

LINE NAME:

PCP-FAS-PC01012

REF:

104733

OBSERVERS

OBSERVERS LOG

LINE	0012B022
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VESSEL : R/V Geo Arctic CLIENT : PanCanadian Petr. Lmt.(PCP) AREA : Block # VIC/P48&VIC/P49 PROJECT : 34867		TIME SOL : 21:09 02:59 START : 1001 2996 END : 1001 2995 COUNT : 25 25	BAD GUNS
LINE : 0012B022 SEQ : 22 DIR : 359.7 DATE : 31.12.01	HEADSTREAMER TRACES 	NO. OF TRACKS 	
Gun Pressure at SOL : 2027 psi Array Volume SOL : 3660 cu in Pressure EOL : 1957 psi Array Vol EOL : 3660 cu in Offset Shots: Gun 2-5 : 149 m Gun 3-6 : 146 m		SOL WIND : 13 m/s WIND DIRECTION : 265 deg SEA STATE : 6 SEA DIRECTION : 265 deg CABLE DEPTH : 8 m AVER.NOISE : 5.3 uB(4Hz) AVER.NOISE : 13.1 uB(8Hz) DEPTH : - m EOL WIND : 5 m/s WIND DIRECTION : 290 deg SEA STATE : swell 1.5 m SEA DIRECTION : 250 deg AVER.NOISE : 2.1 uB(8Hz) AVER.NOISE : 5.6 uB(4Hz) DEPTH : 2490 m	
SP#1910 missed SP#1103-2227, 2592-EOL: feathering angle > 10 deg. SP#2843, 2844, 2847, 2963-2964: telemetry errors. 2848		SOURCE DEPTH : 6 m	
Safonov Victor Bekezin Andrey (00:00-12:00)		Shendrik Vladimir Usov Vladimir (12:00-24:00)	

0012B022						
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	COMMENTS
	25	00	91			WB Gun#2-5
			92			WB Gun#3-6
			93			Noise
			995	995		SOL FSP
21:09	25	00	1001	1001	-	FCSP
21:15			1040	1040	-	Unstable echosounding d/t roll
21:24			1080	1080	-	Bad control the head of streamer d/t swell
21:31			1120	1120	-	SP#1103: feathering angle >10 deg
21:38			1160	1160	-	
21:44			1200	1200	-	
21:51			1240	1240	2341	
21:58			1280	1280	2349	
22:06			1320	1320	2368	
22:13			1360	1360	-	
22:20			1400	1400	-	
22:27			1440	1440	2420	
22:34			1480	1480	2434	
22:41			1520	1520	2443	
22:48			1560	1560	2463	
22:55			1600	1600	2507	
23:02			1640	1640	2505	
23:09			1680	1680	2557	
23:17			1720	1720	2588	SP#1666,1787 G#2.2 not found
23:24			1760	1760	2634	
23:31			1800	1800	2691	
23:38			1840	1840	2714	
23:45			1880	1880	2746	SP#1910 missed
23:52			1919	1920	2736	
23:59			1959	1960	2780	
			1962	1963	-	Last SP of day
00:06			1999	2000	2818	
00:13			2039	2040	2858	
00:19			2079	2080	2881	
00:26			2119	2120	2934	SP#2022,2273,2281,2302: G#2.2 not found
00:33			2159	2160	2922	
00:40			2199	2200	2915	
00:47			2239	2240	2908	SP#2228: feathering angle < 10 deg
00:54			2279	2280	2920	
01:01			2319	2320	2925	
01:08			2359	2360	2899	
01:15			2399	2400	2868	
01:21			2439	2440	2843	
01:28			2479	2480	2825	
01:35			2519	2520	2800	From SP#2504 G#2.2: many "not found" alarms - gun believed to working correctly.
01:42			2559	2560	2782	SP#2526: G#4.4 not found.
01:49			2599	2600	2756	SP#2592: feathering angle > 10deg.
01:56			2639	2640	2734	
02:03			2679	2680	2696	
02:10			2719	2720	2670	
02:18			2759	2760	2644	
02:25			2799	2800	2638	
02:32			2839	2840	2593	SP#2843,2844,2847: telemetry errors.
02:38			2875	2876	2563	LCSP.
02:46			2919	2920	2540	
02:53			2959	2960	2522	SP#2963-2964: telemetry errors.
02:59			2995	2996	2490	EOL LSP.
03:00			2998	2999		LdSP
	25	00	2999			Noise.

OBSERVERS LOG

LINE

0012B022

: R/V Geo Arctic : PanCanadian Petr. Lmt.(PCP) : Block # VIC/P48&VIC/P49 : 34867		: 21:09 02:59 : 1001 2996 : 1001 2995 : 25 25		
: 0012B022 : 22 : 359.7 : 31.12.01				
Gun Pressure at SOL	2027 psi	Pressure EOL	1957 psi	
Array Volume SOL	3660 cu in	Array Vol EOL	3660 cu in	
Offset Shots: Gun 2-5		149 m	Gun 3-6	146 m
SP#1910 missed SP#1103-2227, 2592-EOL: feathering angle > 10 deg. SP#2843,2844,2848,2963-2964: telemetry errors. From SP#1360 to SP#1963 feathering angle >15deg (peaking 23deg).				
Safonov Victor		Shendrik Vladimir		
Bekezin Andrey		Usov Vladimir		
(00:00-12:00)		(12:00-24:00)		
		SOL WIND : 13 m/s WIND DIRECTION : 265 deg SEA STATE : 6 SEA DIRECTION : 265 deg CABLE DEPTH : 8 m AVER.NOISE : 5.3 uB(4Hz) AVER.NOISE : 13.1 uB(8Hz) DEPTH : - m EOL WIND : 5 m/s WIND DIRECTION : 290 deg SEA STATE : swell 1.5 m SEA DIRECTION : 250 deg AVER.NOISE : 2.1 uB(8Hz) AVER.NOISE : 5.6 uB(4Hz) DEPTH : 2490 m SOURCE DEPTH : 6 m		

mv Geo Arctic

0012B022							
GMT	TAPE	DRIVE	FILE	SHOT	Water depth(m)	F/A (deg)	COMMENTS
	25	00	91				WB Gun#2-5
			92				WB Gun#3-6
			93				Noise
			995	995			SOL FSP
21:09	25	00	1001	1001	-	-6.3	FCSP
21:15			1040	1040	-	-7.7	Unstable echosounding d/t roll
21:24			1080	1080	-	-9.9	Bad control the head of streamer d/t swell
21:31			1120	1120	-	-10.4	SP#1103: feathering angle >10 deg
21:38			1160	1160	-	-11.4	
21:44			1200	1200	-	-12.6	
21:51			1240	1240	2341	-13.1	
21:58			1280	1280	2349	-14.2	
22:06			1320	1320	2368	-14.7	
22:13			1360	1360	-	-15.4	
22:20			1400	1400	-	-15.2	
22:27			1440	1440	2420	-16.4	
22:34			1480	1480	2434	-16.9	
22:41			1520	1520	2443	-17.4	
22:48			1560	1560	2463	-17.9	
22:55			1600	1600	2507	-18.3	
23:02			1640	1640	2505	-19.2	
23:09			1680	1680	2557	-20.2	
23:17			1720	1720	2588	-21.5	SP#1666,1787 G#2.2 not found
23:24			1760	1760	2634	-22.3	
23:31			1800	1800	2691	-22.7	
23:38			1840	1840	2714	-20.4	
23:45			1880	1880	2746	-18.1	SP#1910 missed
23:52			1919	1920	2736	-16.1	
23:59			1959	1960	2780	-15.9	
			1962	1963			Last SP of day
00:06			1999	2000	2818	-14.2	
00:13			2039	2040	2858	-13.1	
00:19			2079	2080	2881	-11.9	
00:26			2119	2120	2934	-11.2	SP#2022,2273,2281,2302: G#2.2 not found
00:33			2159	2160	2922	-11.2	
00:40			2199	2200	2915	-11.2	
00:47			2239	2240	2908	-8.5	SP#2228: feathering angle < 10 deg
00:54			2279	2280	2920	-6.3	
01:01			2319	2320	2925	-3.9	
01:08			2359	2360	2899	-1.5	
01:15			2399	2400	2868	0.9	
01:21			2439	2440	2843	4.0	
01:28			2479	2480	2825	5.5	From SP#2504 G#2.2: many "not found" alarms -
01:35			2519	2520	2800	7.6	gun believed to working correctly.
01:42			2559	2560	2782	9.0	SP#2526: G#4.4 not found.
01:49			2599	2600	2756	10.3	SP#2592: feathering angle > 10deg.
01:56			2639	2640	2734	11.3	
02:03			2679	2680	2696	12.6	
02:10			2719	2720	2670	12.9	
02:18			2759	2760	2644	13.2	
02:25			2799	2800	2638	13.4	
02:32			2839	2840	2593	13.5	SP#2843,2844,2848: telemetry errors.
02:38			2875	2876	2563	13.3	LCSP.
02:46			2919	2920	2540	12.9	
02:53			2959	2960	2522	13.2	SP#2963-2964: telemetry errors.
02:59			2995	2996	2490	12.9	EOL. LSP.
03:00			2998	2999			LdSP
	25	00	2999				Noise.

01 01 2002 12:20

I/O MSX SYSTEM OBSERVER LOG

Mon Dec 31 21:14:04 2001

LINE INFORMATION

<i>Client</i>	PanCanadian Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0012B022
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	359.7deg
<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	25	00	0000 00000	Dec 31, 2001 - 20:56:46	UHTO; NF#; DSP; NFSID; BOR;	WB Gun#2.5
0	92	25	00	0000 00000	Dec 31, 2001 - 20:57:44	UHTO; DSP; NFSID;	WB Gun#3.6
0	93	25	00	0000 00000	Dec 31, 2001 - 20:59:00	UHTO; DSP; NFSID; ITB;	Noise
995	995	25	00	1365 25221	Dec 31, 2001 - 21:08:52	BOL; NF#; NSP; NFSID;	SOL RdSP
1911	1910	25	00	1365 26137	Dec 31, 2001 - 23:50:38	NSP; NFSID;	SP#1910 missed
1964	1963	25	00	2001 26190	Dec 31, 2001 - 23:59:52	NFSID;	First SP of day
2843	2842	25	00	2001 27069	Jan 01, 2002 - 02:32:32	TE1;	
2844	2843	25	00	2001 27070	Jan 01, 2002 - 02:32:42	TE1;	
2848	2847	25	00	2001 27074	Jan 01, 2002 - 02:33:24	TE1;	
2876	2875	25	00	2001 27102	Jan 01, 2002 - 02:38:16		LCSP
2963	2962	25	00	2001 27189	Jan 01, 2002 - 02:53:42	TE1;	
2964	2963	25	00	2001 27190	Jan 01, 2002 - 02:53:52	TE1;	
2996	2995	25	00	2001 27222	Jan 01, 2002 - 02:59:32		EOL. LSP.
2999	2998	25	00	2001 27225	Jan 01, 2002 - 03:00:04		LdSP
0	2999	25	00	0000 00000	Jan 01, 2002 - 03:00:48	EOL; 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 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 REEL LOG

Mon Dec 31 21:14:42 2001

LINE INFORMATION

<i>Client</i>	PanCanadien Pet.Lim.
<i>Prospect</i>	2001 MIDAS 2D SURVEY
<i>Line Name</i>	0012B022
<i>Crew/Party</i>	
<i>Operators</i>	AMIGE
<i>Weather</i>	As Obs. Log
<i>Seas</i>	As Obs. Log
<i>Heading</i>	359.7deg
<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

Mon Dec 31 21:14:42 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
25	00	2008	91 2999	0 0	0000 00000 0000 00000	Dec 31, 2001 - 20:56:46 Jan 01, 2002 - 03:00:48

PC01-0012b022

Reel # 25 Date 31.12.01 Seq # 22

FSP 995 LSP 2999 FFFID 995 LFFID 2998

FGSP 1001 LGSP 2996 FGFFID 1001 LGFFID 2995

Water Break - Channel Set 2

SOL SP: 1001 Offset: 152 ms 149 m

EOL SP: 2996 Offset: 152 ms 149 m

NearPhones - Channel Sets 3-18

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

Bad/Noisy channels:

Bad Shots: 2843, 2844, 2848, 2963, 2964

Lost Shots: 1910

Environmental Noise

Bird / retriever noise (Amplitude Plots / NearTrace Plot)

RMS Noise Analysis

Average noise per line (Time Gate 2000-2500 ms)

(in RMS time gate) LCF 2 Hz LCF 8 Hz

13.82 6.32

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:	2	0.8	10.7

Brute Stack:

OK

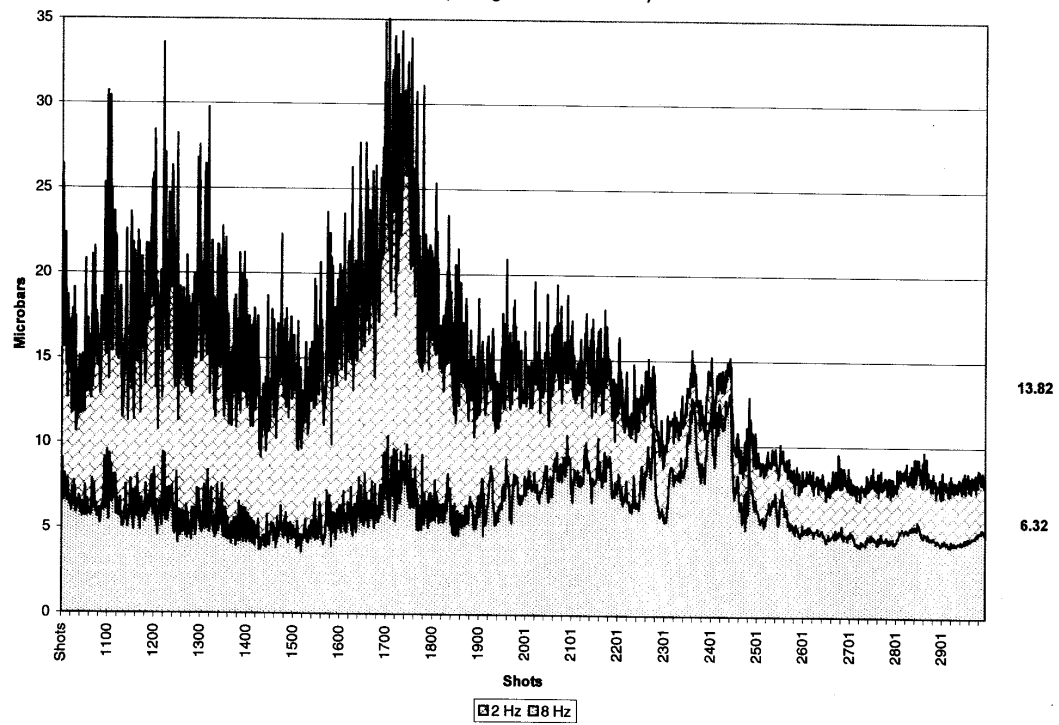
Velocity Comments:

Additional Comments:

Bad shots (see) distort noise calculations

Multiples in analysis window increase noise level.

Line PC01-0012b022 Residual Shot Noise
(time gate 2000-2500 ms)



Line PC01-0012b022 Residual Channel Noise
(time gate 2000-2500 ms)

