

HIGH RESOLUTION PULSE OXIMETRY(HRPO) CASE REPORT

Example of
Obstructive Sleep Apnea

PHYSICIAN:

DOB:

HEIGHT (in): -

BMI: -

WEIGHT (lb): -

NECK SIZE:

Green to red dashboard indicators allow the clinician to easily recognize potential concerns.

START: 10/13/2008 10:01:34 PM

END: 10/14/2008 7:45:57 AM

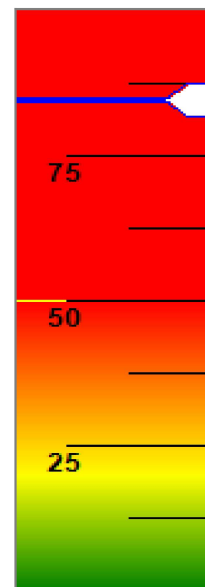
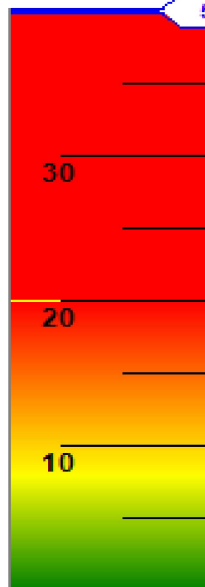
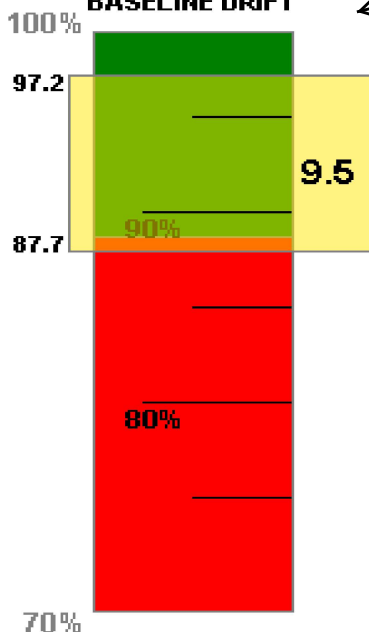
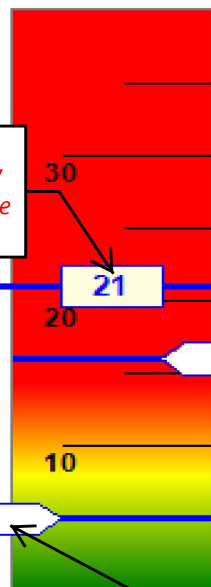
DURATION: 09:44:23

RDÍ (hr)

SATURATION
BASELINE DRIFT

CYCLING TIME(%)

CYCLING SEVERITY
INDEX



Overall
Respiratory
Disturbance
Index (RDÍ)

2-4% Desat
RERA

>4% Desat

Desaturation events are broken down into minor desaturations w/ autonomic arousals & >4% desaturations to discern severity of events.

Excluded in these calculations.
Consider reviewing the report without the above exclusions.

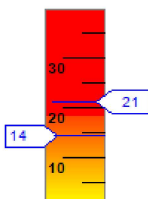
PATTERN BASED REPORT

OXYGEN SATURATION BASELINE ANALYSIS

Oxygen Saturation Baseline Drift(OSBG) (normal <= 3)	9
Initial Saturation Baseline	97
Lowest Saturation Baseline	88
Highest Saturation Baseline	97

Baseline is determined by the Mean SpO2 during 3 Minute window without Artifact and without Events.

DESAT SEVERITY
(most severe 10%)



% Desat
<4%

96% -
Lowest Sat

SPO2 CYCLING

% Time in Cycling (Duration)	52%	(05:04:02)
Cycling Frequency	65	
96% - Lowest Sat	21	
Cycling Severity Index	85	

Period SpO2 was < 88%

The total time oxygen saturation was <= 88% was 00:36:18

TRADITIONAL REPORT

ODI4:	17
Total OD4 Events:	160
Time in OD4 Events:	01:18:21
Avg OD4 Event Duration:	00:00:22
<=88% OD4 Events:	95
<=88% Longest Duration:	00:09:10
Minimum SpO2:	52
Avg Low 10% SpO2:	80
Avg Low SpO2:	90
Avg Low SpO2 <=88%:	82

Definition of OD4 Event: a fall in oxygen saturation of at least 4% and persisting greater than 3 seconds.

%SpO2	DURATION	%TOTAL
94-100	02:21:43	25%
88-94	06:35:29	69%
80-88	00:26:59	5%
70-80	00:06:00	1%
<= 70	00:03:19	1%
Total	09:33:30	100%
Motion Artifact	00:05:28	0.94%
Error Signal	00:10:54	1.87%

Traditional oximetry report parameters.

HIGH RESOLUTION OXIMETRY CASE REPORT

Subsequent pages display event examples and raw collection data.

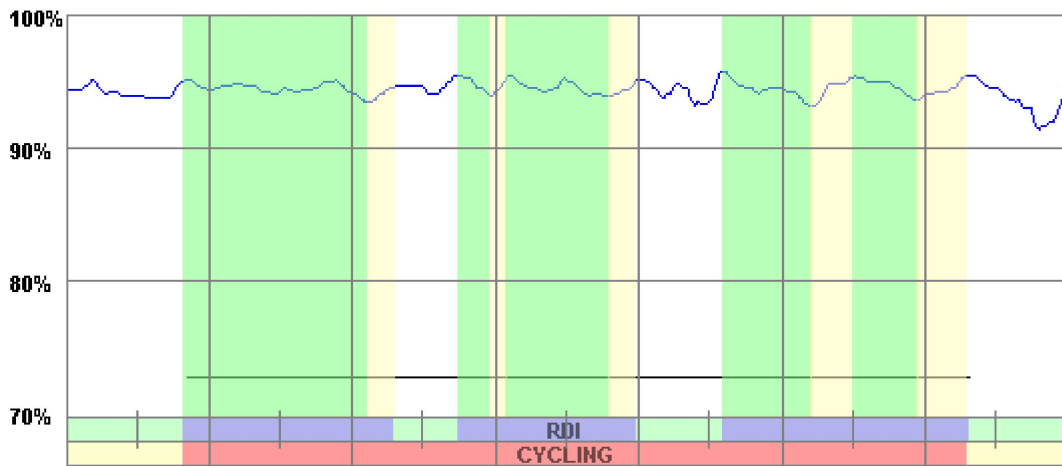
PATIENT ID:

START:

END:

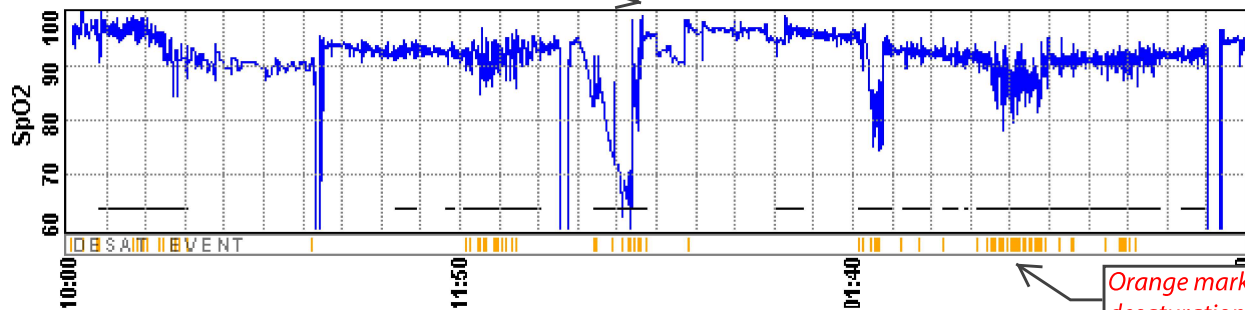
DURATION:

Example of Detected Cycling

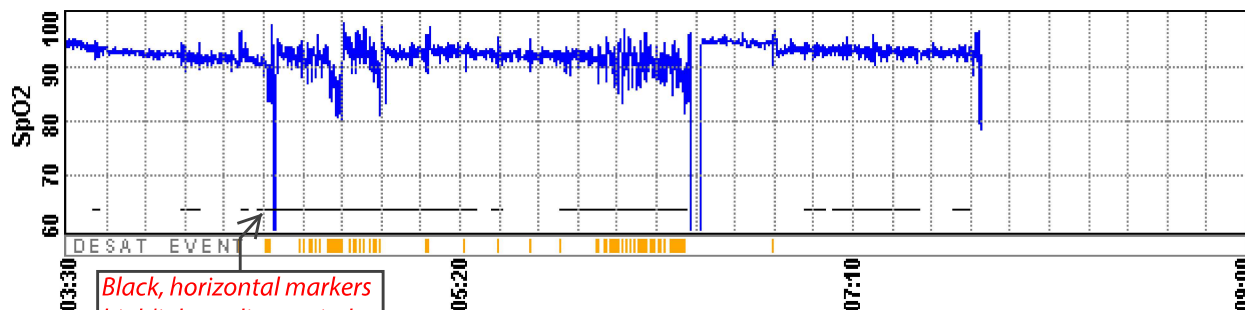


07:37:00

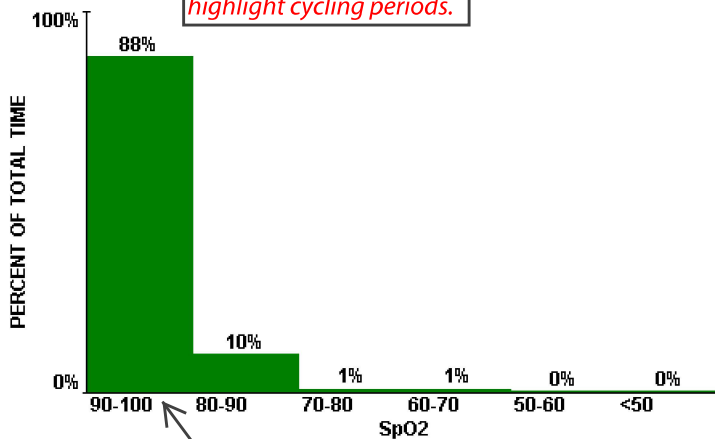
Condensed version of the SpO2 raw data report.



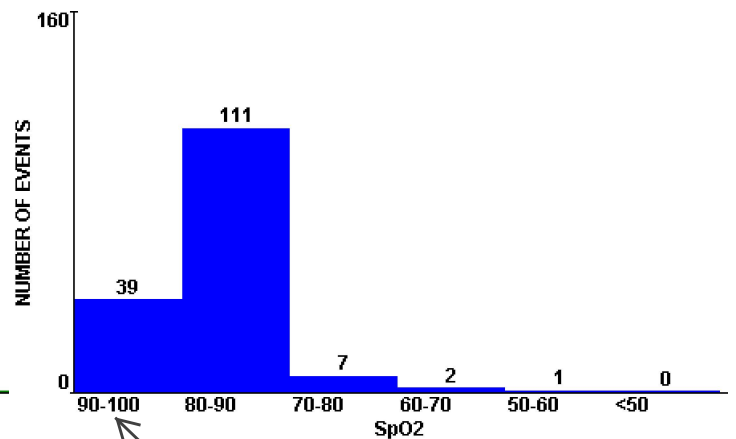
Orange markers highlight desaturation events.



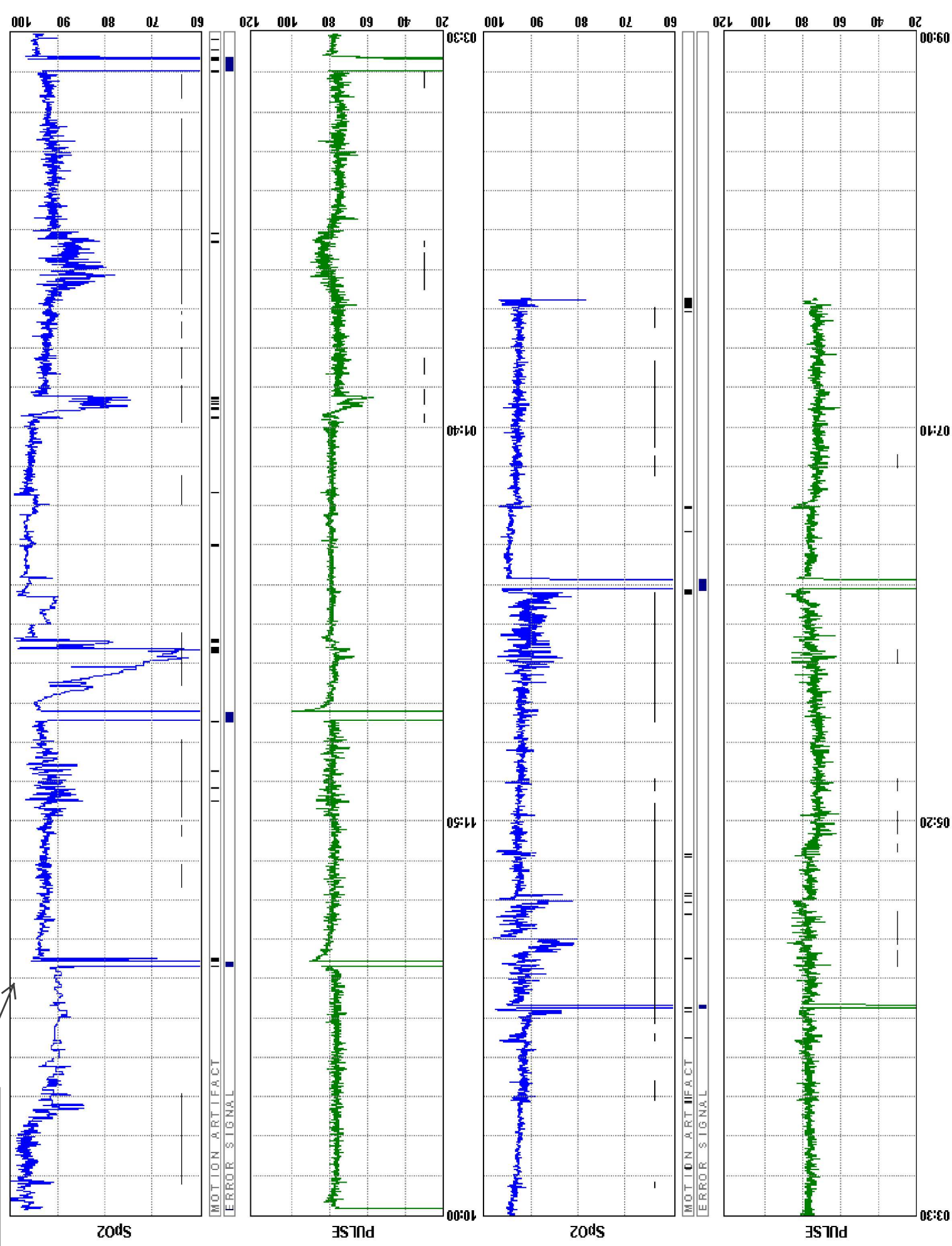
Black, horizontal markers highlight cycling periods.



Percent of study spent in the specified SpO2 range.



Event count for the specified SpO2 range.

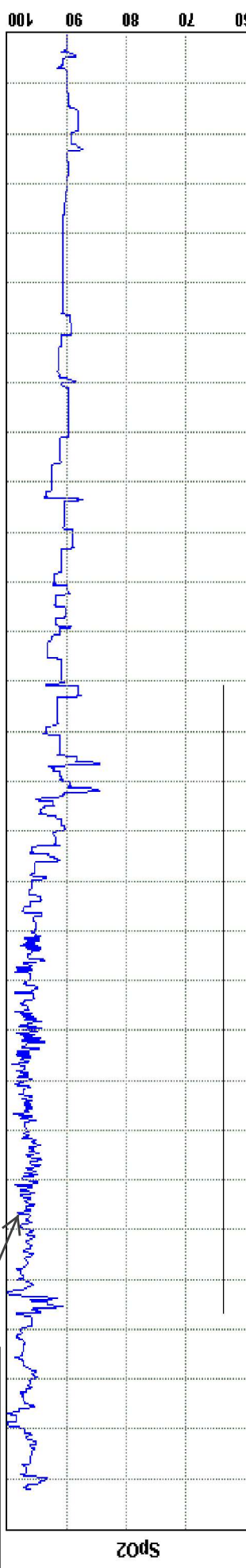


Detailed raw data report.
(2 hr view)

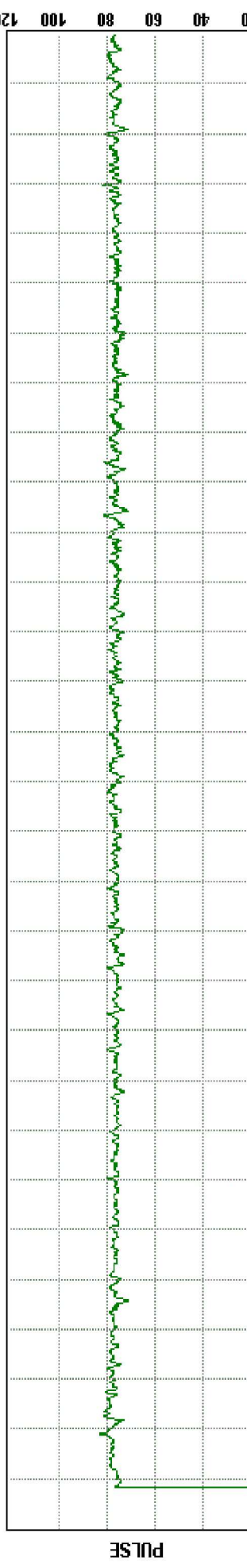
METRY CASE REPORT PATIENT ID:

PAGE START TIME:

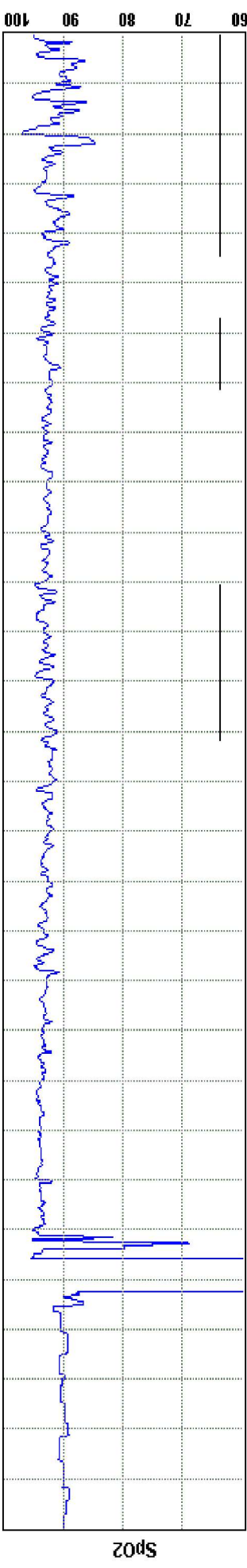
PAGE DURATION: 2 hours



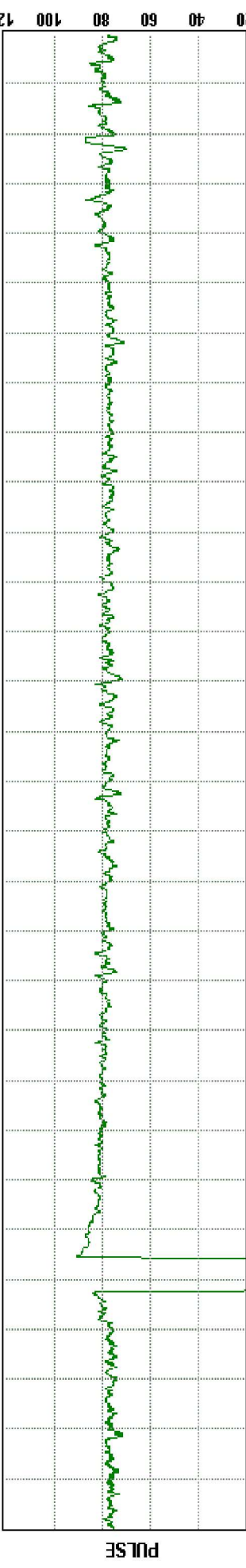
MOTION ARTIFACT
ERROR SIGNAL



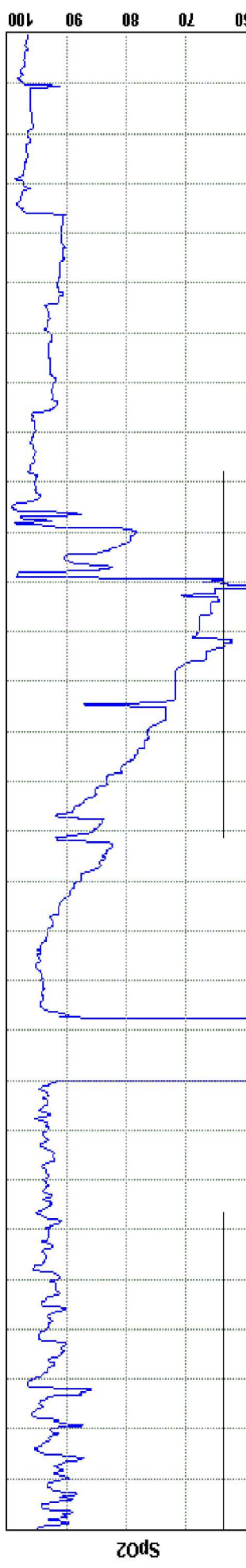
MOTION ARTIFACT
ERROR SIGNAL



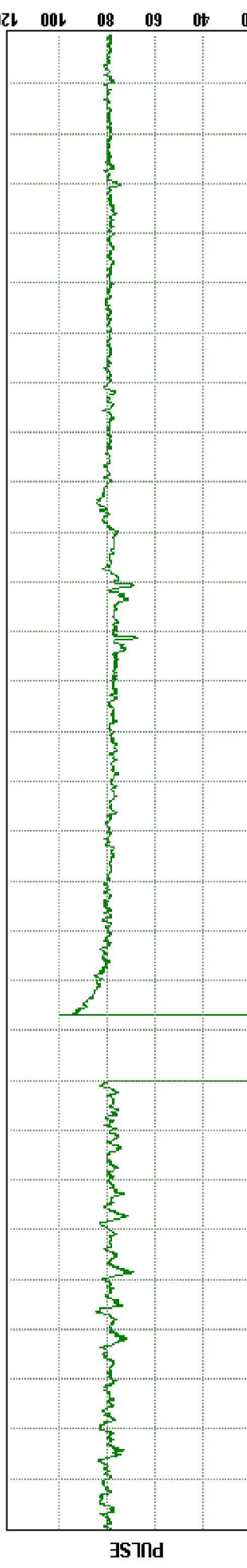
MOTION ARTIFACT
ERROR SIGNAL



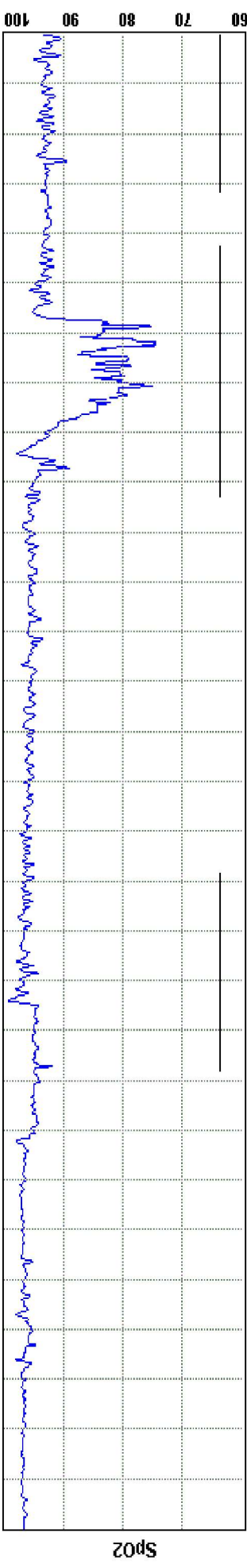
MOTION ARTIFACT
ERROR SIGNAL



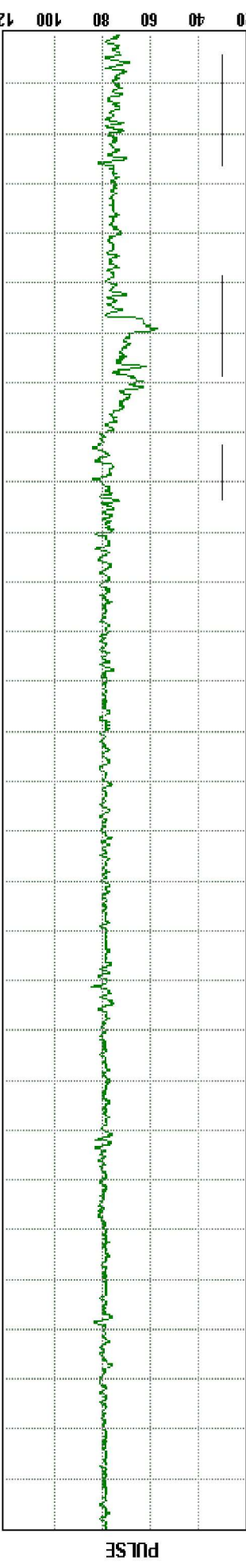
MOTION ARTIFACT
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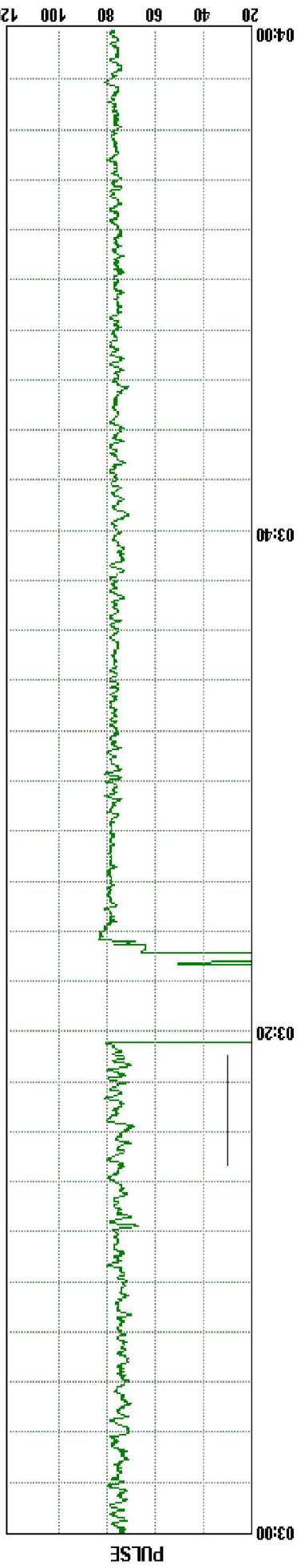
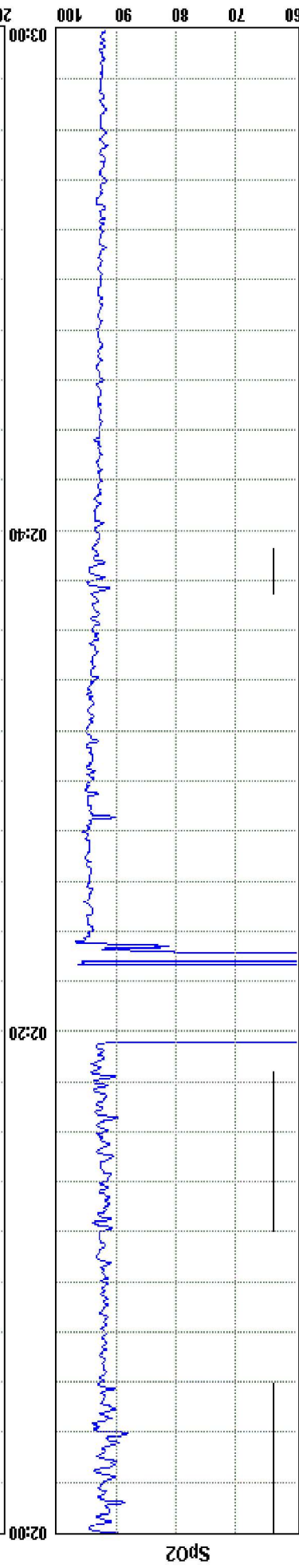
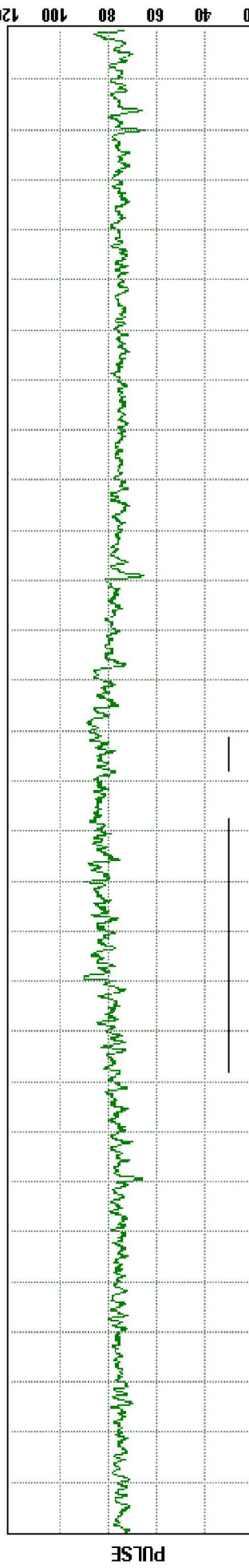
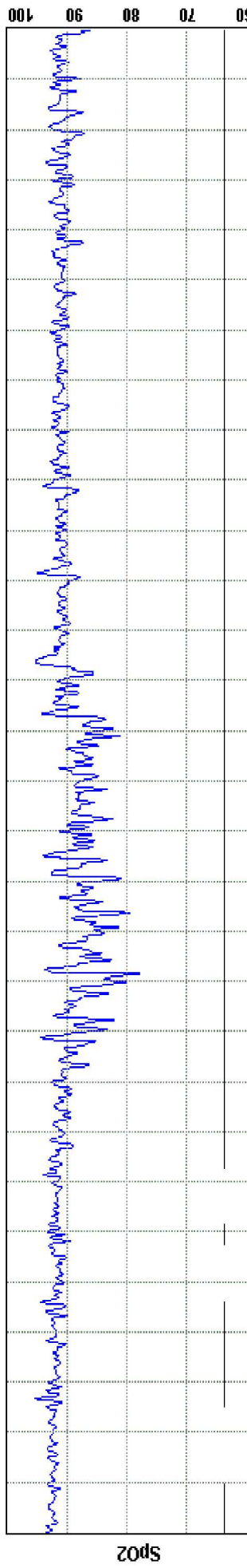
12:00 12:20 12:40 01:00

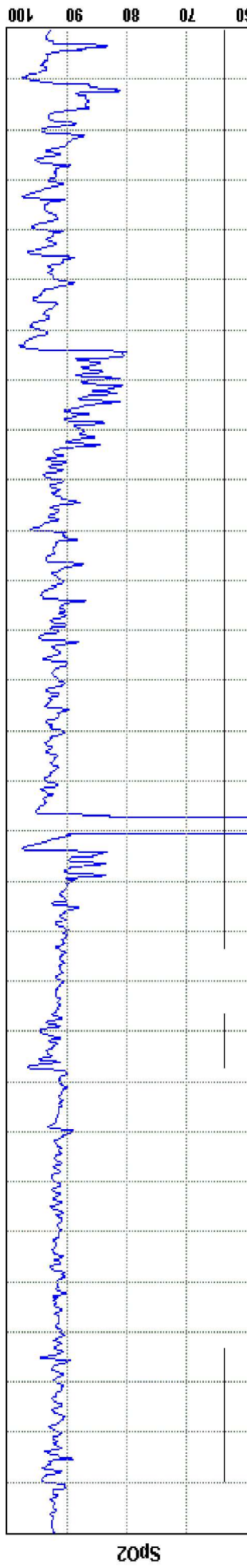


MOTION ARTIFACT
ERROR SIGNAL

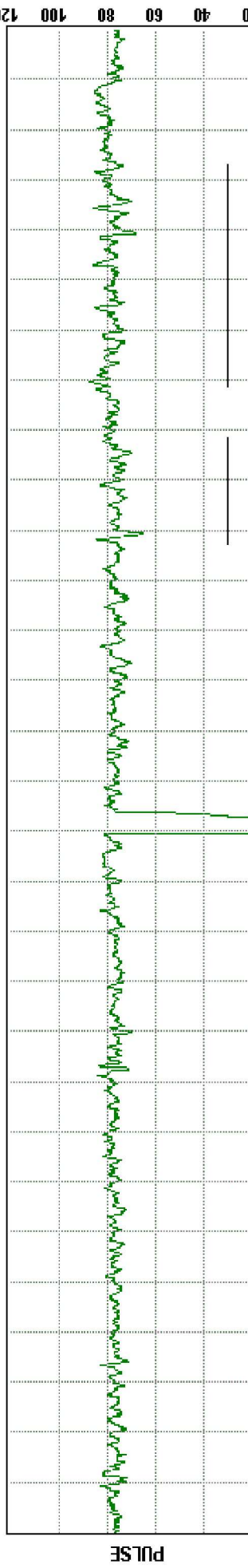


01:00 01:20 01:40 02:00

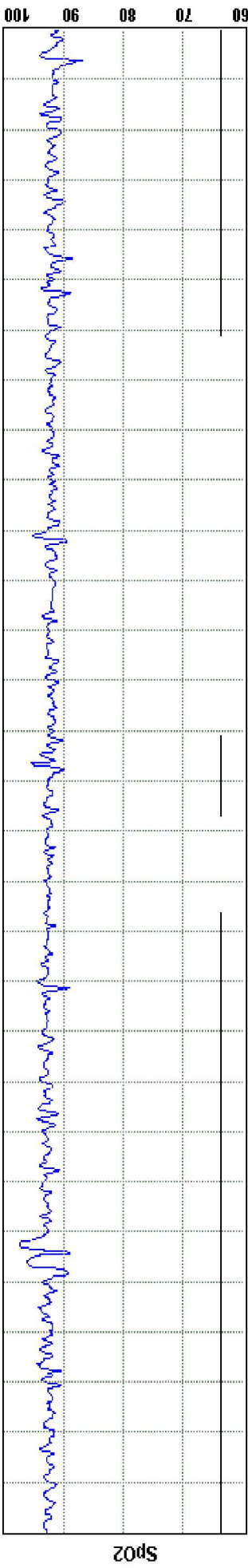




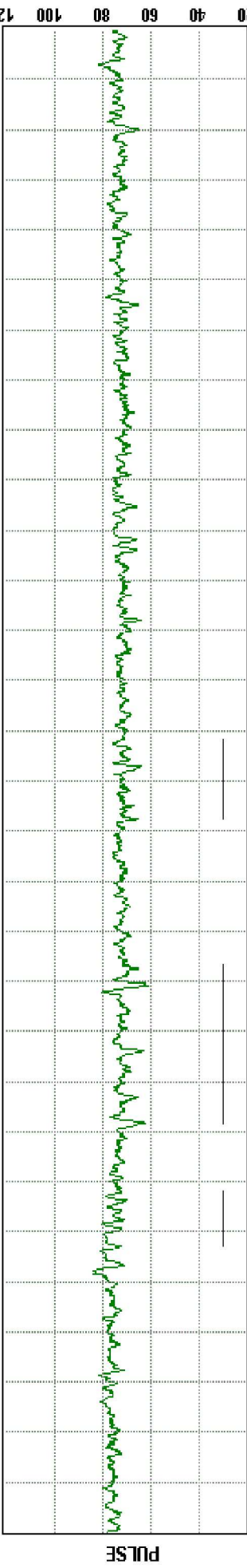
MOTION ARTIFACT
ERROR SIGNAL



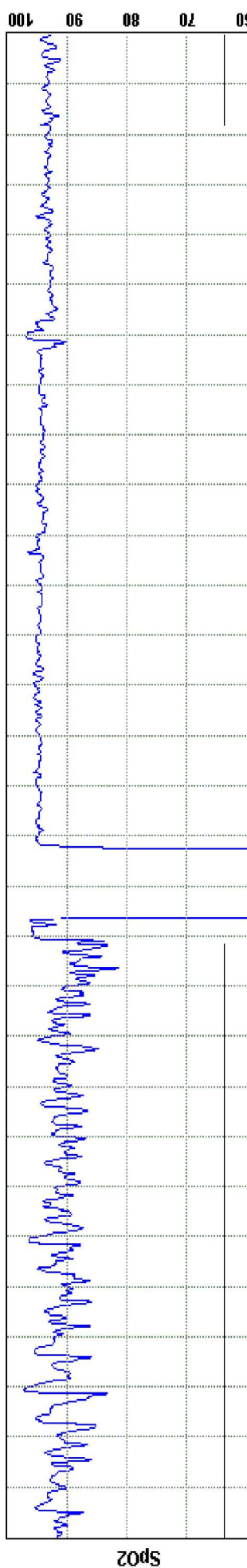
04:00 04:20 04:40 05:00



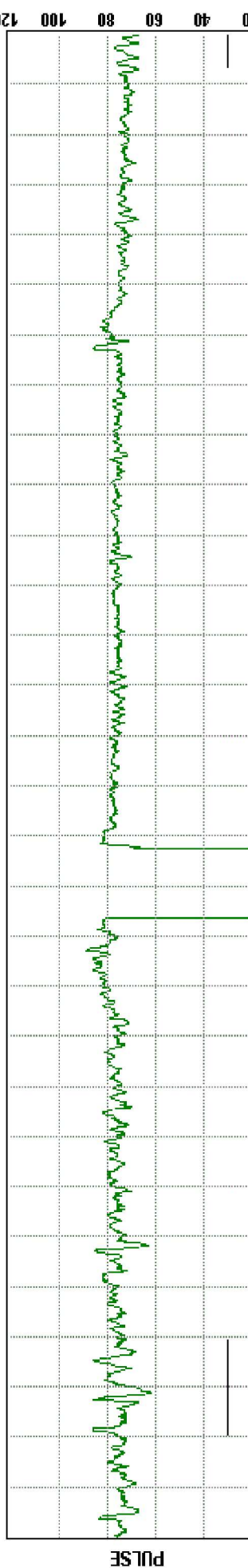
MOTION ARTIFACT
ERROR SIGNAL



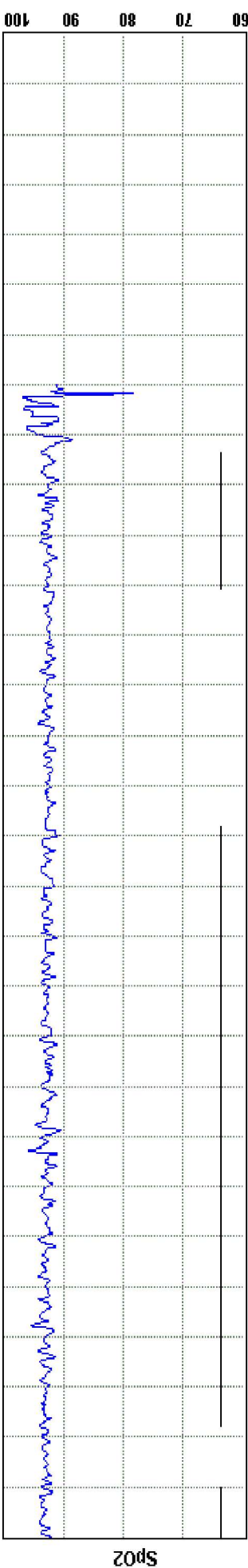
05:00 05:20 05:40 06:00



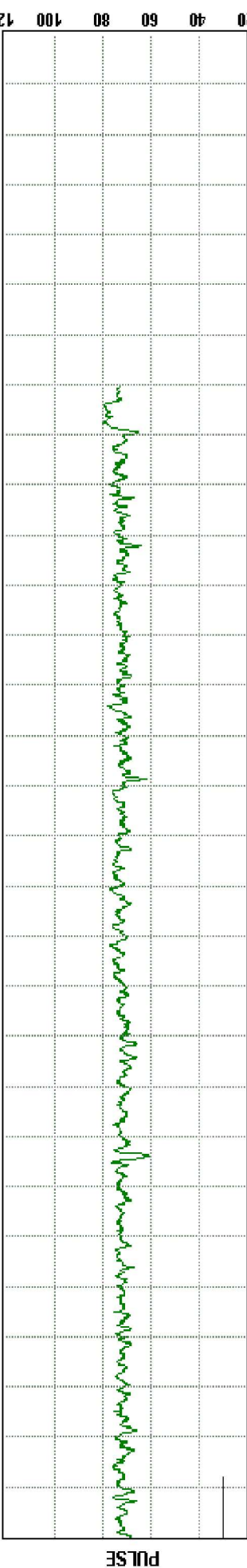
MOTION ARTIFACT
ERROR SIGNAL



06:00 06:20 06:40 07:00



MOTION ARTIFACT
ERROR SIGNAL



07:00 07:20 07:40 08:00