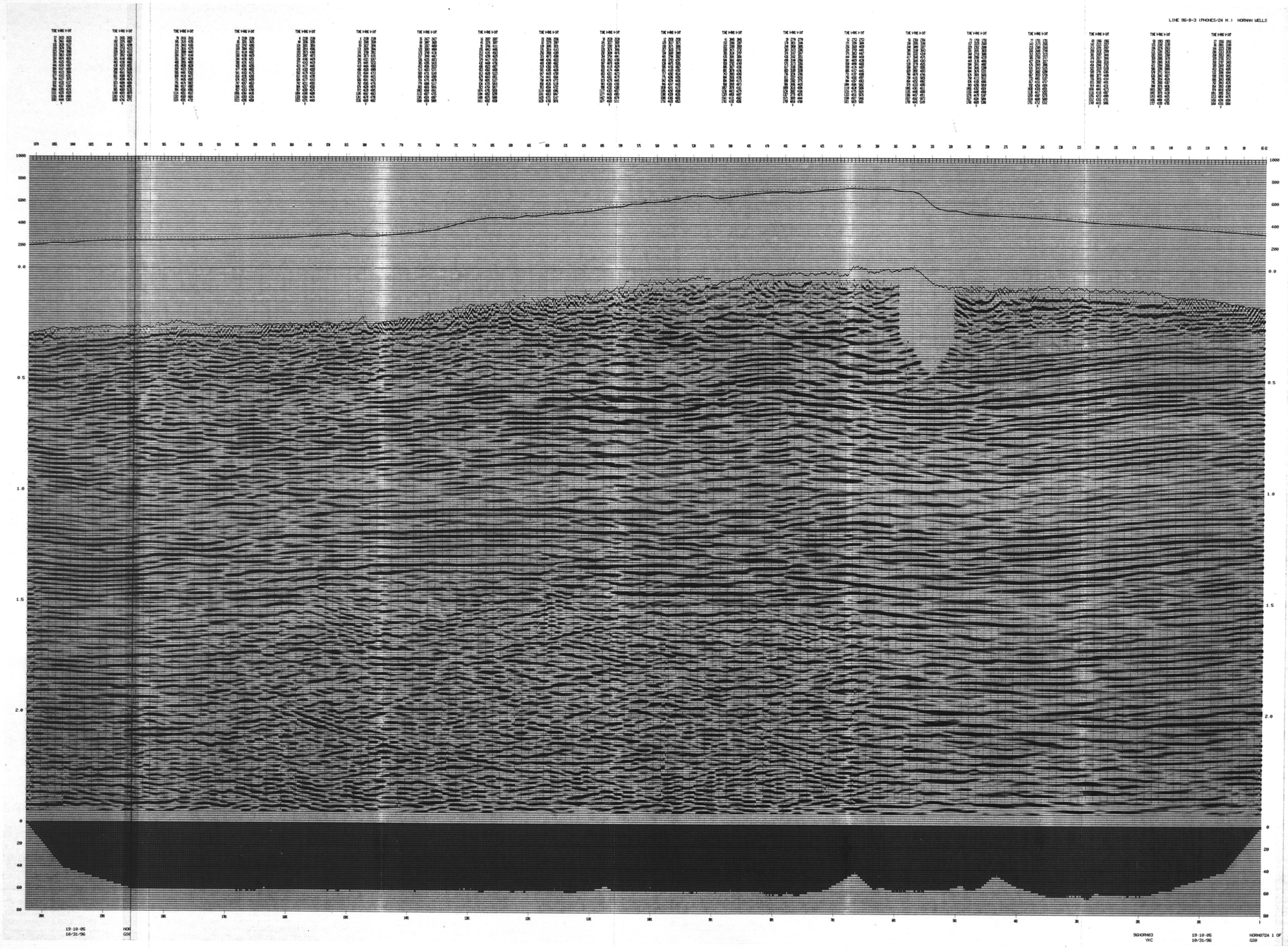

9229-M6-1E

MURPHY
OIL COMPANY LTD.

LINE: 96-B-3 (ES8679A)
(ARRAY PHONES)
PROJECT: NORMAN WELLS 96-B
LOCATION: OSCAR LAKE, MACKENZIE
NORTHWEST TERRITORIES
NTS: 96E/7

SP. 1076 ——→ NE SP. 62

PRESTACK TIME MIGRATION
PRE-STACK FX4 NOISE REDUCTION

POLARITY ☒ NP ☐ RP
FIRST KICK POLARITY ABOVE FOLD BARS, PEAKS ARE POSITIVE NUMBERS

ACQUISITION PARAMETERS

SHOT BY:	WESTERN ATLAS
DATE:	AUG. 1996
SPREAD:	960 M. x 860 M.
SOURCE INTERVAL:	24 M.
RECEIVER INTERVAL:	8 M.
ACQUISITION FOLD:	4000 %
SOURCE:	DYNAMITE ONE HOLE X 2 KG @ 10 M.
RECEIVERS:	SENSOR SM-7 14 HZ. 9 OVER 24 M.
INSTRUMENTS:	VISION 240 TRACE
TAPE FORMAT:	SEG D
FIELD FILTERS:	OUT-412 HZ. NOTCH: OUT
SAMPLE RATE:	1 MS.

PROCESSING PARAMETERS

PROCESSED BY GEO-X DATE: SEPT. 1996	GEO-X SYSTEMS LTD. YKC
DEMULTIPLEX	1 MS. SAMPLE RATE
AMPLITUDE RECOVERY	1T(EXP(BT) B=0.0008
DECONVOLUTION	TYPE: ADAPTIVE S COMPONENT SURFACE CONSISTENT SIGNATURE WITH ZERO PHASE FREQUENCY DOMAIN OFFSET COMPONENT DOMAIN: FREQUENCY GATE: 250-1500 MS. AT 0 OFFSET 850-1800 MS. AT 2715 M. OFFSET NOTE: SYSTEM CONVERTED TO MINIMUM PHASE
STRUCTURAL CORRECTIONS	DATUM ELEVATION: 750 M. DATUM VELOCITY: 3500 M./SEC. PROCESSING DATUM: 0 MS. ELEVATION, WEATHERING, AND DRIFT
NOTE: ALL FOLLOWING TIMES REFERENCED FROM PROCESSING DATUM	
ANALYSIS	PRELIMINARY VELOCITIES AND STATICS
STATICS TRACE KILLS	SURFACE STACK RESIDUAL
VELOCITY ANALYSIS OFFLINE MOVEOUT	INTERVAL: 50 CDPS
OFFLINE MEAN SCALING	WINDOW: 300-2000 MS.
OFFLINE MUTE DISTAN.: 210 900 2100 2715 TIME(MS.): 350 500-800 1200-1300 1500	
STATICS	SURFACE CONSISTENT RESIDUAL WINDOW: 200-1500 MS.
4-DIMENSIONAL NOISE REDUCTION IN FREQUENCY DOMAIN	BLOCK SIZE: 8 SHOTS MIX: 68 % PW: 30% FILTER SIZE: SHOT/STN/OFFSET/CDP = 5/13/21/31 WINDOW: 10 EQUAL LENGTH, 100 MS. OVERLAP OPTION: F-X PREDICTION
OFFLINE MEAN SCALING	WINDOW: 300-2000 MS.
OFFLINE MUTE DISTAN.: 210 900 2100 2715 TIME(MS.): 350 500-800 1200-1300 1500	
STATICS	SURFACE CONSISTENT RESIDUAL WINDOW: 200-1500 MS.
OFFLINE TRACE GATHER	MAXIMUM FOLD: 42
STATICS	CDP CROSS CORRELATION WINDOW: 200-1500 MS.
PRESTACK F-D TIME MIGRATION	ON SHOT RECORDS 100% THEORETICAL VELOCITIES
MUTE DISTANCE (M.): 210 900 2100 2715 TIME(MS.): 350 500-800 1200-1300 1500	
MEAN SCALING	WINDOW: 300-2000 MS.
TRACE GATHER	MAXIMUM FOLD: 42
STACK	
FILTER	14/18-50/55 HZ.
EQUALIZATION	MEAN WINDOW: 300-2000 MS.
A.G.C.	400 MS.

DISPLAY PARAMETERS

HORIZONTAL SCALE	24 TRACES PER INCH
VERTICAL SCALE	7.5 INCHES PER SECOND

TRIATHLON PROJ. NO. 9229-M6-1E LINE NO. 96-B-3 PART NO. 1 OF 1 R.R. 10X