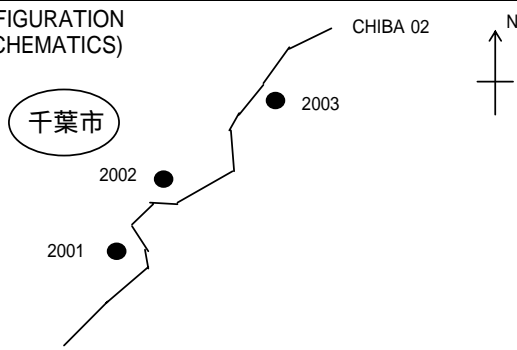
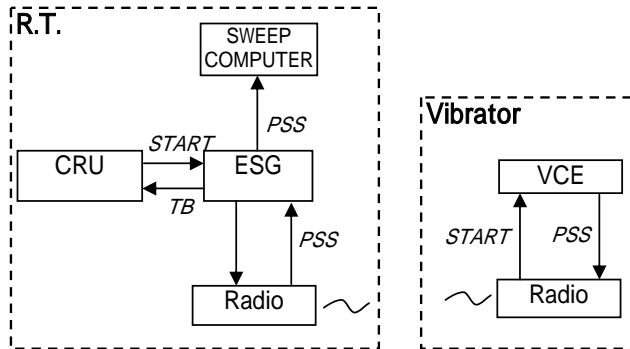
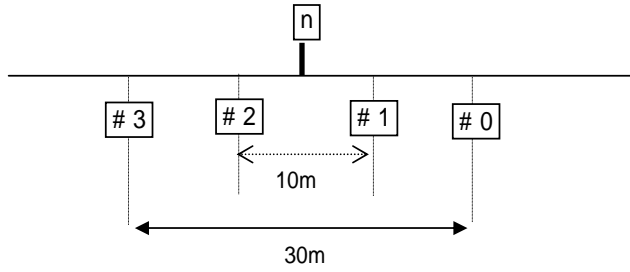
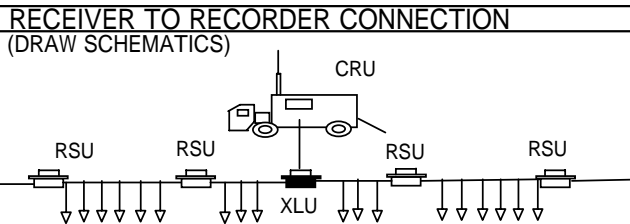
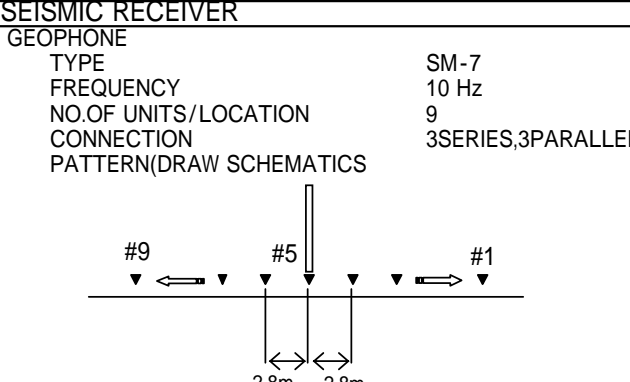


SEISMIC OBSERVER'S REPORT FORM-A



JAPEX GEOSCIENCE INSTITUTE, INC.

LINE	CHIBA 02	PROSPECT 千葉県地下構造調査02 (VIBROSEIS屈折法)	AREA 千葉県市原市、千葉市 佐倉市、八街市	CLIENT 千葉県	CREW NO. JGI	OBSERVER S.NAKAMURA	OBSERVER DATE: 2002Y 9M 12D ~ 2002Y 9M 13D																		
GENERAL		AUX.CH.CONTENTS			FIELD SUMMATION AND X-CORRELATION																				
LINE CONFIGURATION (DRAW SCHEMATICS) 		<table border="1"> <tr> <td></td> <td>VIBROSEIS</td> <td>DYNAMAITE</td> </tr> <tr> <td>AUX CH. 1</td> <td>CLOCK TB</td> <td></td> </tr> <tr> <td>AUX CH. 2</td> <td>RADIO VIB.</td> <td></td> </tr> <tr> <td>AUX CH. 3</td> <td>RADIO REF.</td> <td></td> </tr> <tr> <td>AUX CH. 4(Filtered)</td> <td>REF. SWEEP CORR.</td> <td></td> </tr> <tr> <td>AUX CH. 5(Filtered)</td> <td>REF. SWEEP</td> <td></td> </tr> </table>				VIBROSEIS	DYNAMAITE	AUX CH. 1	CLOCK TB		AUX CH. 2	RADIO VIB.		AUX CH. 3	RADIO REF.		AUX CH. 4(Filtered)	REF. SWEEP CORR.		AUX CH. 5(Filtered)	REF. SWEEP		NO.OF SUMMATION(STANDARD) 25 or 50 or 100 N/E WINDOW LENGTH (ms) 4000 N/E OVERLAP LENGTH (ms) 2000 SUPPRESSION FACTOR 1 MINIMUM PHASE CONVERSION NO X-CORR. AFTER STACK		
	VIBROSEIS	DYNAMAITE																							
AUX CH. 1	CLOCK TB																								
AUX CH. 2	RADIO VIB.																								
AUX CH. 3	RADIO REF.																								
AUX CH. 4(Filtered)	REF. SWEEP CORR.																								
AUX CH. 5(Filtered)	REF. SWEEP																								
FIRST AND LAST VP. NO. VP2001 ~ VP2003 TOTAL LINE Km. SHOT TO SHOT TOTAL LINE Km. RECEIVER TO RECEIVER 28.025 Km TOTAL SHOT POINTS 3 VP TOTAL RECEIVER LOCATIONS 1122 ch AVERAGE SHOT POINT INTERVAL m RECEIVER INTERVAL 25 m STANDARD CDP FOLD % NO. OF CH./EACH LINE/SHO 1122Ch/CHIBA 02		SEISMIC SOURCE TYPE OF SOURCE VIBRATOR Type Y-2400 (IVI) NO. OF SOURCE/SHOT(STANDARD) 4 FORCEOUT 90% (standard) VIBROSEIS SWEEP(STANDARD) FREQUENCY 6 ~ 40Hz LENGTH 16 SEC TAPER(START/END) 0.3 SEC SWEEP TYPE LINEAR (UP SWEEP)			TIME BREAK AND UP HOLE TIME DETECTION R.T. 																				
SEISMIC RECORDING INSTRUMENT * GDAPS-4a RECORDING SYSTEM (JGI) * Pelton ESG,VCE * SWEEP COMPUTER		TYPICAL SOURCE ARRAY PATTERN 			RECEIVER TO RECORDER CONNECTION (DRAW SCHEMATICS) 																				
RECORDING SAMPLE RATE 4 msec RECORD LENGTH 16 sec NOTCH FILTER - Hz OUT LOW CUT FILTER - Hz DB/OCT HIGH CUT FILTER - Hz DB/OCT PRE.AMP.GAIN SAME 30 dB DECIMMATION FILTER(VIBRATOR) LINEAR PHASE		TYPE OF SOURCE NO.OF HOLES or SOURCES/SHOT AVERAGE CHARGE SIZE/SHOT AVERAGE SOURCE DEPTH TYPICAL SOURCE PATTERN(DRAW SCHEMATICS)			SEISMIC RECEIVER GEOPHONE TYPE SM-7 FREQUENCY 10 Hz NO.OF UNITS/LOCATION 9 CONNECTION 3SERIES,3PARALLEL PATTERN(DRAW SCHEMATICS) 																				
TAPE FORMAT TYPE 3490E CARTRIDGE TAPE TAPE FORMAT SEG-Y FIELD TAPE REEL NUBER OF THIS LINE REEL No. 2		REMARKS																							