



15-06-06-02

451

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

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 COP COMPUTER DATA PROCESSORS LTD.

PROCESSED ON COP'S COMPAC 75 815-06-06-02

RECORDING PARTICULARS

Recording Digital FM AM Transcribed Paper
 Source Dynamite Dinoseis Air-Gun Sparker
 Vibroseis* Sweep Frequency .80-20.5 Sweep Length .7 sec.
 Other

By NORTHERN GEOPHYSICAL LTD. Date 1971

For SIGMA EXPLORATIONS LTD.

Instruments DFS 111 & ADD-IT Tape System SEG-A

Traces Recorded 24 Format SEG-A

Sampling Rate 2 msec. Recording Filter Low OUT High 124

Information Binary AGC PGC Fixed Other

Interval 160' No. of Geophones Per Group 18 OVER 160'

Layout 3040'-1280'-0-1280'-3040'

RED CONTINENTAL OIL COMPANY)

DIGITAL PROCESSING

Data: Multiplex Sequential Sample rate 2 msec. Format 9 TRACK

Multiplex

Compensation Exponential Spherical Divergence Programmed

Digital AGC Trace Equalization Other TRUE

Doseis Correlation: Recorded Synthetic Sweep Frequency 80-20.5 Hz

Phase Compensation Spectrum Compensation

O Removal

Filtering Routines:

Convolution:

Type	Operator Length	Window	Whitening Factor	Log

Bandpass Filter Frequency Domain Time Domain Operator Length msec.

Varying Filter Parameters

Gate Times	S.P.	Bandpass Response	S.P.								
-1,000		30-35/									
		75-80									
00-2,000		20-25/									
		75-80									

Trace Muting 1 - 300, 9 - 170, 16 - 170, 24 - 300

Residual NMO Residual Static Corrections

Static Corrections By COP COMPUTER DATA PROCESSORS LTD.

Trace Gather Stack 400 % Gathstac %

Gathstac % Gate

or Flattening Horizon STRUCTURE SECTION

Velocity 11,000 Ft./sec. Datum Elevation 1,000' A.S.L.

TIS Equalization Programmed Gain Digital AGC

Automated Program Gain Other

Normal Reversed

CF Continuity Filter

Bandpass Option Hertz Gate

2 Dimensional Time/space Filter Gate

Pass Reject Left msec./trace Right msec./trace

Output Reel No. 3388

arks

111

100

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