



**SIGMA EXPLORATIONS LTD.**  
CALGARY, ALBERTA  
A SUBSIDIARY OF THE GTS CORPORATION

**451**

LINE NO. 4  
PROJECT COLEVILLE LAKE AREA  
PROVINCE NORTH WEST TERRITORIES  
FIELD PROGRAM FOR SIGMA EXPLORATIONS LTD.  
FIELD PROGRAM BY NORTHERN GEOPHYSICAL LTD.  
DATE PROCESSED APRIL 1971  
PROCESSED BY CDP COMPUTER DATA PROCESSORS LTD.  
PROCESSOR ON CDP'S COMPAC 35 *15-04-16-02*

RECORDING PARTICULARS  
Field Recording ☒ Digital ☐ FM ☐ AM ☐ Transcribed Paper  
Energy Source ☐ Dynamic ☐ Dilute ☐ Air-Gun ☐ Sparker  
☒ Vibroseis Sweep Frequency 80-20.5 Sweep Length 7 sec.  
☐ Other

Recorded By NORTHERN GEOPHYSICAL LTD. Date 1971  
Recorded For SIGMA EXPLORATIONS LTD.  
Field Instruments SPS 111 & 440-11 Tape System SEG-A  
No. of Traces Recorded 24 Format SEG-A  
Recording Sample Rate 2 msec. Recording Filter Low 600 Hz High 120 Hz  
Gain Information ☒ Every ☐ ASG ☐ PSC ☐ Post ☐ Other  
Group Interval 180' No. of Groups Per Group 18 OVER 180'  
Speed Layout 3000'-1200'-0-1200'-3000'  
Remarks

AT INTERPOLATION BY COMPUTER  
DIGITAL PROCESSING  
Input Data ☒ Digital ☐ Sequential Sample rate 2 msec. Format 3 TRACES  
☐ Demultiplex  
☐ Gain Compensation ☐ Exponential ☐ Spherical Divergence ☐ Programmed  
☐ Vibroseis Correlation ☒ Recorded ☐ Synthetic Sweep Frequency 80-20.5 Hz  
Phase Compensation Spectrum Compensation

☒ NMO Removal  
Digital Filtering Routine:  
☐ Deconvolution

Type	Operator	Length	Window	Window Factor	Hz
Bandpass Filter	<input checked="" type="checkbox"/> Frequency Domain <input type="checkbox"/> Time Domain Operator Length msec.				

Time Varying Filter Parameters

Gain Time	LT	LT	LT	LT	LT	LT	LT	LT	LT
5.000-1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.000-1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

☒ Trace Muting 1 - 300 , 5 - 170 , 16 - 170 , 24 - 300  
☐ Residual NMO ☐ Residual Static Corrections  
☒ Static Correction By CDP COMPUTER DATA PROCESSORS LTD.  
☒ Trace Gather ☒ Stack 400 % ☐ Gathered %  
☐ Powerstat % Gate  
Datum or Flattening Horizon STRUCTURE SECTION  
Datum Velocity 11,000 Ft./Sec. Datum Elevation 1,000' A.S.L.  
☒ RMS Equalization ☐ Programmed Gain ☐ Digital AGC  
☐ Automated Program Gain ☐ Other  
Polarity ☒ Normal ☐ Reversed  
☐ MCF Continuity Filter  
Randoms Option Hertz Gate  
☐ Two Dimensional Time/Space Filter Gate  
☐ Pass ☐ Reject Left msec./trace Right msec./trace  
Digital Output Reel No. 3388  
Remarks

815-06-06-02