

LINE NAME:

PCP-FAS-PC01002

REF:

104715

OBSERVERS

OBSERVERS LOG

| | |
|------|----------|
| LINE | 0002A004 |
|------|----------|

| | | | | |
|---|--|--|--|--|
| : R/V Geo Arctic : PanCanadian Petr. Lmt.(PCP) : Block # VIC/P48&VIC/P49 : 34867 | | : 03:15 09:15 : 1001 3070 : 1001 3070 : 5 6 | | |
| LINE : 0002A004 SEQ : 4 DR : 279.9 DATE : 23.12.01 | | 33 | | |
| Gun Pressure at SOL 2027 psi Array Volume SOL 3660 cu in | | Pressure EOL 1992 psi Array Vol EOL 3660 cu in | | |
| Offset Shots: Gun 2-5 147 m | | Gun 3-5 147 m | | |
| | | | | |
| Safonov Victor Bekezin Andrey (00:00-12:00) | | Shendrik Vladimir Usov Vladimir (12:00-24:00) | | |
| | | SOL WIND : 3 m/s WIND DIRECTION : 65 deg SEA STATE : 3 st SEA DIRECTION : 40 deg CABLE DEPTH : 8 m AVER.NOISE : 5.1 uB(4Hz) AVER.NOISE : 2.7 uB(8Hz) DEPTH : 2424 m EOL WIND : 3 m/s WIND DIRECTION : 100 deg SEA STATE : 2 st AVER.NOISE : 3.3 uB(8Hz) AVER.NOISE : 5.3 uB(4Hz) DEPTH : 2467 m SOURCE DEPTH : 6 m | | |

mv Geo Arctic

| 0002A004 | | | | | | |
|----------|------|-------|------|------|----------------|------------|
| GMT | TAPE | DRIVE | FILE | SHOT | Water depth(m) | F/A (deg) |
| | 5 | 00 | 91 | | | WB Gun#2-5 |
| | | | 92 | | | WB Gun#3-5 |
| | | | 93 | | | Noise |
| 03:14 | | | 995 | 995 | | SOL FSP |
| 03:15 | 5 | 00 | 1001 | 1001 | 2424 | 1.0 |
| 03:22 | | | 1040 | 1040 | 2414 | 0.9 |
| 03:30 | | | 1080 | 1080 | 2455 | 1.2 |
| 03:37 | | | 1120 | 1120 | 2488 | 1.8 |
| 03:44 | | | 1160 | 1160 | 2466 | 2.3 |
| 03:50 | | | 1200 | 1200 | 2483 | 2.9 |
| 03:58 | | | 1240 | 1240 | 2562 | 3.4 |
| 04:05 | | | 1280 | 1280 | 2658 | 3.9 |
| 04:12 | | | 1320 | 1320 | 2633 | 4.2 |
| 04:19 | | | 1360 | 1360 | 2645 | 4.1 |
| 04:25 | | | 1400 | 1400 | 2682 | 4.0 |
| 04:32 | | | 1440 | 1440 | 2710 | 3.8 |
| 04:39 | | | 1480 | 1480 | 2755 | 3.6 |
| 04:46 | | | 1520 | 1520 | 2866 | 3.4 |
| 04:53 | | | 1560 | 1560 | 2883 | 3.4 |
| 05:01 | | | 1600 | 1600 | 2940 | 3.7 |
| 05:08 | | | 1640 | 1640 | 2918 | 4.0 |
| 05:15 | | | 1680 | 1680 | 2907 | 4.4 |
| 05:22 | | | 1720 | 1720 | 2905 | 4.5 |
| 05:29 | | | 1760 | 1760 | 2889 | 4.5 |
| 05:36 | | | 1800 | 1800 | 2907 | 4.3 |
| 05:43 | | | 1840 | 1840 | 2918 | 4.2 |
| 05:50 | | | 1880 | 1880 | 2911 | 4.6 |
| 05:56 | | | 1920 | 1920 | 2892 | 5.2 |
| 06:03 | | | 1960 | 1960 | 2873 | 5.5 |
| 06:10 | | | 2000 | 2000 | 2862 | 5.3 |
| 06:17 | | | 2040 | 2040 | 2837 | 4.5 |
| 06:24 | | | 2080 | 2080 | 2808 | 3.8 |
| 06:31 | | | 2120 | 2120 | 2787 | 3.5 |
| 06:38 | | | 2160 | 2160 | 2773 | 3.0 |
| 06:45 | | | 2200 | 2200 | 2776 | 2.7 |
| 06:52 | | | 2240 | 2240 | 2766 | 2.9 |
| 06:59 | | | 2280 | 2280 | 2754 | 3.1 |
| 07:06 | | | 2320 | 2320 | 2755 | 3.6 |
| 07:13 | | | 2360 | 2360 | 2743 | 3.7 |
| 07:20 | | | 2400 | 2400 | 2728 | 3.8 |
| 07:27 | | | 2440 | 2440 | 2712 | 4.2 |
| 07:34 | | | 2480 | 2480 | 2701 | 4.5 |
| 07:41 | | | 2520 | 2520 | 2690 | 4.7 |
| 07:48 | | | 2560 | 2560 | 2682 | 4.9 |
| 07:55 | | | 2600 | 2600 | 2674 | 4.9 |
| 08:02 | | | 2640 | 2640 | 2660 | 5.2 |
| 08:09 | | | 2680 | 2680 | 2652 | 5.3 |
| 08:16 | | | 2720 | 2720 | 2649 | 5.3 |
| 08:23 | | | 2760 | 2760 | 2637 | 5.0 |
| 08:30 | | | 2800 | 2800 | 2612 | 4.9 |
| 08:37 | | | 2840 | 2840 | 2617 | 4.8 |
| 08:43 | | | 2880 | 2880 | 2603 | 4.4 |
| 08:50 | | | 2920 | 2920 | 2582 | 4.1 |
| 08:55 | | | 2950 | 2950 | 2574 | 3.7 |
| 08:57 | | | 2960 | 2960 | 2574 | 3.6 |
| | 5 | 00 | 2991 | 2991 | | EOT |
| | 6 | 01 | 2992 | 2992 | | BOT |
| 09:04 | | | 3000 | 3000 | 2534 | 3.1 |
| 09:10 | | | 3040 | 3040 | 2492 | 2.7 |
| 09:15 | | | 3070 | 3070 | 2467 | 2.4 |
| | | | 3073 | 3073 | | LSP |
| | 6 | 01 | 3074 | | | LdSP |
| | | | | | | Noise |

23 12 2001 09:22

I/O MSX SYSTEM OBSERVER LOG

Sun Dec 23 03:20:53 2001

LINE INFORMATION

| | |
|-------------------|----------------------|
| <i>Client</i> | PanCanadien Pet.Lim. |
| <i>Prospect</i> | 2001 MIDAS 2D SURVEY |
| <i>Line Name</i> | 0002A004 |
| <i>Crew/Party</i> | |
| <i>Operators</i> | AMIGE |
| <i>Weather</i> | As Obs. Log |
| <i>Seas</i> | As Obs. Log |
| <i>Heading</i> | 279.9 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 | 5 | 00 | 0000 00000 | Dec 23, 2001 - 02:58:40 | UHTO; NF#; DSP; NFSID; BOR; | WB Gun#2.5 |
| 0 | 92 | 5 | 00 | 0000 00000 | Dec 23, 2001 - 02:59:54 | UHTO; DSP; NFSID; | WB Gun#3.6 |
| 0 | 93 | 5 | 00 | 0000 00000 | Dec 23, 2001 - 03:02:30 | UHTO; DSP; NFSID; ITB; | Noise |
| 995 | 995 | 5 | 00 | 1357 03996 | Dec 23, 2001 - 03:14:40 | BOL; NF#; NSP; NFSID; | FSP |
| 1001 | 1001 | 5 | 00 | 1357 04002 | Dec 23, 2001 - 03:15:44 | | FCSP |
| 2950 | 2950 | 5 | 00 | 1357 05951 | Dec 23, 2001 - 08:55:24 | | LCSP |
| 2992 | 2992 | 6 | 01 | 1357 05993 | Dec 23, 2001 - 09:02:36 | BOR; | |
| 3070 | 3070 | 6 | 01 | 1357 06071 | Dec 23, 2001 - 09:15:56 | | LSP |
| 3073 | 3073 | 6 | 01 | 1357 06074 | Dec 23, 2001 - 09:16:28 | | LdSP |
| 0 | 3074 | 6 | 01 | 0000 00000 | Dec 23, 2001 - 09:17:04 | EOL; UHTO; NSP; NFSID; ITB; | |

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

Sun Dec 23 03:21:57 2001

LINE INFORMATION

| | |
|-------------------|----------------------|
| <i>Client</i> | PanCanadien Pet.Lim. |
| <i>Prospect</i> | 2001 MIDAS 2D SURVEY |
| <i>Line Name</i> | 0002A004 |
| <i>Crew/Party</i> | |
| <i>Operators</i> | AMIGE |
| <i>Weather</i> | As Obs. Log |
| <i>Seas</i> | As Obs. Log |
| <i>Heading</i> | 279.9 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

Sun Dec 23 03:21:57 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 |
|----------------|--------------|---------------|-------------------------|---------------------|--------------------------|--|
| 5 | 00 | 2000 | 91 2991 | 0 2991 | 0000 00000 1357 05992 | Dec 23, 2001 - 02:58:40 Dec 23, 2001 - 09:02:28 |
| 6 | 01 | 83 | 2992 3074 | 2992 0 | 1357 05993 0000 00000 | Dec 23, 2001 - 09:02:36 Dec 23, 2001 - 09:17:04 |

PC01-0002a004

Reel # 5 - 6

Date 23.12.01

Seq # 004

FSP 995 LSP
FGSP 1001 LGSP

3073 FFFID 995 LFFID 3073
3070 FGFFID 1001 LGFFID 3070

Water Break - Channel Set 2

SOL SP: 1001
EOL SP: 3070

Offset: 152 ms 149 m
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 | Some spikes on data | 16 | Good |
| 9 | Good | 17 | Good |
| 10 | Good | 18 | Good |

Bad/Noisy channels:

Bad Shots:

Lost Shots:

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

8.7 5.39

Channel Noise statistics (8 Hz):

| | # of Chan. | % | Av.noise |
|-------------------------|------------|-----|----------|
| Noise level exc. 35 uB: | 0 | 0 | |
| Noise level exc. 15 uB: | 1 | 0.4 | 16.5 |
| Noise level exc. 10 uB: | 3 | 1.3 | 12.5 |

Brute Stack:

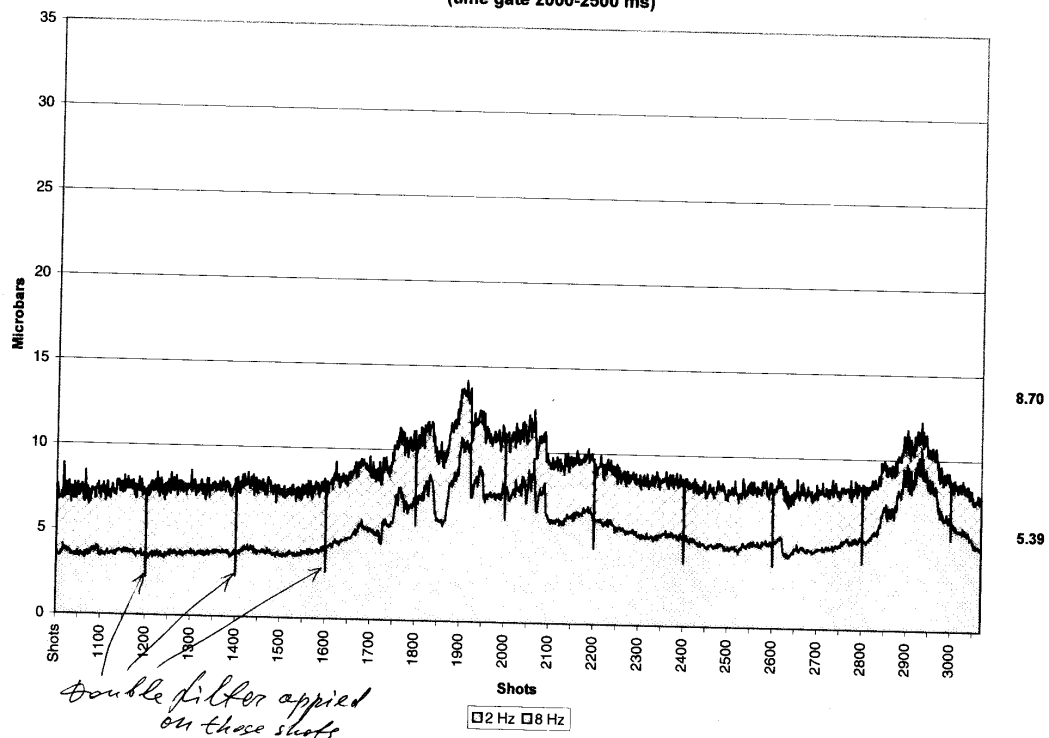
OK

Velocity Comments:

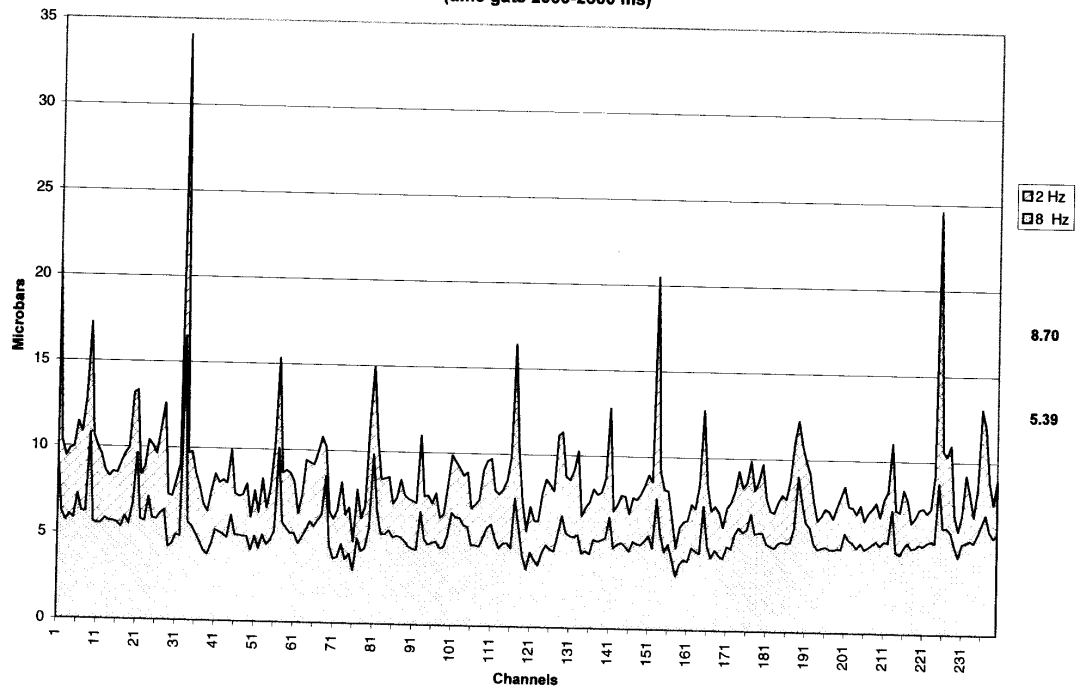
Additional Comments:

Multiples in analysis window increase noise level.

Line PC01-0002a004 Residual Shot Noise
(time gate 2000-2500 ms)



Line PC01-0002a004 Residual Channel Noise
(time gate 2000-2500 ms)



Chan RMS PC02-Ma004 36

