

# SAVANNAH RIVER SITE AIKEN, S. CAROLINA

## LINE SRS-27

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

DATUM 80 METERS

NORTHWEST

### RECORDING PARAMETERS

DATE RECORDED :	APRIL 1998	SOURCE ARRAY :	2X6/18 M (60 FT)
CONTRACTOR :	CONOCO NO. 28V130	SHOT INTERVAL :	24.4 M (80 FT)
GROUP INTERVAL :	12.2 M (40 FT)	FAR OFFSET :	604 M (1980 FT)
NEAR OFFSET :	30.5 M (100 FT)	SAMPLE RATE :	2 MSEC
INSTRUMENTS :	MDS-10	RECORD LENGTH :	14 SEC (4 SEC)
CHANNELS :	96	RECORD FILTS :	30 HZ & 125 HZ
ENERGY SOURCE :	2 MOD 15 VIB	SWEEP FREQ. :	20-120 HZ
SWEEP LENGTH :	10 SEC	RECEIVER ARRAY :	14/12.2 M (40 FT)

#### SPREAD CONFIGURATION:



### PROCESSING SEQUENCE

DEMULTIPLEXING  
VIBROSEIS WHITENING - 1000 MS AGC  
RECORD PAD - TO 23 SEC  
XCOR W/ RECORDED SWEEP (RL=13 SEC.)  
TRACE EDITS/DATUM STATICS  
50 MS BULK SHIFT APPLIED  
80 M DATUM W/ CORR. VEL. 900 M/S  
COMMON MIDPOINT SORT  
RESAMPLE 4.0 MS  
DECONVOLUTION - GAPPED  
10 MS GAP 70 MS OPERATOR  
AUTOCORRELATION GATES  
10-900 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  
NMO/BP 10-20-114-124 0-13 S/MUTE/250 MS AGC  
COMMON MIDPOINT STACK - 24 FOLD NOM.  
DECONVOLUTION - GAPPED  
10 MS GAP 70 MS OPERATOR  
AUTOCORRELATION GATES  
10-900 MS  
1200-2800 MS  
4500-6500 MS  
TIME VARIANT FILTER  
30-35-110-120 0-550 MS  
25-30-95-105 2000 MS  
15-20-70-75 4000 MS  
15-20-65-70 5500 MS  
15-20-45-50 7000 MS  
15-20-40-45 13000 MS  
GAIN - 20 DB UNDER SEDIMENTS  
AGC - 1000 MS  
SIGNAL  
WINDOW : 21 TR  
INCREMENT : 1 TR  
TIME GATE : 200 MS  
DIP RANGE : +/- 43 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 AND STATE UNIVERSITY

#### REGIONAL GEOPHYSICS LABORATORY

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