GeoExpert ag

VIBROSEIS PROFIL

BUNDESAMT FUER VERKEHR
AlpTransit

LOETSCHBERG BASISTUNNEL
REICHENBACH - KANDERSTEG

MESSLINIE NEAT9001

FIELD PARAMETERS

SPREAD LAYOUT	1195 - x - 1195 m	CHANNELS	240
SOURCE INTERVAL	10 m	GROUP INTERVAL	20 m
SOURCE TYPE	VIBROSEIS	GEOPHONE TYPE	10 Hz
SOURCE LAYOUT	2 VIBRATORS AT 5 m	GEOPHONE LAYOUT	12 SPACED 1.7 m
SWEEP FREQUENCY	10 - 120 Hz	SWEEP LENGTH	20 (+4) sec
SWEEPS / VP	1	INSTRUMENTATION	SERCEL 368
FIELD FILTERS	HC 188 Hz	COVERAGE	2 x 120
RECORDING MODE	Correl. & demultiplexed	SAMPLING RATE	2 msec
RECORDED BY	PRAKLA SEISMOS AG	DATE RECORDED	July 1990

PROCESSING PARAMETERS

1. FORMAT TRANSSCRIPTION
2. TRACE EDITING
3. VERTICAL STACK OF TWO CONSECUTIVE RECORDS
4. TRACE BALANCING WITH 400 ms AGC
5. ASSIGNMENT OF SLALOM LINE GEOMETRY
6. APPLICATION OF FIELD STATIC CORRECTIONS
7. ELEVATION CORRECTIONS TO FLOATING DATUM
8. CDP SORT
9. TIME / SPACE VARIANT PREDICTIVE DECONVOLUTION
   PREDICTION LAG 30 ms OPERATOR LENGTH 200 ms
   derive and appli- | min. offset: 20 - 1000 ms | max. offset: 100 - 1000 ms
   cation window: 1000 - 3000 ms | 1000 - 2000 ms
10. TIME VARIANT BANDPASS FILTER
    8 / 12 - 90 / 125 Hz: 0 - 1000 ms
    6 / 10 - 75 / 110 Hz: 1000 - 1500 ms
    5 / 8 - 60 / 90 Hz: 1500 - 4000 ms
11. RESAMPLING TO 4 ms
12. VELOCITY ANALYSIS
13. NMO CORRECTION WITH 125 % STRETCH MUTE
14. RESIDUAL STATIC CORRECTIONS
15. CDP STACK
16. TIME VARIANT AMPLITUDE SCALING
    Non-linear Increase of AGC window length from 200 ms at 0 s to 400 ms at 2 s
17. TIME VARIANT BANDPASS FILTER
    8 / 12 - 90 / 125 Hz: 0 - 1000 ms
    6 / 10 - 75 / 110 Hz: 1000 - 1500 ms
    5 / 8 - 60 / 90 Hz: 1500 - 4000 ms
18. ELEVATION STATIC CORRECTION TO DATUM (800 m)
19. TRACE MIXING 3 traces/weights 85% - 100% - 85
20. TRACE SUMMATION sum 2/move-up 2
21. DISPLAY with 500 ms AGC window
    Datum plane: 800 m a.s.l.

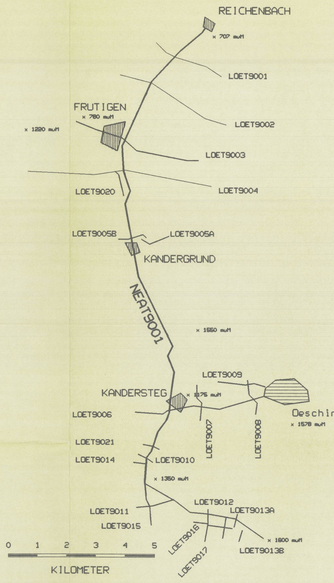
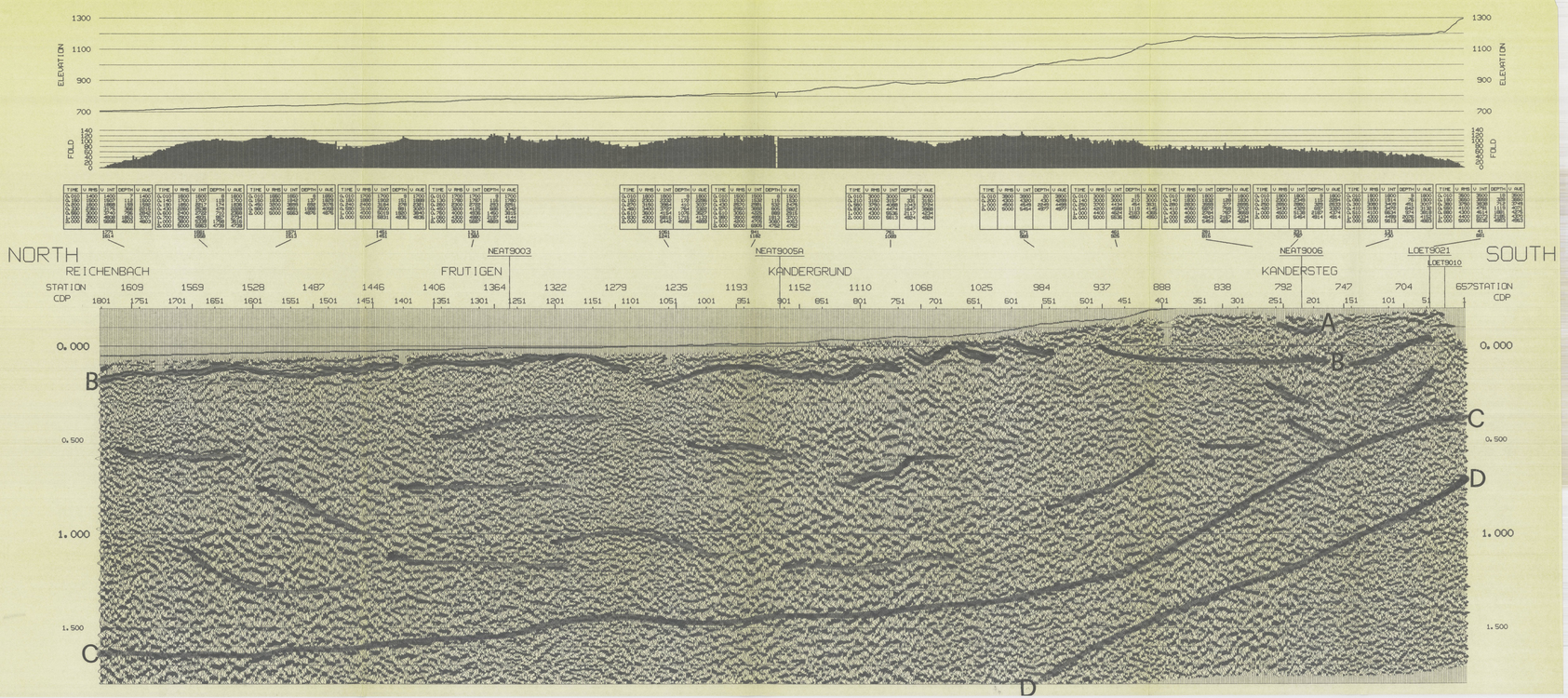
DATENVERARBEITUNG:

Datum	:	August - Dezember 1990
durch	:	R. Lehner GeoExpert ag
Ueberwachung	:	W. Frei GeoExpert ag
EDV-System	:	PHOENIX Inst.f.Geophysik ETH-Z

DISPLAY PARAMETERS

HORIZONTAL SCALE : 12.5 traces / cm (1125*000)
VERTICAL SCALE : 10.0 cm / second

Abb. 7.14

UEBERSICHTSPLAN

DER REFLEXIONSSEISMISCHEN LINIEN