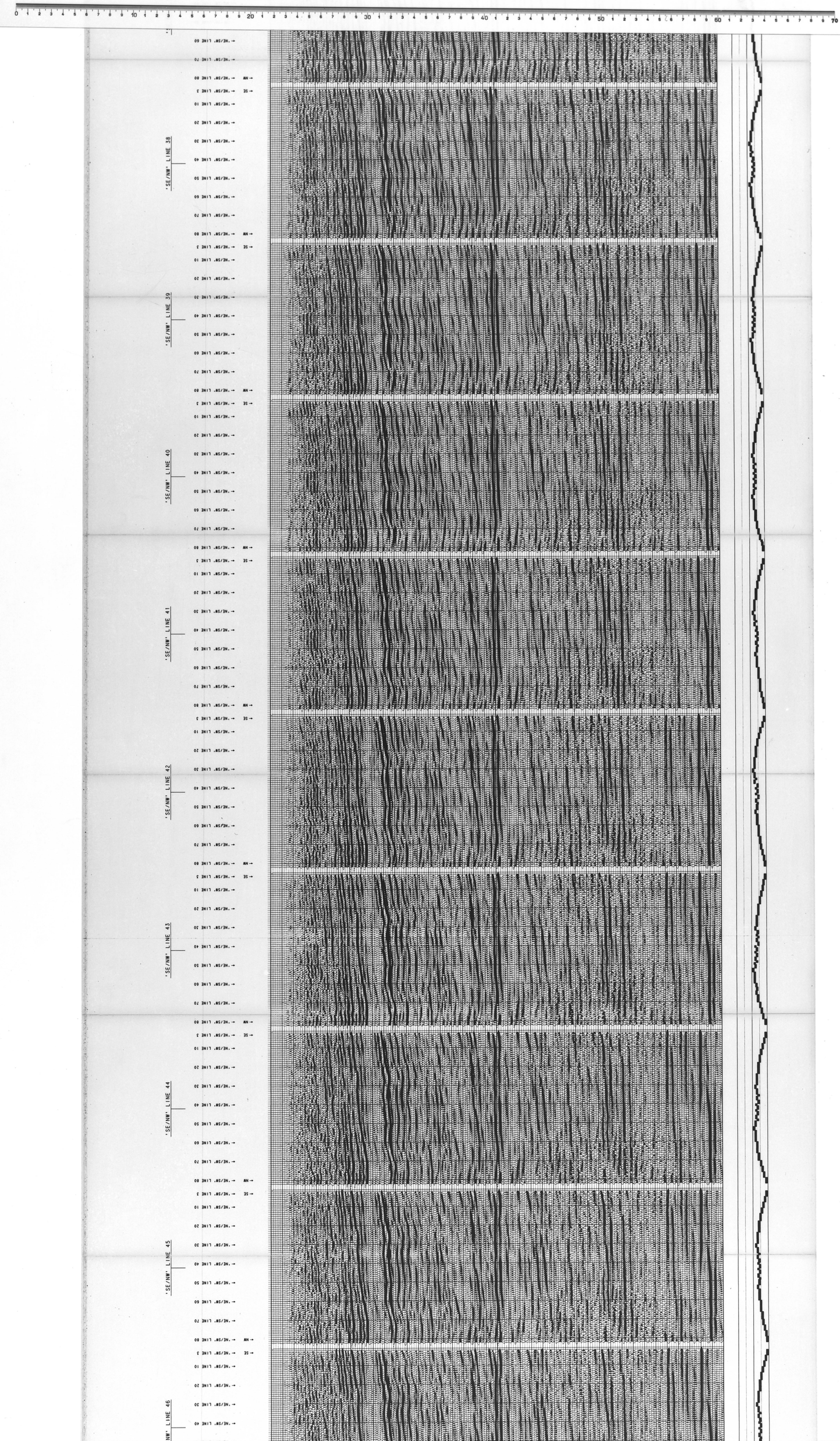
PROJ. NO. 9229-M3-1E

LINE NO. 32-62

PART NO. 2 OF 5

R.R. 8X



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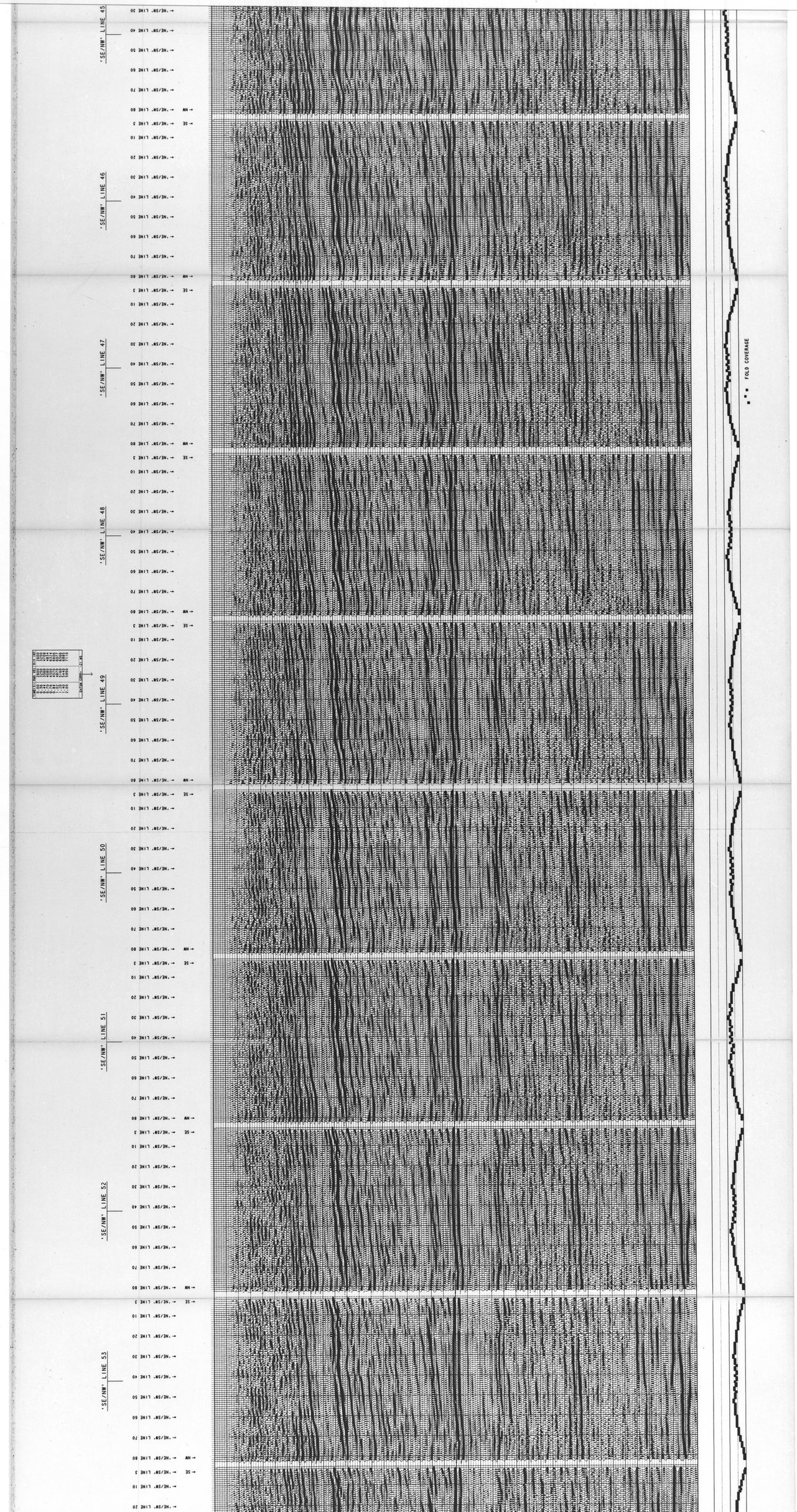
PROJ. NO. 9229-M3-1E

LINE NO. 32-62

PART NO. 3 OF 5

R.R. 8X



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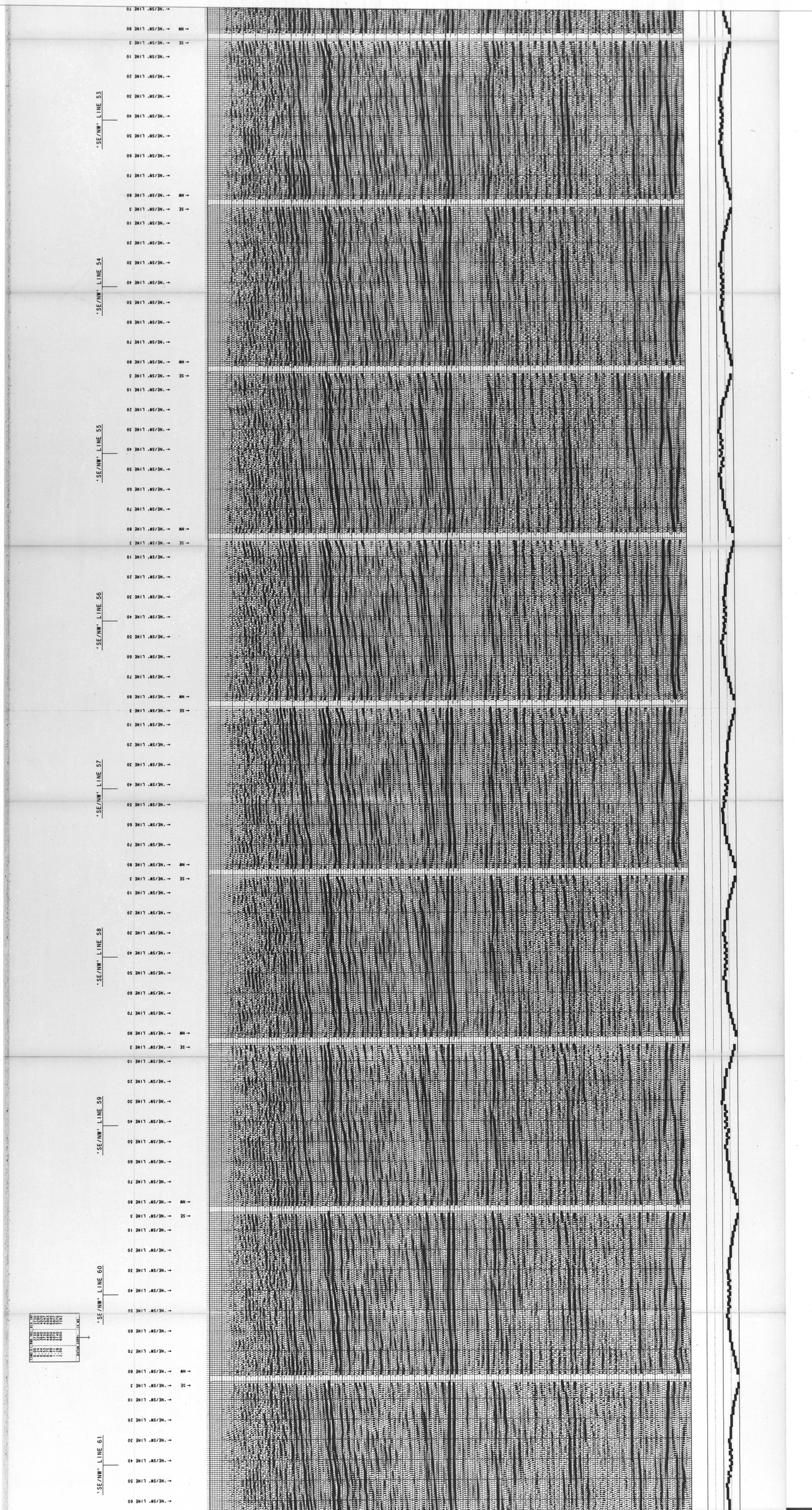
PROJ. NO. 9229-M3-1E

LINE NO. 32-62

PART NO. 4 OF 5

R.R. 8X



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PROJ. NO. 9220-M3-1E

LINE NO. 32-62

PART NO. 5 OF 5

R.R. 8X