

SAVANNAH RIVER SITE  
AIKEN, S. CAROLINA

LINE SRS-9EXP

AUTOMATIC LINE DRAWING (STACK)  
1:2 DISPLAY FOR VEL. 6 KM/S

DATUM 80 METERS

NORTHWEST

RECORDING PARAMETERS

DATE RECORDED : NOVEMBER 1987 SOURCE ARRAY : 1X4/0 M PT SOURCE  
CONTRACTOR : CONOCO NO. 28V130 SHOT INTERVAL : 6.1 M (20 FT)  
GROUP INTERVAL : 5.1 M (20 FT) FAR OFFSET : 301.8 M (990 FT)  
NEAR OFFSET : 15.2 M (50 FT) SAMPLE RATE : 2 MSEC  
INSTRUMENTS : MDS-10 RECORD LENGTH : 10 SEC (2 SEC)  
CHANNELS : 96 RECORD FILTS : 30 HZ & 125 HZ  
ENERGY SOURCE : 1 MOD 15 VIB SWEEP FREQ. : 30-150 HZ  
SWEEP LENGTH : 8 SEC RECEIVER ARRAY : 14/0 M BUNCHED

SPREAD CONFIGURATION:

TR 1 TR 48 TR 49 TR 96  
302 M 15 M \* 15 M 302 M

PROCESSING SEQUENCE

DEMULPLEXING  
VIBROSEIS WHITENING - 1000 MS AGC  
RECORD PAD - TO 16 SEC  
XCOR W/ RECORDED SWEEP (RL=8 SEC.)  
TRACE EDITS/DATUM STATICS  
50 MS BULK SHIFT APPLIED  
80 M DATUM W/ CORR. VEL. 900 M/S  
COMMON MIDPOINT SORT  
DECONVOLUTION - GAPPED  
8 MS GAP 70 MS OPERATOR  
AUTOCORRELATION GATES  
40-900 MS  
1200-2800 MS  
4500-6500 MS  
VELOCITY ANALYSIS - CONSTANT VEL. STKS.  
RESIDUAL STATICS - SURFACE CONSISTENT  
ITERATIVE W/ VEL. ANALYSIS  
3 ITERATIONS STATICS W/ VELOCITY  
ITER 1-2 EVRY 2ND TR 15 TR PIL 6 MS SHFT  
ITER 3 EVRY TR 30 TR PILOT 4 MS SHFT  
NMO/MUTE/250 MS AGC  
COMMON MIDPOINT STACK - 48 FOLD NOM.  
DECONVOLUTION - GAPPED  
8 MS GAP 70 MS OPERATOR  
AUTOCORRELATION GATES  
40-900 MS  
1200-2800 MS  
4500-6500 MS  
TIME VARIANT FILTER  
35-40-150-160 0-700 MS  
30-35-140-150 1200 MS  
25-30- 85- 90 2800 MS  
25-30- 75- 80 6000 MS  
25-30- 70- 75 7000 MS  
25-30- 60- 65 8000 MS  
GAIN - 20 DB UNDER SEDIMENTS  
AGC - 1000 MS  
SIGNAL  
WINDOW : 9 TR  
INCREMENT : 1 TR  
TIME GATE : 100 MS  
DIP RANGE : +/- 15 MS/TR  
1000 MS AGC/LINE DRAWING/1000 MS AGC

DISPLAY PARAMETERS

TRACES PER INCH: 180.0 DATE PROCESSED: JAN 1992  
INCHES PER SEC: 1.39 POLARITY: NORMAL  
DISPLAY EVERY 2ND TRACE

VIRGINIA POLYTECHNIC INSTITUTE  
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