

**LINE NAME:**

**PCP-FAS-PC01006**

**REF:**

**104739**

**OBSERVERS**

## OBSERVERS LOG

LINE	0006A028
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R/V Geo Arctic PanCanadian Petr. Lmt.(PCP) Block # VIC/P48&VIC/P49 34867		15:41 17:48 1001 1704 1001 1692 31 31		Gun#4.8(40cu in) Gun#4.2(250cu in) Gun#3.3(100cu in)																																							
0006A028 28 236.1 04.01.02																																											
Gun Pressure at SOL 2027 psi Array Volume SOL 3660 cu in		Pressure EOL 1992 psi Array Vol EOL 3410 cu in																																									
Offset Shots: Gun 2-5 146 m		Gun 3-6 146 m																																									
Cable depth 10 m Before SOL Gun#4.8(40cu in) OFF, Gun#2.7(40cu in) ON SP#1013 G#4.2 OFF; Firing volume 3410cu in, dropout 6.8% Missed SPs: 1119, 1121, 1168, 1303, 1327, 1331, 1378, 1414, 1416, 1583, 1585, 1613																																											
Safonov Victor Bekezin Andrey (00:00-12:00)		Shendrik Vladimir Usov Vladimir (12:00-24:00)		<table border="1"> <tr> <td colspan="2">SOL</td> </tr> <tr> <td>WIND</td> <td>13 m/s</td> </tr> <tr> <td>WIND DIRECTION</td> <td>310 deg</td> </tr> <tr> <td>SEA STATE</td> <td>5</td> </tr> <tr> <td>SEA DIRECTION</td> <td>290 deg</td> </tr> <tr> <td>CABLE DEPTH</td> <td>10 m</td> </tr> <tr> <td>AVER.NOISE</td> <td>58.7 uB(4Hz)</td> </tr> <tr> <td>AVER.NOISE</td> <td>27.0 uB(8Hz)</td> </tr> <tr> <td>DEPTH</td> <td>- m</td> </tr> <tr> <td colspan="2">EOL</td> </tr> <tr> <td>WIND</td> <td>9 m/s</td> </tr> <tr> <td>WIND DIRECTION</td> <td>260 deg</td> </tr> <tr> <td>SEA STATE</td> <td>5</td> </tr> <tr> <td>SEA DIRECTION</td> <td>260 deg</td> </tr> <tr> <td>AVER.NOISE</td> <td>6.0 uB(8Hz)</td> </tr> <tr> <td>AVER.NOISE</td> <td>19.7 uB(4Hz)</td> </tr> <tr> <td>DEPTH</td> <td>2123 m</td> </tr> <tr> <td colspan="2">SOURCE DEPTH</td> </tr> <tr> <td colspan="2">6 m</td> </tr> </table>		SOL		WIND	13 m/s	WIND DIRECTION	310 deg	SEA STATE	5	SEA DIRECTION	290 deg	CABLE DEPTH	10 m	AVER.NOISE	58.7 uB(4Hz)	AVER.NOISE	27.0 uB(8Hz)	DEPTH	- m	EOL		WIND	9 m/s	WIND DIRECTION	260 deg	SEA STATE	5	SEA DIRECTION	260 deg	AVER.NOISE	6.0 uB(8Hz)	AVER.NOISE	19.7 uB(4Hz)	DEPTH	2123 m	SOURCE DEPTH		6 m	
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mv Geo Arctic

0006A028							COMMENTS
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)	
	31	xx	91				WB Gun#2-5
			92				WB Gun#3-5
			93				Noise
			995	995			SOL FSP
15:41	31		1001	1001	-	7.7	FCSP
15:49			1040	1040	-	7.1	G#4.2
15:56			1080	1080	-	6.2	SP 1001 1003 1004 1005 1008 1009 1010 1011 1012
16:03			1119	1120	-	5.1	time er. 2.63 2.0 1.38 1.25 6.13 6.13 4.13 1.38 1.63
16:10			1158	1160	2520	5.3	SP#1013 G#4.2 OFF; Firing volume 3410cu in, dropout 6.8%
16:17			1197	1200	2537	5.4	Gun#2.1, G#2.2 have many t. err., "not found" alarm(see gun's pr
16:25			1237	1240	2367	5.2	SP#1119,1121,1168,1303,1327,1331,1378,1414,1416 missed
16:32			1277	1280	2479	5.3	
16:39			1316	1320	--	5.3	
16:46			1354	1360	2350	5.4	Gun#3.3
16:53			1393	1400	2305	5.6	SP 1265 1266 1267 1268 1455 1456 1457 1458 1459
17:00			1431	1440	2298	5.7	t.err. 10.0 -6.0 2.25 1.38 11.0 6.63 2.63 2.75 1.13
17:07			1471	1480	2280	5.6	SP#1237,1280,1311, G#3.8 not found
17:15			1511	1520	2351	5.5	
17:22			1551	1560	2232	5.6	SP#1212,1218,1380,1418,1441,1453,1474 G#3.3 not found
17:26			1574	1584	LCSP		SP#1583,1585,1613 missed
17:29			1589	1600	2189	5.5	SP#1476 G#3.3-"OFF", G#2.5-"ON"
17:36			1628	1640	2156	4.8	SP#1548 G#2.7 time err.1.13ms
17:43			1668	1680	2198	4.2	SP#1659 G#3.3"autofired"??(G#3.3 is in STANDBY)
17:48			1692	1704	2123	4.1	LGSP
			1695	1707			EOL.LdSP
			1696				noise

04 01 2002 18:39

# I/O MSX SYSTEM OBSERVER LOG

Fri Jan 4 11:52:59 2002

## LINE INFORMATION

<i>Client</i>	PanCanadian Pet.Lim.
<i>Prospect</i>	2001 MIDAS'2D SURVEY
<i>Line Name</i>	0006A028
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	236.1 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	31	00	0000 00000	Jan 04, 2002 - 15:29:00	UHTO; NF#; DSP; NFSID; BOR; ITB;	dummy ife
0	92	31	00	0000 00000	Jan 04, 2002 - 15:29:22	UHTO; DSP; NFSID;	WB G#2.5
0	93	31	00	0000 00000	Jan 04, 2002 - 15:30:18	UHTO; DSP; NFSID;	WB G#3.6
0	94	31	00	0000 00000	Jan 04, 2002 - 15:31:06	UHTO; DSP; NFSID; ITB;	noise
995	995	31	00	2004 33373	Jan 04, 2002 - 15:40:32	BOL; NF#; NSP; NFSID;	FdSP
1001	1001	31	00	2004 33379	Jan 04, 2002 - 15:41:48		FCSP
1120	1119	31	00	2004 33498	Jan 04, 2002 - 16:03:44	NSP; NFSID;	SP#1119 missed
1122	1120	31	00	2004 33500	Jan 04, 2002 - 16:04:04	NSP; NFSID;	SP#1121 missed
1169	1166	31	00	2004 33547	Jan 04, 2002 - 16:12:20	NSP; NFSID;	SP#1168 missed
1304	1300	31	00	2004 33682	Jan 04, 2002 - 16:36:22	NSP; NFSID;	SP#1303 missed
1328	1323	31	00	2004 33706	Jan 04, 2002 - 16:40:32	NSP; NFSID;	SP#1327 missed
1332	1326	31	00	2004 33710	Jan 04, 2002 - 16:41:12	NSP; NFSID;	SP#1331 missed
1379	1372	31	00	2004 33757	Jan 04, 2002 - 16:49:40	NSP; NFSID;	SP#1378 missed
1415	1407	31	00	2004 33793	Jan 04, 2002 - 16:55:52	NSP; NFSID;	SP#1414 missed
1417	1408	31	00	2004 33795	Jan 04, 2002 - 16:56:12	NSP; NFSID;	SP#1416 missed
1584	1574	31	00	2004 33962	Jan 04, 2002 - 17:26:36	NSP; NFSID;	SP#1583 missed
1586	1575	31	00	2004 33964	Jan 04, 2002 - 17:26:56	NSP; NFSID;	SP#1585 missed
1614	1602	31	00	2004 33992	Jan 04, 2002 - 17:31:54	NSP; NFSID;	SP#1613 missed
1704	1692	31	00	2004 34082	Jan 04, 2002 - 17:48:04		LGSP
1707	1695	31	00	2004 34085	Jan 04, 2002 - 17:48:40	EOL;	LdSP
0	1696	31	00	0000 00000	Jan 04, 2002 - 17:49:04	UHTO; NSP; NFSID; ITB;	noise

## EXCEPTION ABBREVIATION LIST

<i>MNEMONIC</i>	<i>DESCRIPTION</i>
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	Playedback 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 REEL LOG

Fri Jan 4 11:53:03 2002

### LINE INFORMATION

<i>Client</i>	PanCanadien Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0006A028
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	236.1 deg
<i>Vessel</i>	R/V Geo Arctic
<i>Job Name</i>	34867



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

**I/O MSX SYSTEM REEL LOG**

**Fri Jan 4 11:53:03 2002**

REEL NUMBER	TAPE UNIT	FILE COUNT	FIRST FILE LAST FILE	FIRST SP LAST SP	FIRST FSID LAST FSID	START DATE & TIME END DATE & TIME
31	00	706	91 1696	0 0	0000 00000 0000 00000	Jan 04, 2002 - 15:29:00 Jan 04, 2002 - 17:49:04

# PC01-0006a028

Reel # 31 Date 04.01.02 Seq # 28

FSP 995 LSP 1707 FFFID 995 LFFID 1695  
 FGSP 1001 LGSP 1704 FGFFID 1001 LGFFID 1692

## Water Break - Channel Set 2

SOL SP: 1001  
 EOL SP: 1704

Offset: 152 ms 149 m  
 Offset: 152 ms 149 m

## NearPhones - Channel Sets 3-18

Aux Chan Comment  
 3 Good  
 4 Good  
 5 Good  
 6 Good  
 7 Good  
 8 Good  
 9 Good  
 10 Good

Aux Chan Comment  
 11 Good  
 12 Abnormal on Gun 3-2 reported NF  
 13 Good  
 14 Good  
 15 Good  
 16 Good  
 17 Good  
 18 Good

## Bad/Noisy channels:

### Bad Shots:

### Lost Shots:

1119, 1121, 1168, 1303, 1327, 1331, 1378, 1414, 1416,  
 1583, 1585, 1613

## Environmental Noise

Bird / retriever noise

(Amplitude Plots / NearTrace Plot)

## RMS Noise Analysis

Average noise per line

(in RMS time gate)

(Time Gate 2000-2500 ms)

LCF 2 Hz LCF 8 Hz

31.94 9.61

## Channel Noise statistics (8 Hz):

	# of Chan.	%	Av.noise
Noise level exc. 35 uB:	0	0	
Noise level exc. 15 uB:	21	8.8	17.9
Noise level exc. 10 uB:	85	35.4	13.4

## Brute Stack:

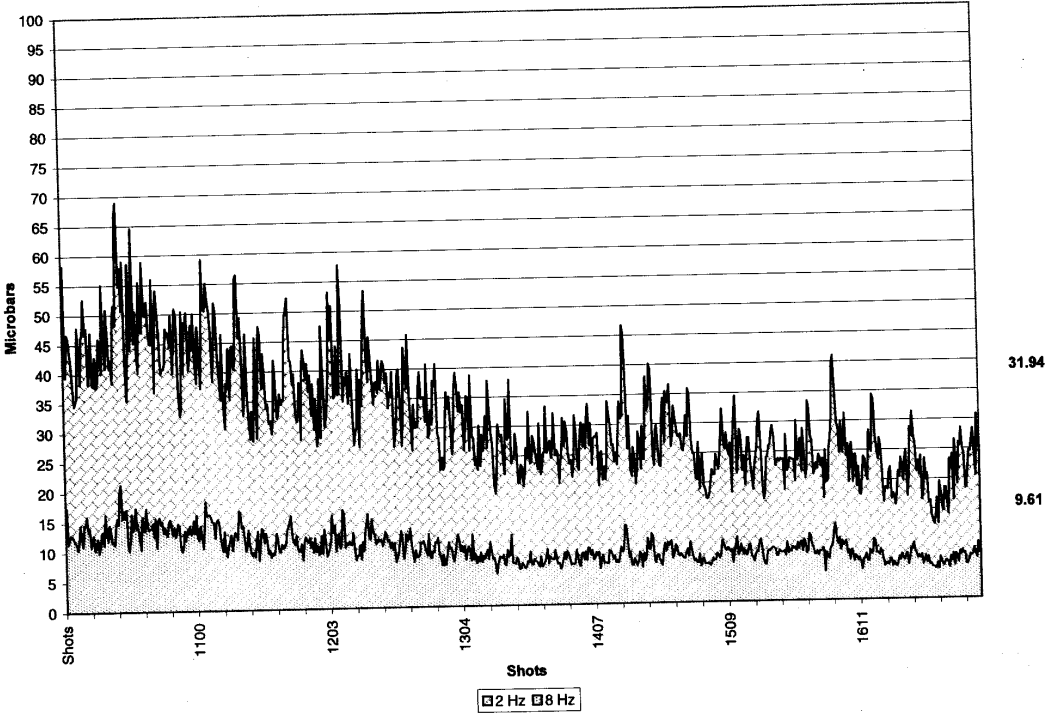
OK

## Velocity Comments:

## Additional Comments:

Multiples in analysis window increase noise level.

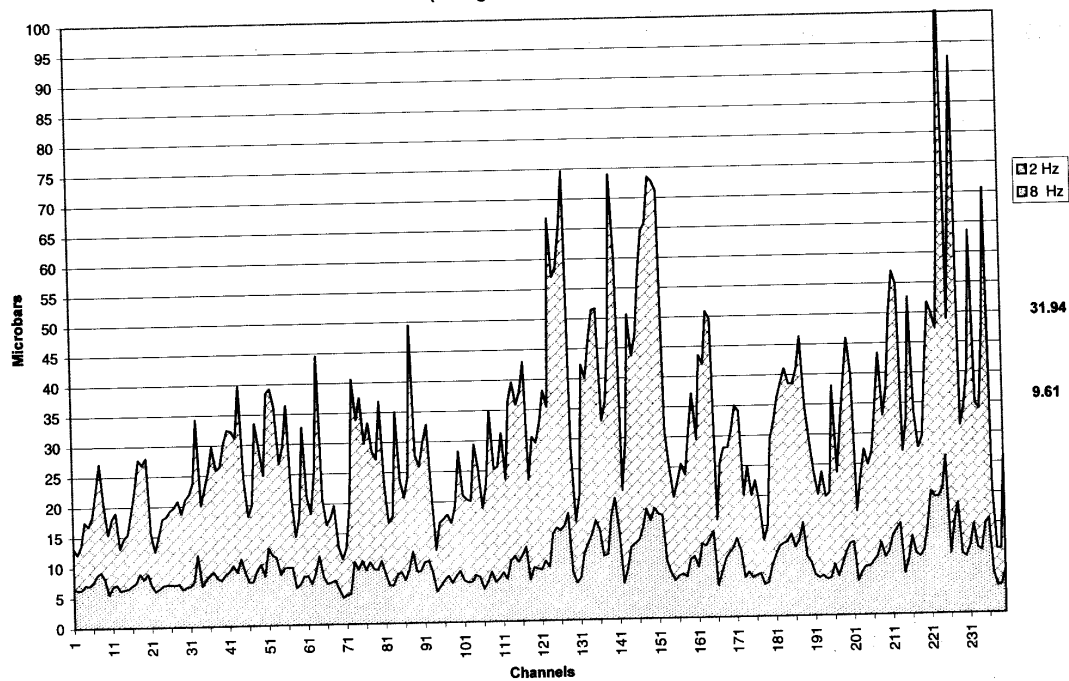
Line PC01-0006a028 Residual Shot Noise  
(time gate 2000-2500 ms)



Shot\_RMS\_PC01-06a028.xls

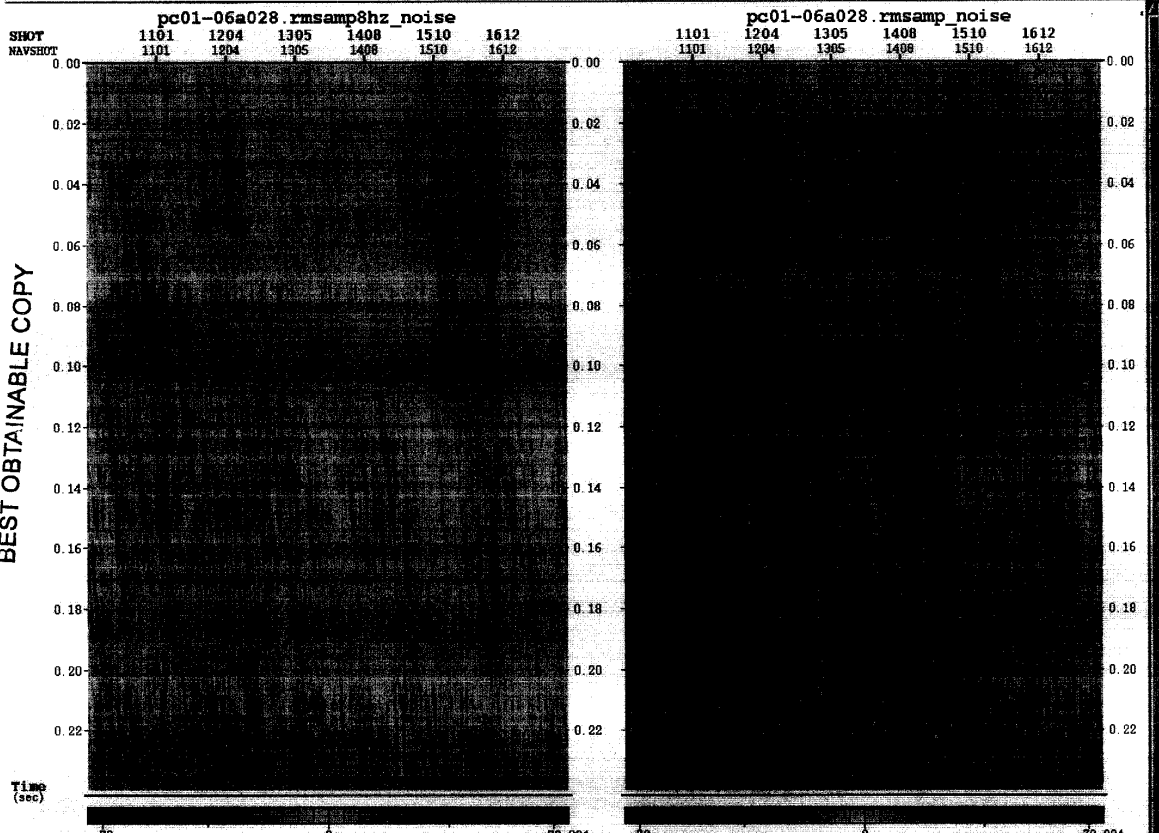
05.01.02 09:45

Line PC01-0006a028 Residual Channel Noise  
(time gate 2000-2500 ms)



Chas. BMS PC01-0006a028.xls

R/V 'Geo Arctic'



Shots along Line 0006a028

