

Field campaign 1999

Acquisition Parameters Vibroseis (Main Line)



Date of acquisition	06 October to– 22 November 1999
Contractor company (main line)	THOR Geophysikalische Prospektion GmbH, Kiel, with GEOTEC S.p.a., Campobasso
Length of profile	ca. 170 km
Recording unit	ARAM24
No of channels	361
Geophone group spacing	50 m
Geophone group pattern	12-fold, 50 m linear
Geophone type	SM-4, 10 Hz
Spread	Symmetric split spread, 9 km (N) – 9 km (S)
Source	4 vibrators Mertz M12 HEMI 48 L (218 kN peak force each)
Source spacing	100 m (nominal)
Vibrator electronics	Pelton Advance II
Vibrator pattern	70 m linear
No of sweeps per VP	8
Sweep	10-48 Hz linear upsweep
CMP coverage	90 (average)
Sweep length	28 s
Listening time	20 s

Acquisition Parameters

Sampling interval	4 ms
Type of data storage	1) diversity-stack, non-correlated 2) diversity-stack, correlated
Storage medium	Cartridge 3480 plus Exabyte
Data format	SEG-D, demultiplexed

Acquisition Parameters Explosion Seismics (Main Line):



No of shotpoints	29 between Miesbach and Inntal, shot locations 7, 9, 11-37
Contractor for drilling, shooting	THOR Geophysikalische Prospektion GmbH, with GEOTEC S.p.a.
Spacing of shotpoints	ca. 5 km (average)
Source	Explosives
Charge per shot	90 kg in three drillholes
Depth of drillholes	30 m
Tamping	By Bentonite, Cement
Recording	ARAM24, up to 1100 channels in various spread configuration
Length of recording	64 s
Sampling interval	4 ms
Storage medium	Cartridge 3480 plus Exabyte (main line)
Data format	SEG-D, demultiplexed

Acquisition Parameters Cross Lines:

Acquired cross lines	Q2 to Q6
Contractors	THOR Geophysikalische Prospektion GmbH for Q3, Q4, Q6* Joanneum Research and Montanuniversity, Leoben, for Q2, Q5**
Length of cross lines	ca. 20 km

Acquisition Parameters

Recording unit	ARAM24* and SUMMIT-2** in slave mode
No of channels	390-407* 200-240**
Source	Vibratorpoints on main line, explosive shotpoints on main line, two explosive shotpoints off-end on cross line (also recorded on main-line spread)
Listening time	64 s for explosives, 20 s* , 18 s** for Vibroseis
Sampling interval	4 ms
Geophone group spacing	50 m* , 80 m**
Geophone type	10 Hz
Geophone group pattern	12-fold, 50 m* , 80 m** linear
Storage type	diversity-stack correlated and uncorrelated*
Storage medium	Cartridge 3480 plus Exabyte* , DAT**

last updated: 27.07.2000

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