



ACQUISITION PARAMETERS

Acquisition Period: April - July 2000
Acquisition Date: Zephyr 1
Vessel: 20 456 km
Survey Length: Syntrak
Recording Instrument: Syntrak RDA
Streamer Type: Tuned Bolt Array
Source Type: 2800cu.in
Source Volume: 7m
Gun Depth: 37.5m
Shotpoint Interval: 12.5m
Group Interval: 480
Recording Channels: 6000m
Streamer Length: 2ms
Sample Interval: 80
Nominal Fold: SEG-D 3590 cartridges
Recording format and media type: April - July 2000

PROCESSING SEQUENCE

Input	SEG-D to ProMAX internal format
Bandpass Filter	3Hz@6dB/oct- 90Hz@72dB/oct
Resample	From 2 to 4ms
Static Correction	-94ms system delay - Zephyr only
Minimum Phase Conversion	Using library far-field signature
Trace Decimation	k-notch filter at +/- 1/2 spatial nyquist prior to alternate channel drop - Zephyr only
Marine Geometry Assignment	
Static Correction	+10.81ms for gun/cable
Automatic Spike Edit	
Velocity Analysis	Velocities interactively picked every 3km
Amplitude Recovery	T**1 0-9s. Correct to zero offset and apply 1/ TV**2+T**-10- 9s using average function for line
Forward NMO Correction	Using 3km velocities
Trace mix	Shot domain 0,7,1.0,0.7 trace weights
Inverse NMO Correction	Using 3km velocities
Forward NMO Correction	Constant velocity 1500m/s
Demultiple	Parabolic Radon Transform Filter. Subtract modeled simple WB multiples. 87 residual moveout 'p' values modeled from -1000 - +400ms. AGC Scaling wrap
Inverse NMO Correction	Constant velocity 1500m/s
Forward NMO Correction	Using 3km velocities
Demultiple	Parabolic Radon Transform Filter. Subtract modeled multiples. 180 residual moveout 'p' values modelled from- 100ms - +2000ms. AGC scaling wrap
Threshold Amplitude Editing	Selective application below WB time x2
f-k Filter	Windowed from WB time x2 to 12s. Accept picked polygon in shot domain
FX Deconvolution	4-point filter, 5 trace x 300ms prediction window 150ms overlap 1%



	noise. Applied in offset domain
Dip Moveout Correction - Migration	f-k common offset DMO. 80 offset bins.
Inverse NMO Correction	Stolt f-k migration with smoothed 3km velocity field clipped @ 2000m/s
Velocity Analysis	Using 3km velocities
QC Forward NMO Correction	Velocities interactively picked every 1,5km
Scaling	'Multivel' stacks +/- 7.5% picked function
Final Stack Mute	Using 1.5km velocities and Alchalabi 3 rd term NMO
Inside Trace Mute	500ms AGC
CMP Stack	Applied relative to water bottom time
Inverse Stolt migration	Applied relative to water bottom time x2
Predictive Deconvolution	Square root recovery scaling
	2 x 120ms operators. 24,32ms gaps.
	gate 1: WB+250 - WB+2500ms
	gate 2: WB+2000 - WB+5000 ms
FX Deconvolution	4-point filter, 5 trace x 150ms prediction window 50ms overlap 1 % noise
Time-Variant Filter	Tied to WB time. Typical times & passbands:
	0 ms: 5-8-50-60 Hz
	2000 ms: 5-8-45-55Hz
	5000 ms: 3-5-15-20 Hz
	12000 ms: 3-5-10-15 Hz
Migration	Provisional kirchhoff migration. 50 degree dip limit Velocities scaled by 95% smoothed scaling wrap
Time-Variant Filter	Tied to WB time. Typical times & passbands:
	0 ms: 5--55-65Hz
	2000 ms: 5-8-50-60Hz
	5000 ms: 3-5-20-25 Hz
	12000 ms: 3-5-10-15 Hz
Time-Variant Scaling	Tied to water bottom time. Expanding gates overlapping 50% 0.9 scaling adjustment exponent

AVAILABLE DELIVERABLES

- Final Migrated Stack
- Angle Stacks
- Navigation Data
- Field Tapes
- Radon Gathers
- Migrated Gathers