

LINE NAME:

PCP-FAS-PC01009

REF:

104730

OBSERVERS

OBSERVERS LOG

LINE	0009A019
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: R/V Geo Arctic : PanCanadian Petr. Lmt.(PCP) : Block # VIC/P48&VIC/P49 : 34867		: 14:09 20:04 : 1001 3034 : 1001 3026 : 21 22		Gun#1.8 - 40cu in	
: 0009A019 : 19 : 179.8 : 30.12.01					
Gun Pressure at SOL 1992 psi Array Volume SOL 3660 cu in		Pressure EOL 1992 psi Array Vol EOL 3660 cu in		SOL	
Offset Shots: Gun 2-5 149 m Gun 3-6 146 m				WIND : 3 m/s WIND DIRECTION : 345 deg SWELL : 1 m SWEL DIRECTION : 230 deg CABLE DEPTH : 8 m AVER.NOISE : 10.6 uB(4Hz) AVER.NOISE : 36.8 uB(8Hz) DEPTH : 2499 m	
SP#1120 NTBP (telemetry errors for modules 1... 30) Bad SPs:1182 (G#4.2 t.terr. >2 ms) Missed SPs:1836,1838,1840,1842,1844,1847,1849,2737				EOL WIND : 5 m/s WIND DIRECTION : 330 deg SWELL : 1.5 m SWEL DIRECTION : 220 deg AVER.NOISE : 3.0 uB(8Hz) AVER.NOISE : 5.1 uB(4Hz) DEPTH : 2007 m	
Safonov Victor Bekezin Andrey (00:00-12:00)		Shendrik Vladimir Usov Vladimir (12:00-24:00)		SOURCE DEPTH : 6 m	

0009A019							COMMENTS																														
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)																															
	21	00	91				WB Gun#2-5																														
			92				WB Gun#3-5																														
			93				Noise																														
			995	995			SOL FSP																														
14:09	21	00	1001	1001	2499	-6.3	FCSP																														
14:16			1040	1040	2528	-7.5																															
14:23			1080	1080	2525	-8.3	SP#1120:telem.err.(mod#1... 30)																														
14:30			1120	1120	2583	-8.7	<table><tr><th>SP</th><th>Gun#</th><th>Time err(ms)</th></tr><tr><td>1096</td><td>4.2</td><td>1.38</td></tr><tr><td>1113</td><td>4.2</td><td>1.88</td></tr><tr><td>1118</td><td>4.2</td><td>1.38</td></tr><tr><td>1182</td><td>4.2</td><td>2.75</td></tr><tr><td>1183</td><td>4.2</td><td>1.63</td></tr><tr><td>1192</td><td>4.2</td><td>1.25</td></tr><tr><td>1193</td><td>4.2</td><td>1.63</td></tr><tr><td>2141</td><td>4.8</td><td>1.25</td></tr><tr><td>2734</td><td>1.6</td><td>1.88</td></tr></table>	SP	Gun#	Time err(ms)	1096	4.2	1.38	1113	4.2	1.88	1118	4.2	1.38	1182	4.2	2.75	1183	4.2	1.63	1192	4.2	1.25	1193	4.2	1.63	2141	4.8	1.25	2734	1.6	1.88
SP	Gun#	Time err(ms)																																			
1096	4.2	1.38																																			
1113	4.2	1.88																																			
1118	4.2	1.38																																			
1182	4.2	2.75																																			
1183	4.2	1.63																																			
1192	4.2	1.25																																			
1193	4.2	1.63																																			
2141	4.8	1.25																																			
2734	1.6	1.88																																			
14:37			1160	1160	2601	-9.0																															
14:45			1200	1200	2638	-9.6																															
14:52			1240	1240	2556	-10.1																															
14:58			1280	1280	2672	-10.2																															
15:05			1320	1320	2691	-9.0																															
15:12			1360	1360	2716	-8.7																															
15:19			1400	1400	2738	-9.1																															
15:27			1440	1440	2752	-10.0																															
--			1480	1480	2764	-10.7																															
15:40			1520	1520	2793	-10.8	SP#1437-1440 Gun#1.8 not found (air leakage)																														
15:47			1560	1560	2749	-10.8	SP#1440 G#1.8-"OFF", G#2.7-"ON". Volume 3660cu in.																														
15:54			1600	1600	2737	-11.0	SP#1593 G#2.2 not found(sensor problem)																														
16:01			1640	1640	2690	-11.2																															
16:08			1680	1680	2670	-11.4																															
16:15			1720	1720	2672	-11.4																															
16:22			1760	1760	2663	-11.4																															
16:29			1800	1800	2654	-11.4	Weak shipnoise from astern																														
16:36			1841	1846	2659	-11.5	Ship noise gone																														
16:42			1873	1880	2681	-11.6	Missed SPs:1836,1838,1840,1842,1844,1847,1849																														
16:49			1913	1920	2732	-11.4	SP#1891,1892,1937,1944,1963,1964,1983,1989,1990,1999,2003,																														
16:56			1953	1960	2720	-11.7	2029,2036,2054,2059,2076,2105,2134,2141,2146,2149,2156,2170,																														
17:03			1993	2000	2666	-11.6	2178,2180,2263,2269,2293,2370 G#2.2 "not found"																														
17:10			2033	2040	2662	-11.4																															
17:17			2073	2080	2646	-11.4																															
17:24			2113	2120	2596	-10.8																															
17:32			2153	2160	2531	-10.2																															
17:39			2193	2200	2490	-8.7																															
17:46			2233	2240	2455	-6.1																															
17:53			2273	2280	2280	-3.5																															
18:00			2313	2320	2405	-0.6																															
18:07			2353	2360	2373	3.2	2384,2399,2428,2455,2472,2484,2502,2503,2509 G#2.2 "not found"																														
18:13			2393	2400	2346	5.3	2506,2508 G#1.6 "not found"																														
18:20			2433	2440	2322	7.3	2534,2436, 2543,2560,2585, G#2.2 "not found"																														
18:27			2473	2480	2286	8.6																															
18:35			2513	2520	2261	10.3	SP#2562 feath.angle=12.0 deg																														
18:41			2553	2560	2246	12.6																															
18:48			2593	2600	2216	12.6	SPs# 2666,2680,2705,2722,2748,2762,2764,2806,2809,2810,2816,2833,																														
18:56			2633	2640	2284	14.2	2848,2853,2867-2869,2871,2880,2902,2906,2909,2912,2920,2922,2924,																														
19:03			2673	2680	2181	15.5	2925,2944,2947,2948,2953,2957,2969,2970,2984 : G#2.2 "not found"																														
19:10			2713	2720	2183	17.9	SP#2737 missed																														
19:17			2752	2760	2163	18.4																															
19:24			2792	2800	2167	18.2	2996,3010,3013,3026,3030-3032 : G#2.2 "not found"																														
19:31			2832	2840	2164	17.7																															
19:37			2872	2880	2101	17.7																															
			2906	2914			LCSP																														

mv Geo Arctic

0009A019							
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)	COMMENTS
19:44			2912	2920	2071	17.4	
19:51			2952	2960	2045	16.9	
			2991	2999			EOT
19:58	22	04	2992	3000	2007	16.8	BOT
20:04			3026	3034	2007	17.2	LSP
			3029	3037			LdSP
			3030				noise

30 12 2001 20:14

OBSERVERS LOG

LINE	0009A019
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: R/V Geo Arctic : PanCanadian Petr. Lmt.(PCP) : Block # VIC/P48&VIC/P49 : 34867		: 14:09 20:04 : 1001 3034 : 1001 3026 : 21 22		Gun#1.8 - 40cu in	
: 0009A019 : 19 : 179.8 : 30.12.01					
Gun Pressure at SOL 1992 psi Array Volume SOL 3660 cu in		Pressure EOL 1992 psi Array Vol EOL 3660 cu in		SOL WIND : 3 m/s WIND DIRECTION : 345 deg SWELL : 1 m SWEL DIRECTION : 230 deg CABLE DEPTH : 8 m AVER.NOISE : 10.6 uB(4Hz) AVER.NOISE : 36.8 uB(8Hz) DEPTH : 2499 m	
Offset Shots: Gun 2-5 149 m		Gun 3-6 146 m		EOL WIND : 5 m/s WIND DIRECTION : 330 deg SWELL : 1.5 m SWEL DIRECTION : 220 deg AVER.NOISE : 3.0 uB(8Hz) AVER.NOISE : 5.1 uB(4Hz) DEPTH : 2007 m	
SP#1120 NTBP (telemetry errors for modules 1... 30) Bad SPs:1182 (G#4.2 t.err. >2 ms) Missed SPs:1836,1838,1840,1842,1844,1847,1849,2737 From SP#2666 to EOL feathering angle > 15degs (peaking at 18.5degs).					
Safonov Victor Bekezin Andrey (00:00-12:00)		Shendrik Vladimir Usov Vladimir (12:00-24:00)		SOURCE DEPTH : 6 m	

0009A019							COMMENTS
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)	
	21	00	91				WB Gun#2-5
			92				WB Gun#3-5
			93				Noise
			995	995			SOL FSP
14:09	21	00	1001	1001	2499	-6.3	FCSP
14:16			1040	1040	2528	-7.5	
14:23			1080	1080	2525	-8.3	SP#1120: telem.err.(mod#1... 30)
14:30			1120	1120	2583	-8.7	
14:37			1160	1160	2601	-9.0	
14:45			1200	1200	2638	-9.6	
14:52			1240	1240	2556	-10.1	
14:58			1280	1280	2672	-10.2	
15:05			1320	1320	2691	-9.0	
15:12			1360	1360	2716	-8.7	
15:19			1400	1400	2738	-9.1	
15:27			1440	1440	2752	-10.0	
			1480	1480	2764	-10.7	
15:40			1520	1520	2793	-10.8	SP#1437-1440 Gun#1.8 not found (air leakage)
15:47			1560	1560	2749	-10.8	SP#1440 G#1.8-"OFF", G#2.7-"ON". Volume 3660cu in.
15:54			1600	1600	2737	-11.0	SP#1593 G#2.2 not found(sensor problem)
16:01			1640	1640	2690	-11.2	
16:08			1680	1680	2670	-11.4	
16:15			1720	1720	2672	-11.4	
16:22			1760	1760	2663	-11.4	
16:29			1800	1800	2654	-11.4	Weak shipnoise from astern
16:36			1841	1846	2659	-11.5	Ship noise gone
16:42			1873	1880	2681	-11.6	Missed SPs:1836,1838,1840,1842,1844,1847,1849
16:49			1913	1920	2732	-11.4	SP#1891,1892,1937,1944,1963,1964,1983,1989,1990,1999,2003,
16:56			1953	1960	2720	-11.7	2029,2036,2054,2059,2076,2105,2134,2141,2146,2149,2156,2170,
17:03			1993	2000	2666	-11.6	2178,2180,2263,2269,2293,2370 G#2.2 "not found"
17:10			2033	2040	2662	-11.4	
17:17			2073	2080	2646	-11.4	
17:24			2113	2120	2596	-10.8	
17:32			2153	2160	2531	-10.2	
17:39			2193	2200	2490	-8.7	
17:46			2233	2240	2455	-6.1	
17:53			2273	2280	2280	-3.5	
18:00			2313	2320	2405	-0.6	
18:07			2353	2360	2373	3.2	2384,2399,2428,2455,2472,2484,2502,2503,2509 G#2.2 "not found"
18:13			2393	2400	2346	5.3	2506,2508 G#1.6 "not found"
18:20			2433	2440	2322	7.3	2534,2436, 2543,2560,2585, G#2.2 "not found"
18:27			2473	2480	2286	8.6	
18:35			2513	2520	2261	10.3	SP#2562 feath.angle=12.0 deg
18:41			2553	2560	2246	12.6	
18:48			2593	2600	2216	12.6	SPs# 2666,2680,2705,2722,2748,2762,2764,2806,2809,2810,2816,2833,
18:56			2633	2640	2284	14.2	2848,2853,2867-2869,2871,2880,2902,2906,2909,2912,2920,2922,2924,
19:03			2673	2680	2181	15.5	2925,2944,2947,2948,2953,2957,2969,2970,2984 : G#2.2 "not found"
19:10			2713	2720	2183	17.9	SP#2737 missed
19:17			2752	2760	2163	18.4	
19:24			2792	2800	2167	18.2	2996,3010,3013,3026,3030-3032 : G#2.2 "not found"
19:31			2832	2840	2164	17.7	
19:37			2872	2880	2101	17.7	
			2906	2914			LCSP

mv Geo Arctic

0009A019							
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)	COMMENTS
19:44			2912	2920	2071	17.4	
19:51			2952	2960	2045	16.9	
	21	00	2991	2999			EOT
19:58	22	01	2992	3000	2007	16.8	BOT
20:04			3026	3034	2007	17.2	LSP
	22	01	3029	3037			LdSP
			3030				noise

765

30 12 2001 20:26

I/O MSX SYSTEM OBSERVER LOG

Sun Dec 30 14:10:28 2001

LINE INFORMATION

<i>Client</i>	PanCanadian Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0009A019
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	179.8 deg
<i>Vessel</i>	R/V Geo Arctic
<i>Job Name</i>	34867

I/O MSX SYSTEM OBSERVER LOG

CLIENT: PanCanadian Pet.Lim.

PROSPECT: 2001 MIDAS 2D SURVEY

SHOT	FILE	REEL	TU	FSID	DATE & TIME	EXCEPTION	COMMENT
0	91	21	00	0000 00000	Dec 30, 2001 - 13:51:56	UHTO; NF#; DSP; NFSID; BOR;	WB G#2.5
0	92	21	00	0000 00000	Dec 30, 2001 - 13:52:46	UHTO; DSP; NFSID;	WB G#3.6
0	93	21	00	0000 00000	Dec 30, 2001 - 14:01:26	UHTO; DSP; NFSID; ITB;	noise
995	995	21	00	1364 20832	Dec 30, 2001 - 14:08:24	BOL; NF#; NSP; NFSID;	FdSP
1001	1001	21	00	1364 20838	Dec 30, 2001 - 14:09:28		FCSP
1120	1120	21	00	1364 20957	Dec 30, 2001 - 14:30:48	TE1;	Telemetry errors(modules 1...30)
1837	1836	21	00	1364 21674	Dec 30, 2001 - 16:35:08	NSP; NFSID;	SP#1836 missed
1839	1837	21	00	1364 21676	Dec 30, 2001 - 16:35:28	NSP; NFSID;	SP#1838 missed
1841	1838	21	00	1364 21678	Dec 30, 2001 - 16:35:48	NSP; NFSID;	SP#1840 missed
1843	1839	21	00	1364 21680	Dec 30, 2001 - 16:36:08	NSP; NFSID;	SP#1842 missed
1845	1840	21	00	1364 21682	Dec 30, 2001 - 16:36:28	NSP; NFSID;	SP#1844 missed
1848	1842	21	00	1364 21685	Dec 30, 2001 - 16:36:56	NSP; NFSID;	SP#1847 missed
1850	1843	21	00	1364 21687	Dec 30, 2001 - 16:37:16	NSP; NFSID;	SP#1849 missed
2738	2730	21	00	1364 22575	Dec 30, 2001 - 19:13:22	NSP; NFSID;	SP#2737 missed
2914	2906	21	00	1364 22751	Dec 30, 2001 - 19:43:36		LCSP
3000	2992	22	01	1364 22837	Dec 30, 2001 - 19:58:36	BOR;	
3034	3026	22	01	1364 22871	Dec 30, 2001 - 20:04:20		LGSP
3037	3029	22	01	1364 22874	Dec 30, 2001 - 20:04:52	EOL;	Ldsp
0	3030	22	01	0000 00000	Dec 30, 2001 - 20:05:16	UHTO; NSP; NFSID; ITB;	noise

EXCEPTION ABBREVIATION LIST

MNEMONIC	DESCRIPTION
BOL	Beginning of Line
BOR	Beginning of Reel
BYP	Tape is in Bypass Mode
COR1	Corrected Errors on Primary Tape Unit
COR2	Corrected Errors on Secondary Tape Unit
DF#	Duplicate File Number
DSP	Duplicate Shot Point
ETBK	Early Timebreak
EOL	End of Line
EHTO	Energy Source System header is not received within time limit
FAIL	Recording Failed
GAP1	Gap Errors on Primary Tape Unit
GAP2	Gap Errors on Secondary Tape Unit
GSTO	Gun signature data is not received within time limit
ITB	Internal Timebreak
MOL	Middle of Line
NHTO	Nav System header is not received within time limit
NFSID	Non-sequential FSID
NSP	Non-sequential Shot Point
NF#	Non-sequential or Skipped File
PBK	Playback file
RET1	Primary Tape Unit Retries
RET2	Secondary Tape Unit Retries
TEJ-16	Telemetry error count
UHTO	Pre-built user header is not received within time limit

I/O MSX SYSTEM REEL LOG

Sun Dec 30 14:10:35 2001

LINE INFORMATION

<i>Client</i>	PanCanadien Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0009A019
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	179.8 deg
<i>Vessel</i>	R/V Geo Arctic
<i>Job Name</i>	34867

CLIENT: PanCanadien Pet.Lim. PROSPECT: 2001 MIDAS 2D SURVEY

I/O MSX SYSTEM REEL LOG

Sun Dec 30 14:10:35 2001

REEL NUMBER	TAPE UNIT	FILE COUNT	FIRST FILE LAST FILE	FIRST SP LAST SP	FIRST FSID LAST FSID	START DATE & TIME END DATE & TIME
21	00	2000	91 2991	0 2999	0000 00000 1364 22836	Dec 30, 2001 - 13:51:56 Dec 30, 2001 - 19:58:26
22	01	39	2992 3030	3000 0	1364 22837 0000 00000	Dec 30, 2001 - 19:58:36 Dec 30, 2001 - 20:05:16

PC01-0009a019

Reel # 21-22 Date 30.12.01 Seq # 19

FSP 995 LSP 3037 FFFID 995 LFFID 3029
FGSP 1001 LGSP 3034 FGFFID 1001 LGFFID 3026

Water Break - Channel Set 2

SOL SP: 1001 Offset: 152 ms 149 m
EOL SP: 3034 Offset: 152 ms 149 m

NearPhones - Channel Sets 3-18

Aux Chan	Comment	Aux Chan	Comment
3	Good	11	Good
4	Good	12	Good
5	Good	13	Good
6	Good	14	Good
7	Good	15	Good
8	Good	16	Good
9	Good	17	Good
10	Good	18	Good

Bad/Noisy channels:

Bad Shots:

1120

Lost Shots:

1836, 1838, 1840, 1842, 1844, 1847, 1849, 2737

Environmental Noise

Bird / retriever noise

(Amplitude Plots / NearTrace Plot)

RMS Noise Analysis

Average noise per line

(Time Gate 2000-2500 ms)

LCF 2 Hz LCF 8 Hz

(in RMS time gate)

11.03 5.51

Channel Noise statistics (8 Hz):

	# of Chan.	%	Av.noise
Noise level exc. 35 uB:	0	0	
Noise level exc. 15 uB:	0	0	
Noise level exc. 10 uB:	3	1.3	13.2

Brute Stack:

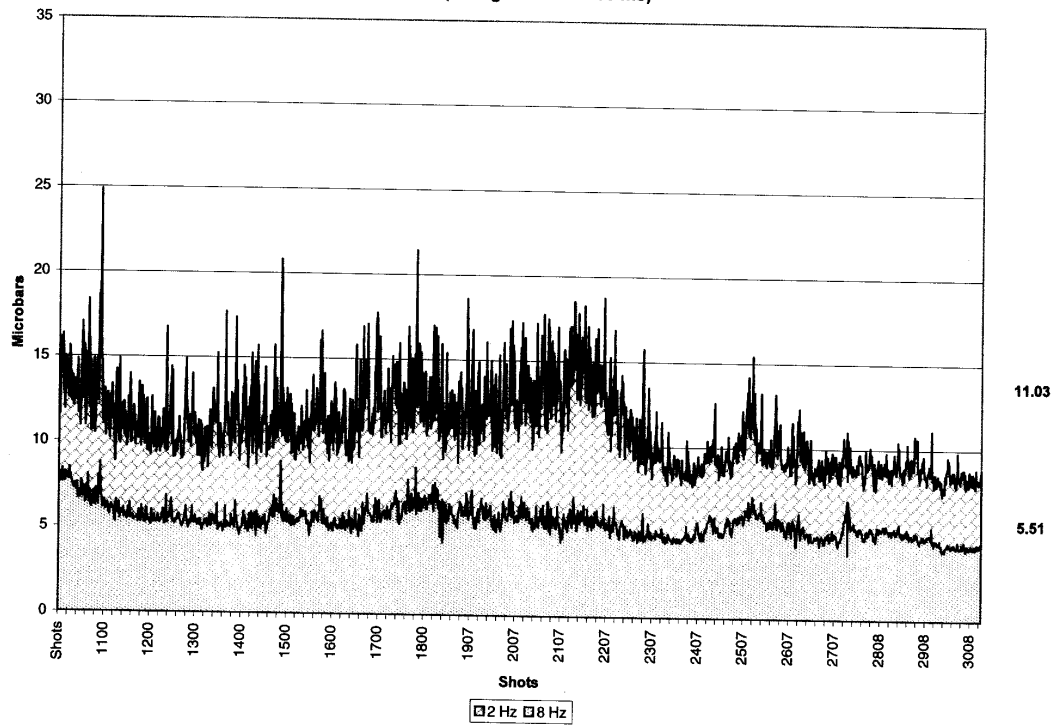
OK

Velocity Comments:

Additional Comments:

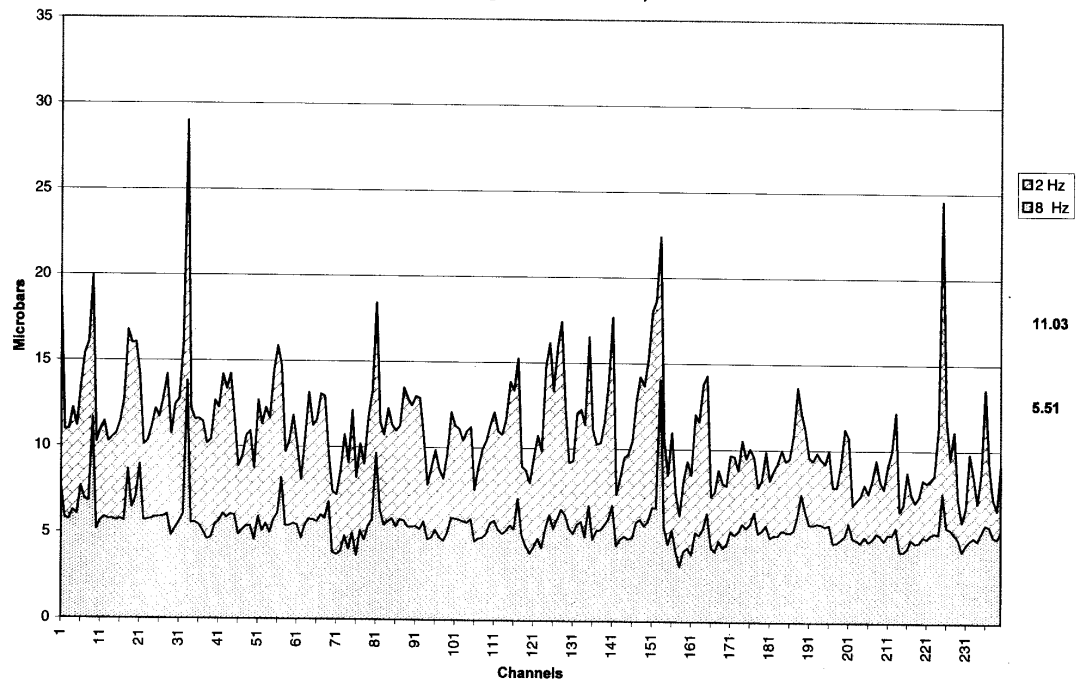
Multiples in analysis window increase noise level.

Line PC01-0009a019 Residual Shot Noise
(time gate 2000-2500 ms)



Shot RMS PC01-0009a019

Line PC01-0009a019 Residual Channel Noise
(time gate 2000-2500 ms)



Chan_RMS_PC01-09a019.xls

