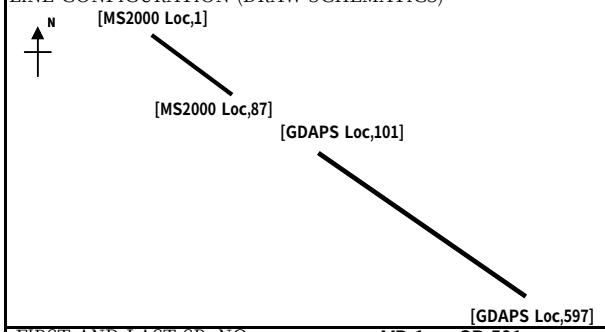
SEISMIC OBSERVER'S REPORT FORM-A

JGI,INC.

LINE	PROSPECT	AREA	CLIENT	CREW NO.	OBSERVER	OBSERVER DATE:
SENDAI03	仙台平野南部地下構造調査03	仙台市 青葉区、太白区、若林区	MIYAGI.PREF	II	JGI	2003/7/25～2003/7/31

GENERAL

LINE CONFIGURATION (DRAW SCHEMATICS)



FIRST AND LAST SP. NO.	VP 1 ～ SP 591
TOTAL LINE Km. SHOT TO SHOT	14.750 Km
TOTAL LINE Km. RECEIVER TO RECEIVER	12.400 Km
TOTAL SHOT POINTS	(反射) 166 POINTS
TOTAL SHOT POINTS	(屈折) 3 POINTS
TOTAL RECEIVER LOCATIONS	497 Ch
AVERAGE SHOT POINT INTERVAL	50 m
RECEIVER INTERVAL	25 m
STANDARD CDP FOLD	%
NO. OF CH./EACH LINE/SHOT	240,308,497ch/1LINE

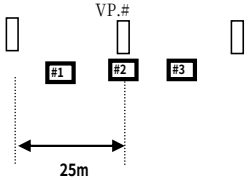
AUX.CH.CONTENTS

	VIBROSEIS
AUX CH. 1(UnFil)	CLOCK TB
AUX CH. 2(UnFil)	RADIO VIB
AUX CH. 3(UnFil)	RADIO REF
AUX CH. 4(Fil)	REF SWEEP(Corr)
AUX CH. 5(Fil)	REF SWEEP

SEISMIC SOURCE

TYPE OF SOURCE	Y-2400[1台],HEMI-50[2台](VIBRATOR)
NO.OF VIBS/SHOT	3
FORCE OUT/SHOT	High Force70or90% , Low Force30,50%
VIBROSEIS SWEEP	
FREQUENCY	[反射]8-60 Hz/[屈折]6-40Hz
LENGTH	16 sec
START TAPER 0.3,0.5 sec	END TAPER 0.3,0.5 sec
SWEEP TYPE	Linear Up

TYPICAL SOURCE PATTERN (DRAW SCHEMATICS)



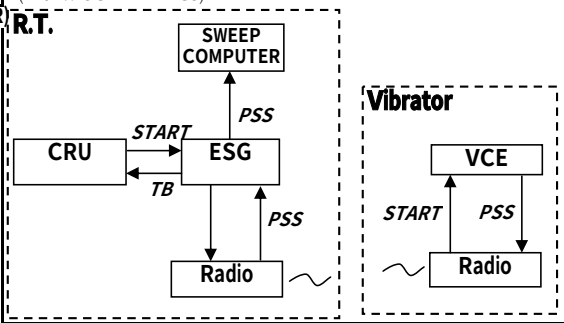
<Fixed Shot>

FIELD SUMMATION AND X-CORRELATION

NO.OF SUMMATION	3,5,10,20,25,30,100
N/E WINDOW LENGTH (ms)	5000･12000･16000
N/E OVERLAP LENGTH (ms)	-
SUPPRESSION FACTER	2
MINIMUM PHASE CONVERSION	Yes
X-CORR.	C.B.S.

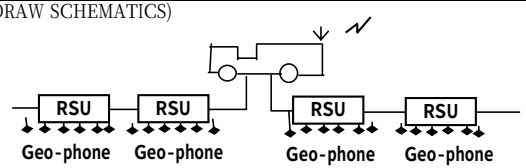
TIME BREAK AND UP HOLE TIME DETECTION

(DRAW SCHEMATICS)



RECEIVER TO RECORDER CONNECTION

(DRAW SCHEMATICS)



SEISMIC RECORDING

INSTRUMENT

* G･DAPS-4A RECORDING SYSTEM
* PELTON E.S.G. , V.C.E.

RECORDING

SAMPLE RATE	4 msec
RECORD LENGTH	(反射) 5,12,16 sec / (屈折)12sec
LOW CUT FILTER	-
HIGH CUT FILTER	108 Hz
PRE-AMP.GAIN	30dB
DECIMMATION FILTER I	Minimum

TAPE FORMAT

TYPE 3490E Cartridge

SEG-Y

FIELD TAPE REEL NUBER OF THIS LINE

REEL No. 1 ～ 3

*DEAD Location [20ch]

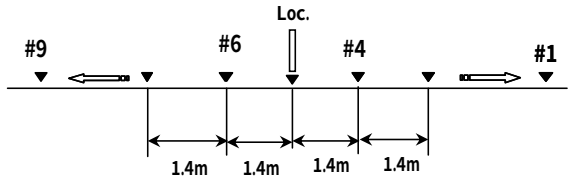
Loc,123 ～ 124 広瀬川
Loc,175 ～ 176 広瀬川
Loc,225 ～ 226 広瀬川
Loc,262 ～ 265 広瀬川
Loc,287 ～ 289 広瀬川
Loc,319 ～ 320 広瀬川
Loc,533 ～ 534 広瀬川
Loc,123 バス停
Loc,189 交差点
Loc,248 民家

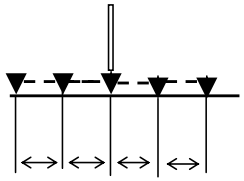
SEISMIC RECEIVER

GEOPHONE

TYPE	SM-7
FREQUENCY	10 Hz
NO.OF UNITS/LOCATION	18 UNITS/Loc.
CONNECTION	3 SERIES 3 PARALLEL

PATTERN (DRAW SCHEMATICS)





SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/25	RAINY	LIGHT	℃	T.TSUTSUI	1

REEL NO. 1

FIELD REC. FILE NO.	SPorVP NO.	SOURCE: Force Out (%)	SOURCE: No. of Tracks	SOURCE: Array Pattern	SOURCE: Vib Array (m)	SOURCE: LATERAL OFFSET (m)	SOURCE: INLINE OFFSET (m)	SOURCE: SOURCE POSITION	RECEIVER: SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.240	CH.	CH.	RECORD: No Of Stacks	RECORD: Noise Edit Window Length (ms)	RECORD: Overlap Length (ms)	RECORD: Power Factor	BAD TRACES: DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	REMARKS
																		Reel #1 B.O.T. RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB
1	D.R								101	340								Dynamic Range
2	S.R.								101	340								System Response
3	S.N.								101	340								System Noise
4	G.P.								101	340								Geophone Pulse
5	G.N.								101	340								Ground Noise
6	T-1	90%	3	Fix	25.0			116.0	101	340			10	5	-	2		SweepFreq 8-80Hz
7	T-2	90%	3	Fix	25.0			116.0	101	340			10	5	-	2		SweepFreq 8-60Hz
8	T-3	90%	3	Fix	25.0			116.0	101	340			10	5	-	2		SweepFreq 8-50Hz
9	T-4	90%	3	Fix	25.0			116.0	101	340			10	5	-	2		SweepFreq 12-60Hz
10	T-5	90%	3	Fix	25.0			119.0	101	340			1	5	-	2		
11	T-6	90%	3	Fix	25.0			119.0	101	340			3	5	-	2		
12	T-7	90%	3	Fix	25.0			119.0	101	340			5	5	-	2		
13	T-8	90%	3	Fix	25.0			119.0	101	340			10	5	-	2		
14	T-9	90%	3	Fix	25.0			119.0	101	340			15	5	-	2		
15	T-10	90%	3	Fix	25.0			119.0	101	340			20	5	-	2		
16	113	90%	3	Fix	25.0			113.0	101	340			10	5	-	2		
17	110	90%	3	Fix	25.0			110.0	101	340			5	5	-	2		
18	107	90%	3	Fix	25.0			107.0	101	340			10	5	-	2		
19	104	90%	3	Fix	25.0			104.0	101	340			10	5	-	2		
20	101	90%	3	Fix	25.0			101.0	101	340			10	5	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/25	RAINY	LIGHT	℃	T.TSUTSUI	2

REEL NO. 1

		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.240 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	
21	93	30%	1	Fix	25.0			93.0	101 - 340		5	21	-	2		
22	92	50%	1	Fix	25.0			92.0	101 - 340		5	21	-	2		
23	G.N.								101 - 340							Ground Noise
																E.O.T.

RecLength5sec/Sample4msec
SweepFreq8-60Hz/SweepLength16sec
DecimationFilter MINIMUM/PreAmpGain30dB

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/26	RAINY	LIGHT	℃	T.TSUTSUI	3

REEL NO. 2

FIELD REC. FILE NO.	SPorVP NO.	SOURCE: Force Out (%)	SOURCE: No. of Tracks	SOURCE: Array Pattern	SOURCE: Vib Array (m)	SOURCE: LATERAL OFFSET (m)	SOURCE: INLINE OFFSET (m)	SOURCE: SOURCE POSITION	RECEIVER: SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.240	CH.241	CH.300	RECORD: No Of Stacks	RECORD: Noise Edit Window Length (ms)	RECORD: Overlap Length (ms)	RECORD: Power Factor	BAD TRACES: DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	REMARKS
																		Reel #2 B.O.T. RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
24	D.R								101	340	341	400						Dynamic Range
25	S.R.								101	340	341	400						System Response
26	S.N.								101	340	341	400						System Noise
27	G.P.								101	340	341	400						Geophone Pulse
28	G.N.								101	340	341	400						Ground Noise
29	G.N.								101	340	341	400						Ground Noise
30	146	30%	2	Fix	25.0			146.0	101	340			3	5	-	2		Offset Shot
31	148	30%	2	Fix	25.0			148.0	101	340			3	5	-	2		Offset Shot
32	154	30%	2	Fix	25.0			154.0	101	340			3	5	-	2		Offset Shot
33	156	50%	2	Fix	25.0			156.0	101	340			5	5	-	2		Offset Shot
34	161	90%	2	Fix	25.0			161.0	101	340			5	5	-	2		Offset Shot
35	172	30%	1	Fix	25.0			172.0	101	340			3	5	-	2		Offset Shot
36	181	30%	2	Fix	25.0			181.0	101	340			3	5	-	2		
37	186	30%	2	Fix	25.0			186.0	101	340			3	5	-	2		
38	192	30%	2	Fix	25.0			192.0	101	340			3	5	-	2		
39	196	90%	2	Fix	25.0			196.0	101	340			5	5	-	2		
40	198	90%	2	Fix	25.0			198.0	101	340			5	5	-	2		
41	204	50%	2	Fix	25.0			204.0	101	340			5	5	-	2		
42	206	50%	2	Fix	25.0			206.0	101	340			5	5	-	2		
43	209	90%	2	Fix	25.0			209.0	101	340			5	5	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/26	RAINY	LIGHT	℃	T.TSUTSUI	4

REEL NO. 2		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.240 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
44	216	50%	2	Fix	25.0			216.0	101 - 340		5	5	-	2		
45	222.5	30%	2	Fix	25.0			222.5	103 - 342		5	5	-	2		
46	G.N.								110 - 349							Ground Noise
47	229	90%	2	Fix	25.0			229.0	110 - 349		5	5	-	2		Offset Shot
48	236	30%	2	Fix	25.0			236.0	117 - 356		5	5	-	2		Offset Shot
49	261	90%	2	Fix	25.0			261.0	142 - 381		5	5	-	2		Offset Shot
50	258	90%	2	Fix	25.0			258.0	139 - 378		5	5	-	2		
51	255	90%	1	Fix	25.0			255.0	136 - 375		3	5	-	2		
52	298	90%	1	Fix	25.0			298.0	179 - 418		20	5	-	2		Offset Shot
53	262	50%	2	Fix	25.0			262.0	143 - 382		3	5	-	2		Offset Shot
54	350	50%	2	Fix	25.0			350.0	231 - 470		3	5	-	2		Offset Shot
55	335.5	30%	2	Fix	25.0			335.5	216 - 455		5	5	-	2		
56	G.N.								216 - 455							Ground Noise

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/27	CLOUDY	LIGHT	℃	T.TSUTSUI	5

REEL NO. 2

FIELD REC. FILE NO.	SPorVP NO.	SOURCE: Force Out (%)	SOURCE: No. of Tracks	SOURCE: Array Pattern	SOURCE: Vib Array (m)	SOURCE: LATERAL OFFSET (m)	SOURCE: INLINE OFFSET (m)	SOURCE: SOURCE POSITION	RECEIVER: SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.240	CH.241	CH.283	RECORD: No Of Stacks	RECORD: Noise Edit Window Length (ms)	RECORD: Overlap Length (ms)	RECORD: Power Factor	BAD TRACES: DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	REMARKS
																		RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
57	D.R								237	476	477	519						Dynamic Range
58	S.R.								237	476	477	519						System Response
59	S.N.								237	476	477	519						System Noise
60	G.P.								237	476	477	519						Geophone Pulse
61	G.N.								237	476	477	519						Ground Noise
62	356	30%	2	Fix	25.0			356.0	237	476			5	5	-	2		
63	357	30%	2	Fix	25.0			357.0	238	477			5	5	-	2		
64	358	30%	2	Fix	25.0			358.0	239	478			5	5	-	2		
65	359	30%	2	Fix	25.0			359.0	240	479			3	5	-	2		
66	360	30%	2	Fix	25.0			360.0	241	480			3	5	-	2		
67	361	30%	2	Fix	25.0			361.0	242	481			5	5	-	2		
68	362	30%	2	Fix	25.0			362.0	243	482			5	5	-	2		
69	363	30%	2	Fix	25.0			363.0	244	483			3	5	-	2		
70	364	30%	2	Fix	25.0			364.0	245	484			3	5	-	2		
71	365	30%	3	Fix	25.0			365.0	246	485			3	5	-	2		
72	366	30%	3	Fix	25.0			366.0	247	486			3	5	-	2		
73	367	30%	3	Fix	25.0			367.0	248	487			3	5	-	2		
74	368	30%	3	Fix	25.0			368.0	249	488			3	5	-	2		
75	369	30%	3	Fix	25.0			369.0	250	489			3	5	-	2		
76	370	30%	3	Fix	25.0			370.0	251	490			3	5	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/27	CLOUDY	LIGHT	℃	T.TSUTSUI	6

REEL NO. 2

		SOURCE							RECEIVER			RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.240 CH. CH.			No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
77	371	30%	3	Fix	25.0			371.0	252 - 491			3	5	-	2		
78	372	30%	3	Fix	25.0			372.0	253 - 492			3	5	-	2		
79	373	30%	3	Fix	25.0			373.0	254 - 493			3	5	-	2		
80	374	30%	3	Fix	25.0			374.0	255 - 494			3	5	-	2		
81	375	30%	3	Fix	25.0			375.0	256 - 495			3	5	-	2		
82	378	30%	3	Fix	25.0			378.0	259 - 498			3	5	-	2		
83	379	30%	3	Fix	25.0			379.0	260 - 499			3	5	-	2		
84	380	30%	3	Fix	25.0			380.0	261 - 500			3	5	-	2		
85	381	30%	3	Fix	25.0			381.0	262 - 501			3	5	-	2		
86	382	30%	3	Fix	25.0			382.0	263 - 502			3	5	-	2		
87	383	30%	3	Fix	25.0			383.0	264 - 503			3	5	-	2		
88	384	30%	3	Fix	25.0			384.0	265 - 504			3	5	-	2		
89	385	30%	3	Fix	25.0			385.0	266 - 505			5	5	-	2		
90	386	50%	3	Fix	25.0			386.0	267 - 506			5	5	-	2		
91	387	50%	3	Fix	25.0			387.0	268 - 507			5	5	-	2		
92	388	30%	3	Fix	25.0			388.0	269 - 508			5	5	-	2		
93	389	30%	3	Fix	25.0			389.0	270 - 509			5	5	-	2		
94	390	50%	3	Fix	25.0			390.0	271 - 510			5	5	-	2		
95	391	50%	3	Fix	25.0			391.0	272 - 511			5	5	-	2		
96	392	30%	3	Fix	25.0			392.0	273 - 512			5	5	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE

仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/27	CLOUDY	LIGHT	℃	T.TSUTSUI	7

REEL NO. 2		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
									SPREAD (GEOPHONE LOCATIONS USED)							
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	CH.1 CH.240	CH. CH.	No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
97	393	30%	3	Fix	25.0			393.0	274 - 513		3	5	-	2		
98	394	30%	3	Fix	25.0			394.0	275 - 514		3	5	-	2		
99	395	30%	3	Fix	25.0			395.0	276 - 515		3	5	-	2		
100	396	30%	3	Fix	25.0			396.0	277 - 516		3	5	-	2		
101	397	30%	3	Fix	25.0			397.0	278 - 517		3	5	-	2		
102	398	30%	3	Fix	25.0			398.0	279 - 518		3	5	-	2		
103	399	30%	3	Fix	25.0			399.0	280 - 519		3	5	-	2		
104	D.R									101 - 236						Dynamic Range
105	S.R.									101 - 236						System Response
106	S.N.									101 - 236						System Noise
107	G.P.									101 - 236						Geophone Pulse
108	G.N.									101 - 340						Ground Noise
109	82	30%	2	Fix	25.0			82.0	101 - 340		5	5	-	2		Offset Shot
110	77	30%	1	Fix	25.0			77.0	101 - 340		5	5	-	2		Offset Shot
111	72	90%	1	Fix	25.0			72.0	101 - 340		5	5	-	2		Offset Shot
112	49	30%	2	Fix	25.0			49.0	101 - 340		5	5	-	2		Offset Shot
113	33	30%	2	Fix	25.0			33.0	101 - 340		5	5	-	2		
114	30	90%	3	Fix	25.0			30.0	101 - 340		10	5	-	2		MS2000 on line
115	30	90%	3	Fix	25.0			30.0	101 - 340		20	5	-	2		MS2000 on line
116	30	90%	3	Fix	25.0			30.0	101 - 340		30	5	-	2		MS2000 on line

SEISMIC OBSERVER'S REPORT FORM-B

JGI JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/27	CLOUDY	LIGHT		T.TSUTSUI	8

仙台平野南部地下構造調査 03	SENDAI03 (ケース3)	2003/7/27	CLOUDY	LIGHT	℃	T.T3OT3OT	8

REEL NO. 2		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.240 CH. CH.	No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D), WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength5sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
117	G.N.								101 - 340							Ground Noise

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/28	CLOUDY	LIGHT	℃	T.TSUTSUI	9

REEL NO. 2

		SOURCE							RECEIVER			RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.240	CH. CH.	No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength16sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
118	D.R								101 - 340								Dynamic Range
119	S.R.								101 - 340								System Response
120	S.N.								101 - 340								System Noise
121	G.P.								101 - 340								Geophone Pulse
122	G.N.								101 - 340								Ground Noise
123	102	90%	3	Fix	25.0			102.0	101 - 340			25	16	-	2		
124	105	90%	3	Fix	25.0			105.0	101 - 340			25	16	-	2		
125	108	90%	3	Fix	25.0			108.0	101 - 340			25	16	-	2		
126	111	90%	3	Fix	25.0			111.0	101 - 340			25	16	-	2		
127	114	90%	3	Fix	25.0			114.0	101 - 340			25	16	-	2		
128	117	90%	3	Fix	25.0			117.0	101 - 340			25	16	-	2		
129	28	50%	3	Fix	25.0			28.0	101 - 340			10	16	-	2		MS2000 on line
130	25	50%	3	Fix	25.0			25.0	101 - 340			10	16	-	2		MS2000 on line
131	22	50%	3	Fix	25.0			22.0	101 - 340			10	16	-	2		MS2000 on line
132	19	50%	3	Fix	25.0			19.0	101 - 340			10	16	-	2		MS2000 on line
133	15.5	30%	2	Fix	25.0			15.5	101 - 340			10	16	-	2		MS2000 on line
134	8	50%	3	Fix	25.0			8.0	101 - 340			10	16	-	2		MS2000 on line
135	6	50%	3	Fix	25.0			6.0	101 - 340			10	16	-	2		MS2000 on line
136	6	50%	3	Fix	25.0			6.0	101 - 340			25	16	-	2		MS2000 on line
137	3	50%	3	Fix	25.0			3.0	101 - 340			25	16	-	2		MS2000 on line

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/28	CLOUDY	LIGHT	℃	T.TSUTSUI	10

REEL NO. 2

		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.240 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength16sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
138	G.N.								101 - 340							Ground Noise
																E.O.T

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/29	CLOUDY	LIGHT	℃	T.TSUTSUI	11

REEL NO. 3

		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.497 CH. CH.	No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	Reel #3 B.O.T. [Refraction Shot] RecLength12sec/Sample4msec SweepFreq6-40Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
139	D.R								101 - 597							Dynamic Range
140	S.R.								101 - 597						N.G.	System Response
141	S.R.								101 - 597							System Response
142	S.N.								101 - 597							System Noise
143	G.P.								101 - 597							Geophone Pulse
144	G.N.								101 - 597							Ground Noise
145	G.N.								101 - 597							Ground Noise
146	G.N.								101 - 597							Ground Noise
147	1001	90%	3	Fix	25.0			1001.0	101 - 597		25	12	-	2		
148	1001	90%	3	Fix	25.0			1001.0	101 - 597		50	12	-	2		
149	1001	90%	3	Fix	25.0			1001.0	101 - 597		75	12	-	2		
150	1001	90%	3	Fix	25.0			1001.0	101 - 597		100	12	-	2		
151	1002	90%	3	Fix	25.0			389.0	101 - 597		25	12	-	2		
152	1002	90%	3	Fix	25.0			389.0	101 - 597		50	12	-	2		
153	1003	90%	3	Fix	25.0			1003.0	101 - 597		25	12	-	2		
154	1003	90%	3	Fix	25.0			1003.0	101 - 597		50	12	-	2		
155	1003	90%	3	Fix	25.0			1003.0	101 - 597		75	12	-	2		
156	G.N.								101 - 597							Ground Noise

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/30	RAINY	LIGHT	℃	T.TSUTSUI	12

REEL NO. 3

		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.308 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength12sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
157	D.R								290 - 597							Dynamic Range
158	S.R.								290 - 597							System Response
159	S.N.								290 - 597							System Noise
160	G.P.								290 - 597							Geophone Pulse
161	G.N.								290 - 597							Ground Noise
162	407	30%	1	Fix	25.0			407.0	290 - 597		5	12	-	2		
163	414	30%	2	Fix	25.0			414.0	290 - 597		5	12	-	2		
164	416	30%	2	Fix	25.0			416.0	290 - 597		5	12	-	2		
165	418	30%	2	Fix	25.0			418.0	290 - 597		5	12	-	2		
166	420	30%	3	Fix	25.0			420.0	290 - 597		5	12	-	2		
167	422	30%	2	Fix	25.0			422.0	290 - 597		5	12	-	2		
168	424	30%	2	Fix	25.0			424.0	290 - 597		5	12	-	2		
169	426	30%	2	Fix	25.0			426.0	290 - 597		5	12	-	2		
170	428	30%	2	Fix	25.0			428.0	290 - 597		5	12	-	2		
171	430	30%	2	Fix	25.0			430.0	290 - 597		5	12	-	2		
172	432	30%	2	Fix	25.0			432.0	290 - 597		5	12	-	2		
173	434	30%	3	Fix	25.0			434.0	290 - 597		5	12	-	2		
174	436	30%	3	Fix	25.0			436.0	290 - 597		5	12	-	2		
175	438	30%	3	Fix	25.0			438.0	290 - 597		5	12	-	2		
176	440	30%	3	Fix	25.0			440.0	290 - 597		5	12	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/30	RAINY	LIGHT	℃	T.TSUTSUI	13

REEL NO. 3		SOURCE							RECEIVER			RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.308 CH. CH.			No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength12sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
177	442	30%	3	Fix	25.0			442.0	290 - 597			5	12	-	2		
178	444	50%	3	Fix	25.0			444.0	290 - 597			5	12	-	2		
179	446	50%	3	Fix	25.0			446.0	290 - 597			5	12	-	2		
180	448	50%	3	Fix	25.0			448.0	290 - 597			5	12	-	2		
181	450	50%	3	Fix	25.0			450.0	290 - 597			25	12	-	2		
182	452	50%	3	Fix	25.0			452.0	290 - 597			5	12	-	2		
183	454	30%	3	Fix	25.0			454.0	290 - 597			5	12	-	2		
184	456	50%	3	Fix	25.0			456.0	290 - 597			5	12	-	2		
185	458	50%	3	Fix	25.0			458.0	290 - 597			25	12	-	2		
186	460	50%	3	Fix	25.0			460.0	290 - 597			5	12	-	2		
187	462	50%	3	Fix	25.0			462.0	290 - 597			25	12	-	2		
188	464	50%	3	Fix	25.0			464.0	290 - 597			5	12	-	2		
189	466	50%	3	Fix	25.0			466.0	290 - 597			5	12	-	2		
190	472	30%	3	Fix	25.0			472.0	290 - 597			5	12	-	2		
191	474	30%	3	Fix	25.0			474.0	290 - 597			5	12	-	2		
192	476	30%	3	Fix	25.0			476.0	290 - 597			5	12	-	2		
193	478	30%	3	Fix	25.0			478.0	290 - 597			5	12	-	2		
194	479.5	50%	3	Fix	25.0			479.5	290 - 597			25	12	-	2		Offset Shot
195	G.N.								290 - 597								Ground Noise

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/31	CLOUDY	LIGHT	℃	T.TSUTSUI	14

REEL NO. 3

FIELD REC. FILE NO.	SPorVP NO.	SOURCE: Force Out (%)	SOURCE: No. of Tracks	SOURCE: Array Pattern	SOURCE: Vib Array (m)	SOURCE: LATERAL OFFSET (m)	SOURCE: INLINE OFFSET (m)	SOURCE: SOURCE POSITION	RECEIVER: SPREAD (GEOPHONE LOCATIONS USED) CH.1	CH.308	CH.	CH.	RECORD: No Of Stacks	RECORD: Noise Edit Window Length (ms)	RECORD: Overlap Length (ms)	RECORD: Power Factor	BAD TRACES: DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	REMARKS
																		RecLength12sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
196	D.R								290	597								Dynamic Range
197	S.R.								290	597								System Response
198	S.R.								290	597								System Response
199	S.N.								290	597								System Noise
200	G.P.								290	597								Geophone Pulse
201	G.N.								290	597								Ground Noise
202	482	30%	3	Fix	25.0			482.0	290	597			5	12	-	2		
203	484	30%	3	Fix	25.0			484.0	290	597			5	12	-	2		
204	486	30%	3	Fix	25.0			486.0	290	597			5	12	-	2		
205	488	30%	3	Fix	25.0			488.0	290	597			5	12	-	2		
206	490	30%	3	Fix	25.0			490.0	290	597			5	12	-	2		
207	492	30%	3	Fix	25.0			492.0	290	597			5	12	-	2		
208	494	50%	3	Fix	25.0			494.0	290	597			5	12	-	2		
209	496	50%	3	Fix	25.0			496.0	290	597			5	12	-	2		
210	498	50%	3	Fix	25.0			498.0	290	597			5	12	-	2		
211	500	50%	3	Fix	25.0			500.0	290	597			5	12	-	2		
212	502	50%	3	Fix	25.0			502.0	290	597			5	12	-	2		
213	504	50%	3	Fix	25.0			504.0	290	597			5	12	-	2		
214	506	50%	3	Fix	25.0			506.0	290	597			5	12	-	2		
215	507	50%	3	Fix	25.0			507.0	290	597			5	12	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE
仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/31	CLOUDY	LIGHT	℃	T.TSUTSUI	15

REEL NO. 3

		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.308 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength12sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
216	509	50%	3	Fix	25.0			509.0	290 - 597		5	12	-	2		
217	511	50%	3	Fix	25.0			511.0	290 - 597		5	12	-	2		
218	513	50%	3	Fix	25.0			513.0	290 - 597		5	12	-	2		
219	515	50%	3	Fix	25.0			515.0	290 - 597		5	12	-	2		
220	517	90%	3	Fix	25.0			517.0	290 - 597		25	12	-	2		
221	519	90%	3	Fix	25.0			519.0	290 - 597		5	12	-	2		
222	523	90%	3	Fix	25.0			523.0	290 - 597		5	12	-	2		
223	525	90%	3	Fix	25.0			525.0	290 - 597		5	12	-	2		
224	527	90%	3	Fix	25.0			527.0	290 - 597		5	12	-	2		
225	529	90%	3	Fix	25.0			529.0	290 - 597		5	12	-	2		
226	537	90%	3	Fix	25.0			537.0	290 - 597		25	12	-	2		Offset Shot
227	541	90%	3	Fix	25.0			541.0	290 - 597		5	12	-	2		Offset Shot
228	545	90%	3	Fix	25.0			545.0	290 - 597		5	12	-	2		Offset Shot
229	1003	90%	3	Fix	25.0			1003.0	290 - 597		25	12	-	2		Offset Shot
230	549	30%	2	Fix	25.0			549.0	290 - 597		5	12	-	2		Offset Shot
231	560	30%	2	Fix	25.0			560.0	290 - 597		5	12	-	2		Offset Shot
232	571	50%	2	Fix	25.0			571.0	290 - 597		5	12	-	2		Offset Shot
233	581	90%	2	Fix	25.0			581.0	290 - 597		5	12	-	2		
234	583	90%	1	Fix	25.0			583.0	290 - 597		5	12	-	2		
235	585	90%	1	Fix	25.0			585.0	290 - 597		5	12	-	2		

SEISMIC OBSERVER'S REPORT FORM-B

JGI JGI, INC.

PROSPECT	LINE	DATE	WEATHER	WIND	TEMP	OBSERVER	PAGE

仙台平野南部地下構造調査'03	SENDAI03 (N → S)	2003/7/31	CLOUDY	LIGHT	℃	T.TSUTSUI	16

REEL NO. 3		SOURCE							RECEIVER		RECORD				BAD TRACES	REMARKS
FIELD REC. FILE NO.	SPorVP NO.	Force Out (%)	No. of Tracks	Array Pattern	Vib Array (m)	LATERAL OFFSET (m)	INLINE OFFSET (m)	SOURCE POSITION	SPREAD (GEOPHONE LOCATIONS USED) CH.1 CH.308 CH. CH.		No Of Stacks	Noise Edit Window Length (ms)	Overlap Length (ms)	Power Factor	DEAD(D),WILD(W) or POLARITY INVERSE(P) (NO. means Geophne Location Number)	RecLength12sec/Sample4msec SweepFreq8-60Hz/SweepLength16sec DecimationFilter MINIMUM/PreAmpGain30dB Correration Type [C.B.S.]
236	587	90%	1	Fix	25.0			587.0	290 - 597		5	12	-	2		
237	589	90%	1	Fix	25.0			589.0	290 - 597		5	12	-	2		
238	591	90%	1	Fix	25.0			591.0	290 - 597		5	12	-	2		
239	N-1	90%	1	Fix	25.0			N-1	290 - 597		1	-	-	-		Non Correlation[8-60Hz]
240	N-2	90%	1	Fix	25.0			N-2	290 - 597		1	-	-	-		Non Correlation[6-40Hz]
241	G.N.								290 - 597							Ground Noise
																E.O.T.
																END OF LINE SENDAI03