

**LINE NAME:**

**PCP-FAS-PC01018**

**REF:**

**104722**

**OBSERVERS**

## OBSERVERS LOG

LINE	0018A011
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VESSEL : R/V Geo Arctic CLIENT : PanCanadian Petr. Lmt.(PCP) AREA : Block # VIC/P48&VIC/P49 PROJECT : 34867		: 03:56 07:06 : 1001 2104 : 1001 2102 : 13 13		
LINE : 0018A011 SEQ : 11 DR : 359.9 DATE : 28.12.01				
Gun Pressure at SOL : 2051 psi Array Volume SOL : 3660 cu in Offset Shots: Gun 2-5 : 149 m      Gun 3-6 : 146 m Missed SP#1150,1152.		Pressure EOL : 2027 psi Array Vol EOL : 3660 cu in		SOL WIND : 8 m/s WIND DIRECTION : 280 deg SEA STATE : 5 SEA DIRECTION : 295 deg CABLE DEPTH : 8 m AVER.NOISE : 20.7 uB(4Hz) AVER.NOISE : 5.5 uB(8Hz) DEPTH : 3320 m EOL WIND : 7 m/s WIND DIRECTION : 235 deg SEA STATE : 2 AVER.NOISE : 9.9 uB(8Hz) AVER.NOISE : 14.4 uB(4Hz) DEPTH : 2052 m SOURCE DEPTH : 6 m
Safonov Victor Bekezin Andrey (00:00-12:00)		Shendrik Vladimir Usov Vladimir (12:00-24:00)		

## mv Geo Arctic

0018A011						
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)
	13	00	91			Noise
			92			WB Gun#2-5
			93			WB Gun#3-5
			94			Noise
03:55			995	995		SOL FSP
03:56	13	00	1001	1001	3320	4.9
04:03			1040	1040	3323	5.6
04:11			1080	1080	3216	6.0
04:17			1120	1120	3306	6.6
04:24			1158	1160	3286	7.3
04:31			1198	1200	3298	8.2
04:38			1238	1240	3278	9.4
04:44			1278	1280	3171	10.8
04:51			1318	1320	3157	12.4
04:58			1358	1360	2996	13.3
05:05			1398	1400	3017	13.4
05:12			1438	1440	3050	13.3
05:19			1478	1480	2718	13.1
05:26			1518	1520	2653	13.0
05:33			1558	1560	2616	12.7
05:40			1598	1600	2572	12.4
05:47			1638	1640	2500	12.3
05:54			1678	1680	2475	12.2
06:01			1718	1720	2433	12.0
06:08			1758	1760	2385	12.0
06:14			1798	1800	2340	11.7
06:21			1838	1840	2312	11.3
06:28			1878	1880	2285	11.0
06:35			1918	1920	2233	9.9
06:42			1958	1960	2188	9.2
06:46			1982	1984	2171	8.8
06:49			1998	2000	2174	8.7
06:55			2038	2040	2134	8.4
07:02			2078	2080	2091	8.5
07:06			2102	2104	2052	7.9
07:06			2105	2107		EOL. LSP
						LdSP
	13	00	2106			Noise.

# I/O MSX SYSTEM OBSERVER LOG

Fri Dec 28 01:17:19 2001

## LINE INFORMATION

<i>Client</i>	PanCanadien Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0018A011
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	359.9 deg
<i>Vessel</i>	R/V Geo Arctic
<i>Job Name</i>	34867

## 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 dat 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
TE1-16	Telemetry error count
UHTO	Pre-built user header is not received within time limit

## 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	13	00	0000 00000	Dec 28, 2001 - 03:37:16	UHTO; NF#; DSP; NFSID; ITB;	Noise
0	92	13	00	0000 00000	Dec 28, 2001 - 03:44:12	UHTO; NF#; DSP; NFSID;	WB Gun#2.5
0	93	13	00	0000 00000	Dec 28, 2001 - 03:45:16	UHTO; DSP; NFSID;	WB Gun#3.6
0	94	13	00	0000 00000	Dec 28, 2001 - 03:48:30	UHTO; DSP; NFSID; ITB;	Noise
995	995	13	00	1362 11074	Dec 28, 2001 - 03:55:30	BOL; NF#; NSP; NFSID;	FSP
1001	1001	13	00	1362 11080	Dec 28, 2001 - 03:56:36		FCSP
1151	1150	13	00	1362 11230	Dec 28, 2001 - 04:22:46	NSP; NFSID;	SP#1150 missed
1153	1151	13	00	1362 11232	Dec 28, 2001 - 04:23:06	NSP; NFSID;	SP#1152 missed
1984	1982	13	00	1362 12063	Dec 28, 2001 - 06:45:58		LCSP
2104	2102	13	00	1362 12183	Dec 28, 2001 - 07:06:16		LSP
2107	2105	13	00	1362 12186	Dec 28, 2001 - 07:06:48		LdSP
0	2106	13	00	0000 00000	Dec 28, 2001 - 07:07:34	EOL; UHTO; NSP; NFSID; ITB;	Noise

## I/O MSX SYSTEM REEL LOG

Fri Dec 28 01:17:43 2001

### LINE INFORMATION

<i>Client</i>	PanCanadien Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0018A011
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	359.9 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**

**Fri Dec 28 01:17:43 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
13	00	1116	91 2106	0 0	0000 00000 0000 00000	Dec 28, 2001 - 03:37:16 Dec 28, 2001 - 07:07:34

# PC01-0018a011

Reel # 13 Date 28.12.01 Seq # 11

FSP 995 LSP 2107 FFFID 995 LFFID 2105  
FGSP 1001 LGSP 2104 FGFFID 1001 LGFFID 2102

## Water Break - Channel Set 2

SOL SP: 1001 Offset: 152 ms 149 m  
EOL SP: 2104 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:

### Lost Shots:

1150, 1152

## Environmental Noise

Bird / retriever noise

(Amplitude Plots / NearTrace Plot)

## RMS Noise Analysis

Average noise per line

(Time Gate 1500-2000 ms)

LCF 2 Hz LCF 8 Hz

(in RMS time gate)

18.89 6.98

## Channel Noise statistics (8 Hz):

	# of Chan.	%	Av.noise
Noise level exceding 35 uB:	0	0	
Noise level exceding 15 uB:	0	0	
Noise level exceding 10 uB:	7	2.9	11.5

## Brute Stack:

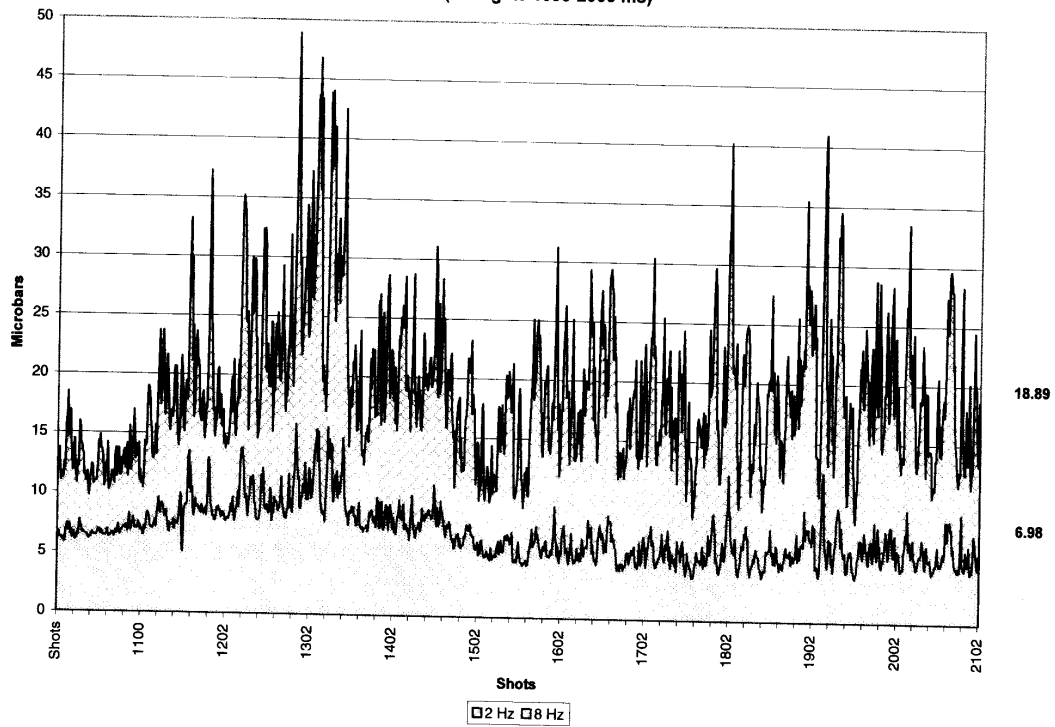
OK

## Velocity Comments:

## Additional Comments:

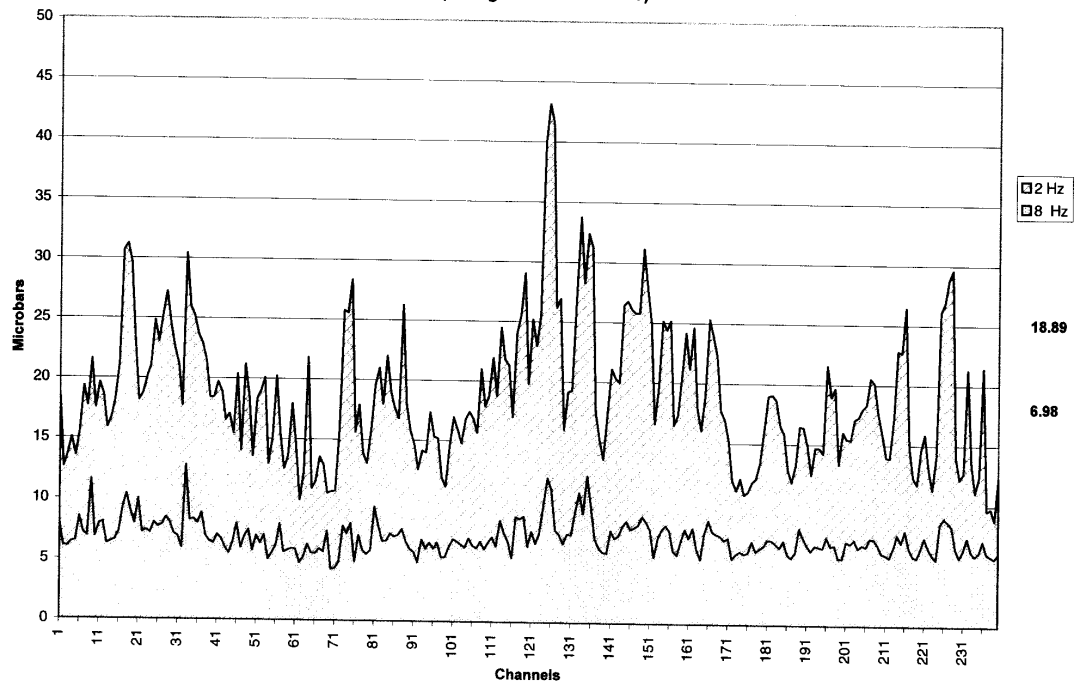
Multiples in analysis window increase noise level.

Line PC01-0018a011 Residual Shot Noise  
(time gate 1500-2000 ms)



Shot RMS PC01-18-011-01

Line PC01-0018a011 Residual Channel Noise  
(time gate 1500-2000 ms)



Chan\_RMS\_PC01-18a011.xls

pc01-18a011.rmsamp8hz noise  
SHOT 1101 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103  
NAVSHOT 1101 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103

BEST OBTAINABLE COPY

Time (sec)

