

Company

Well:

Field

Rig:

Rig: Halibut / CWU

Field: Bass Strait

Location: Gippsland basin

Logging E
Run Num
Depth Dri
Schlunbe
Bottom Le
Top Log I
Casing FI
Salinity
Density
Fluid Lev
BIT/CAV
Bit Size
From
To
Casing/TI
Weight
Grade
From
To
Maximum
Logger O
Unit Num
Recorded
Witness

Company: Esso Australia Pty Ltd.

HLA A-1
Bass Strait
Hailbut / CWU

Country: Australia

SCMT-CA/RST-WFL/PSI
Cement bond log
Channel determination

Well: HLA A-1
Company: Esso Australia Pty Ltd.

LOCATION			
Gippsland basin		Elev.:	K.B. 29.4 m G.L. -73 m D.F. 29.4 m
Permanent Datum:	Mean sea level	Elev.:	0 m
Log Measured From:	CWU floor	29.3 m	above Perm. Datum
Drilling Measured From:	Drill floor		
State: Victoria	Max. Well Deviation 66 deg	Longitude 148° 19' 07.62" E	Latitude 38° 24' 20.36" S

PVT DATA				Run 1	Run 2	Run 3
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation				66 deg		
CEMENTING DATA						
Primary/Squeeze			Primary			
Casing String No						
Lead Cement Type						
Volume						
Density						
Water Loss						
Additives						
Tail Cement Type						
Volume						
Density						
Water Loss						
Additives						
Expected Cement Top						
Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Fluid Type						
Salinity						
Density						
Fluid Level						
BIT/CASING/TUBING STRING						
Bit Size						
From						
To						
Casing/Tubing Size						
Weight						
Grade						
From						
To						
Maximum Recorded Temperatures						
Logger On Bottom						
Unit Number						
Recorded By						
Witnessed By						

Date	8-Jul-2006		
Driller	1		
Driller	2952 m		
Driller	2918 m		
Driller	2918 m		
Driller	2750 m		
Driller	Brine		
Driller	1.04 g/cm3		
Driller	0 m		
Driller	8.500 in		
Driller	0 m		
Driller	2952 m		
Driller	2.875 in		
Driller	6.4 lbm/ft		
Driller	L-80		
Driller	12 m		
Driller	2944 m		
Driller	106 degC		
Driller	8-Jul-2006		22:00
Driller	3827	AUSL	
Driller	Graham Fraser & Owen Darby		
Driller	Donald Broomfield & Jimmy Dean		

DEPTH SUMMARY LISTING

Date Created: 17-AUG-2006 14:05:36

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW	Type:	CMTD-B/A	Type:	2-32ZT
Serial Number:	727	Serial Number:	1711	Serial Number:	24031
Calibration Date:	26-Mar-2006	Calibration Date:	4-July-2006	Length:	6264.86 M
Calibrator Serial Number:	2009	Calibrator Serial Number:	1173	Conveyance Method: Wireline Rig Type: Offshore_Fixed	
Calibration Cable Type:	2-32ZT	Calibration Gain:	1.02		
Wheel Correction 1:	-1	Calibration Offset:	500.00		
Wheel Correction 2:	-2				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Petrophysical Analysis Log
Reference Log Run Number:	
Reference Log Date:	01-Nov-2005

Depth Control Remarks

1. Used IDW as primary depth control
2. Used Z-Chart as secondary depth control
3. EOT 2736.1m MDKB
4.
5.
6.

DISCLAIMER

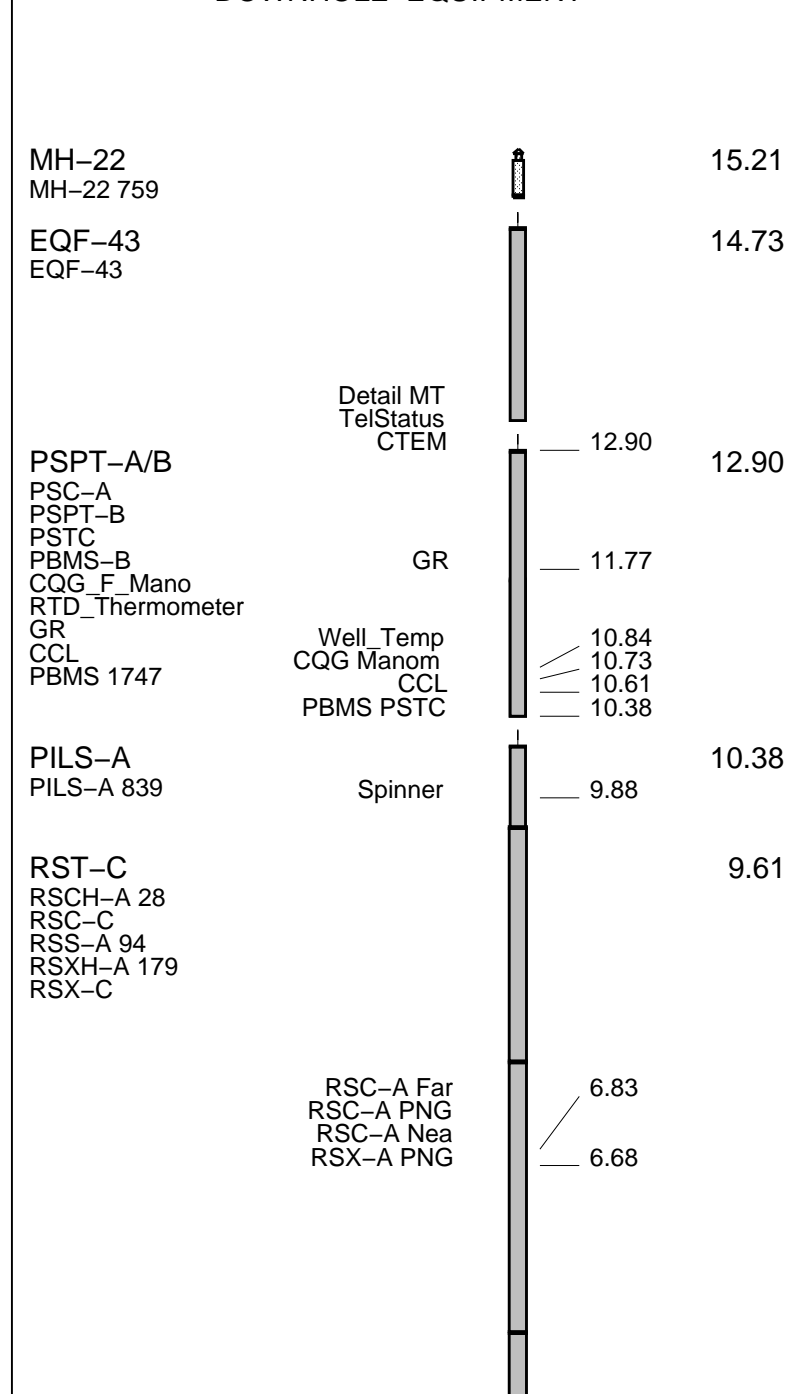
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OTHER SERVICES1 OS1: None OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Objective:	
RIH with PSP-SCMT CA and log over the interval	
2919.0m MDKB (HUD) to 2750.0m MDKB (10m below EOT)	
to determine possility of cement channeling behind th 7.0"	
production casing. POOH	
Run RST-WFL for stations shut in and flowing	
Stations were at 2798-2790.5-2775.5-2765 m	
The well shut in after the station at 2775.5 m	
The well was flowed again and the station at 2765 m	
and the PSP passes done shut in well and POOH.	
NOTE: Four very destinctive GR curves can be seen in the	

Crew:
Specialists= Graham Faser (nights), Owen Darby (days)
Operators= Gary Martin & Sean McGee (days)
Breandan Glover & Simon Kiss (nights)

[illegible]

DOWNHOLE EQUIPMENT	DOWNHOLE EQUIPMENT
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CBL5 DTSC
CBL3
MAP
AUX

HV
Tension SCMT
TOOL ZERO

MAXIMUM STRING DIAMETER 1.69 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

WPGRT-A
WPGRH-A 18
WPGRC-A

PFCS-A
Holdup Probes
Spinner 3.5
Relative Bearing
Caliper
PFCC-A
PFCH-A 831

GR

PFCS Spin
PFCS Cali
PFCS Prob
PFCS Wave HV
PFCS Rela
PFCS Cart
Tension
TOOL ZERO

MAXIMUM STRING DIAMETER 1.72 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

2.59

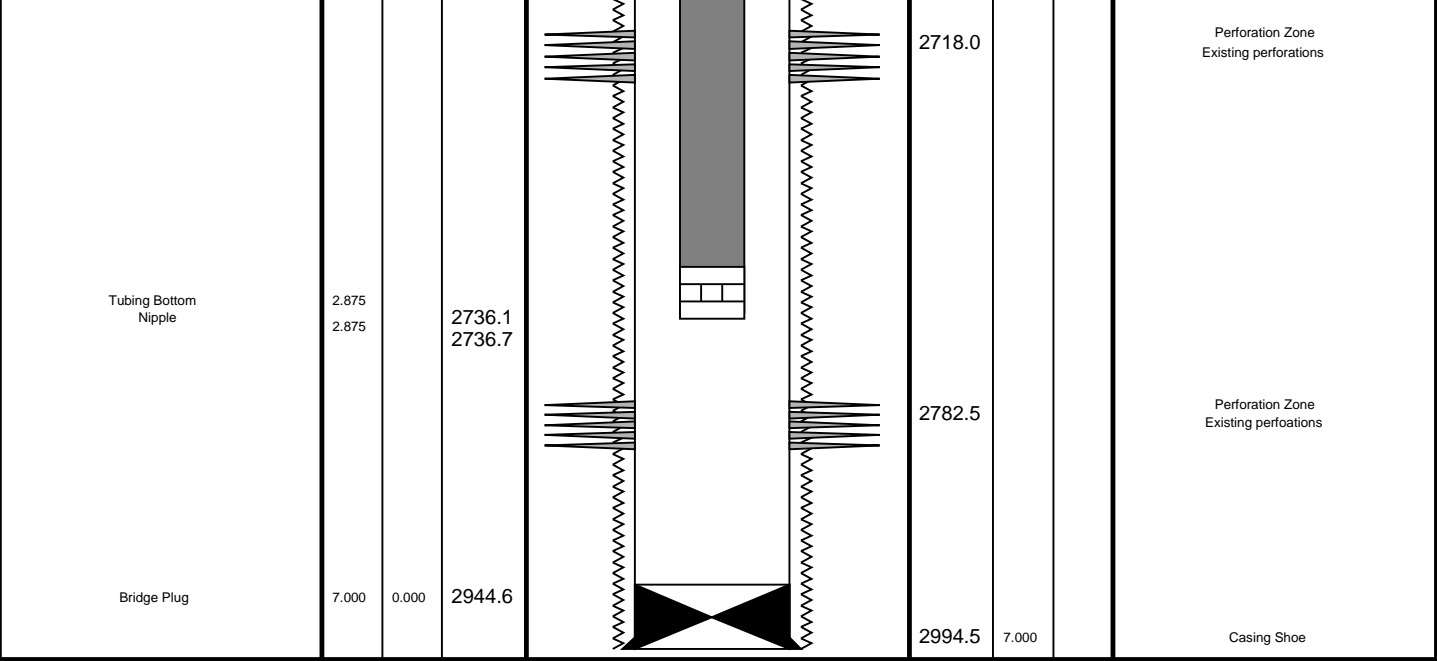
1.57

Client: Esso Australia pty ltd
Well: HLA A-1
Field: Bass Strait
State: Victoria
Country: Australia

Rig Name: Halibut
Reference Datum: Mean Sea Level
Elevation: 26.4 m

Drawing Date: 7/9/2006
API #:

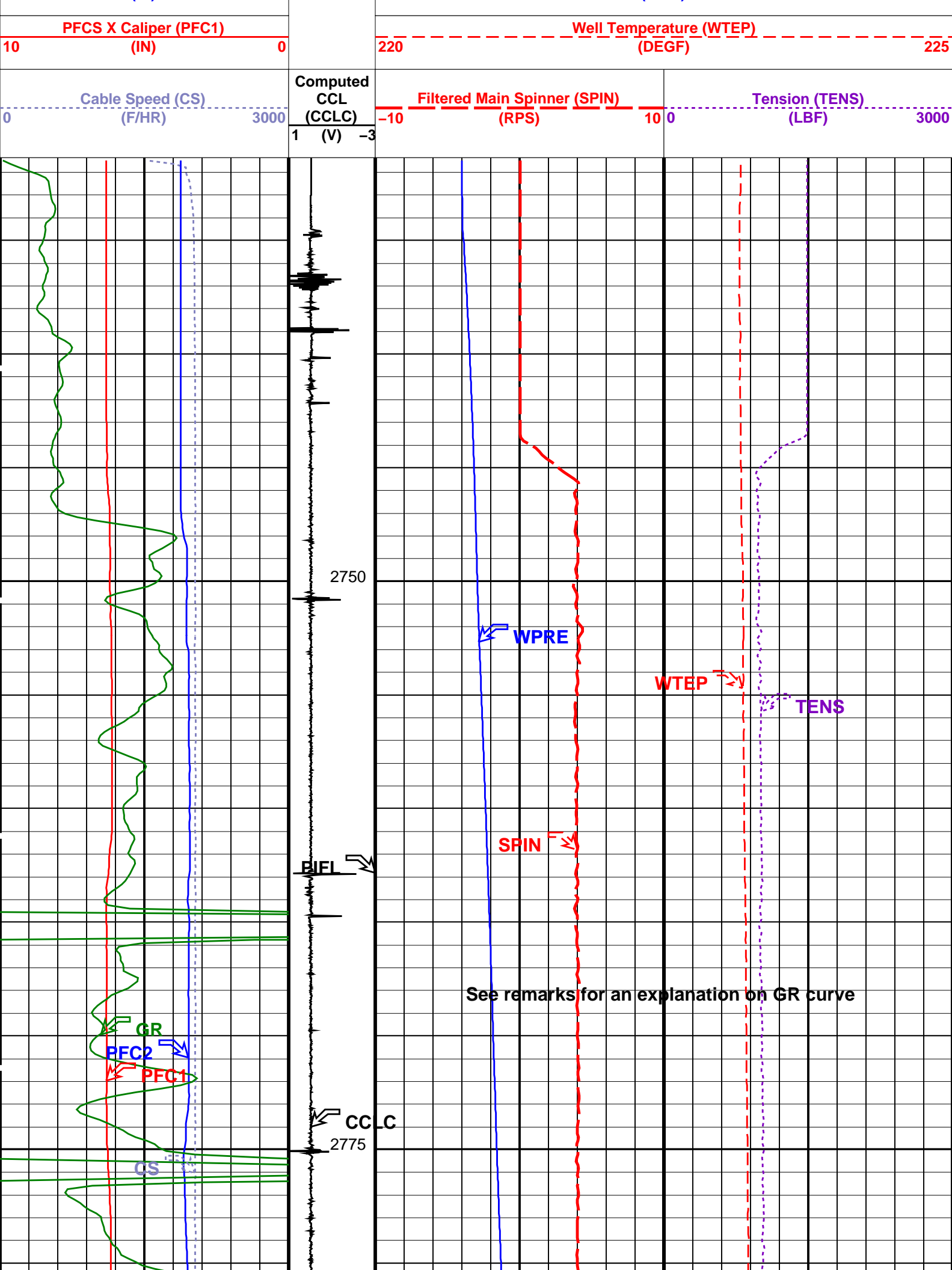
Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	2.875		0.0		0.0	13.000		Borehole Segment Casing String
						10.750		
Sub surface safety valve	2.875		615.7		615.0	10.750		Casing Shoe
Gas Lift Mandrel	2.875		720.5		615.7	8.500		Borehole Segment
					615.7	10.750	7.000	Liner Hanger
						7.000		Casing String
Gas Lift Mandrel	2.875		1288.5					
Gas Lift Mandrel	2.875		1605.8					
Sliding Sleeve	2.875		2709.0					

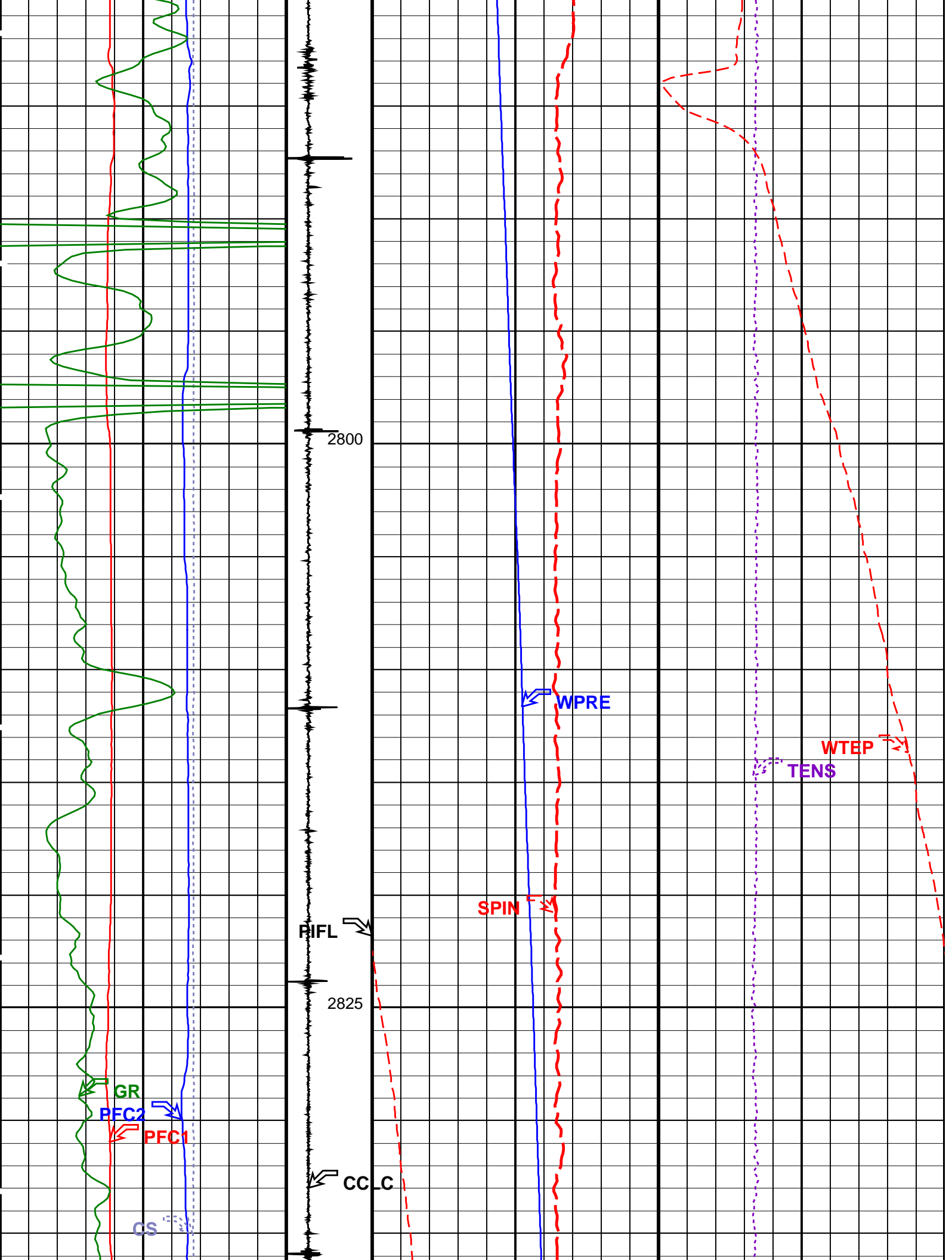


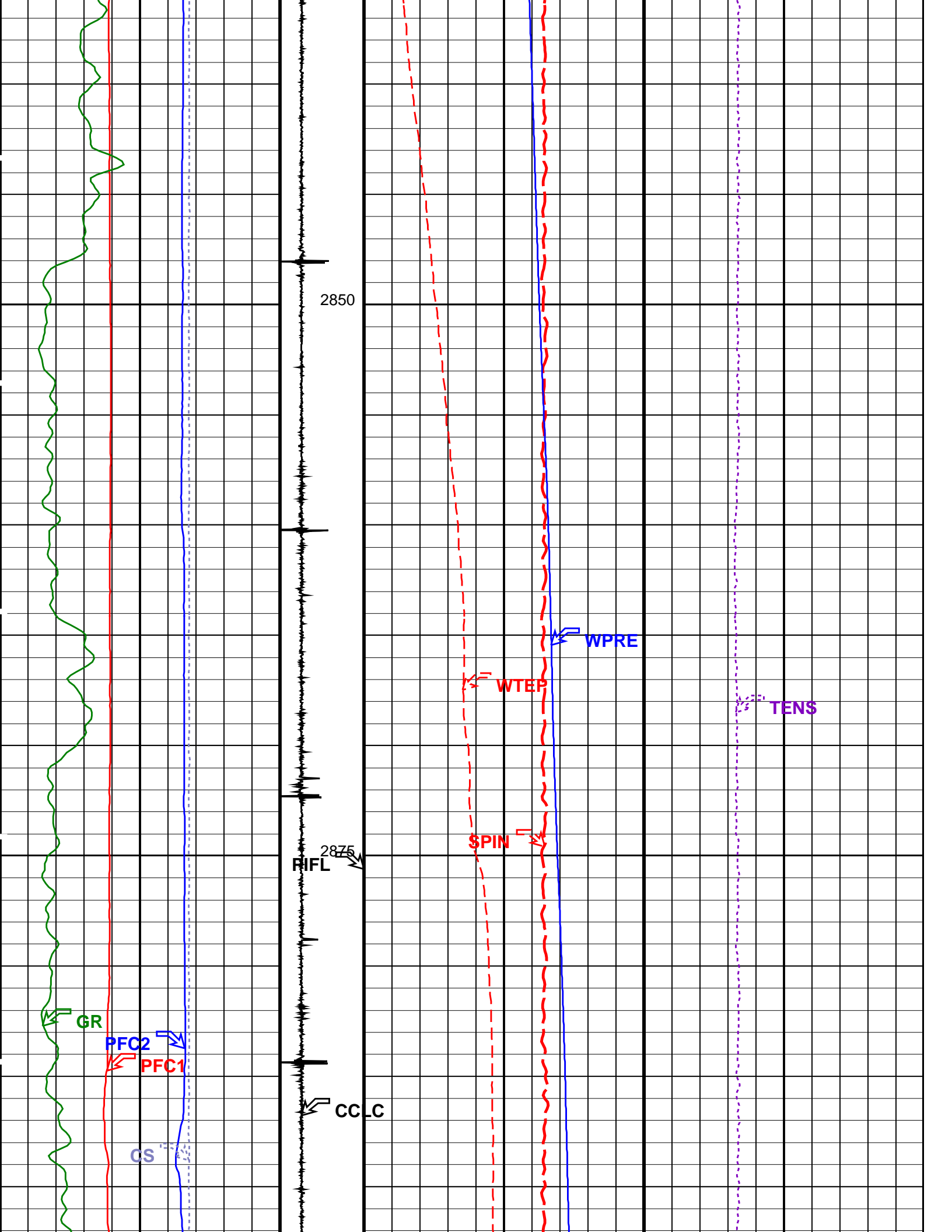
PSP
10 m/min Down pass

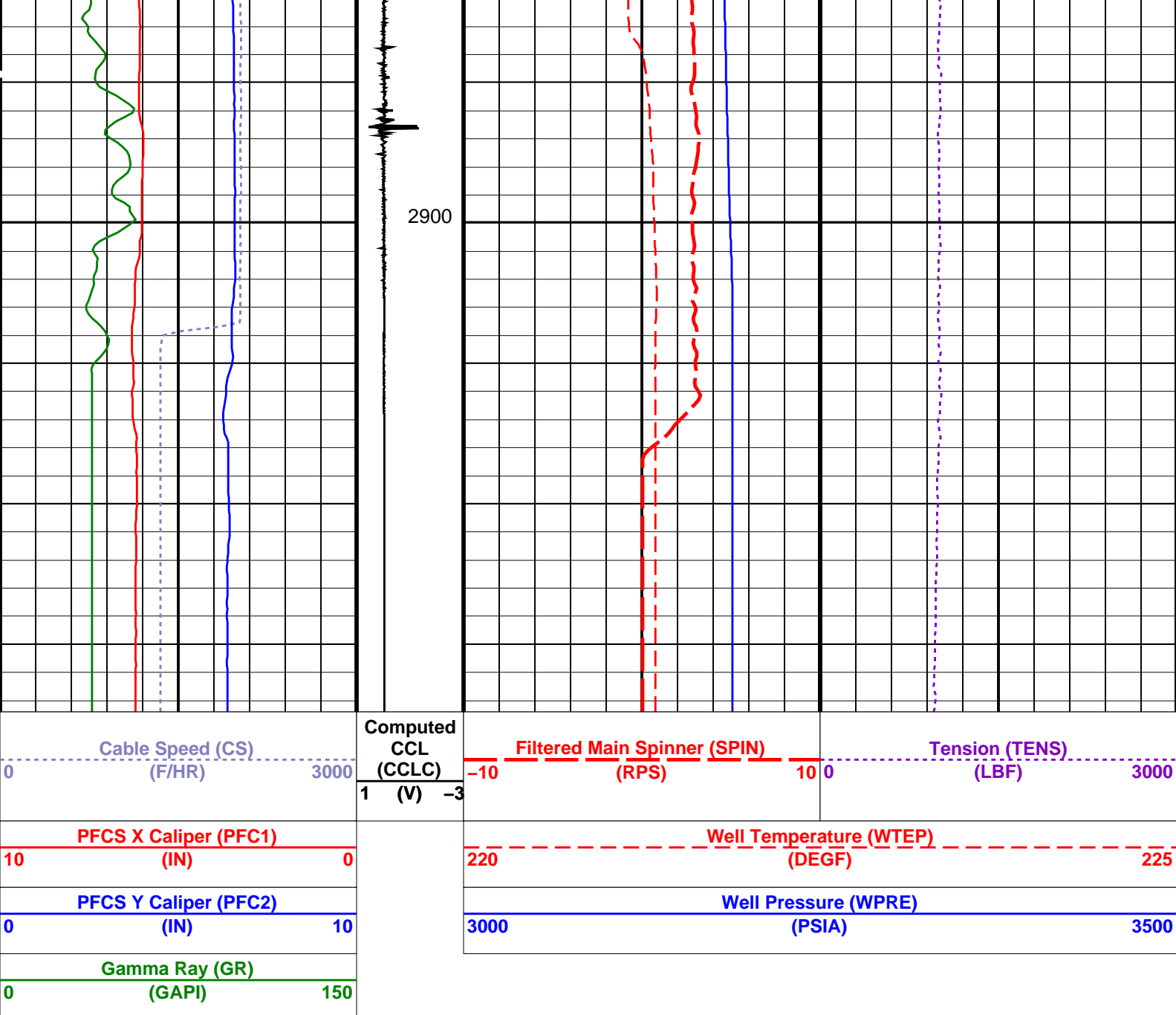
MAXIS Field Log

Input DLIS Files					
DEFAULT	Flip_FCS_WPGRT_RST_121LUP	PRODUCER	13-Jul-2006 12:42	2916.9 M	2730.4 M
Output DLIS Files					
DEFAULT	FCS_WPGRT_RST_ILS_006PUP	FN:5	PRODUCER	17-Aug-2006 14:55	2917.4 M
OP System Version: 14C0-302					
MCM					
PFCS-A	14C0-302	WPGRT-A	14C0-302		
RST-C	14C0-302	PILS-A	14C0-302		
PSPT-A/B	14C0-302				
PIP SUMMARY					
Time Mark Every 60 S					
Gamma Ray (GR)					
	(GAPI)	150			
PFCS Y Caliper (PFC2)		Well Pressure (WPRE)			
	(IN)	10	3000	(PSIA)	3500









PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 17-Aug-2006 14:55

OP System Version: 14C0-302

MCM

PFCS-A	14C0-302	WPGRT-A	14C0-302
RST-C	14C0-302	PILS-A	14C0-302
PSPT-A/B	14C0-302		

Parameters

DLIS Name	Description	Value
AMOD	PFCS-A: PSP Flow and caliper Tool	
SDCF	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SPIN	Spinner Depth Constant Filter	6
	Main Spinner Flowmeter Sonde	PFCS-A_3.5
AMOD	PILS-A: PSP In Line Spinner Flowmeter	
SDCF	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SPIN	Spinner Depth Constant Filter	6
	Main Spinner Flowmeter Sonde	PFCS-A_3.5
	System and Miscellaneous	
DO	Depth Offset for Playback	0.4 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT Flip_FCS_WPGRT_RST_121LUP PRODUCER 13-Jul-2006 12:42 2916.9 M 2730.4 M

Output DLIS Files

DEFAULT FCS_WPGRT_RST_ILS_006PUP FN:5 PRODUCER 17-Aug-2006 14:55

Schlumberger

PSP
10 m/min Up pass

MAXIS Field Log

Input DLIS Files

DEFAULT FCS_WPGRT_RST_ILS_113LUP FN:139 PRODUCER 09-Jul-2006 21:30 2918.0 M 2727.2 M

Output DLIS Files

DEFAULT FCS_WPGRT_RST_ILS_007PUP FN:6 PRODUCER 17-Aug-2006 14:59 2920.0 M 2729.6 M

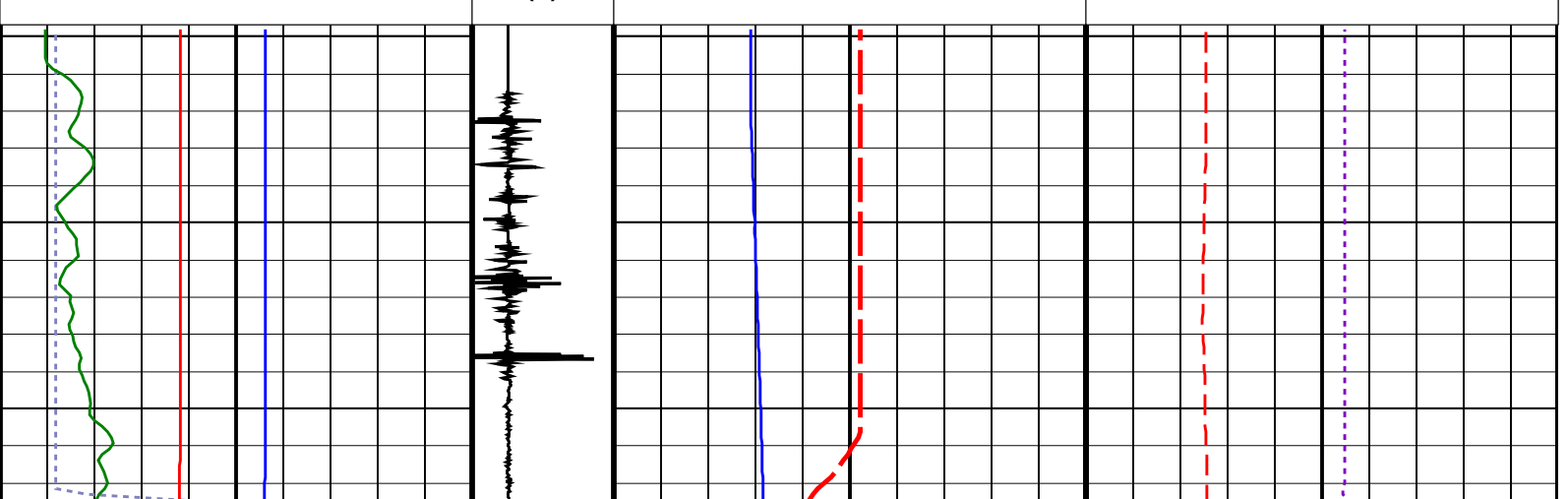
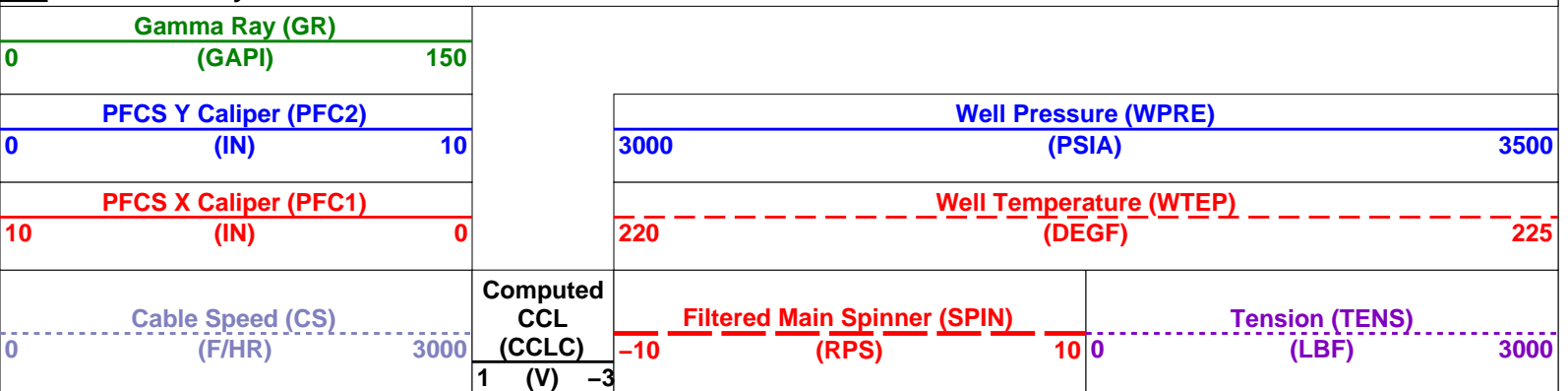
OP System Version: 14C0-302

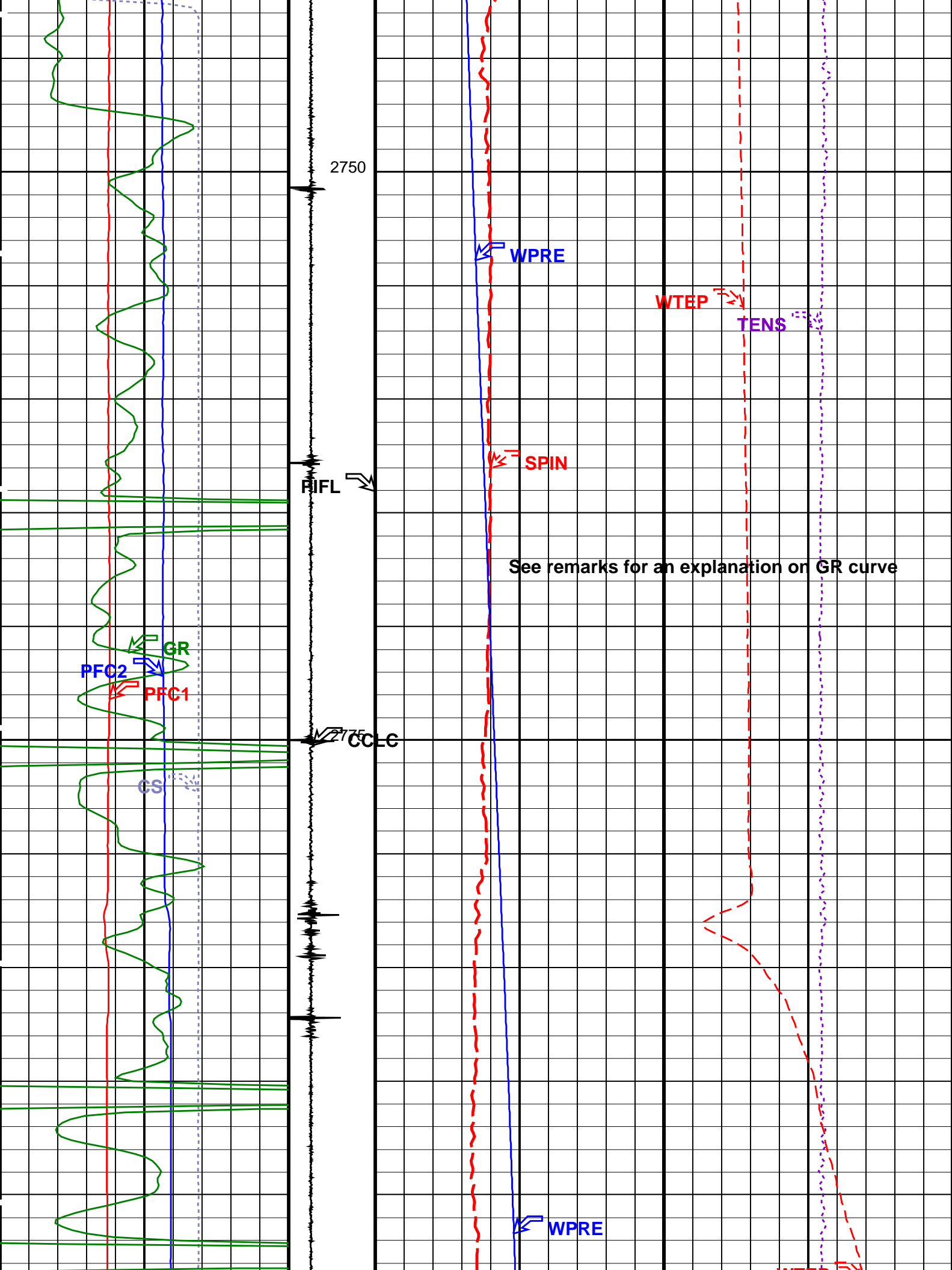
MCM

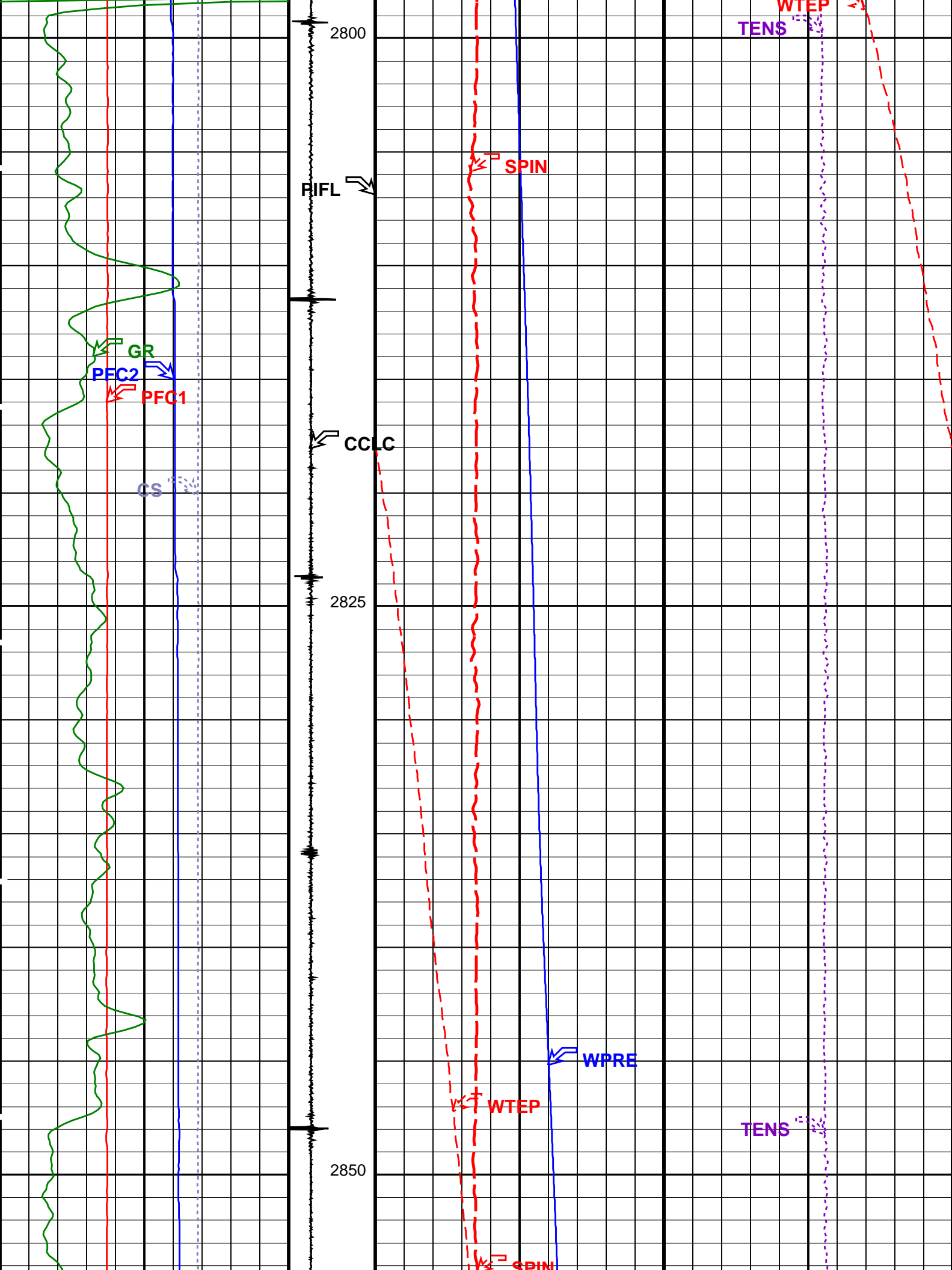
PFCS-A	14C0-302	WPGRT-A	14C0-302
RST-C	14C0-302	PILS-A	14C0-302
PSPT-A/B	14C0-302		

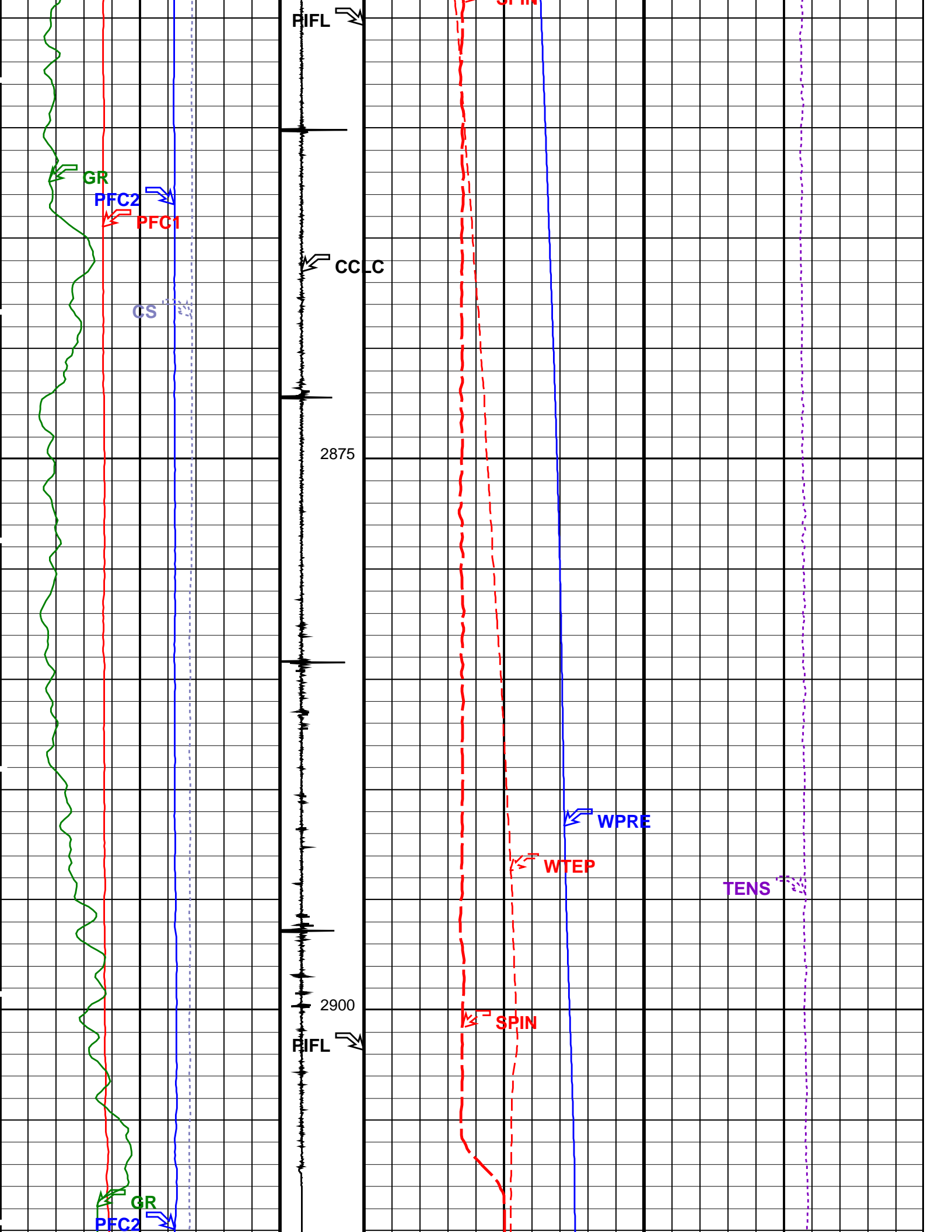
PIP SUMMARY

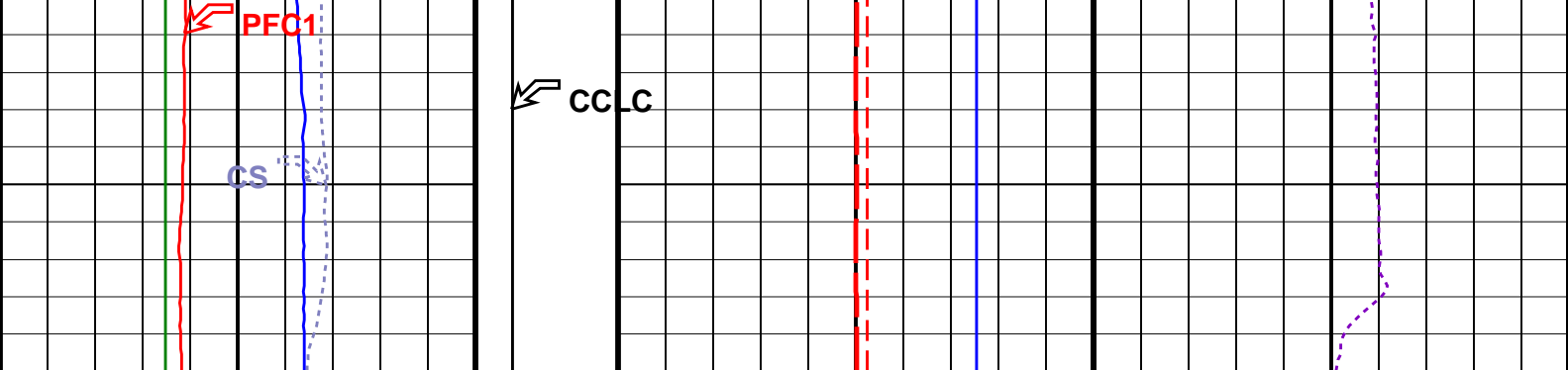
☒ Time Mark Every 60 S











Cable Speed (CS) (F/HR)		Computed CCL (CCLC) 1 (V) -3	Filtered Main Spinner (SPIN) (RPS)		Tension (TENS) (LBF)	
0	3000		-10	10	0	3000
PFCS X Caliper (PFC1) (IN)			Well Temperature (WTEP) (DEGF)			
10	0		220			225
PFCS Y Caliper (PFC2) (IN)			Well Pressure (WPRE) (PSIA)			
0	10		3000			3500
Gamma Ray (GR) (GAPI)						
0	150					

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:200

Graphics File Created: 17-Aug-2006 14:59

OP System Version: 14C0-302
MCM

PFCS-A	14C0-302	WPGRT-A	14C0-302
RST-C	14C0-302	PILS-A	14C0-302
PSPT-A/B	14C0-302		

Parameters

DLIS Name	Description	Value
PFCS-A: PSP Flow and caliper Tool		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5
PILS-A: PSP In Line Spinner Flowmeter		
AMOD	Spinner Filter Averaging Mode	LINEAR_AVERAGE
SDCF	Spinner Depth Constant Filter	6
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5
System and Miscellaneous		
DO	Depth Offset for Playback	2.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT	FCS_WPGRT_RST_ILS_113LUP	FN:139	PRODUCER	09-Jul-2006 21:30	2918.0 M	2727.2 M
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Output DLIS Files

DEFAULT	FCS_WPGRT_RST_ILS_007PUP	FN:6	PRODUCER	17-Aug-2006 14:59
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RST-WFL
Station Summary

Client:Esso Australia PTY LTD
Field Name:Halibut
Well Name:HLA A1
Date:9-July-2006

Log File	WFL	Start	Stop	WFL-On	WFL-Off	Num	Flow	Signal
Velocity	Velocity	FlowRate	Holdup	Comment				
Number	Detector	Depth	Depth	Time	Time	Cycles	Detected	Truncat
	Error	Index	Index					
	(m)	(m)	(sec)	(sec)	(-)			
(m/min)	(m/min)	(-)	(-)					
067	RST-Near	2798.2	2798.0	0.80	52.27	11	No	None
---	---	---	---					
067	RST-Far	2798.2	2797.8	0.80	52.27	11	No	None
---	---	---	---					
067	PBMS-GR	2798.2	2793.0	0.80	52.27	11	No	None
---	---	---	---					
067	WPGR	2798.2	2802.6	0.80	52.27	11	No	None
---	---	---	---					
068	RST-Near	2798.2	2798.0	0.07	29.87	10	No	None
---	---	---	---					
068	RST-Far	2798.2	2797.8	0.07	29.87	10	No	None
---	---	---	---					
068	PBMS-GR	2798.2	2793.0	0.07	29.87	10	No	None
---	---	---	---					
068	WPGR	2798.2	2802.6	0.07	29.87	10	No	None
---	---	---	---					
070	RST-Near	2798.2	2798.0	10.00	90.67	10	Unknown	None
0.5	0.2	0.0	0.0					
070	RST-Far	2798.2	2797.8	10.00	90.67	10	Yes	None
0.5	0.1	0.1	3.4					
070	PBMS-GR	2798.2	2793.0	10.00	90.67	10	Unknown	None
4.1	3.4	0.1	3.0					
070	WPGR	2798.2	2802.6	10.00	90.67	10	No	None
---	---	---	---					
072	RST-Near	2790.8	2790.6	0.80	52.27	10	Unknown	None
0.6	2.9	0.0	0.0					
072	RST-Far	2790.8	2790.4	0.80	52.27	10	No	None
---	---	---	---					
072	PBMS-GR	2790.8	2785.6	0.80	52.27	10	No	None
---	---	---	---					
072	WPGR	2790.8	2795.2	0.80	52.27	10	No	None
---	---	---	---					
073	RST-Near	2790.8	2790.6	0.07	29.87	10	No	None
---	---	---	---					
073	RST-Far	2790.8	2790.4	0.07	29.87	10	No	None
---	---	---	---					
073	PBMS-GR	2790.8	2785.6	0.07	29.87	10	No	None
---	---	---	---					
073	WPGR	2790.8	2795.2	0.07	29.87	10	No	None
---	---	---	---					
074	RST-Near	2790.8	2790.6	10.00	90.67	11	No	None

074	RST-Near	2790.8	2790.4	10.00	90.67	11	Yes	None
		0.9	0.2	0.1	3.0			
074	PBMS-GR	2790.8	2785.6	10.00	90.67	11	No	None
074	WPGR	2790.8	2795.2	10.00	90.67	11	No	None
075	RST-Near	2775.8	2775.6	0.80	52.27	10	No	None
075	RST-Far	2775.8	2775.4	0.80	52.27	10	No	None
075	PBMS-GR	2775.8	2770.6	0.80	52.27	10	No	None
075	WPGR	2775.8	2780.2	0.80	52.27	10	No	AtStart
		6.8						
076	RST-Near	2775.8	2775.6	0.07	29.87	10	No	None
076	RST-Far	2775.8	2775.4	0.07	29.87	10	No	None
076	PBMS-GR	2775.8	2770.6	0.07	29.87	10	No	None
076	WPGR	2775.8	2780.2	0.07	29.87	10	No	None
077	RST-Near	2775.8	2775.6	10.00	90.67	11	Unknown	None
		0.4	0.2	0.0	0.0			
077	RST-Far	2775.8	2775.4	10.00	90.67	11	Unknown	None
		1.3	0.3	0.0	1.1			
077	PBMS-GR	2775.8	2770.6	10.00	90.67	11	No	None
077	WPGR	2775.8	2780.2	10.00	90.67	11	No	None
078	RST-Near	2765.2	2765.0	0.80	52.27	10	Unknown	None
		0.5		0.0	0.0			
078	RST-Far	2765.2	2764.8	0.80	52.27	10	No	None
078	PBMS-GR	2765.2	2760.0	0.80	52.27	10	No	None
078	WPGR	2765.2	2769.6	0.80	52.27	10	Unknown	None
		-64.3	9.0	-4.4	16.1			
079	RST-Near	2765.2	2765.0	0.07	29.87	10	No	None
079	RST-Far	2765.2	2764.8	0.07	29.87	10	No	None
079	PBMS-GR	2765.2	2760.0	0.07	29.87	10	Unknown	None
		24.0		0.0	14.2			
079	WPGR	2765.2	2769.6	0.07	29.87	10	No	None
080	RST-Near	2765.2	2765.0	10.00	90.67	11	No	None
080	RST-Far	2765.2	2764.8	10.00	90.67	11	Yes	None
		0.6	0.2	0.0	2.4			
080	PBMS-GR	2765.2	2760.0	10.00	90.67	11	No	None
080	WPGR	2765.2	2769.6	10.00	90.67	11	No	None

090	RST-Near	2798.2	2798.0	0.80	52.27	4	No	None
090	RST-Far	2798.2	2797.8	0.80	52.27	4	No	AtStart
090	PBMS-GR	2798.2	2793.0	0.80	52.27	4	No	None
090	WPGR	2798.2	2802.6	0.80	52.27	4	No	None
094	RST-Near	2798.2	2798.0	0.80	52.27	10	Unknown	None
094	RST-Far	2798.2	2797.8	0.80	52.27	10	No	None
094	PBMS-GR	2798.2	2793.0	0.80	52.27	10	No	None
094	WPGR	2798.2	2802.6	0.80	52.27	10	No	None
095	RST-Near	2798.2	2798.0	0.07	29.87	12	No	None
095	RST-Far	2798.2	2797.8	0.07	29.87	12	No	None
095	PBMS-GR	2798.2	2793.0	0.07	29.87	12	Unknown	None
095	WPGR	2798.2	2802.6	0.07	29.87	12	No	None
096	RST-Near	2798.2	2798.0	10.00	90.67	10	Unknown	None
096	RST-Far	2798.2	2797.8	10.00	90.67	10	Yes	None
096	PBMS-GR	2798.2	2793.0	10.00	90.67	10	Unknown	None
096	WPGR	2798.2	2802.6	10.00	90.67	10	No	None
098	RST-Near	2790.8	2790.6	0.80	52.27	10	Unknown	None
098	RST-Far	2790.8	2790.4	0.80	52.27	10	No	None
098	PBMS-GR	2790.8	2785.6	0.80	52.27	10	No	None
098	WPGR	2790.8	2795.2	0.80	52.27	10	No	None
099	RST-Near	2790.8	2790.6	0.07	29.87	12	No	None
099	RST-Far	2790.8	2790.4	0.07	29.87	12	No	AtEnd
099	PBMS-GR	2790.8	2785.6	0.07	29.87	12	No	None
099	WPGR	2790.8	2795.2	0.07	29.87	12	Unknown	None
100	RST-Near	2790.8	2790.6	10.00	90.67	10	Unknown	None
100	RST-Far	2790.8	2790.4	10.00	90.67	10	Yes	None
100	PBMS-GR	2790.8	2785.6	10.00	90.67	10	No	None

100	WPGR	2790.8	2795.2	10.00	90.67	10	No	None
---	---	---	---					
101	RST-Near	2775.8	2775.6	0.80	52.27	10	Yes	AtStart
		3.2	0.1	10.5	26.3			
101	RST-Far	2775.8	2775.4	0.80	52.27	10	Yes	AtStart
		3.3	0.0	8.4	56.0			
101	PBMS-GR	2775.8	2770.6	0.80	52.27	10	Unknown	None
		7.3	12.0	0.0	1.4			
101	WPGR	2775.8	2780.2	0.80	52.27	10	Unknown	None
		-169.4	17.8	-6.9	21.6			
102	RST-Near	2775.8	2775.6	0.07	29.87	10	Yes	None
		3.0	0.2	44.4	29.4			
102	RST-Far	2775.8	2775.4	0.07	29.87	10	Yes	AtStart
		3.0	0.1	33.6	48.3			
102	PBMS-GR	2775.8	2770.6	0.07	29.87	10	Unknown	None
		207.0	---	111.5	15.3			
102	WPGR	2775.8	2780.2	0.07	29.87	10	No	None
		---	---	---	---			
103	RST-Near	2775.8	2775.6	10.00	90.67	10	Yes	AtStart
		1.8	0.0	1.0	8.1			
103	RST-Far	2775.8	2775.4	10.00	90.67	10	Yes	AtStart
		2.4	0.1	4.0	38.2			
103	PBMS-GR	2775.8	2770.6	10.00	90.67	10	No	None
		---	---	---	---			
103	WPGR	2775.8	2780.2	10.00	90.67	10	No	None
		---	---	---	---			
105	RST-Near	2765.2	2765.0	0.80	52.27	12	Yes	AtStart
		2.9	0.1	11.0	27.5			
105	RST-Far	2765.2	2764.8	0.80	52.27	12	Yes	AtStart
		3.1	0.0	7.0	50.8			
105	PBMS-GR	2765.2	2760.0	0.80	52.27	12	No	None
		---	---	---	---			
105	WPGR	2765.2	2769.6	0.80	52.27	12	No	None
		---	---	---	---			
106	RST-Near	2765.2	2765.0	0.07	29.87	10	Yes	None
		2.8	0.3	0.2	20.3			
106	RST-Far	2765.2	2764.8	0.07	29.87	10	Yes	AtStart
		3.0	0.1	19.7	39.7			
106	PBMS-GR	2765.2	2760.0	0.07	29.87	10	No	None
		---	---	---	---			
106	WPGR	2765.2	2769.6	0.07	29.87	10	No	None
		---	---	---	---			
107	RST-Near	2765.2	2765.0	10.00	90.67	12	Yes	AtStart
		1.8	0.1	1.0	7.3			
107	RST-Far	2765.2	2764.8	10.00	90.67	12	Yes	AtStart
		2.4	0.0	3.7	36.0			
107	PBMS-GR	2765.2	2760.0	10.00	90.67	12	Unknown	None
		3.4	0.4	0.0	0.0			
107	WPGR	2765.2	2769.6	10.00	90.67	12	No	None
		---	---	---	---			



Flowing RST–WFL
Station 2765m Slow

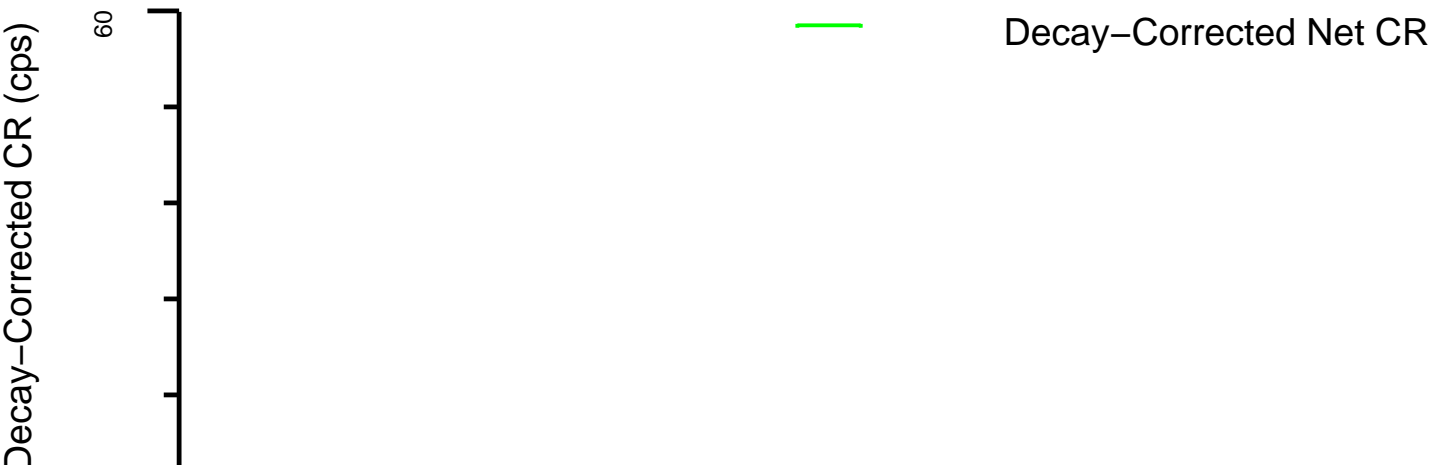
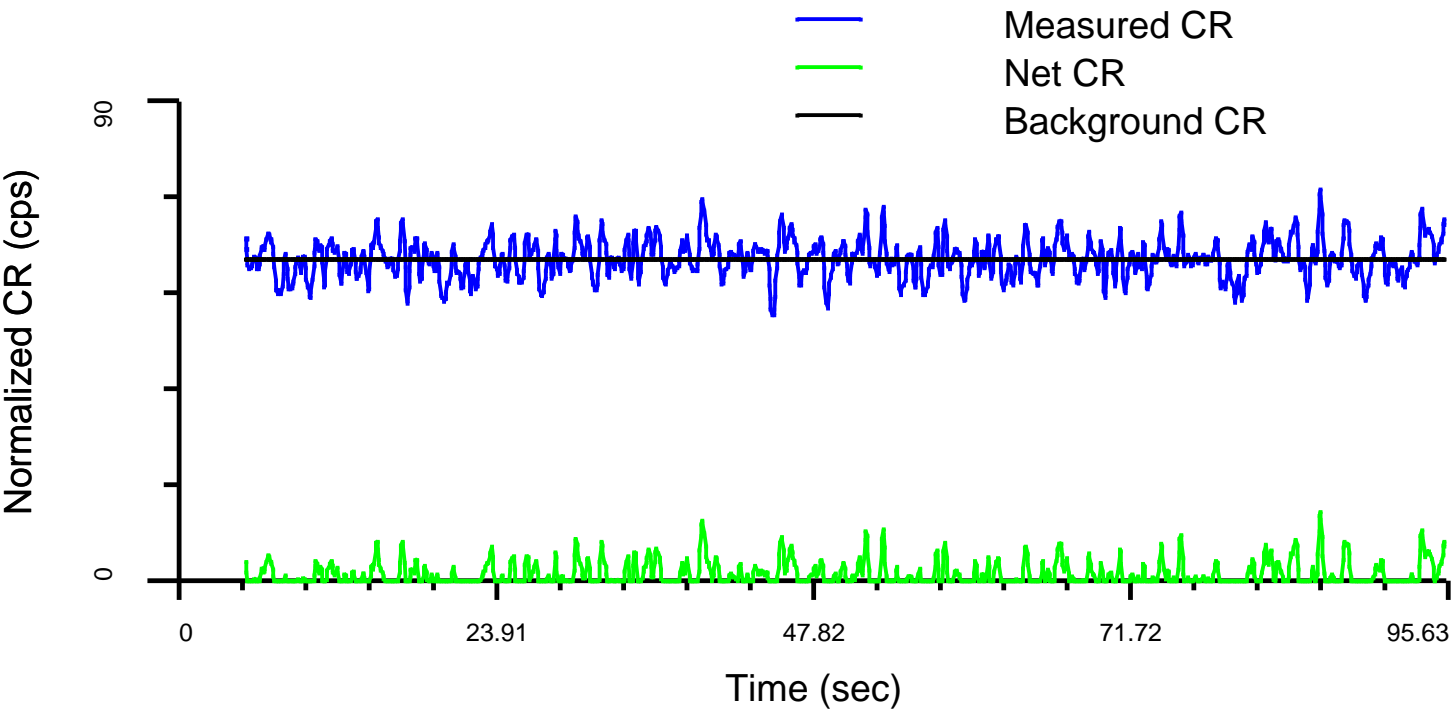
MAXIS Field Log

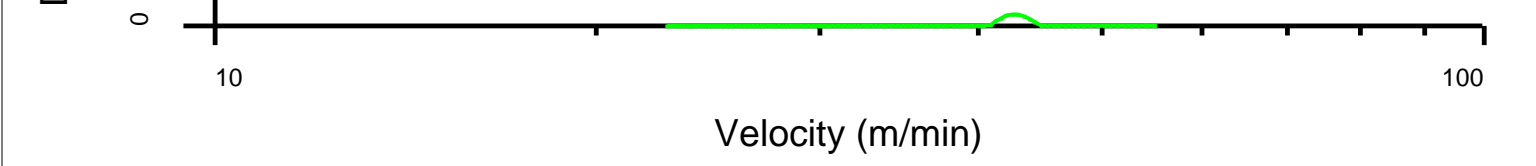
RST WFL Station Summary

09–Jul–2006 20:29

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
107	WPGR	2765.2	2769.6	No	---	---

Data Acquired on: 09–Jul–2006 20:07
Detector is below Minित्रon (sensitive to Down Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 12



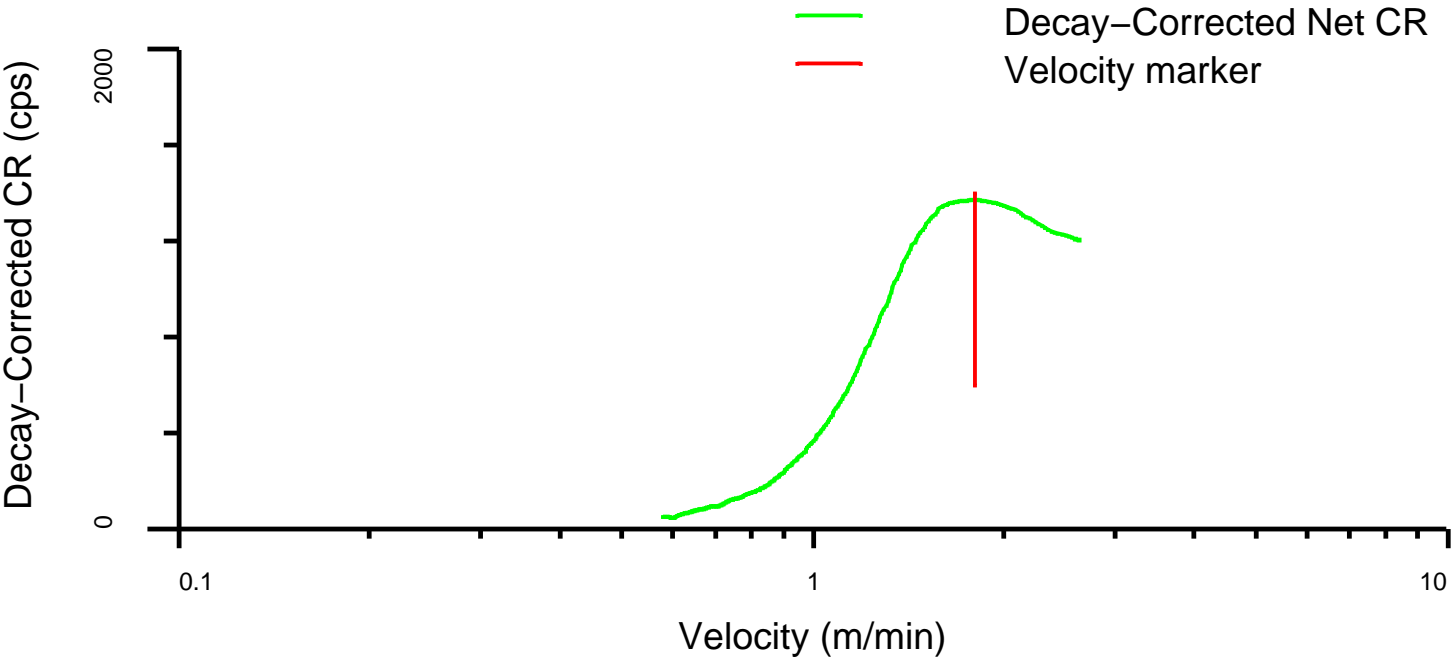
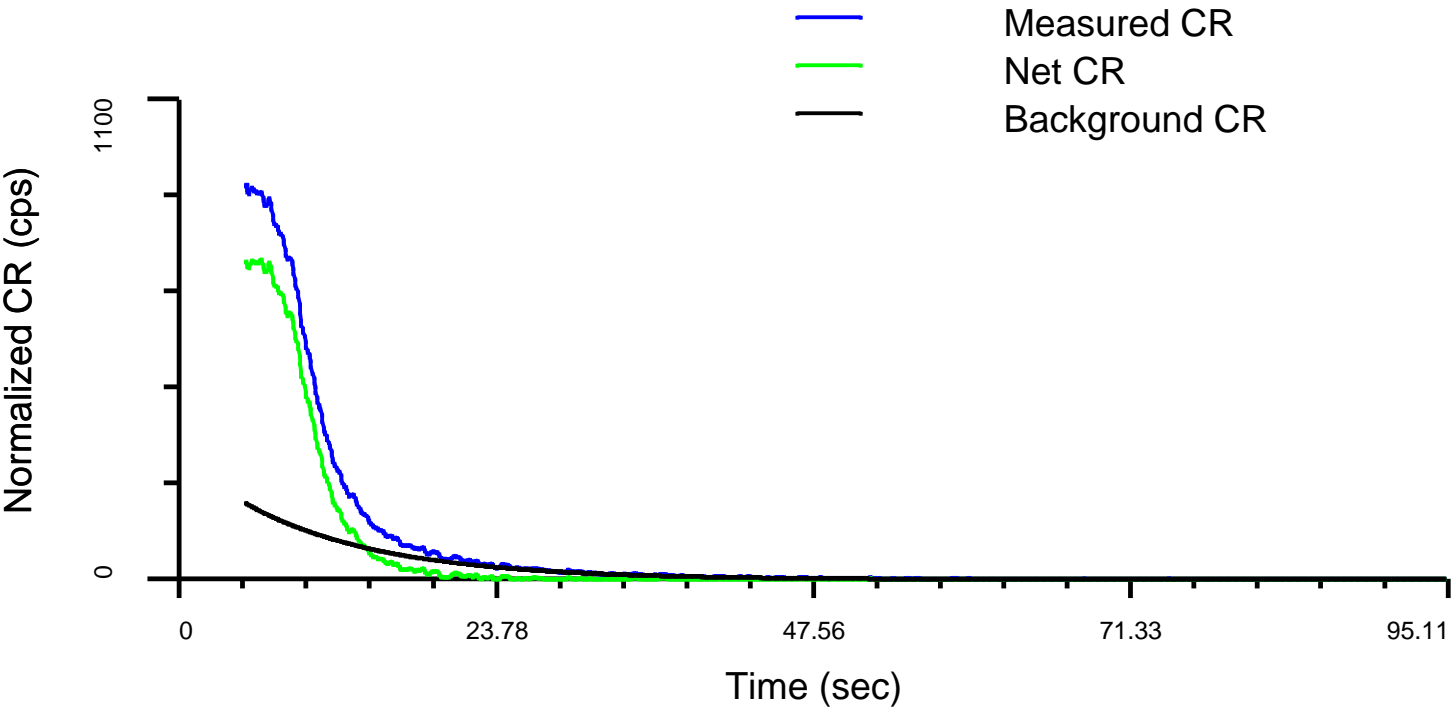


RST WFL Station Summary

09-Jul-2006 20:29

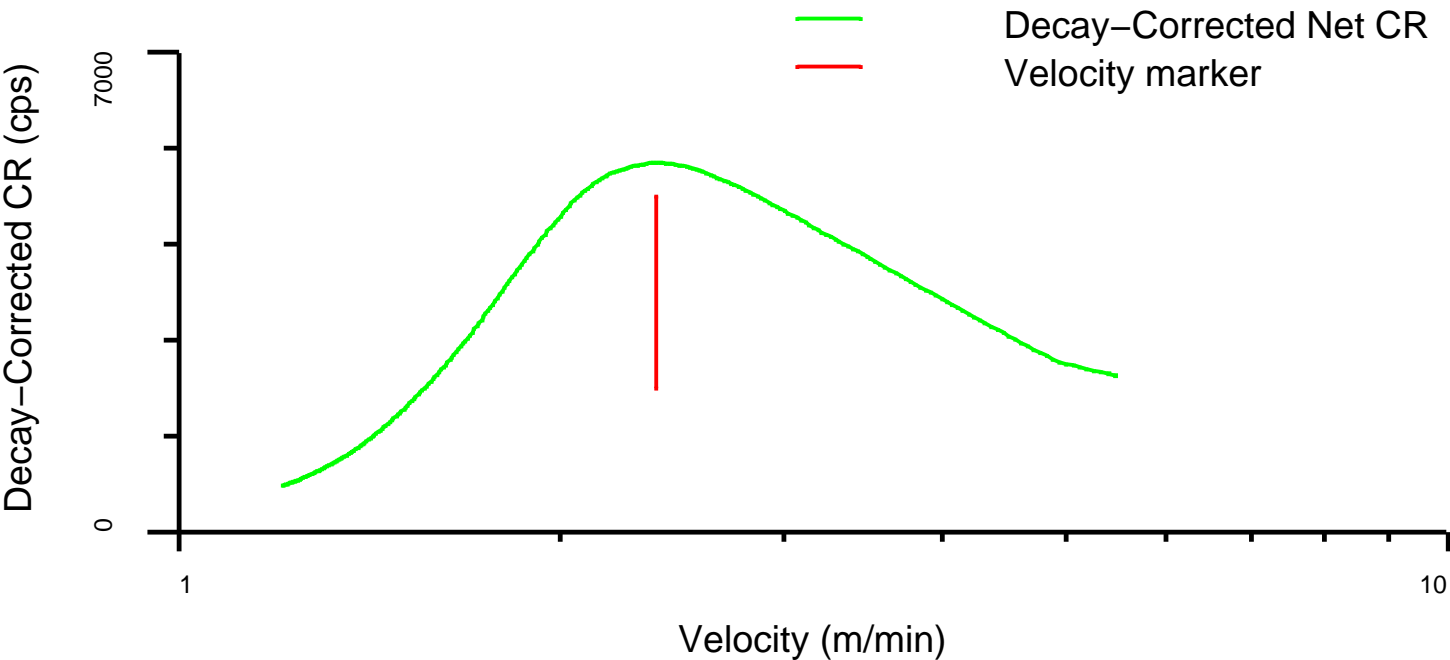
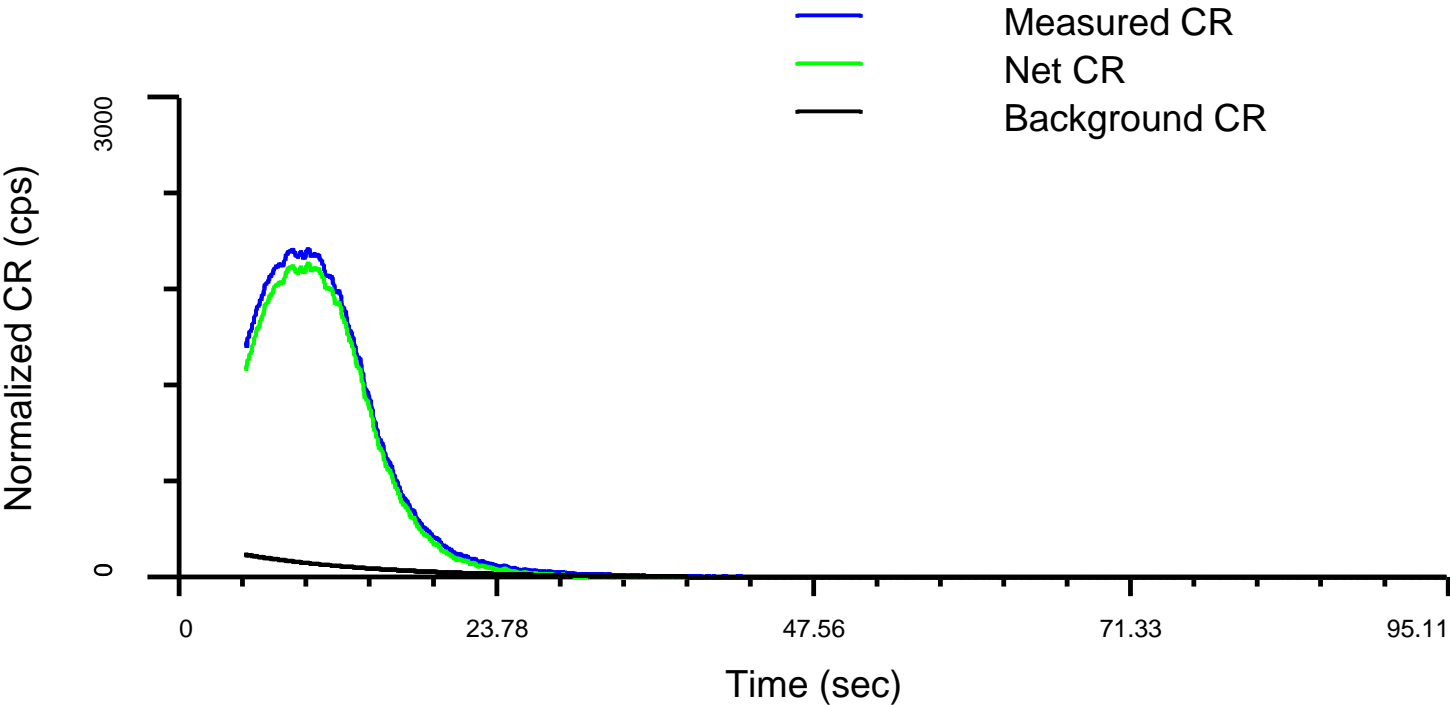
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
107	RST-Near	2765.2	2765.0	Yes	1.8	0.1

Data Acquired on: 09-Jul-2006 20:07
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 12



Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
107	RST-Far	2765.2	2764.8	Yes	2.4	0.0

Data Acquired on: 09-Jul-2006 20:07
Detector is above Minitrone (sensitive to Up Flow)
WFL Subcycle Time: 10.00 sec On - 90.67 sec Off
Number of WFL Cycles: 12



Log File Number	WFL Detector	Start Depth	Stop Depth	Flow Detected	Velocity	Velocity Error
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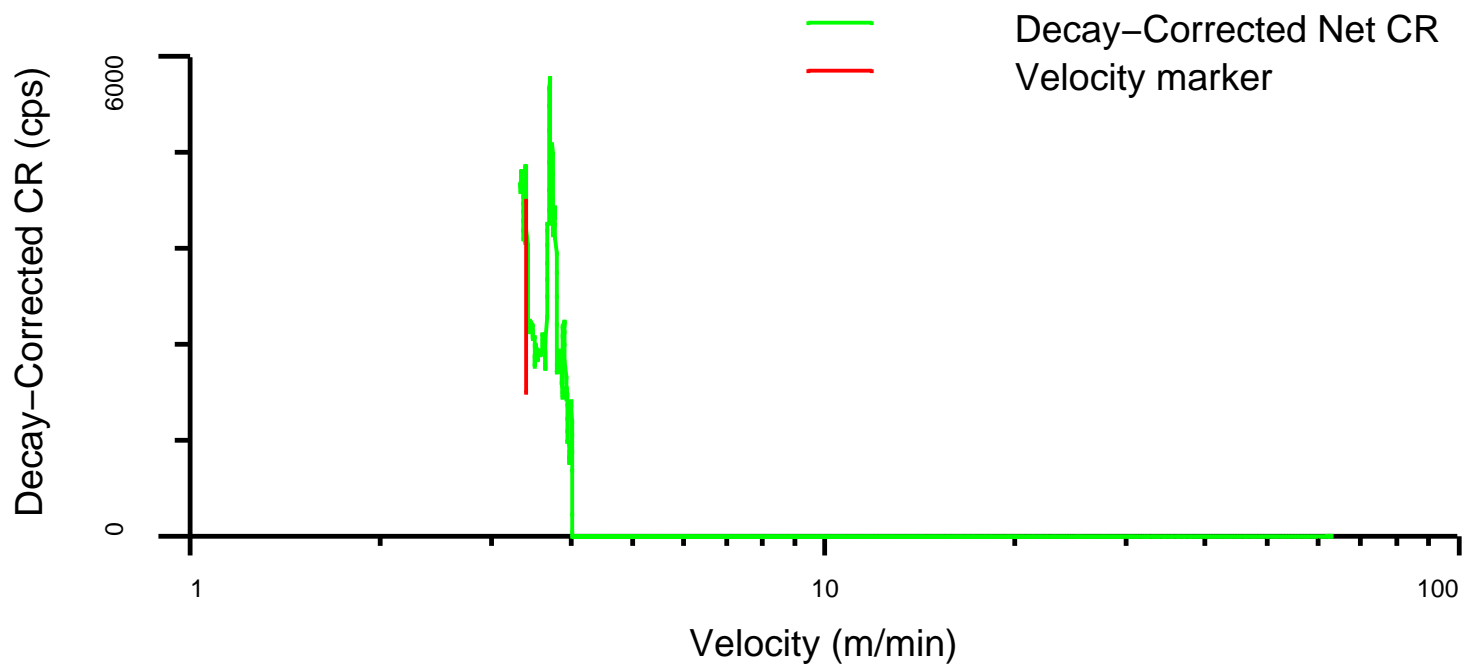
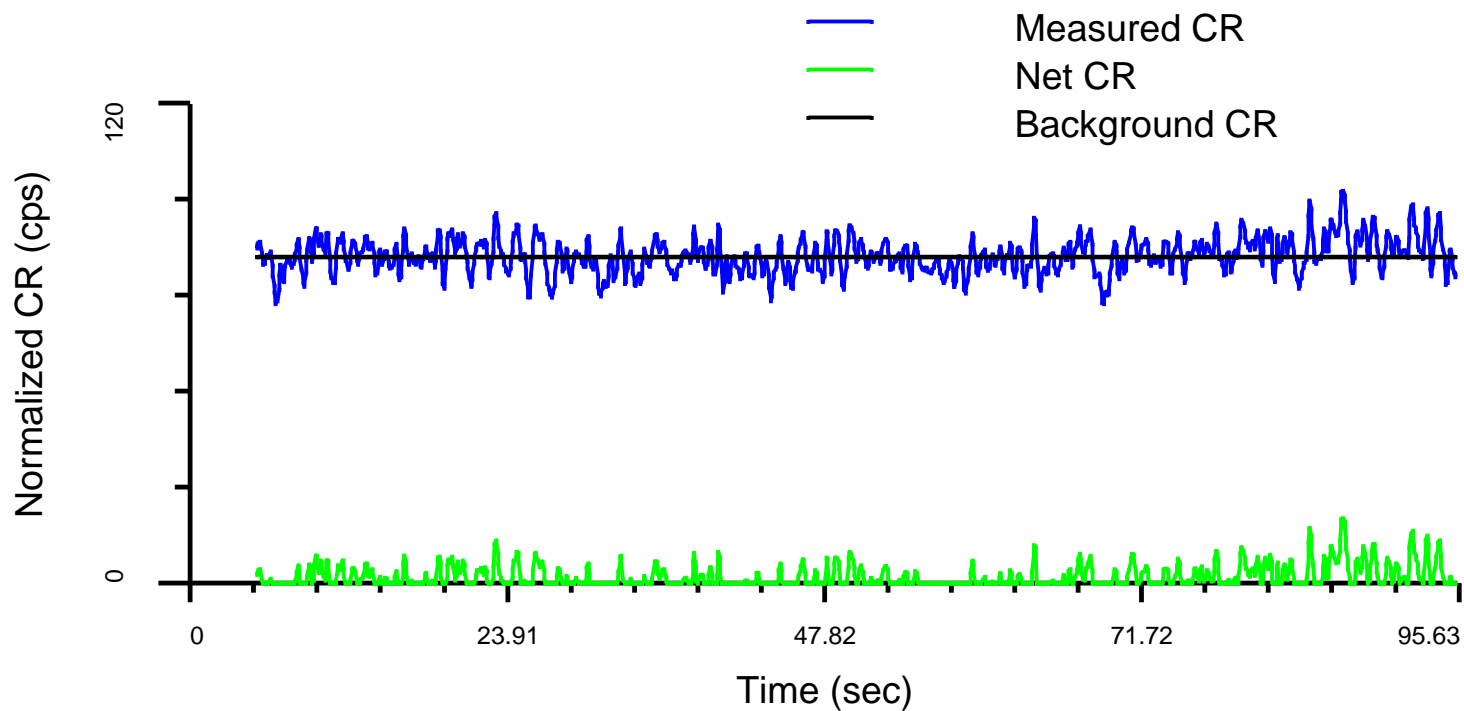
	(m)	(m)		(m/min)	(m/min)	
107	PBMS-GR	2765.2	2760.0	Unknown	3.4	0.4

Data Acquired on: 09-Jul-2006 20:07

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 12

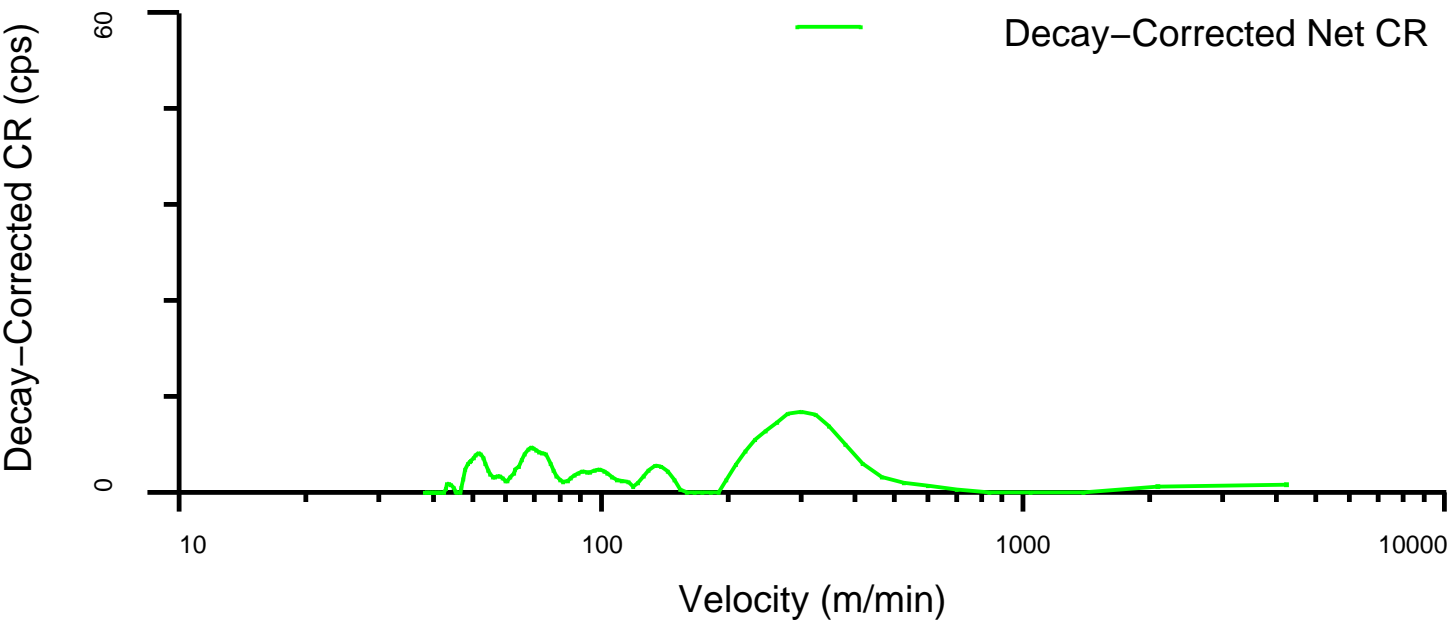
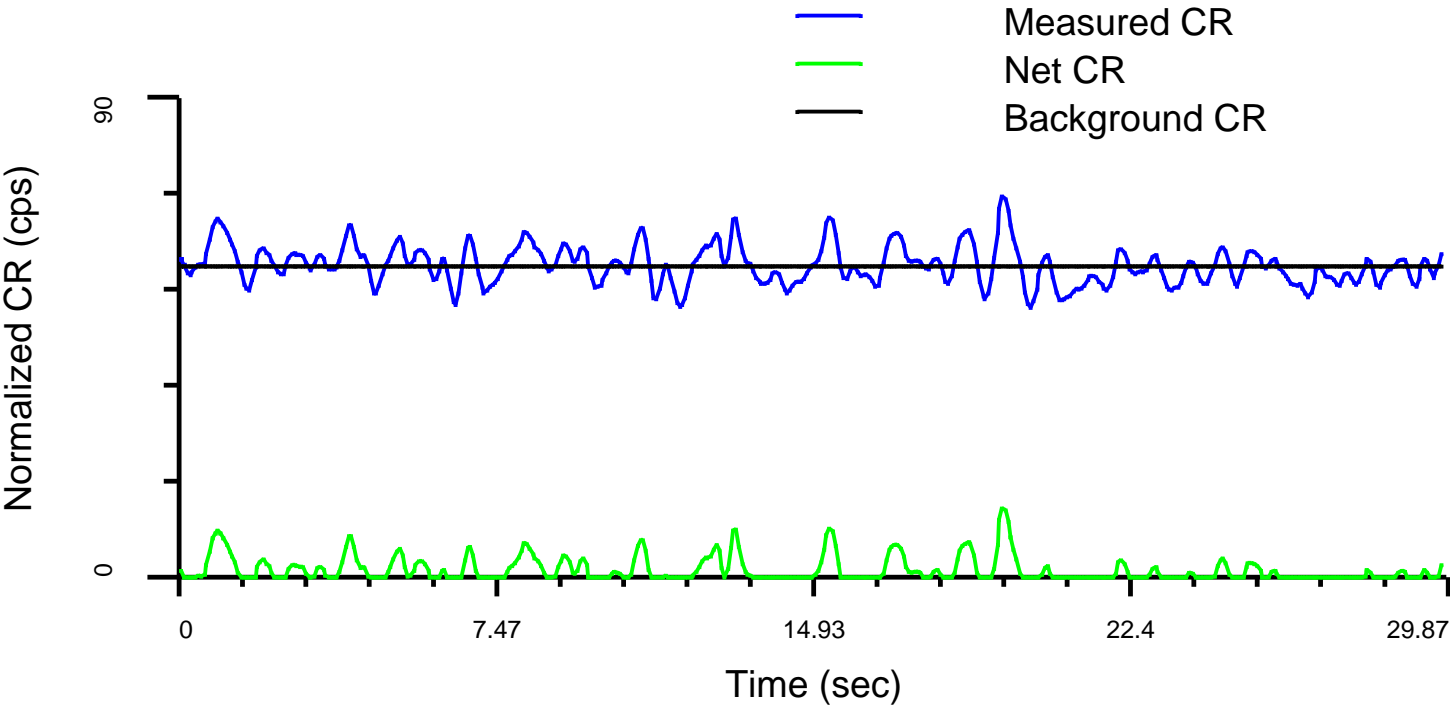


Schlumberger

Flowing RST-WFL
Station 2765m Fast

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
106	WPGR	2765.2	2769.6	No	---	---

Data Acquired on: 09-Jul-2006 20:00
Detector is below Minitron (sensitive to Down Flow)
WFL Subcycle Time: 0.07 sec On - 29.87 sec Off
Number of WFL Cycles: 10



Log File	WFL	Start	Stop	Flow	Velocity	Velocity
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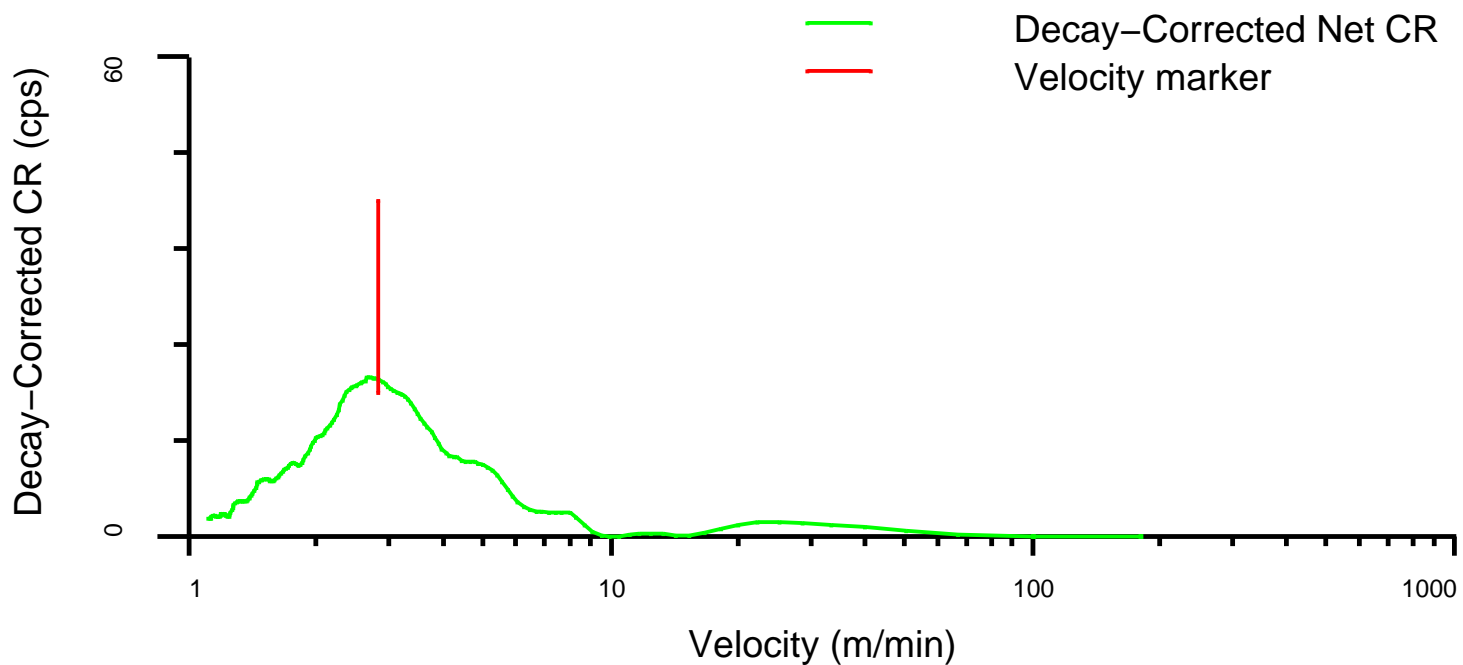
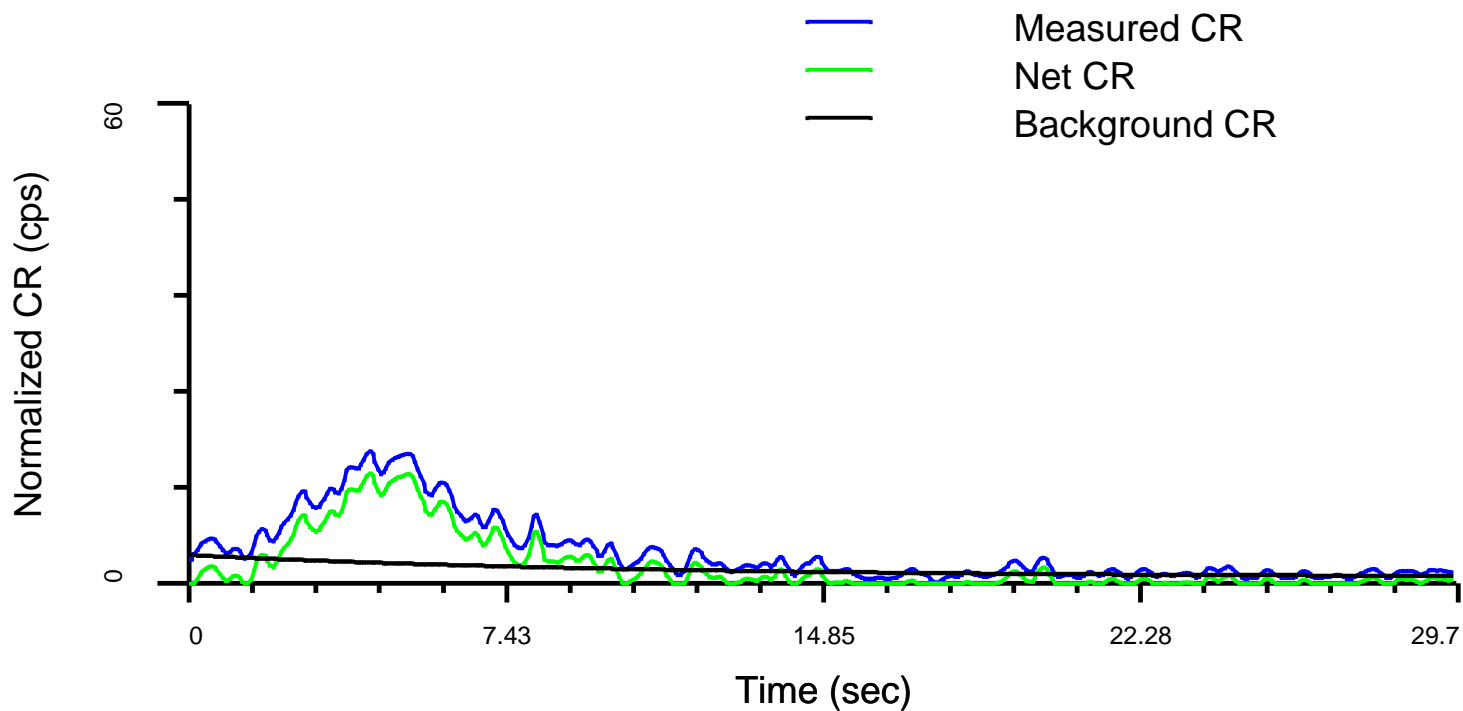
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
106	RST-Near	2765.2	2765.0	Yes	2.8	0.3

Data Acquired on: 09-Jul-2006 20:00

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 20:05

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
106	RST-Far	2765.2	2764.8	Yes	3.0	0.1

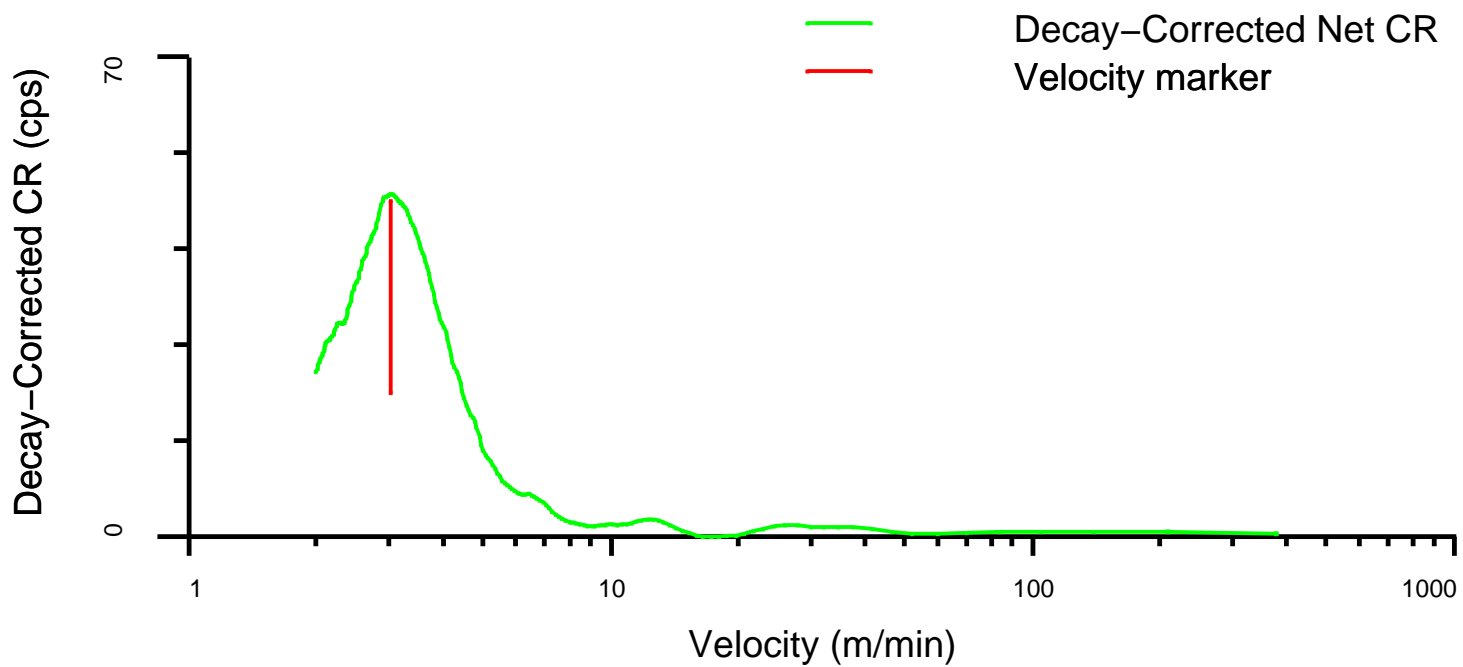
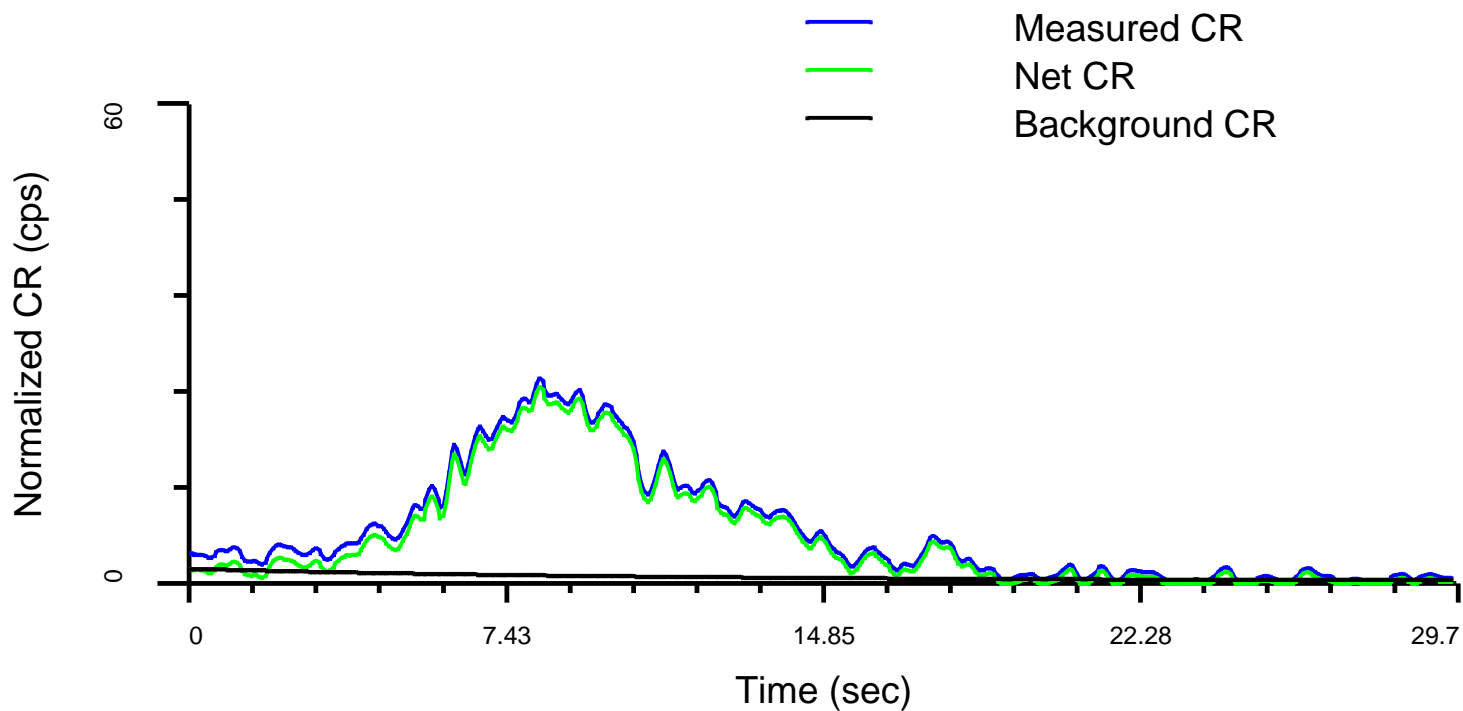
Data Acquired on: 09-Jul-2006 20:00

Data Acquired on: 09-Jul-2006 20:00

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On – 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 20:05

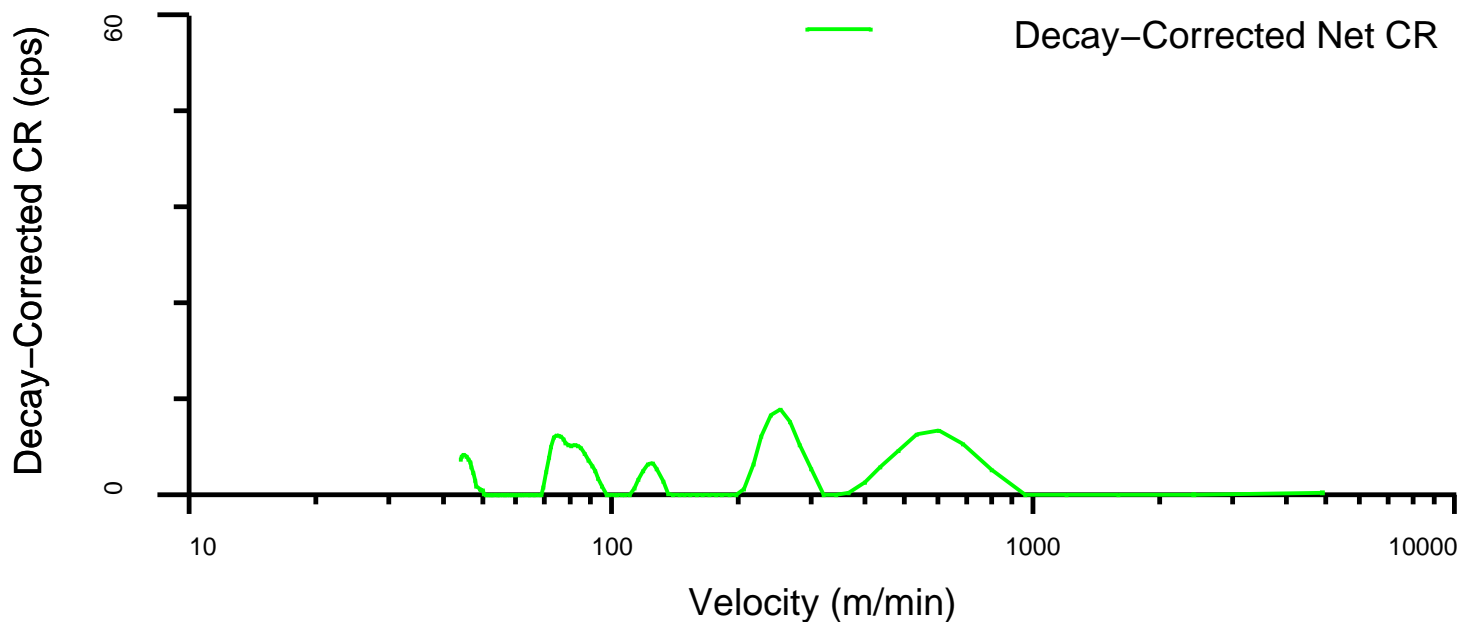
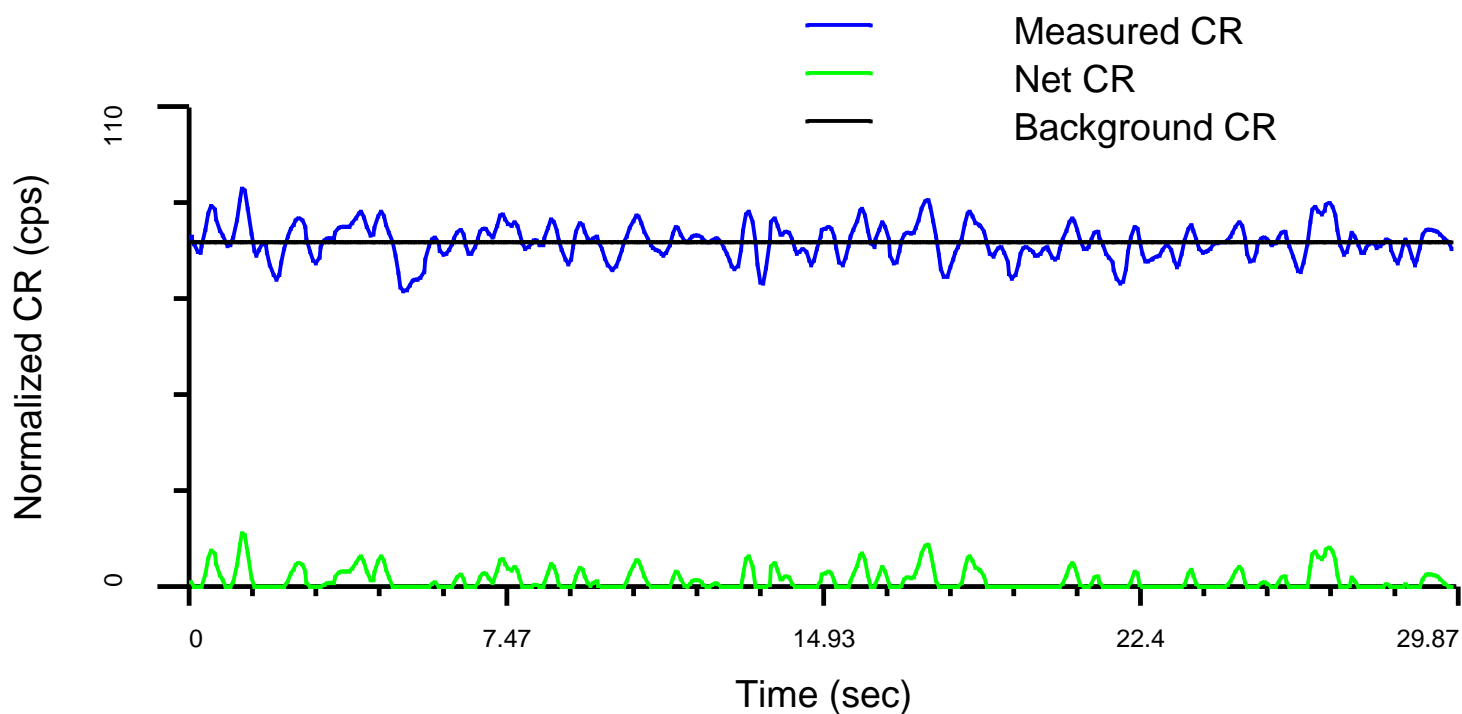
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
106	PBMS-GR	2765.2	2760.0	No	---	---

Data Acquired on: 09-Jul-2006 20:00

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On – 29.87 sec Off

Number of WFL Cycles: 10



Schlumberger

Flowing RST-WFL
Station 2765m Normal

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 19:57

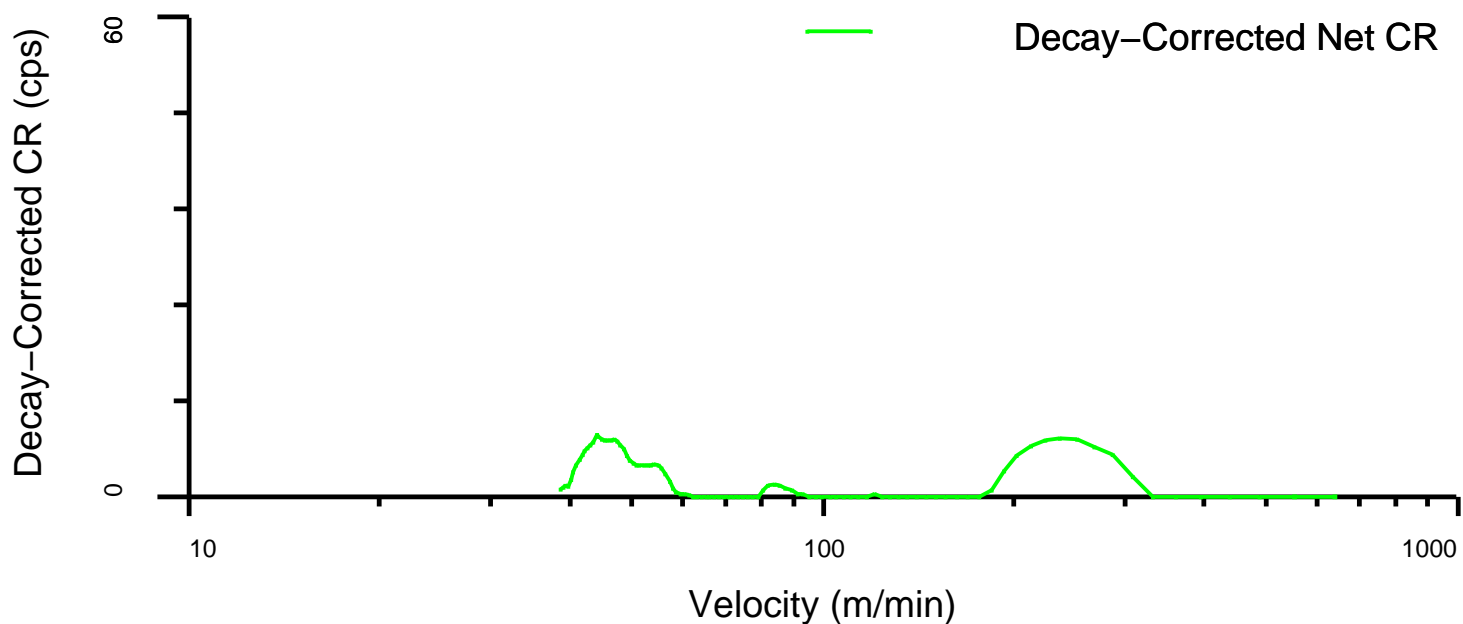
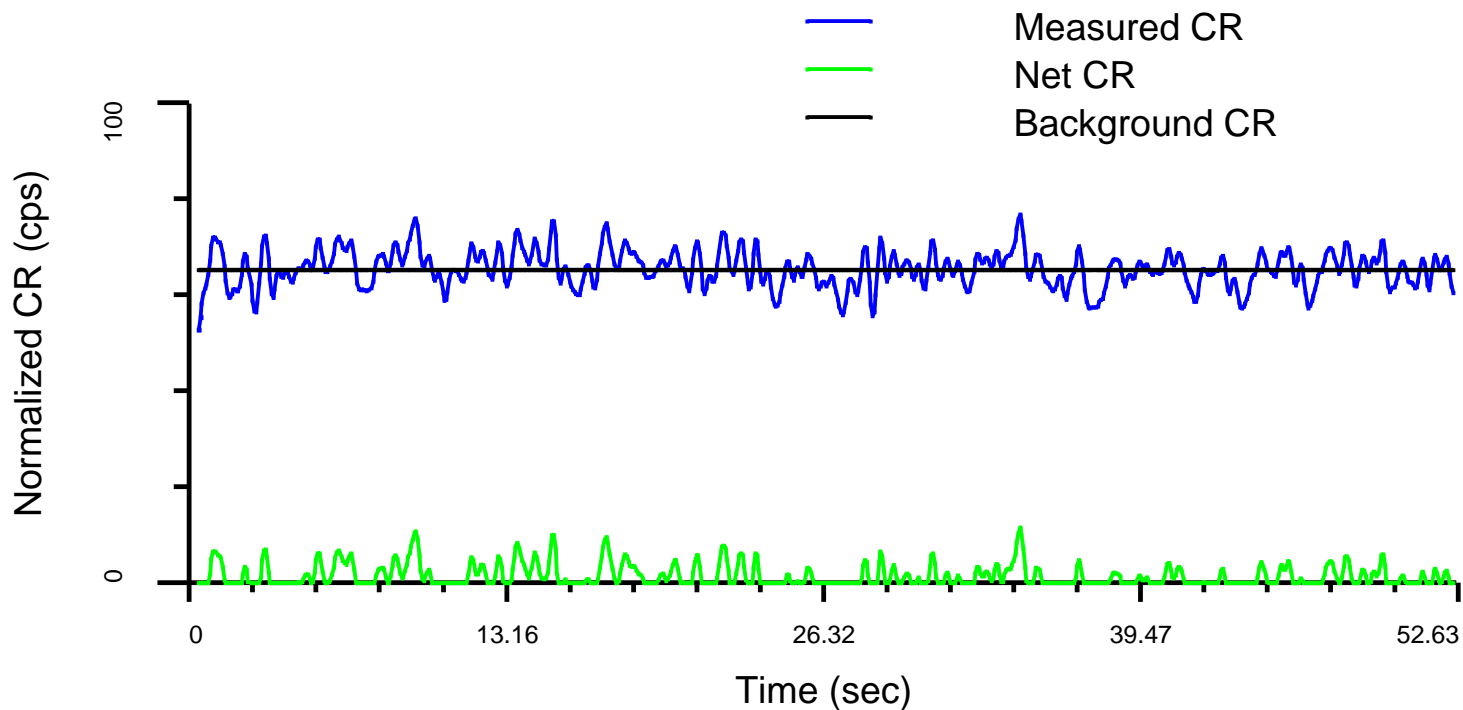
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
105	WPGR	2765.2	2769.6	No	---	---

Data Acquired on: 09-Jul-2006 19:46

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On – 52.27 sec Off

Number of WFL Cycles: 12



RST WFL Station Summary

09-Jul-2006 19:57

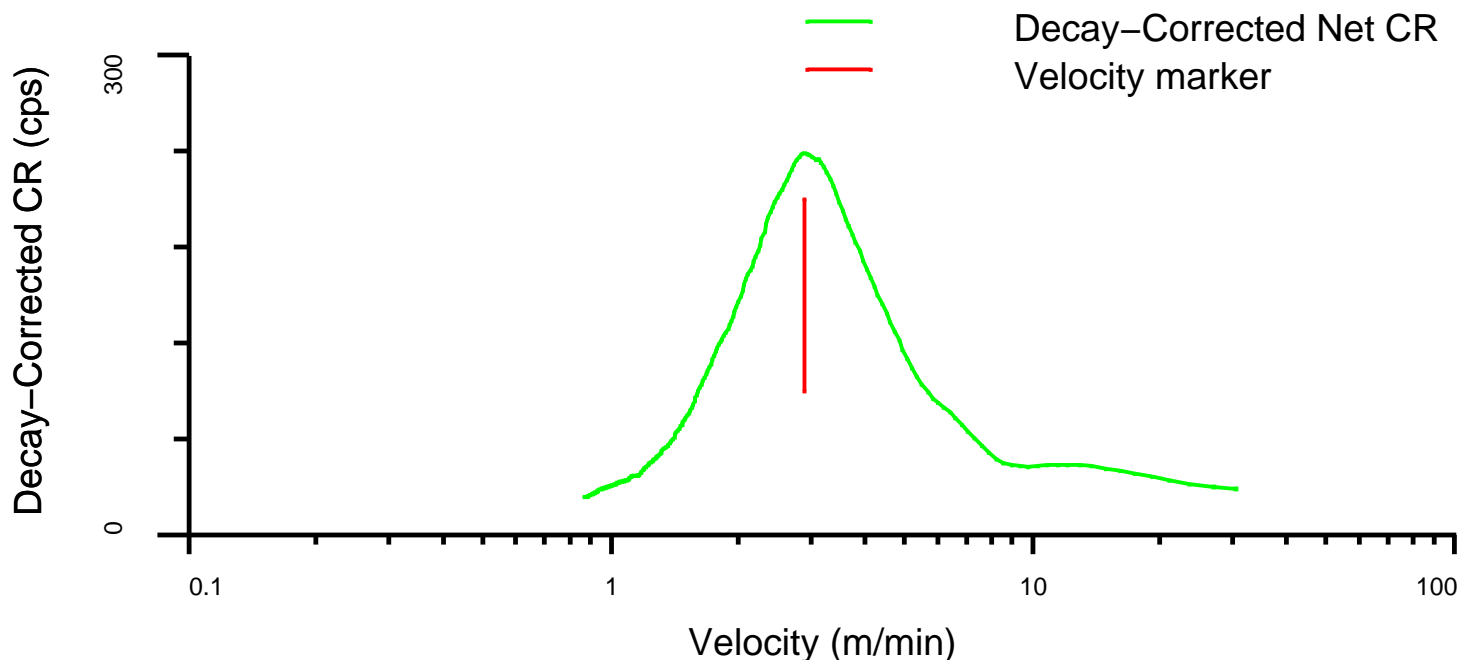
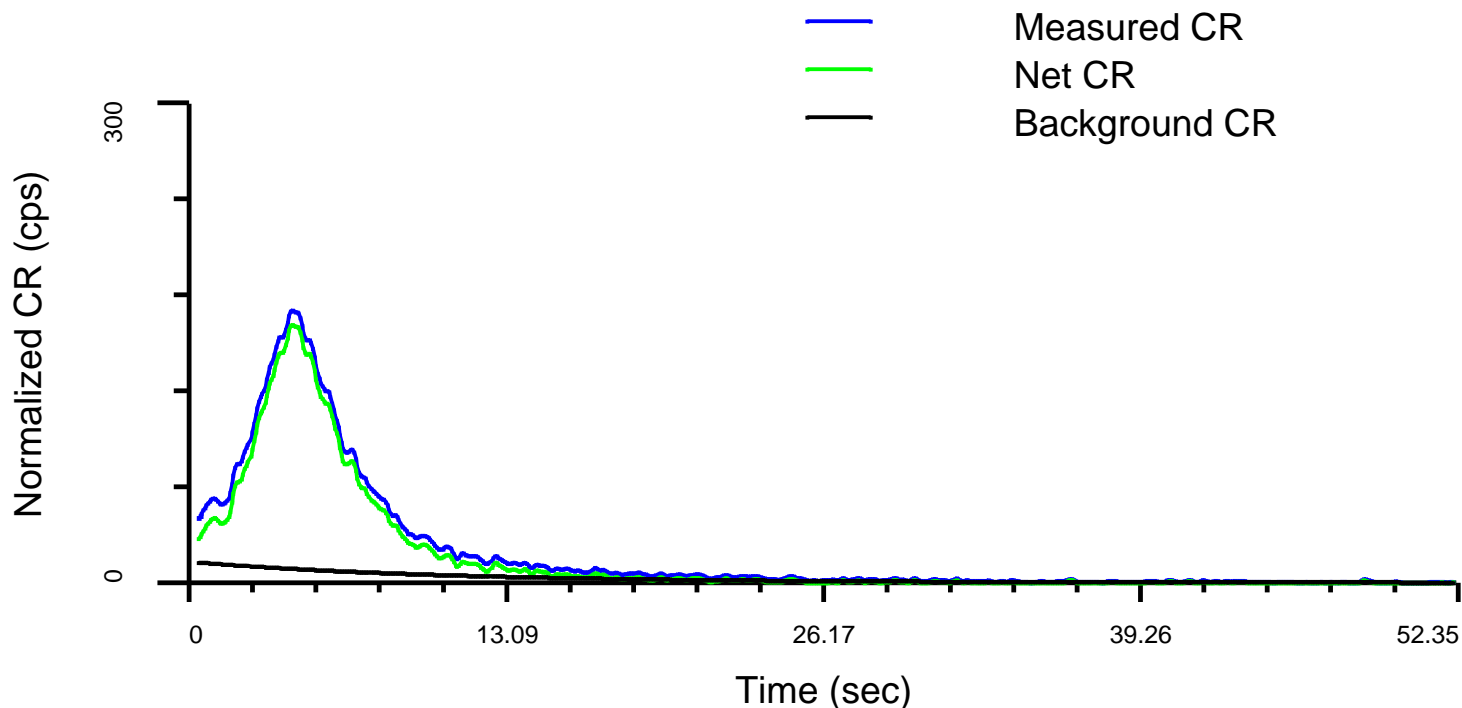
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
105	RST-Near	2765.2	2765.0	Yes	2.9	0.1

Data Acquired on: 09-Jul-2006 19:46

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On – 52.27 sec Off

Number of WFL Cycles: 12



RST WFL Station Summary

09-Jul-2006 19:57

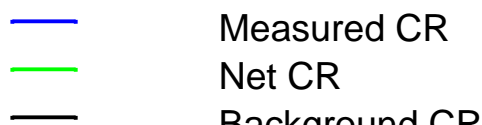
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
105	RST-Far	2765.2	2764.8	Yes	3.1	0.0

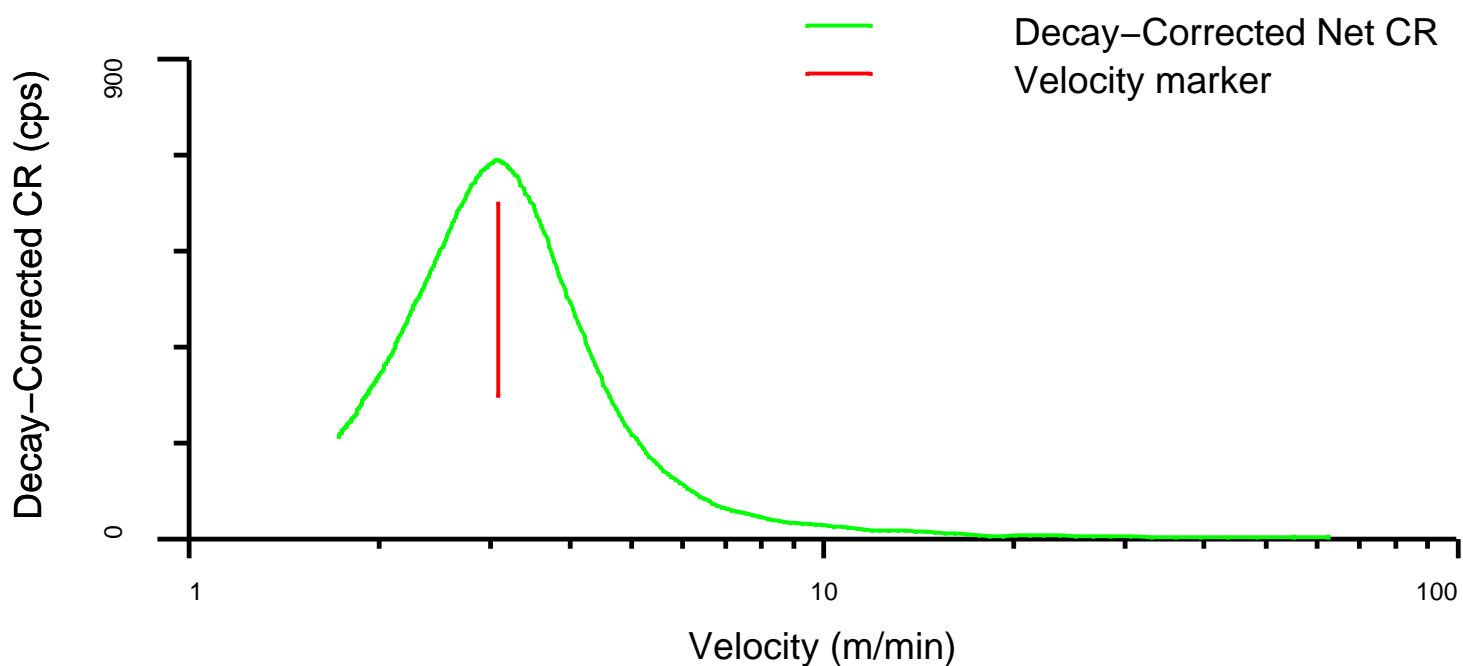
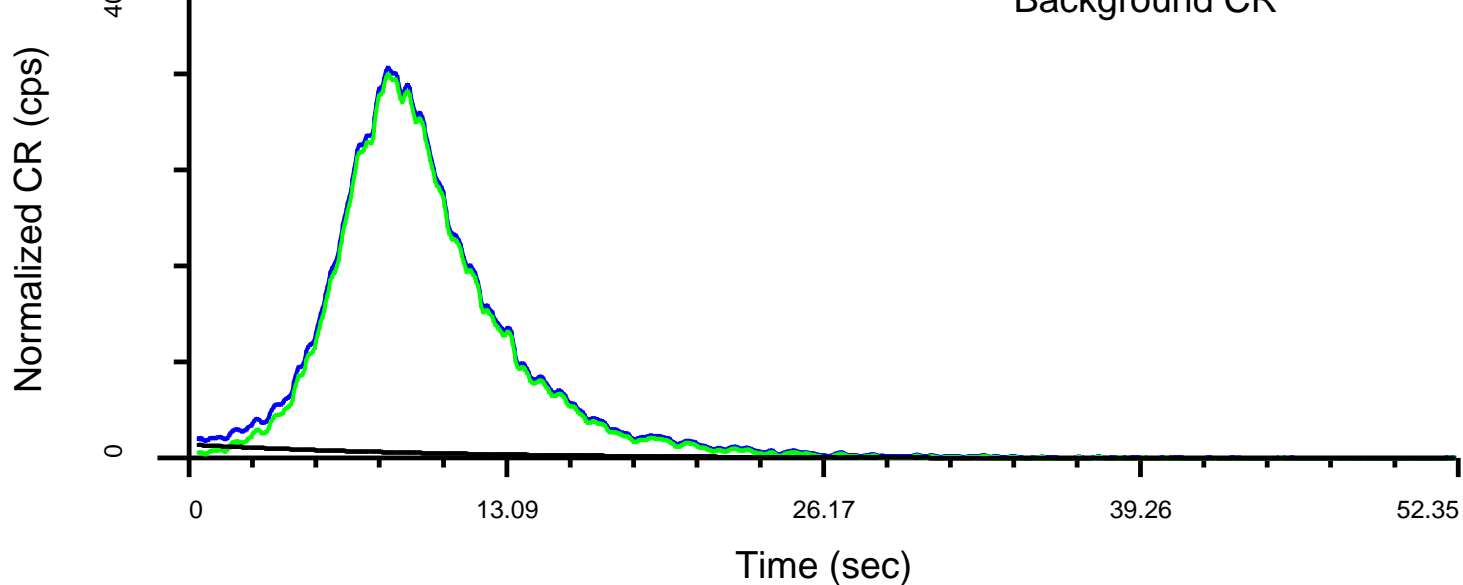
Data Acquired on: 09-Jul-2006 19:46

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 12





RST WFL Station Summary

09-Jul-2006 19:57

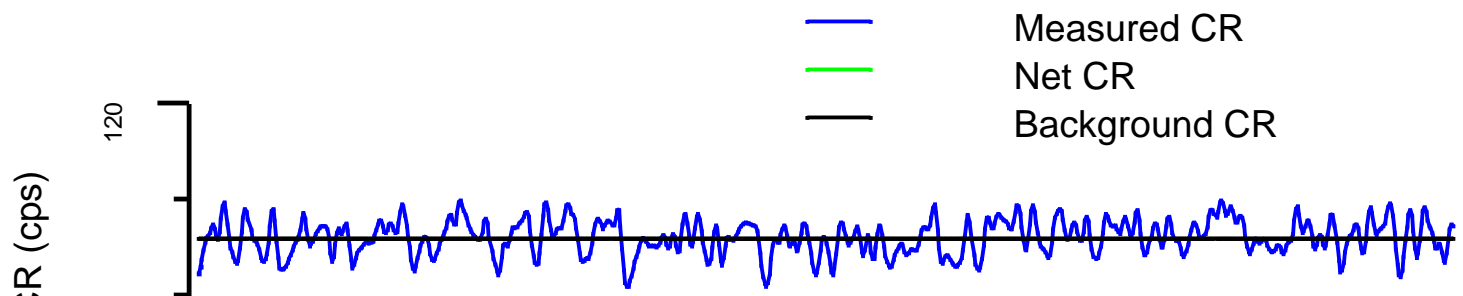
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
105	PBMS-GR	2765.2	2760.0	No	---	---

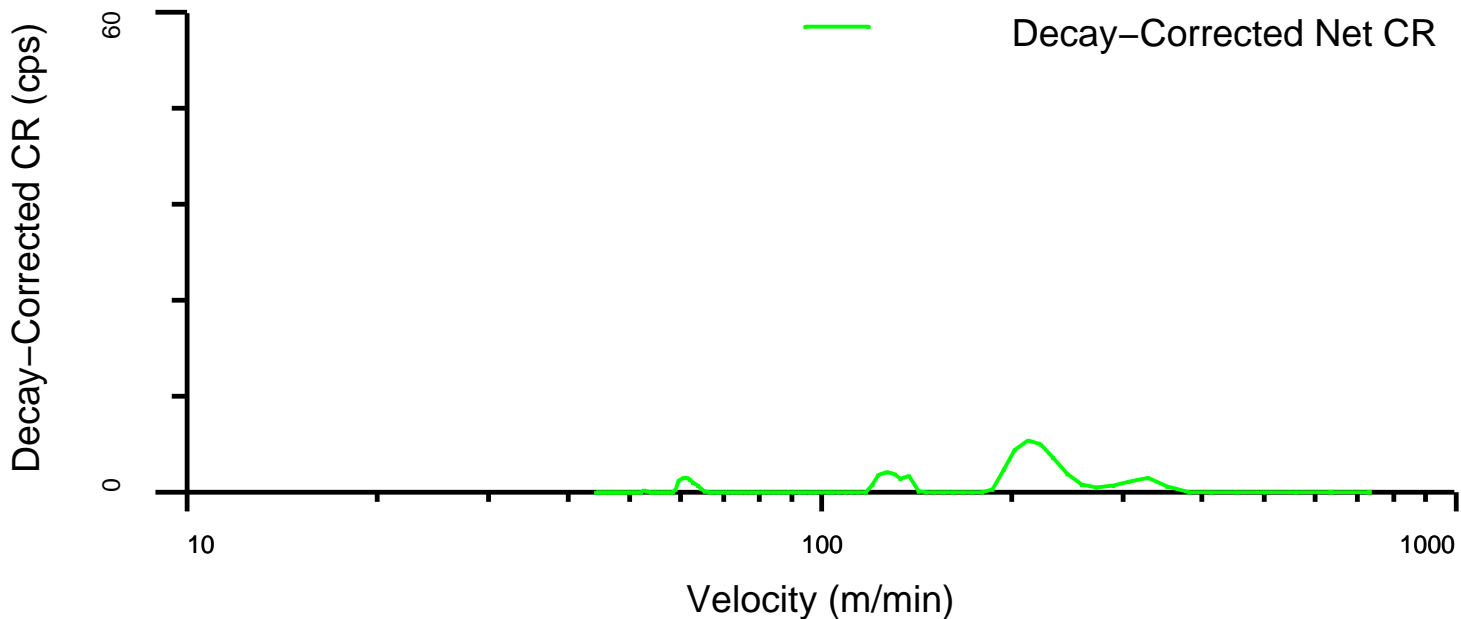
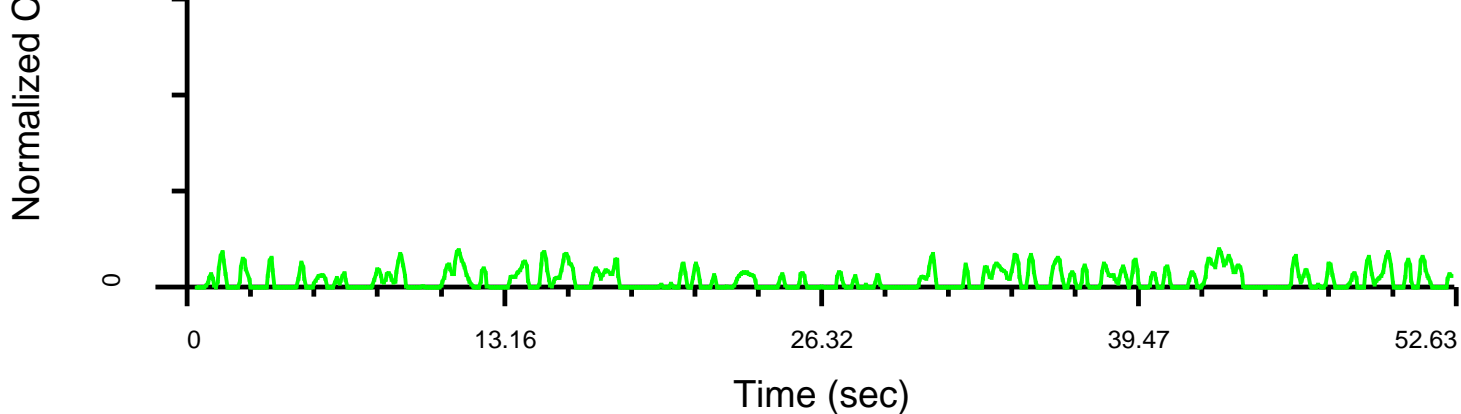
Data Acquired on: 09-Jul-2006 19:46

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 12





Schlumberger

Flowing RST-WFL
Station 2775.5m Slow

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 17:06

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
103	WPGR	2775.8	2780.2	No	---	---

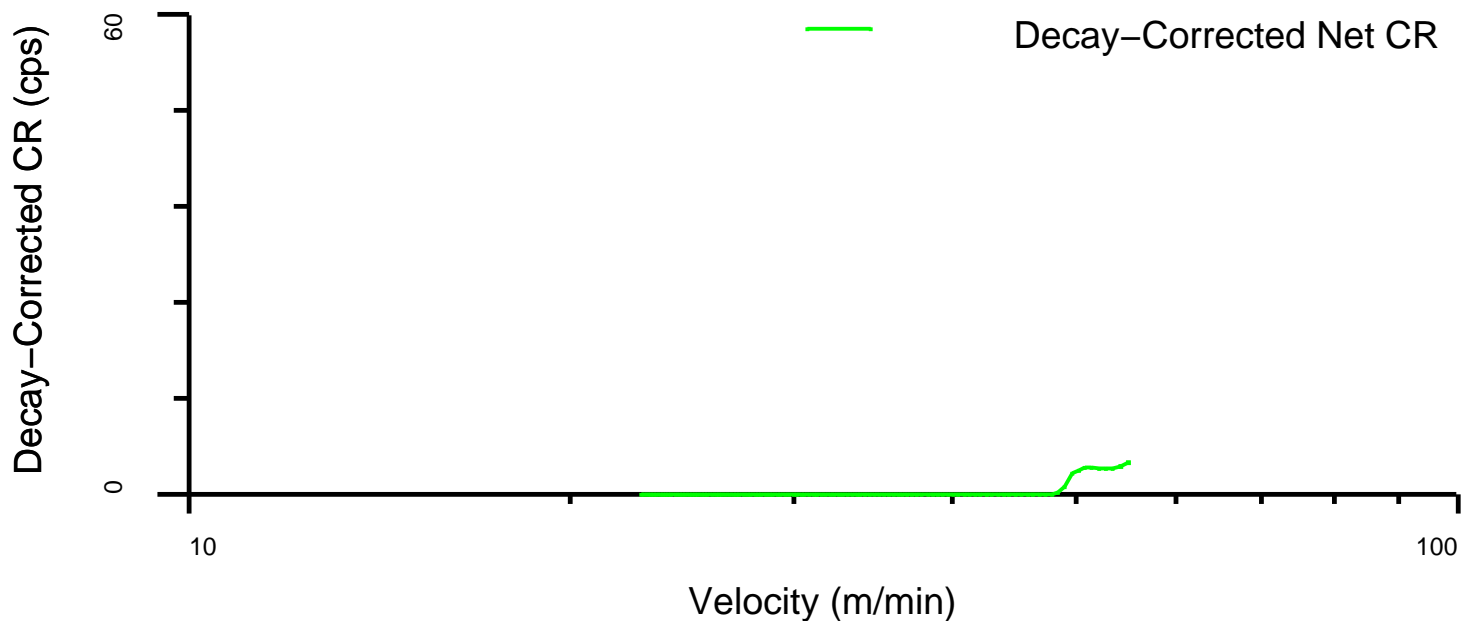
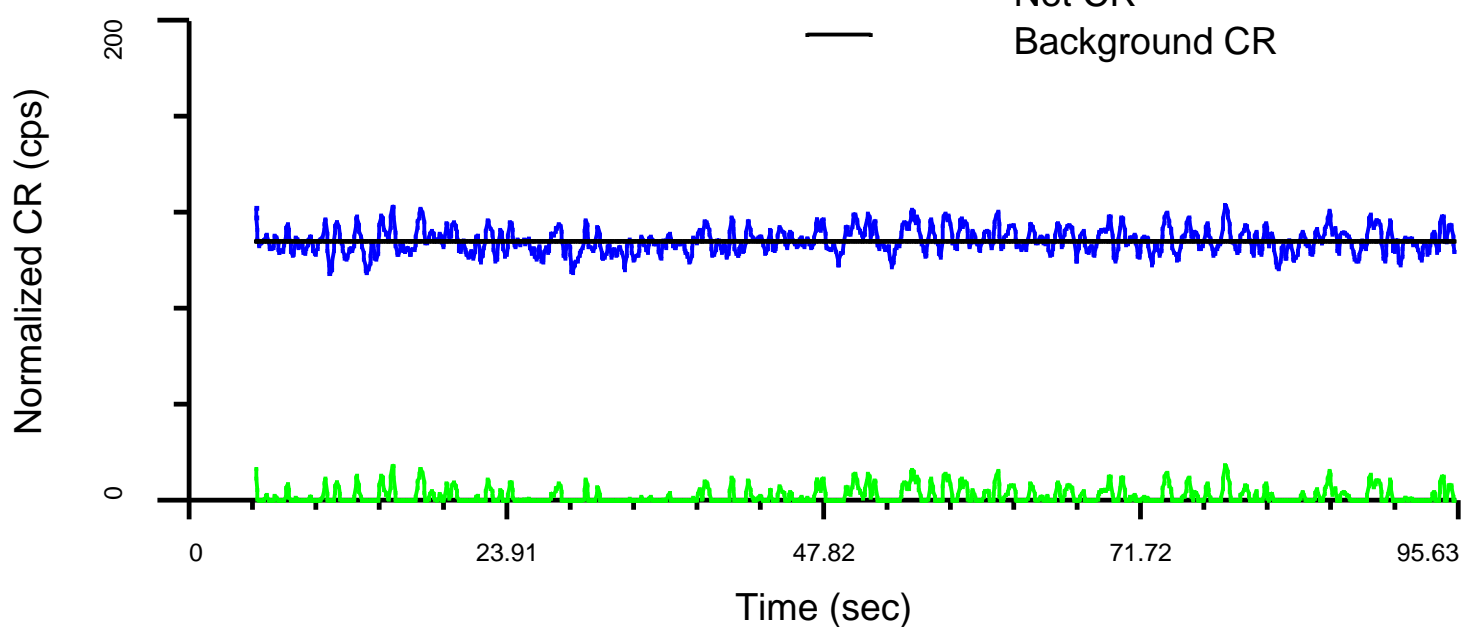
Data Acquired on: 09-Jul-2006 16:48

Detector is below Minitrone (sensitive to Down Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10

Measured CR
Net CR



RST WFL Station Summary

09-Jul-2006 17:06

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
103	RST-Near	2775.8	2775.6	Yes	1.8	0.0

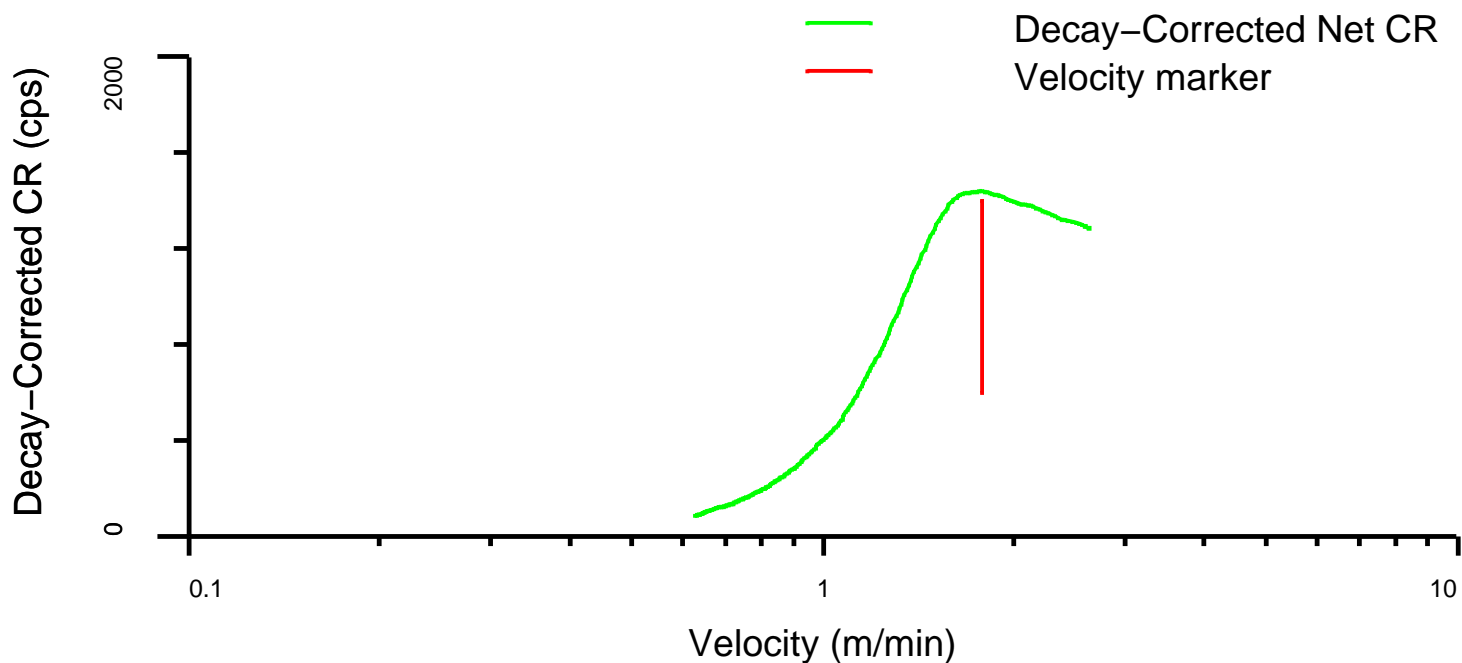
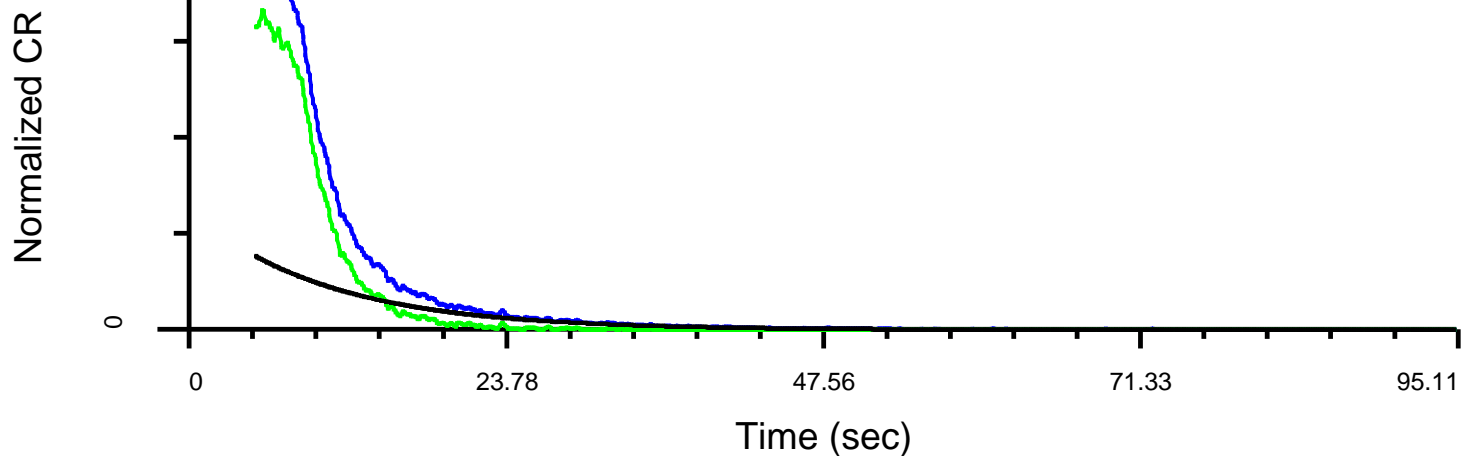
Data Acquired on: 09-Jul-2006 16:48

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 17:06

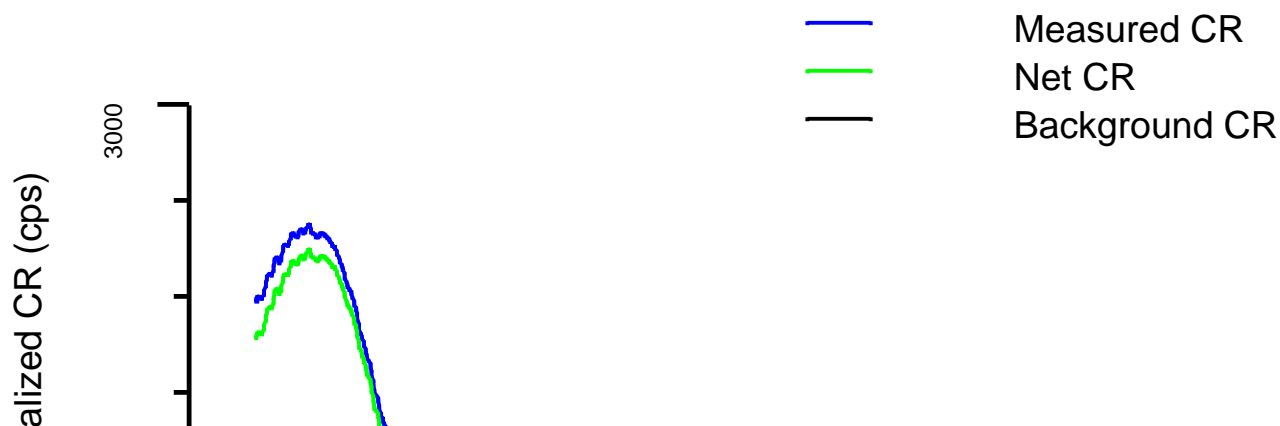
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
103	RST-Far	2775.8	2775.4	Yes	2.4	0.1

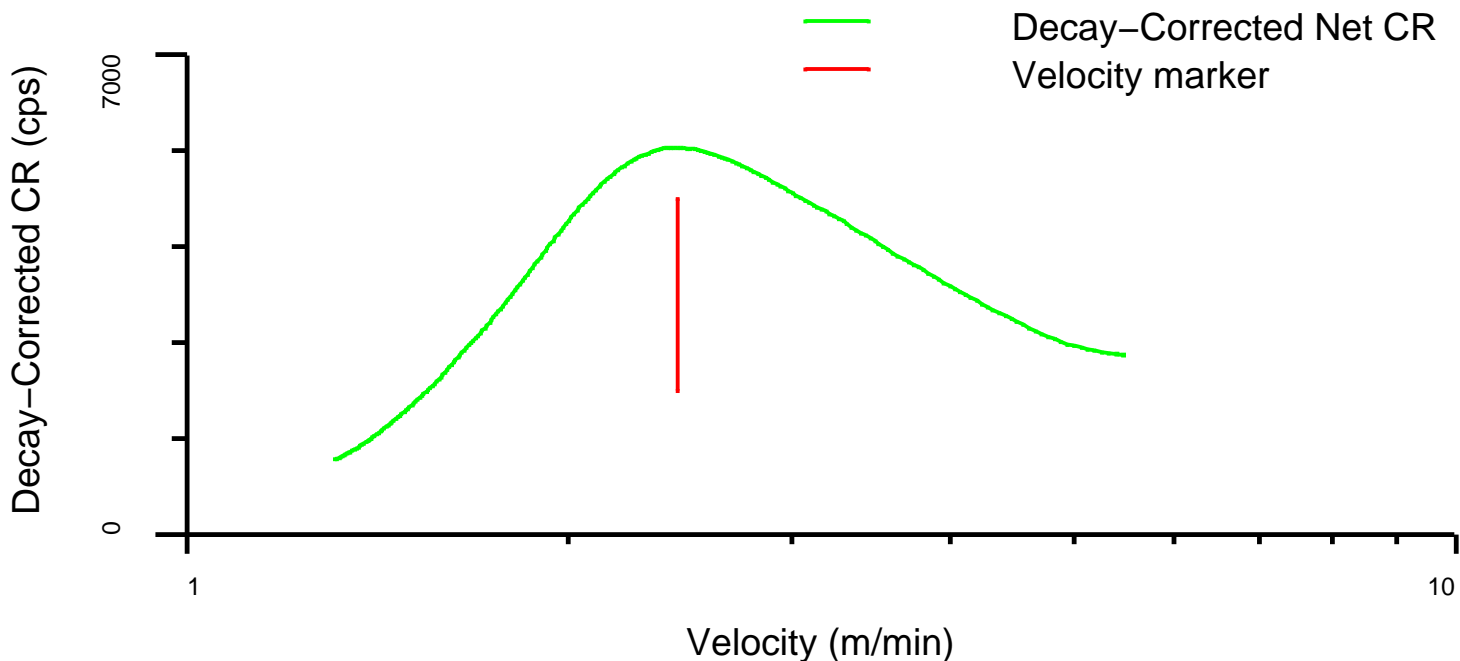
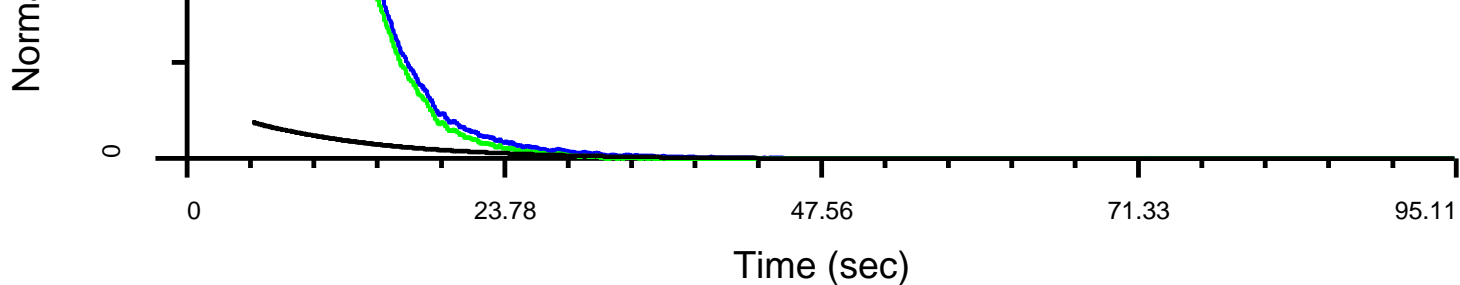
Data Acquired on: 09-Jul-2006 16:48

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 17:06

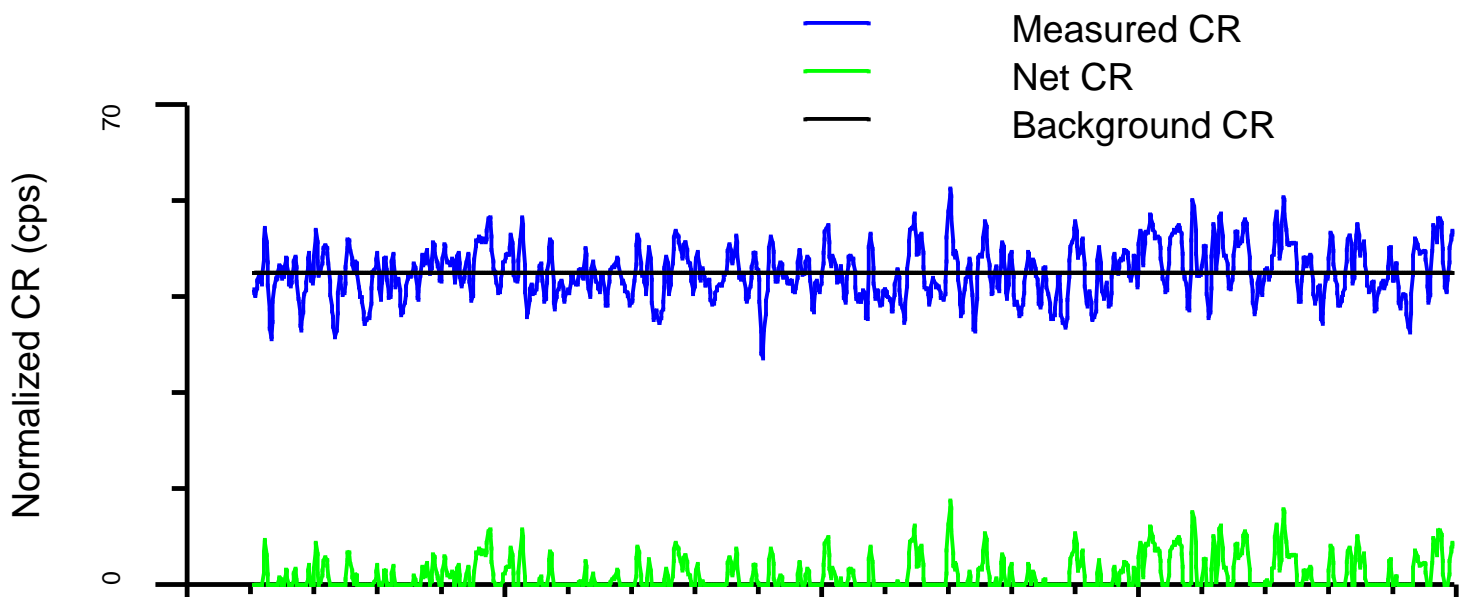
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
103	PBMS-GR	2775.8	2770.6	No	---	---

Data Acquired on: 09-Jul-2006 16:48

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10



0

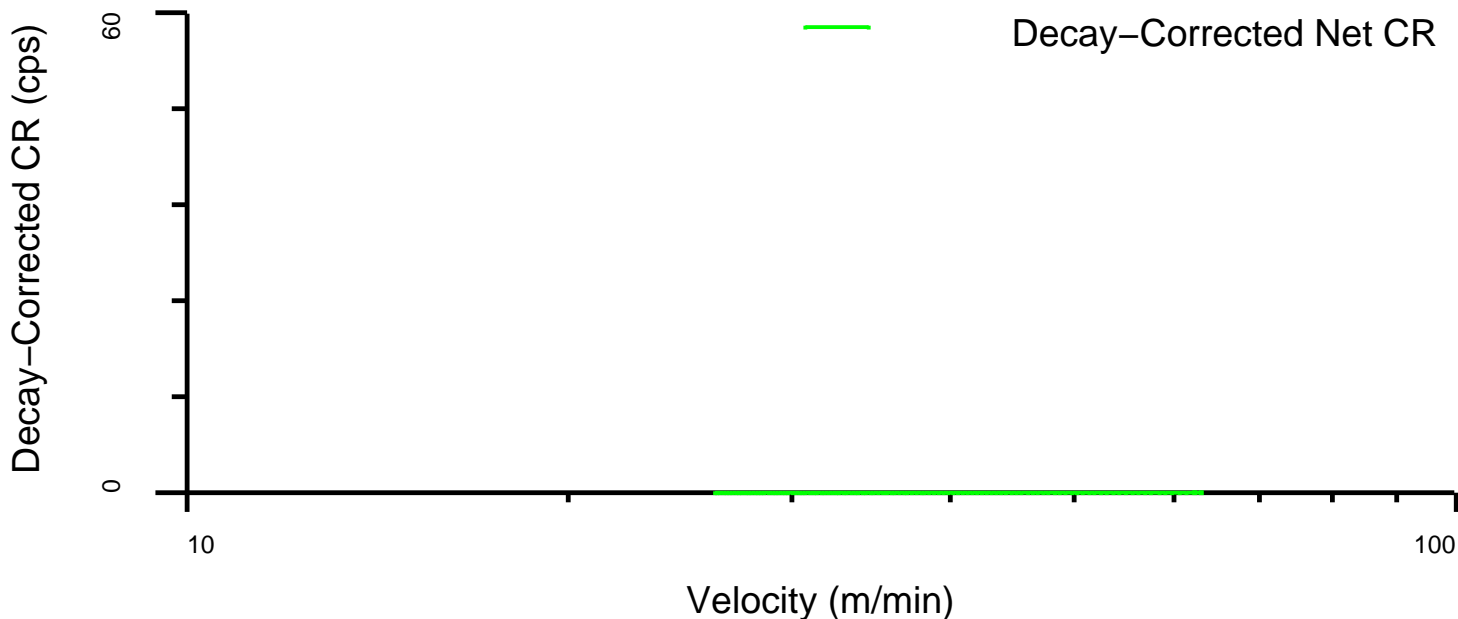
23.91

47.82

71.72

95.63

Time (sec)



Schlumberger

Flowing RST-WFL
Station 2775.5m Fast

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 16:46

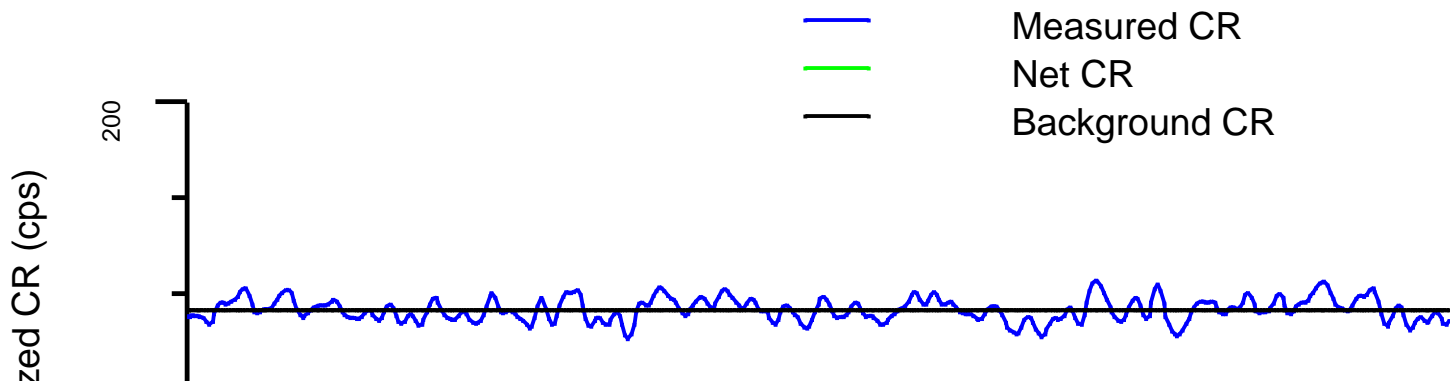
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
102	WPGR	2775.8	2780.2	No	---	---

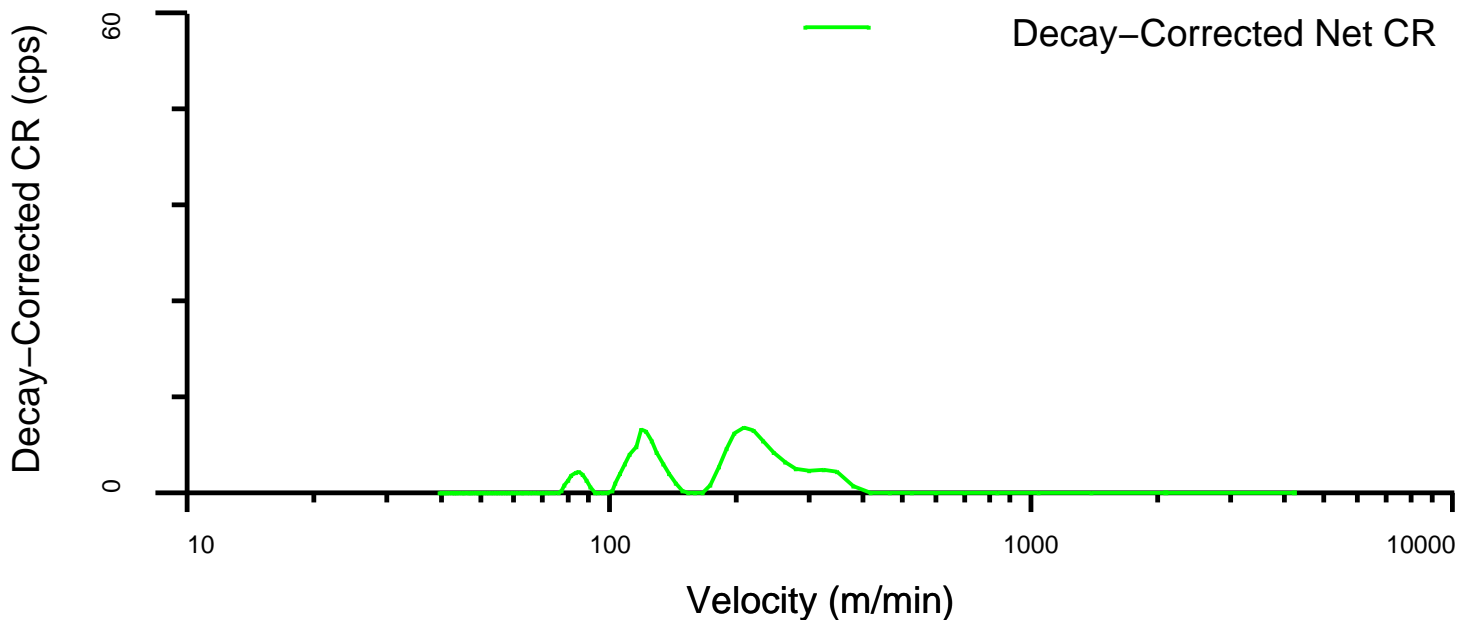
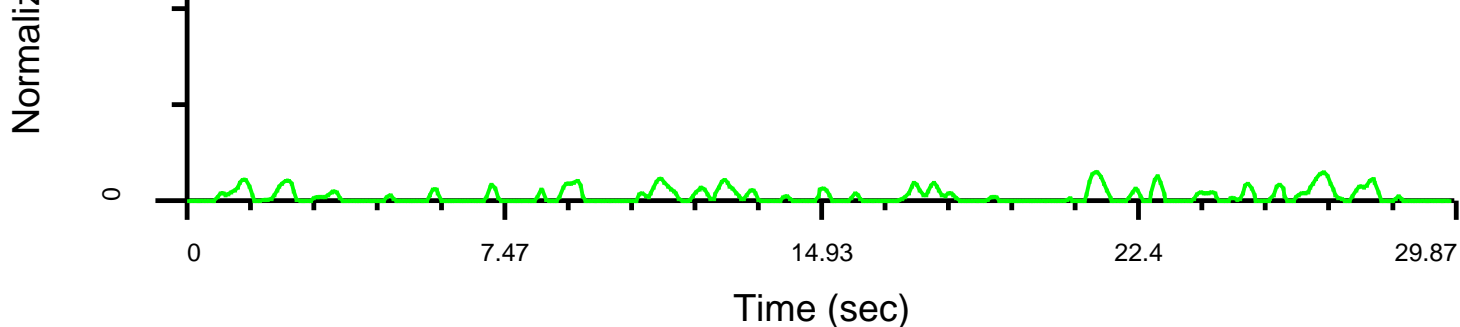
Data Acquired on: 09-Jul-2006 16:40

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:46

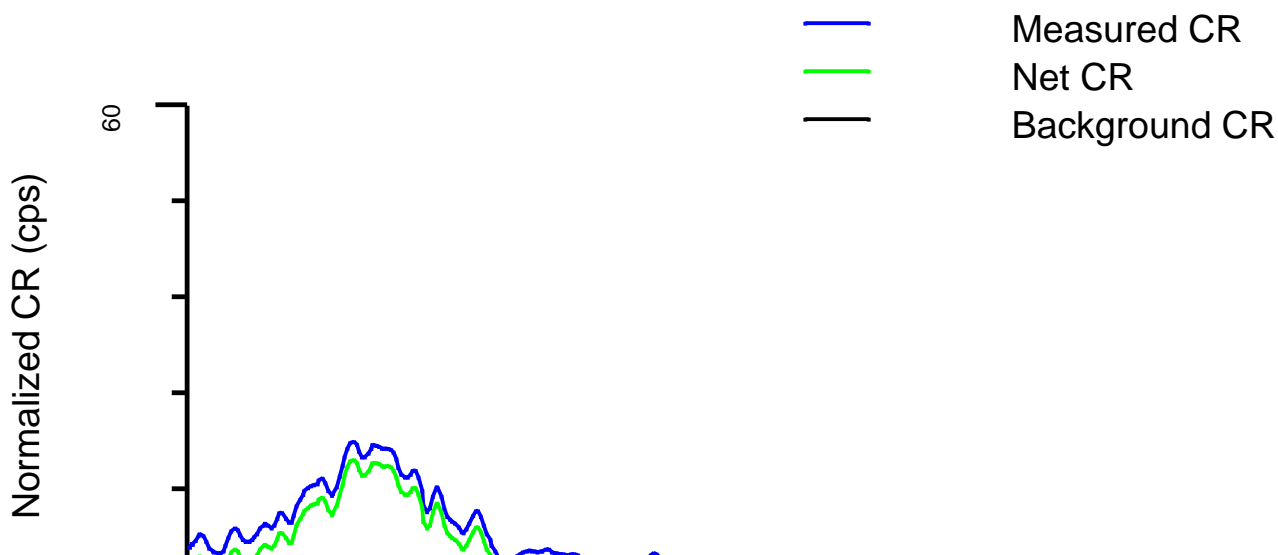
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
102	RST-Near	2775.8	2775.6	Yes	3.0	0.2

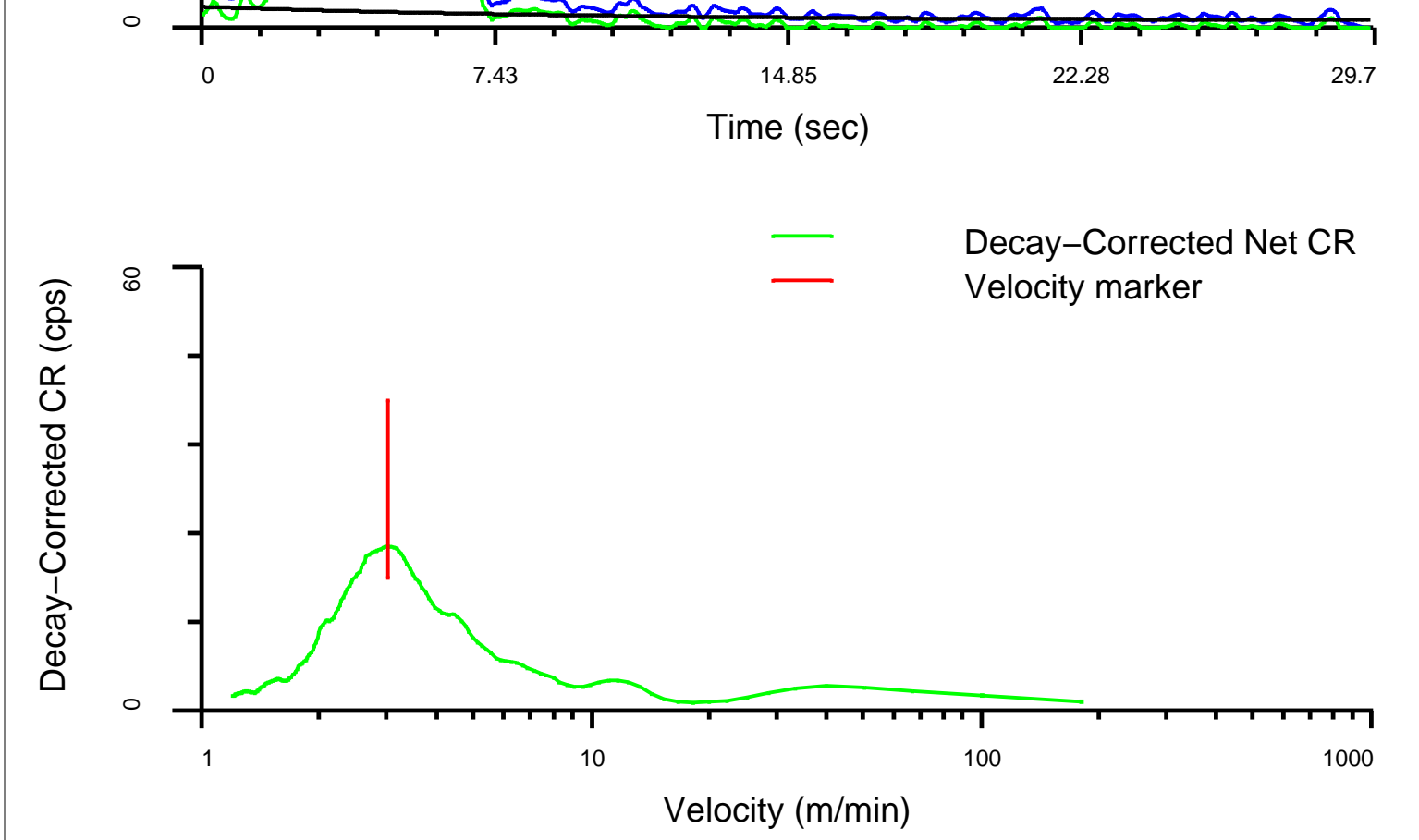
Data Acquired on: 09-Jul-2006 16:40

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:46

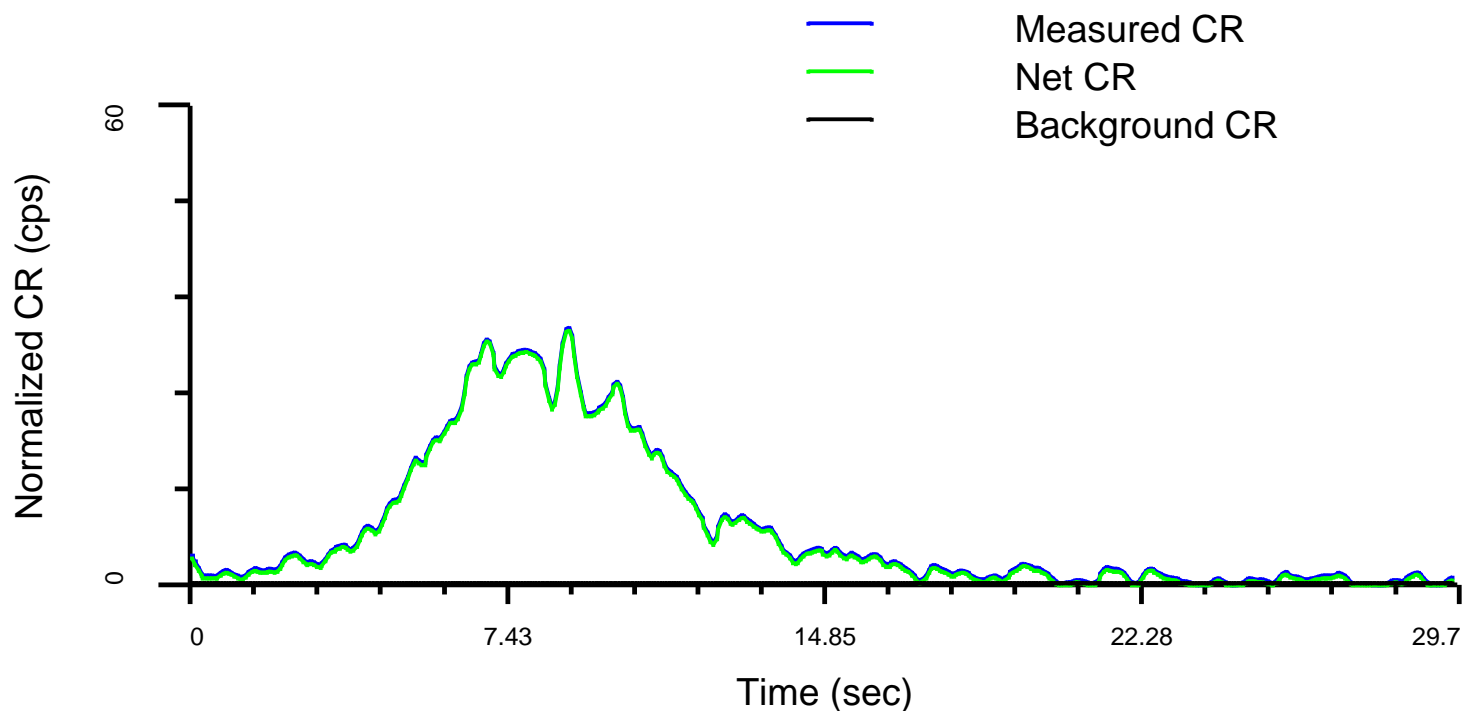
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
102	RST-Far	2775.8	2775.4	Yes	3.0	0.1

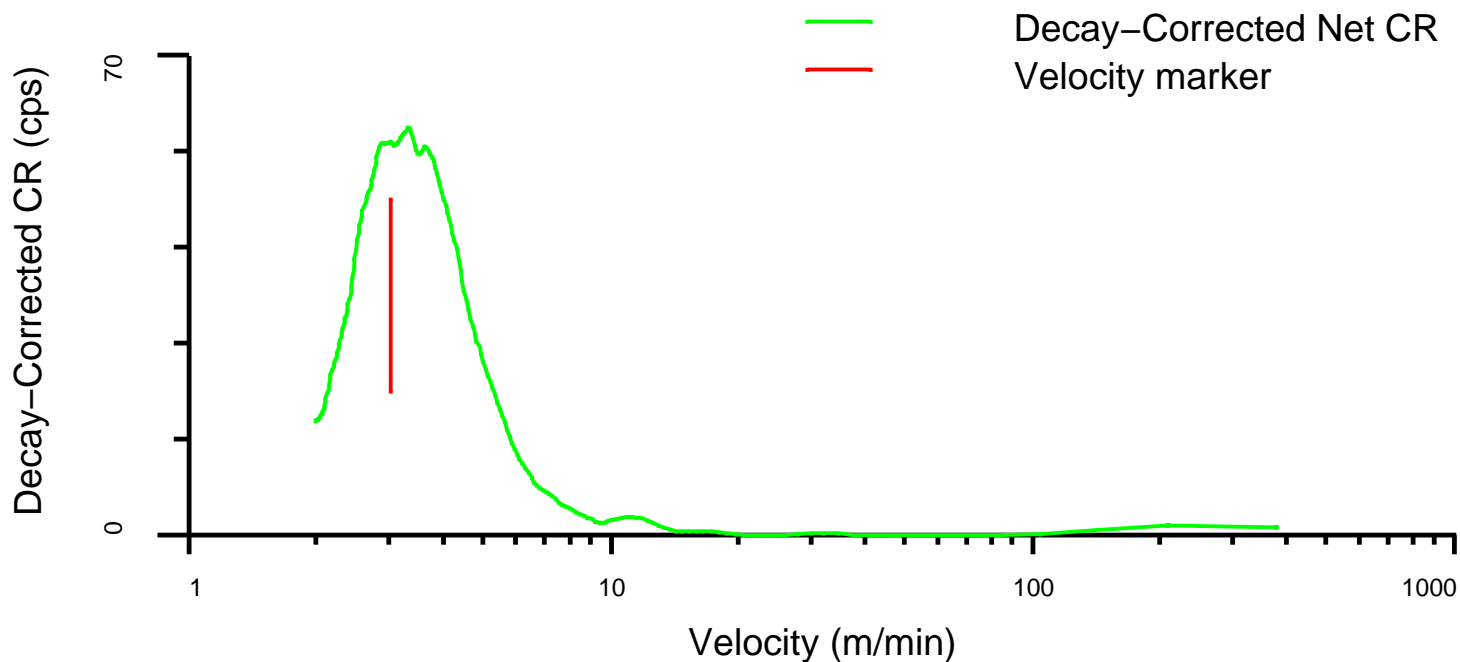
Data Acquired on: 09-Jul-2006 16:40

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:46

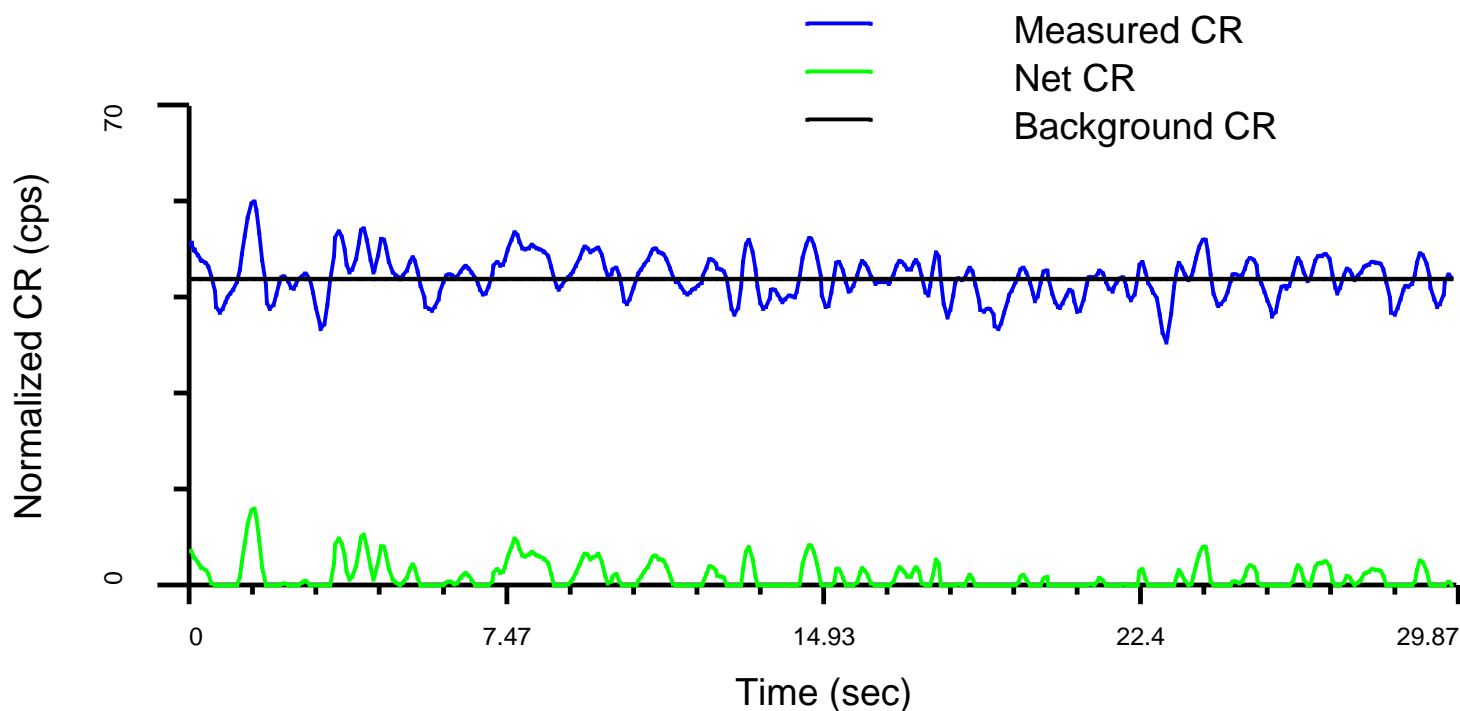
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
102	PBMS-GR	2775.8	2770.6	Unknown	207.0	---

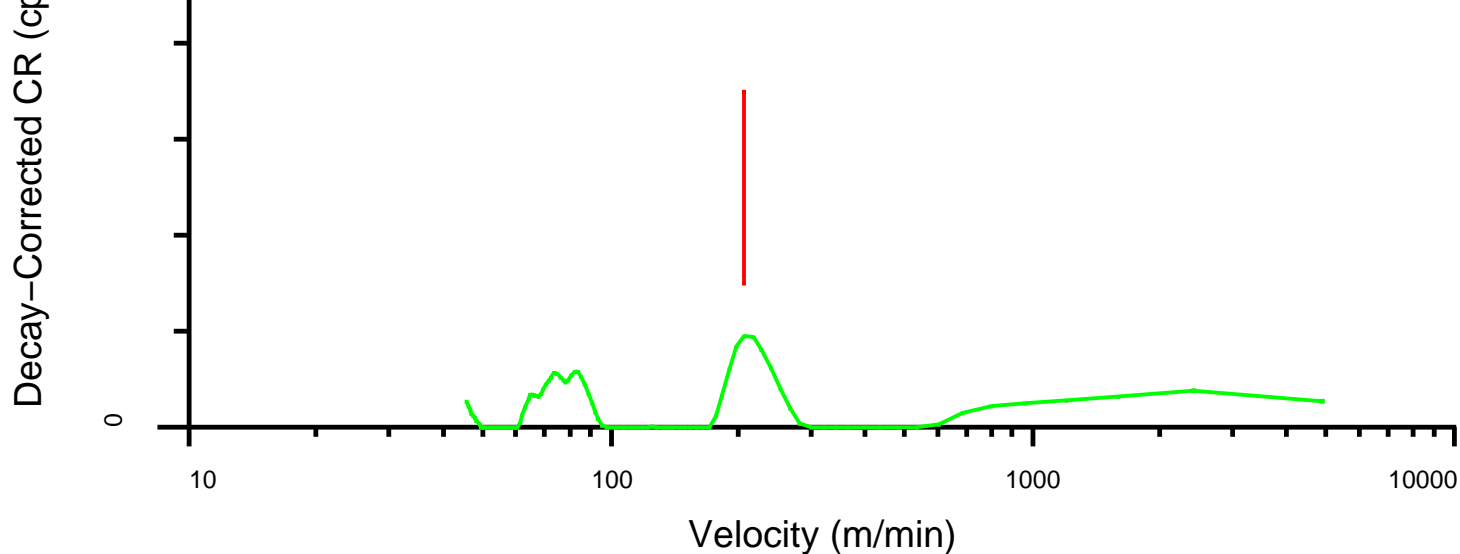
Data Acquired on: 09-Jul-2006 16:40

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





Schlumberger

Flowing RST-WFL
Station 2775.5m Normal

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 16:38

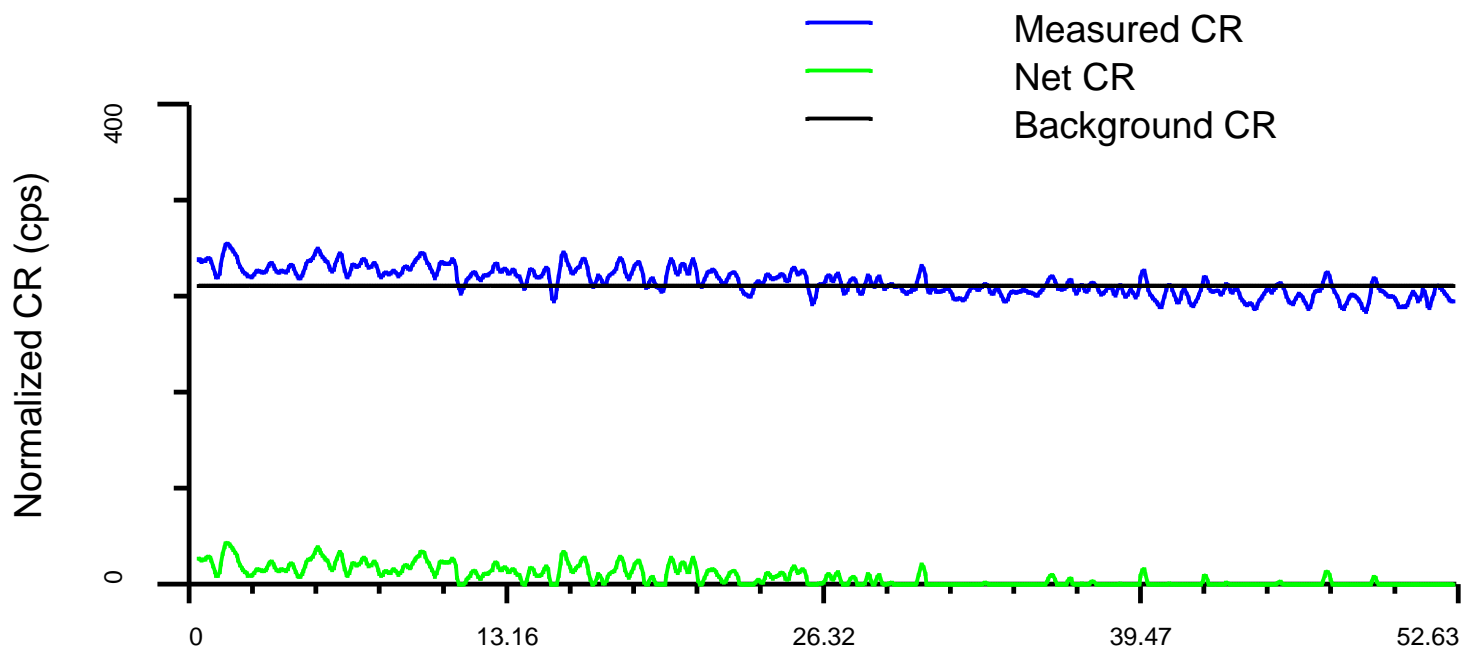
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
101	WPGR	2775.8	2780.2	Unknown	-169.4	17.8

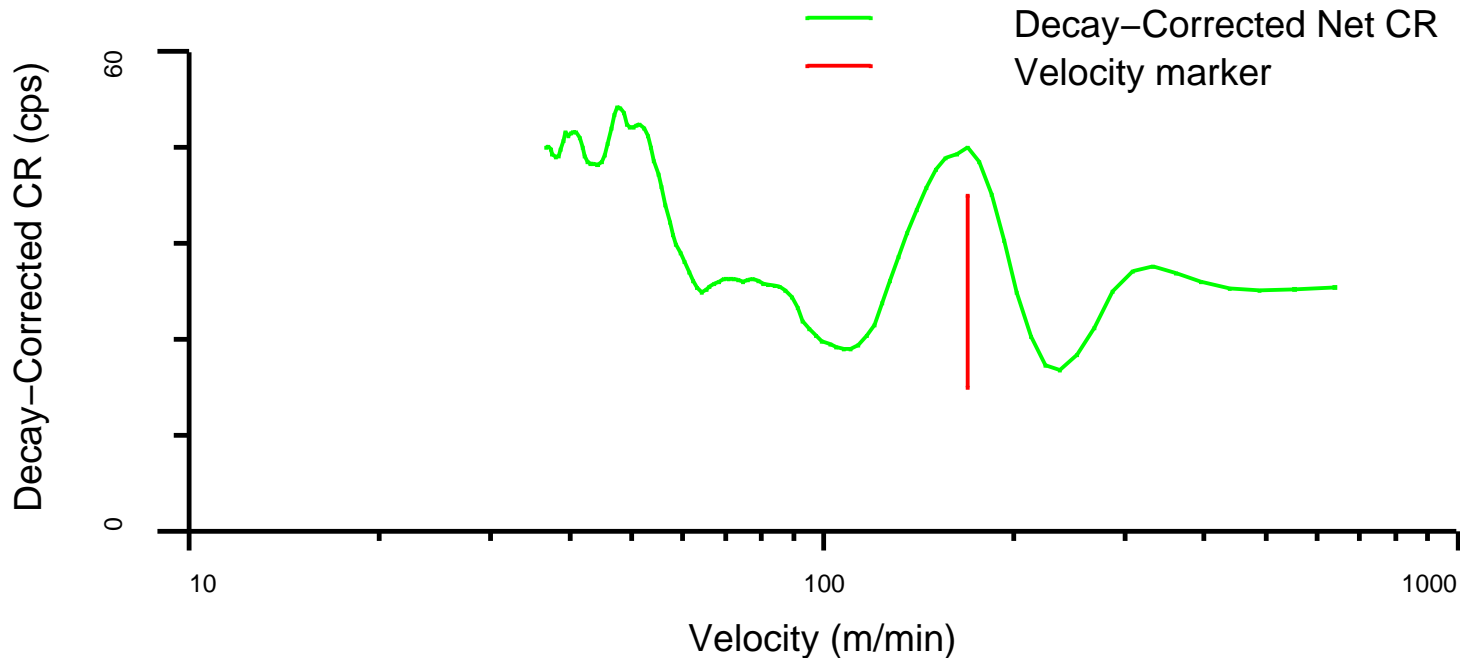
Data Acquired on: 09-Jul-2006 16:28

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:38

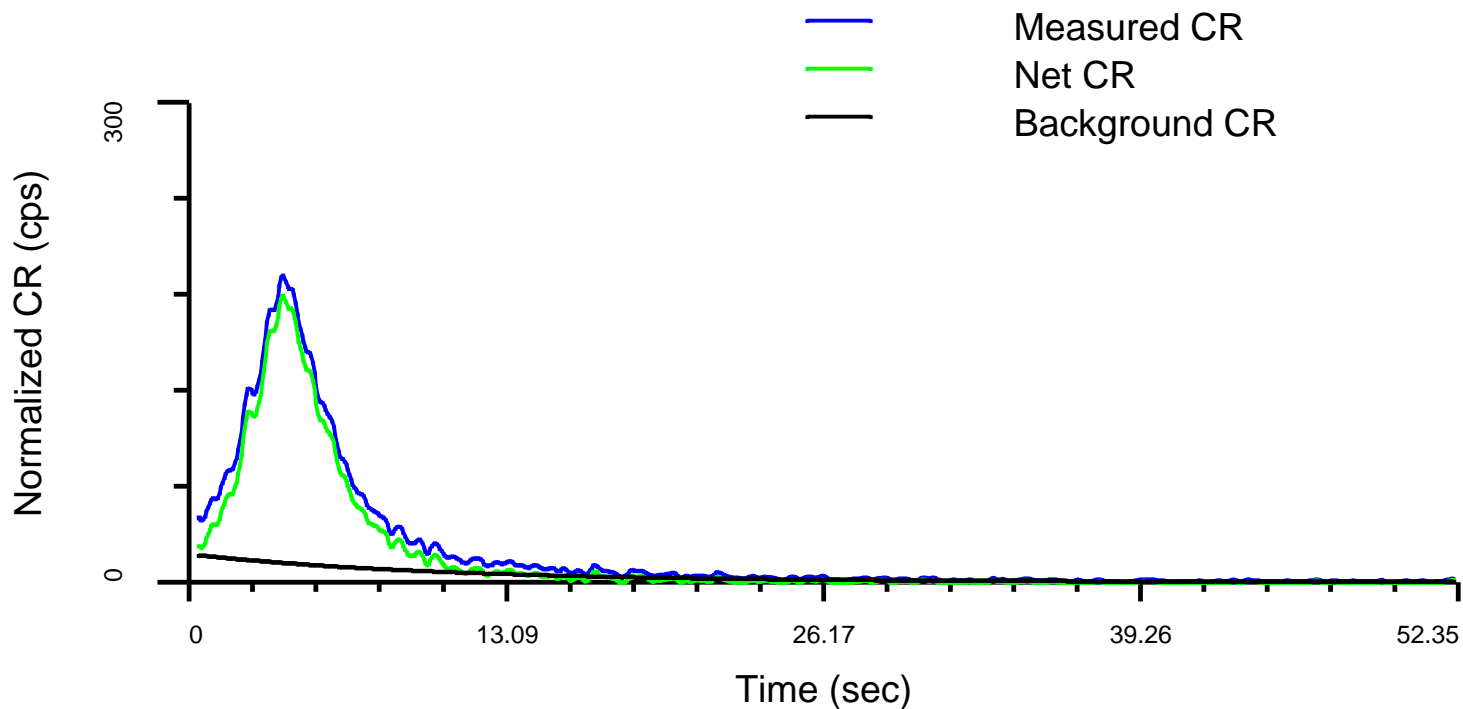
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
101	RST-Near	2775.8	2775.6	Yes	3.2	0.1

Data Acquired on: 09-Jul-2006 16:28

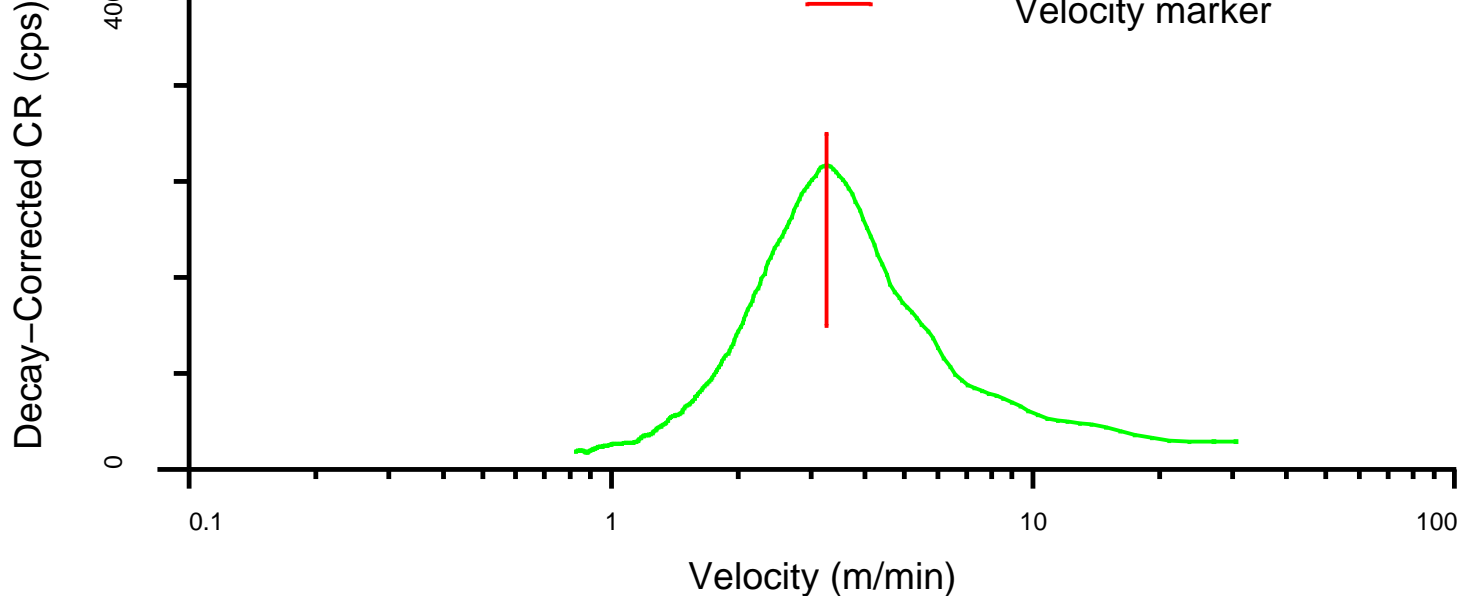
Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10



Decay-Corrected Net CR



RST WFL Station Summary

09-Jul-2006 16:38

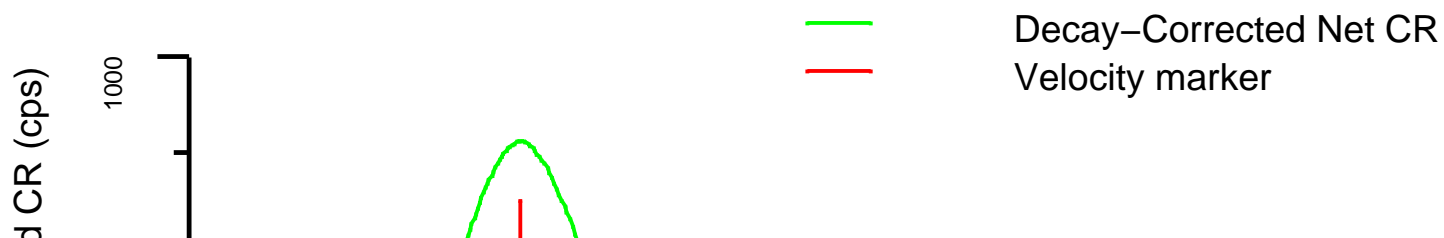
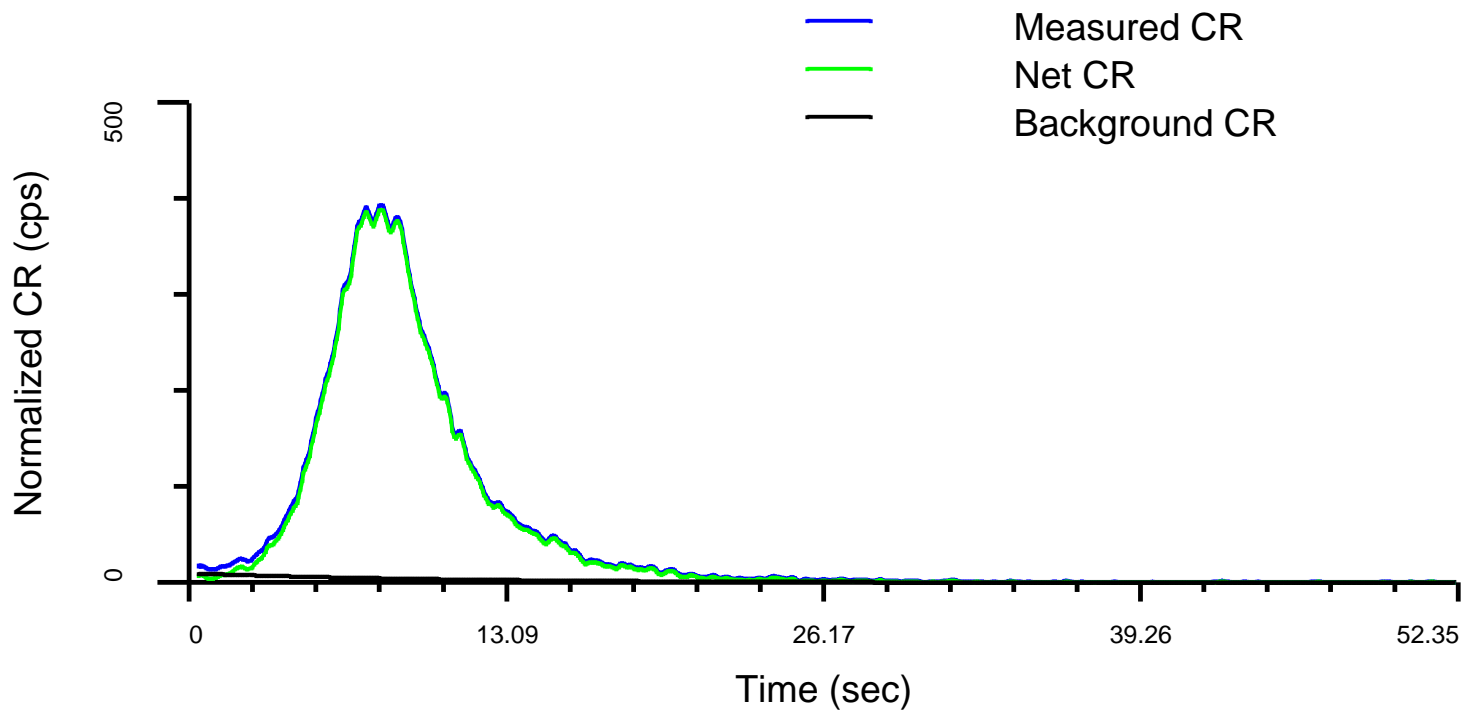
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
101	RST-Far	2775.8	2775.4	Yes	3.3	0.0

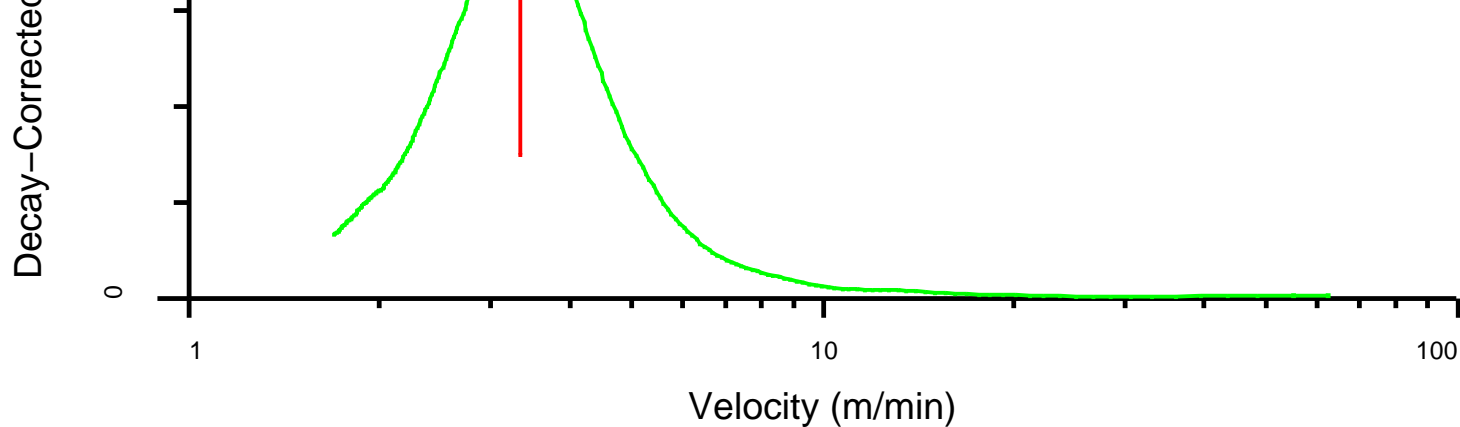
Data Acquired on: 09-Jul-2006 16:28

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On – 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:38

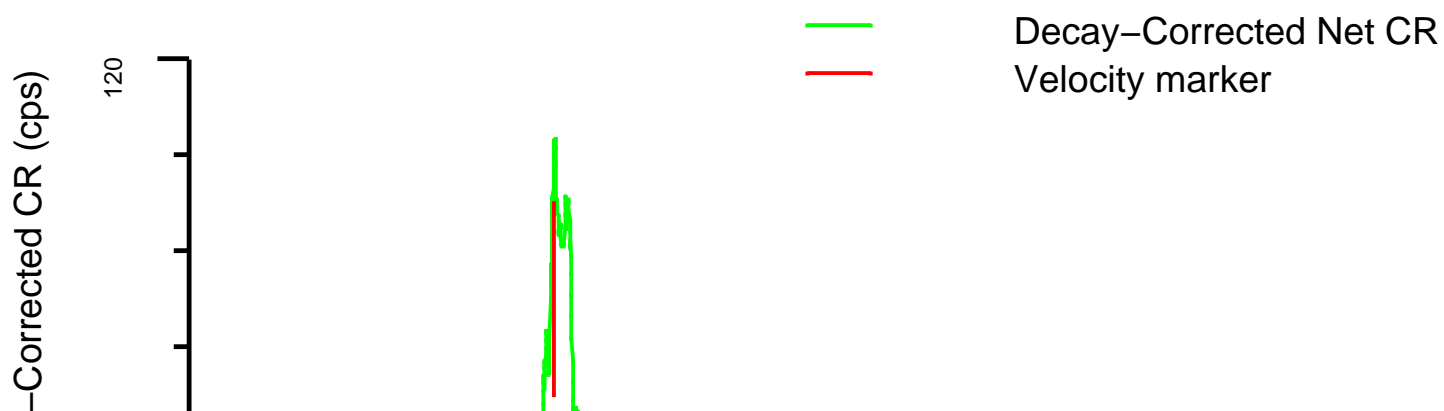
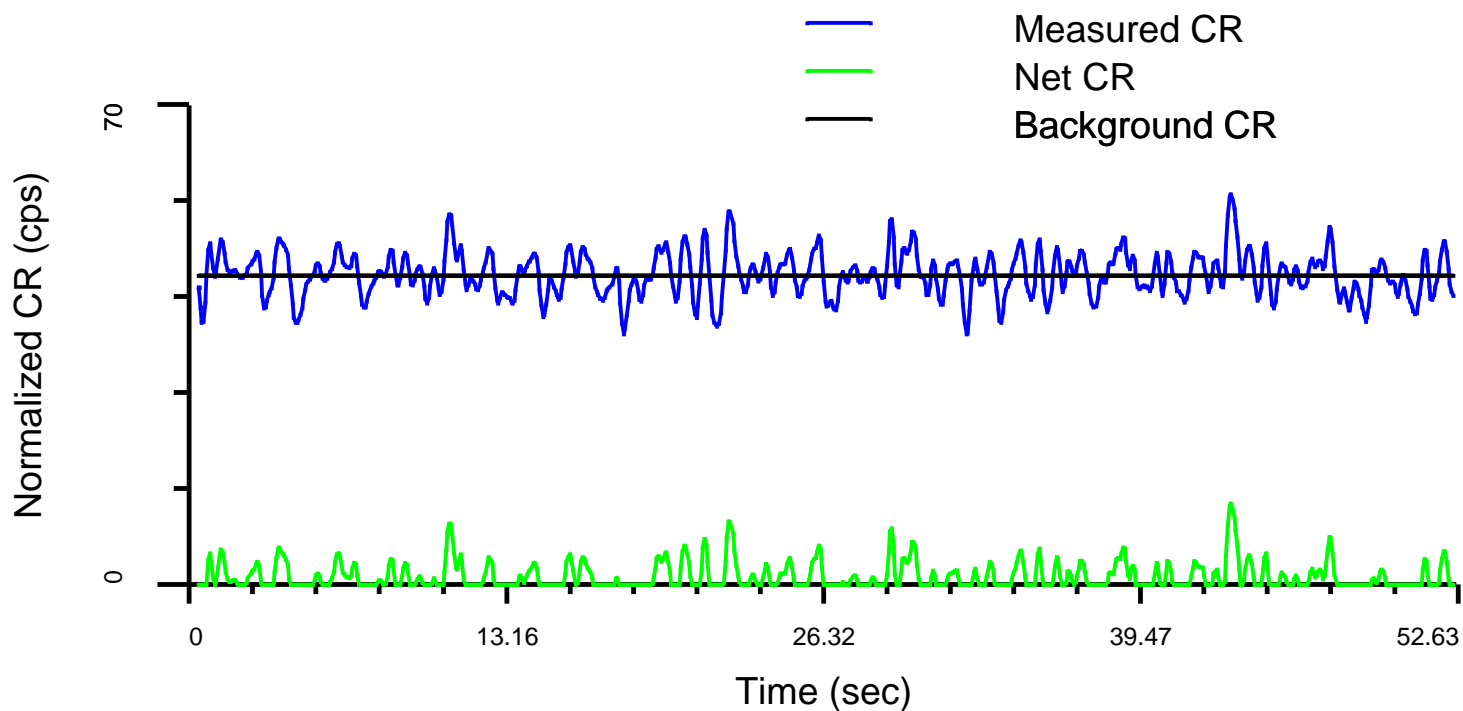
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
101	PBMS-GR	2775.8	2770.6	Unknown	7.3	12.0

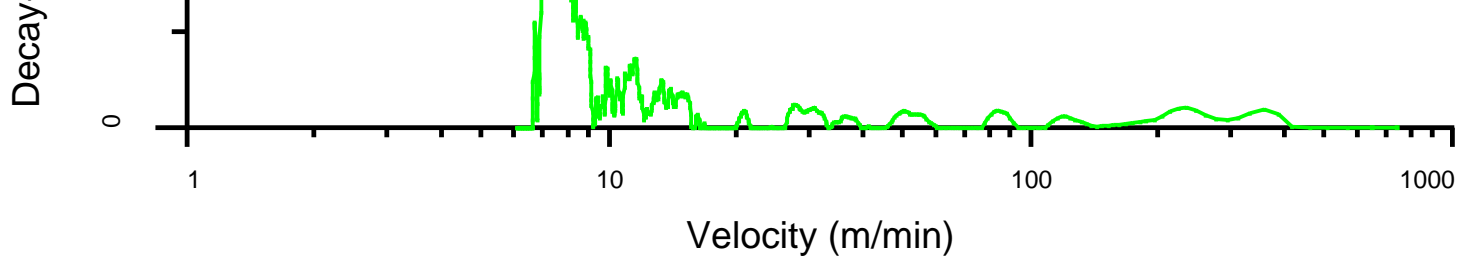
Data Acquired on: 09-Jul-2006 16:28

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





Schlumberger

Flowing RST-WFL
Station 2790.5m Slow

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 16:25

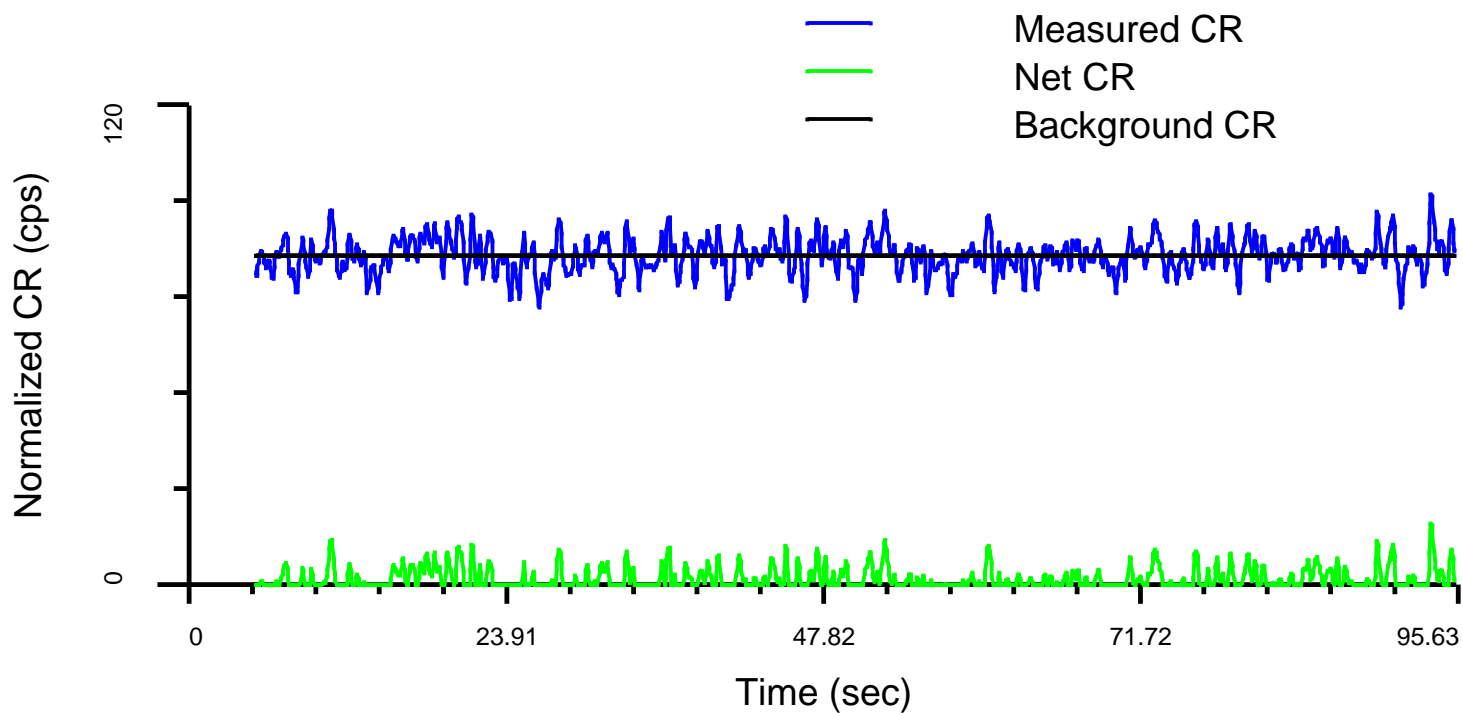
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
100	WPGR	2790.8	2795.2	No	---	---

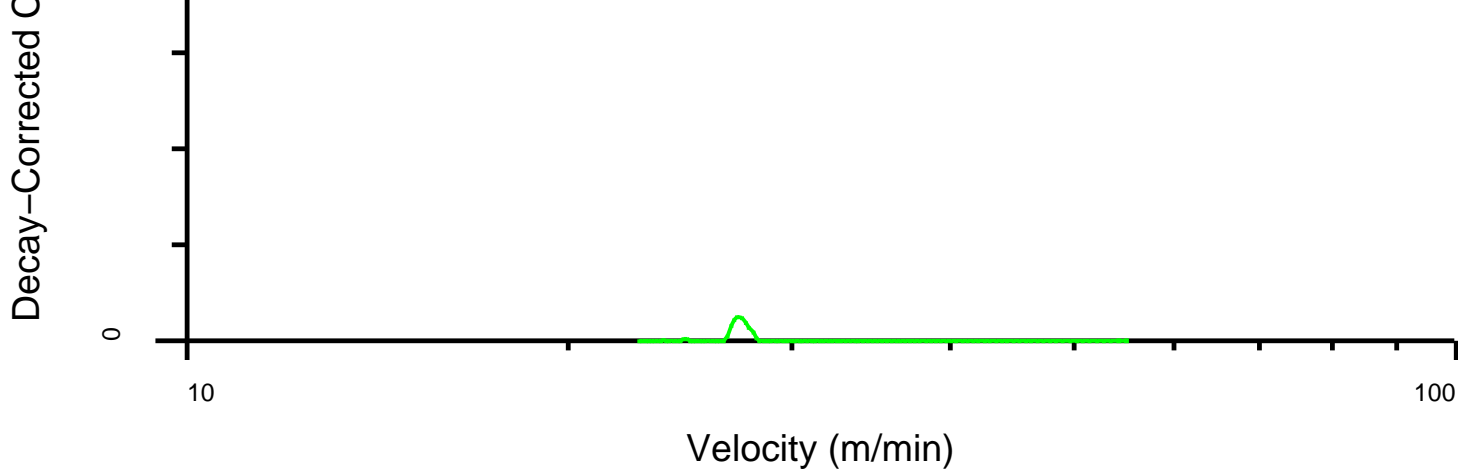
Data Acquired on: 09-Jul-2006 16:08

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:25

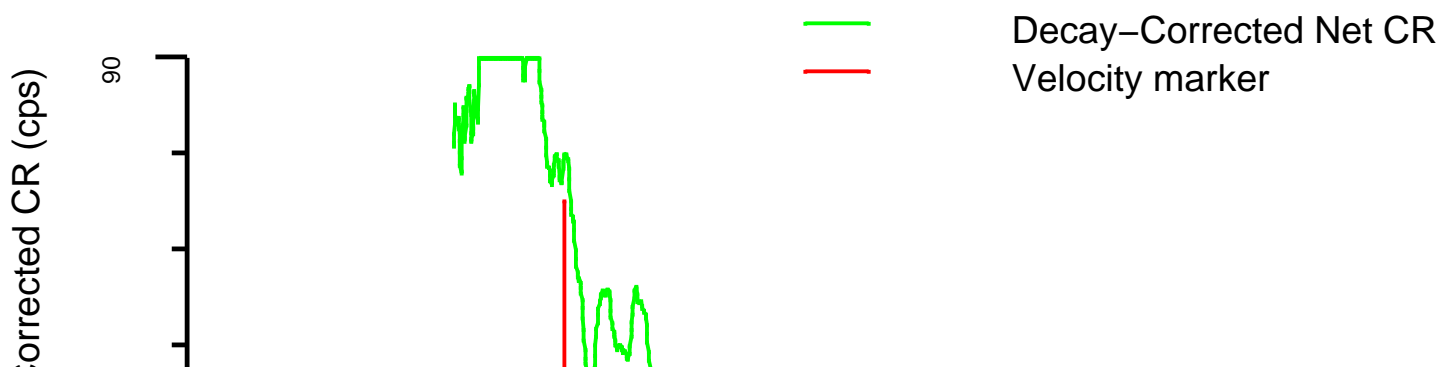
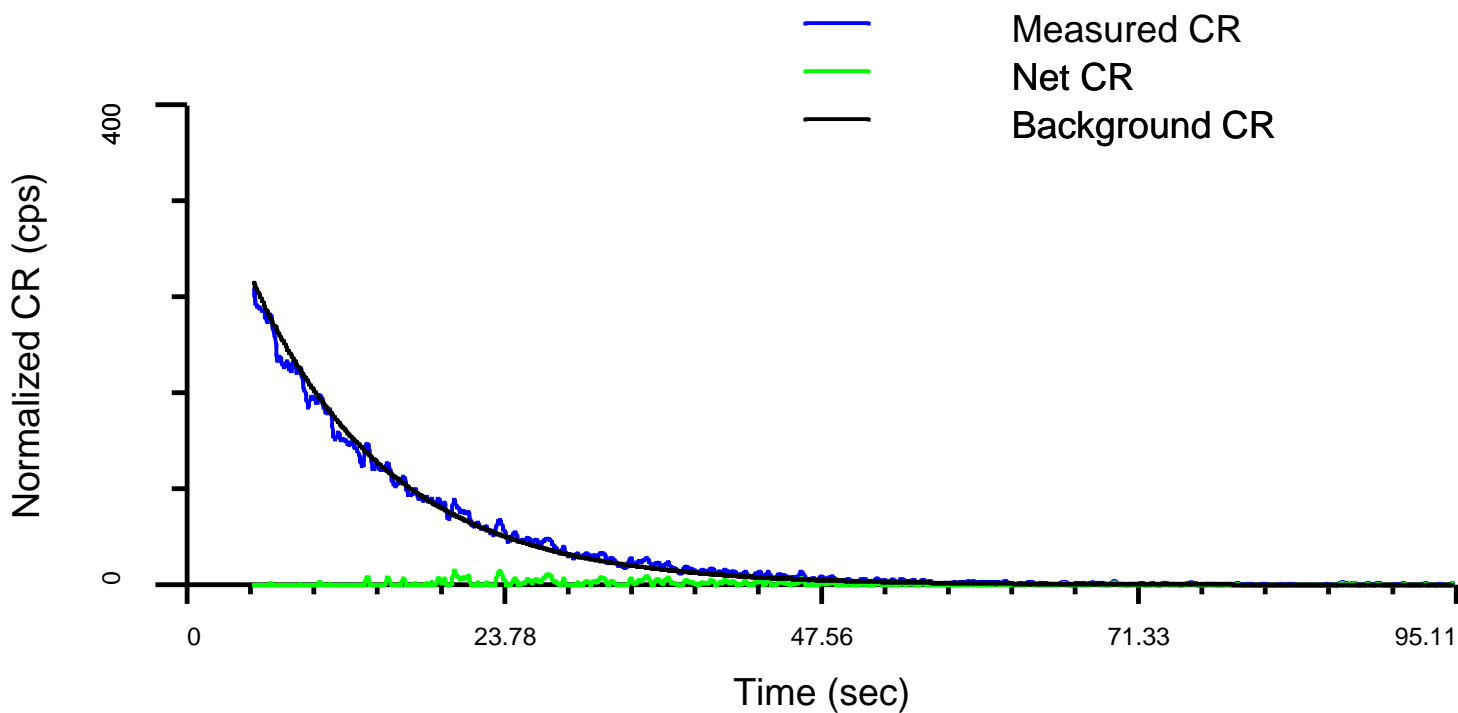
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
100	RST-Near	2790.8	2790.6	Unknown	0.4	0.2

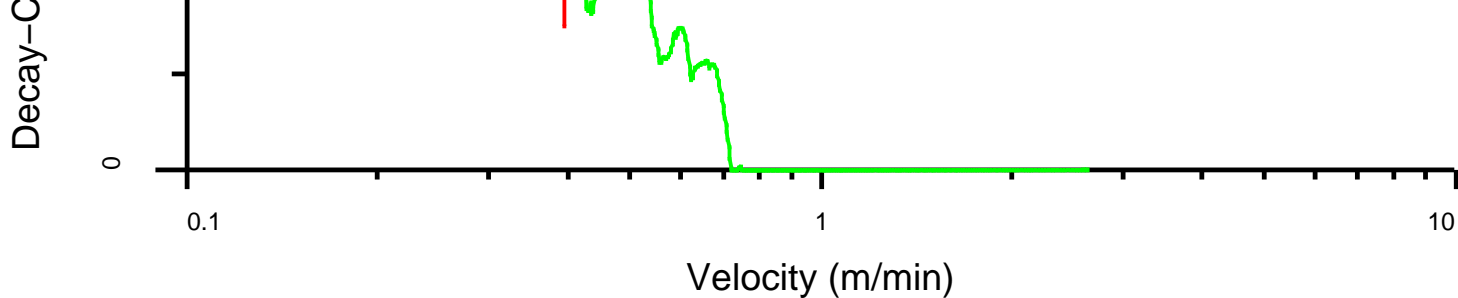
Data Acquired on: 09-Jul-2006 16:08

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 16:25

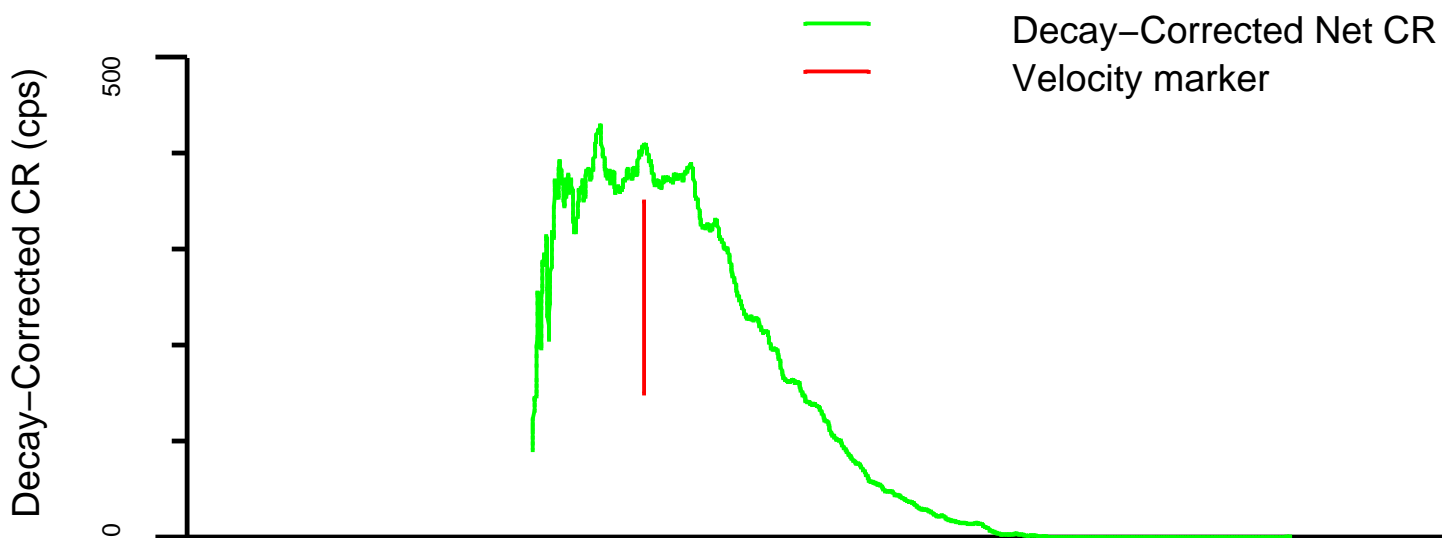
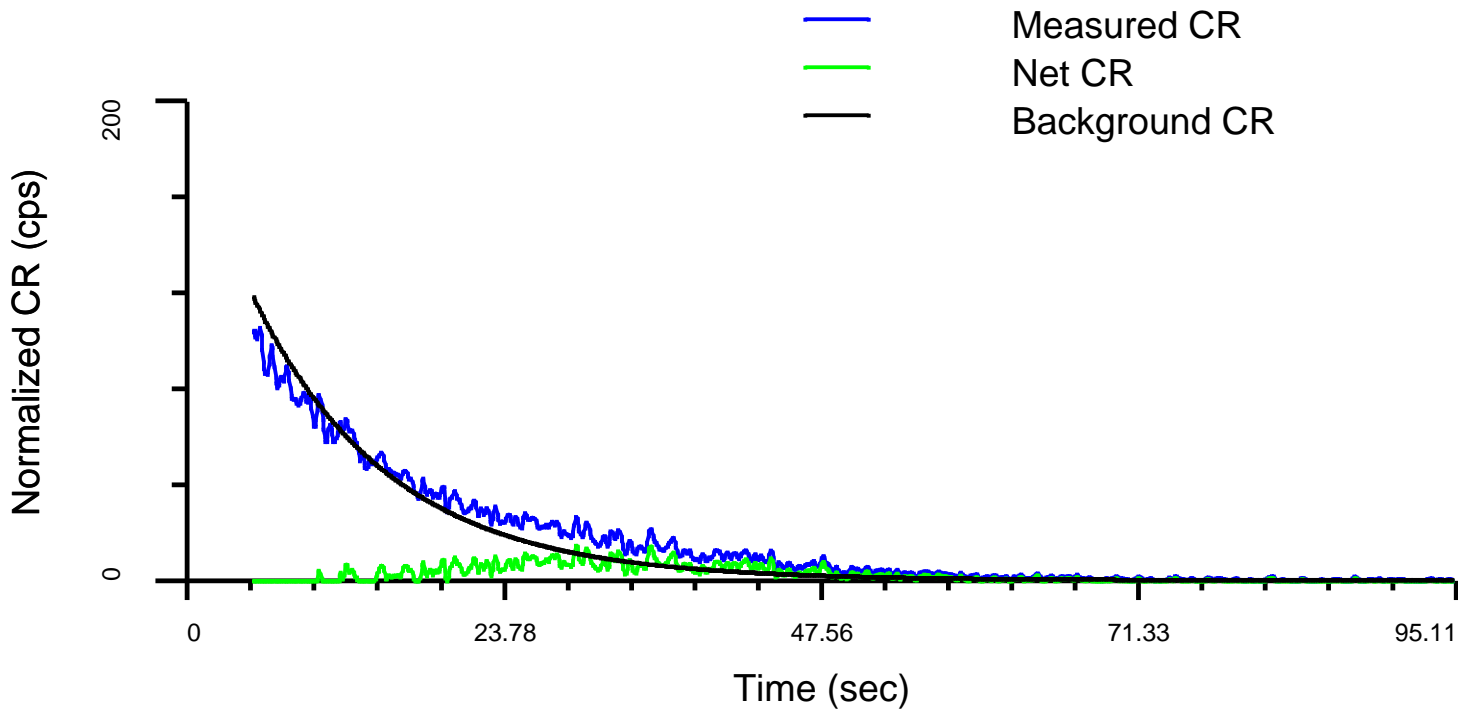
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
100	RST-Far	2790.8	2790.4	Yes	0.5	0.1

Data Acquired on: 09-Jul-2006 16:08

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10



0.1

1

10

Velocity (m/min)

RST WFL Station Summary**09-Jul-2006 16:25**

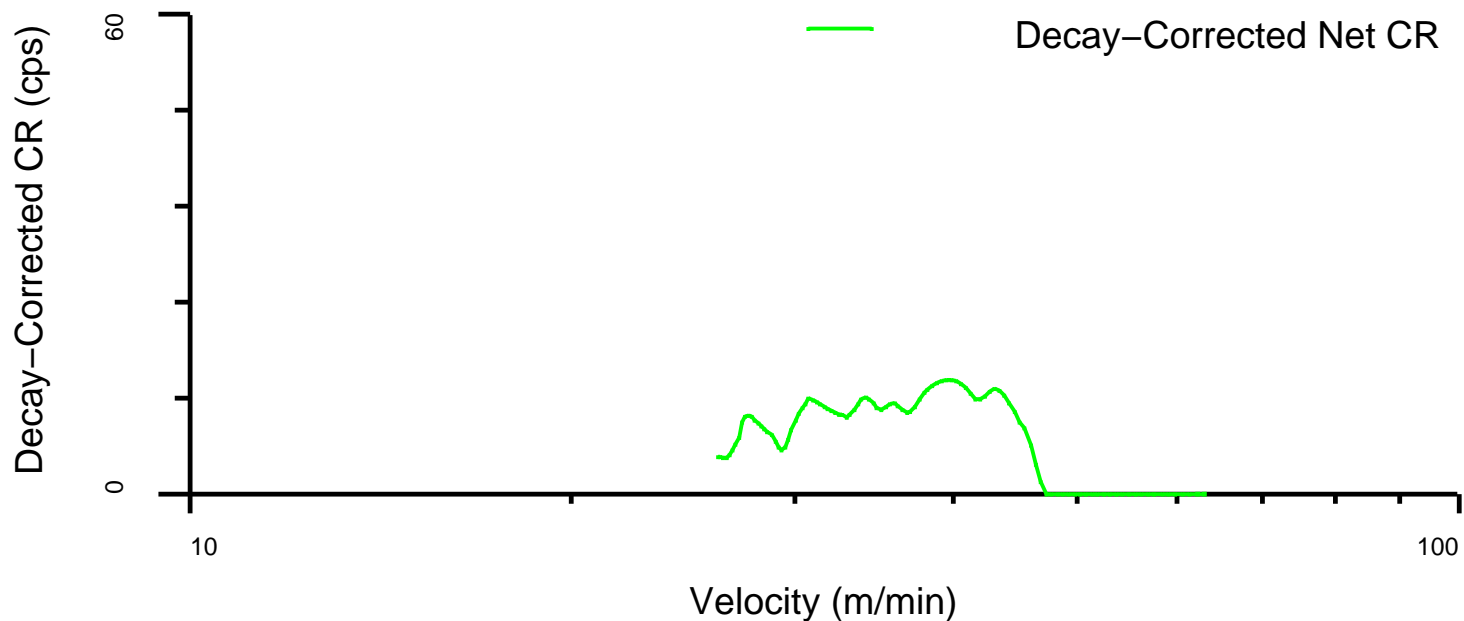
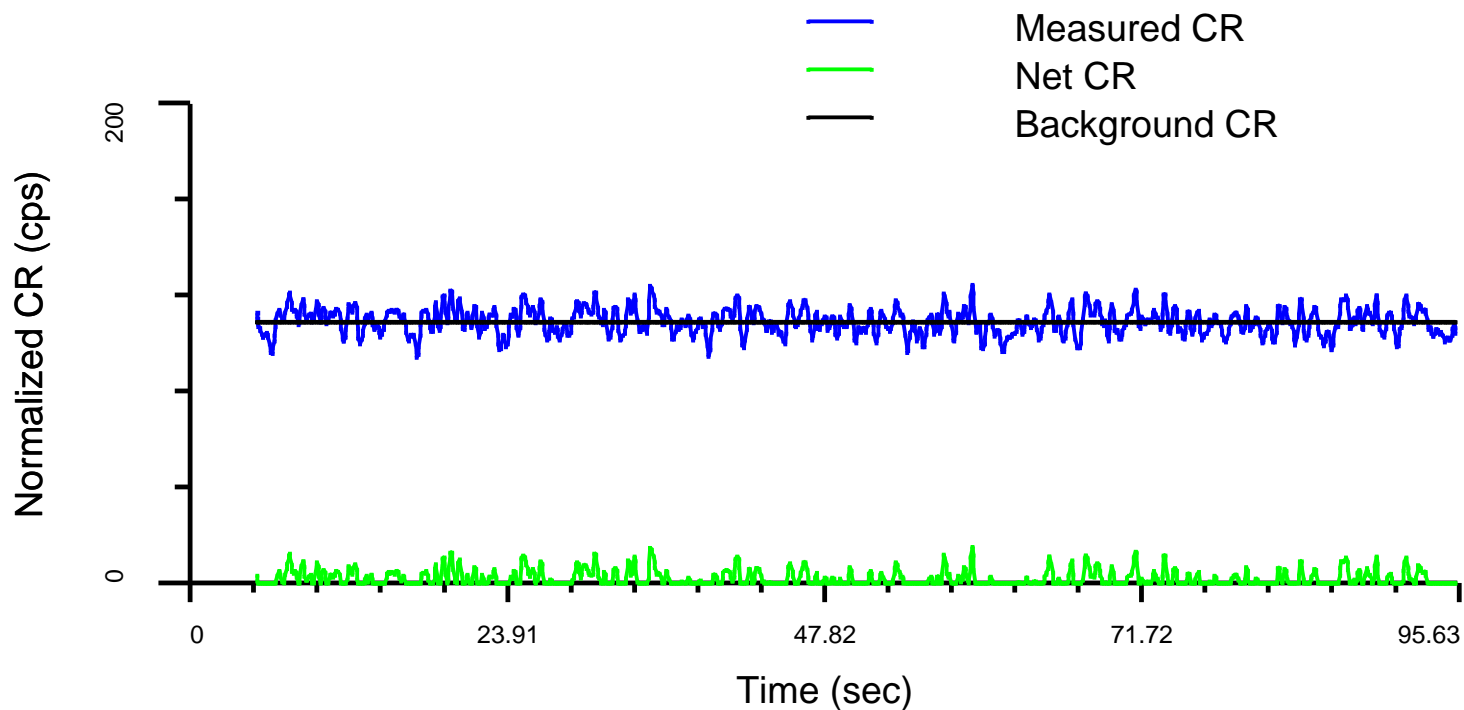
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
100	PBMS-GR	2790.8	2785.6	No	---	---

Data Acquired on: 09-Jul-2006 16:08

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 16:05

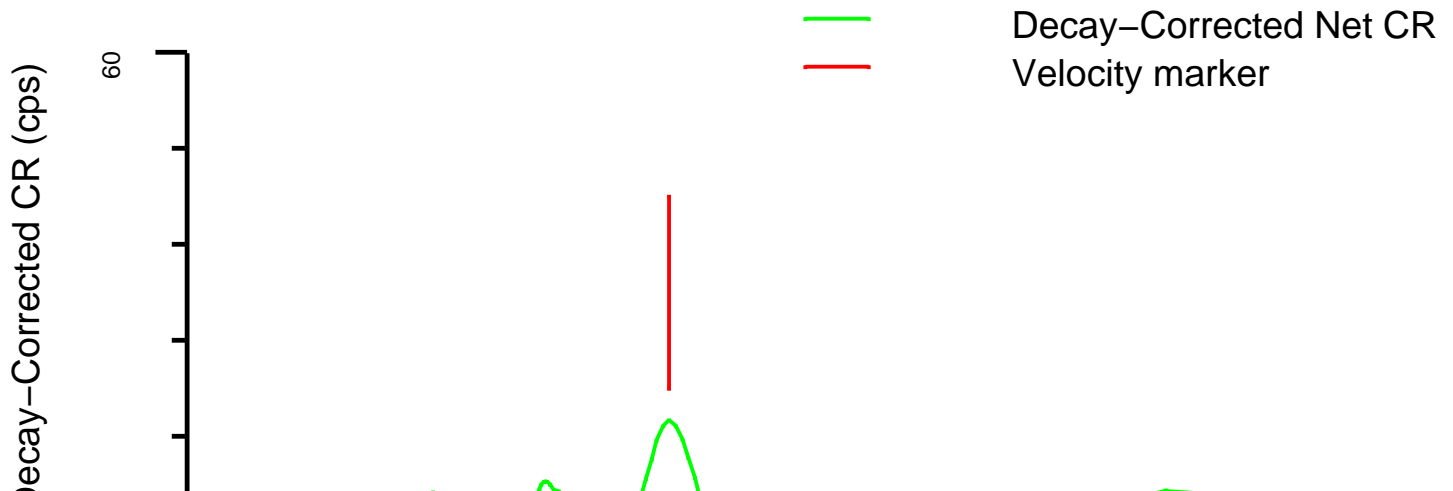
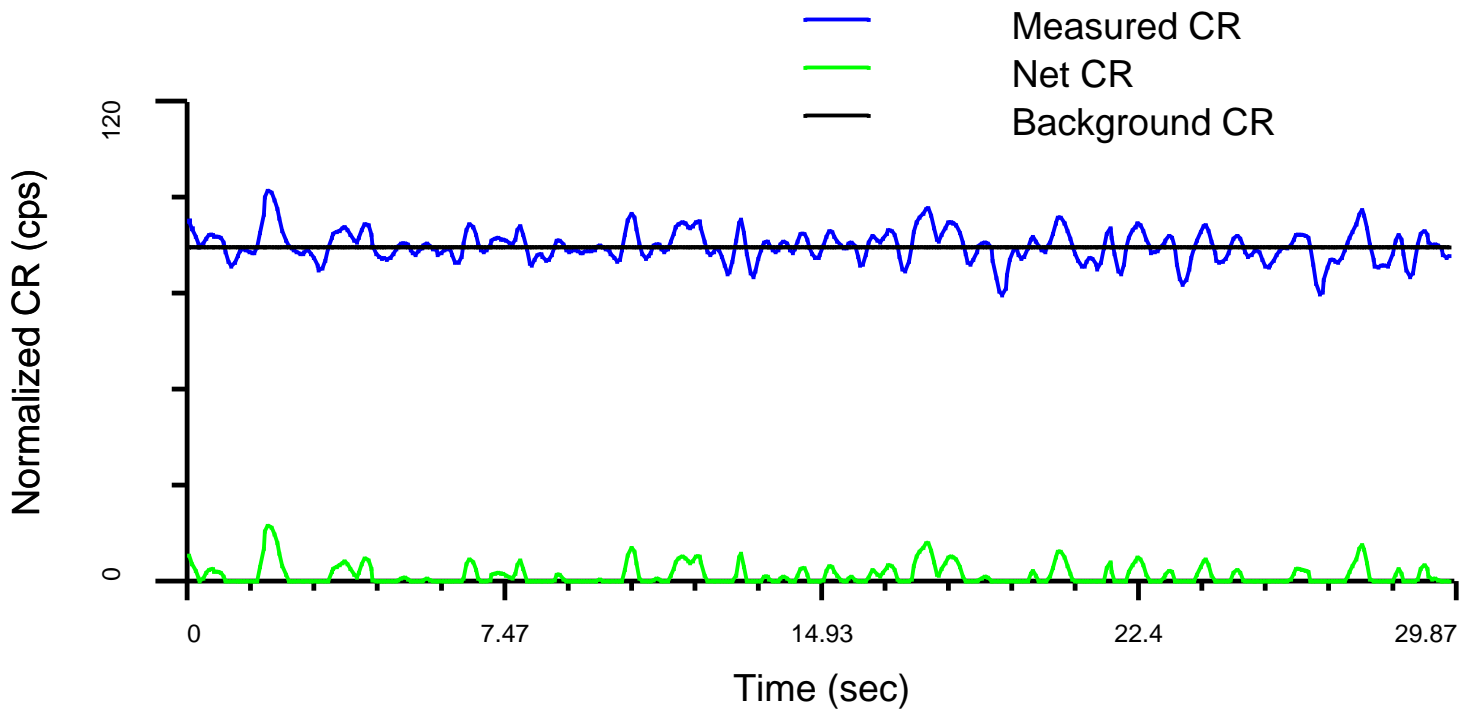
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
099	WPGR	2790.8	2795.2	Unknown	-138.3	---

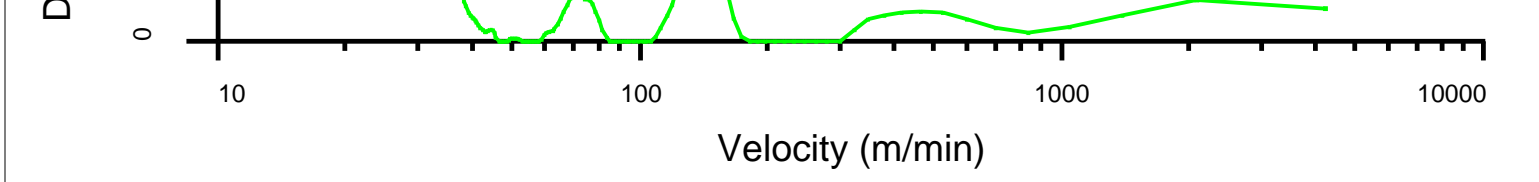
Data Acquired on: 09-Jul-2006 15:59

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 12



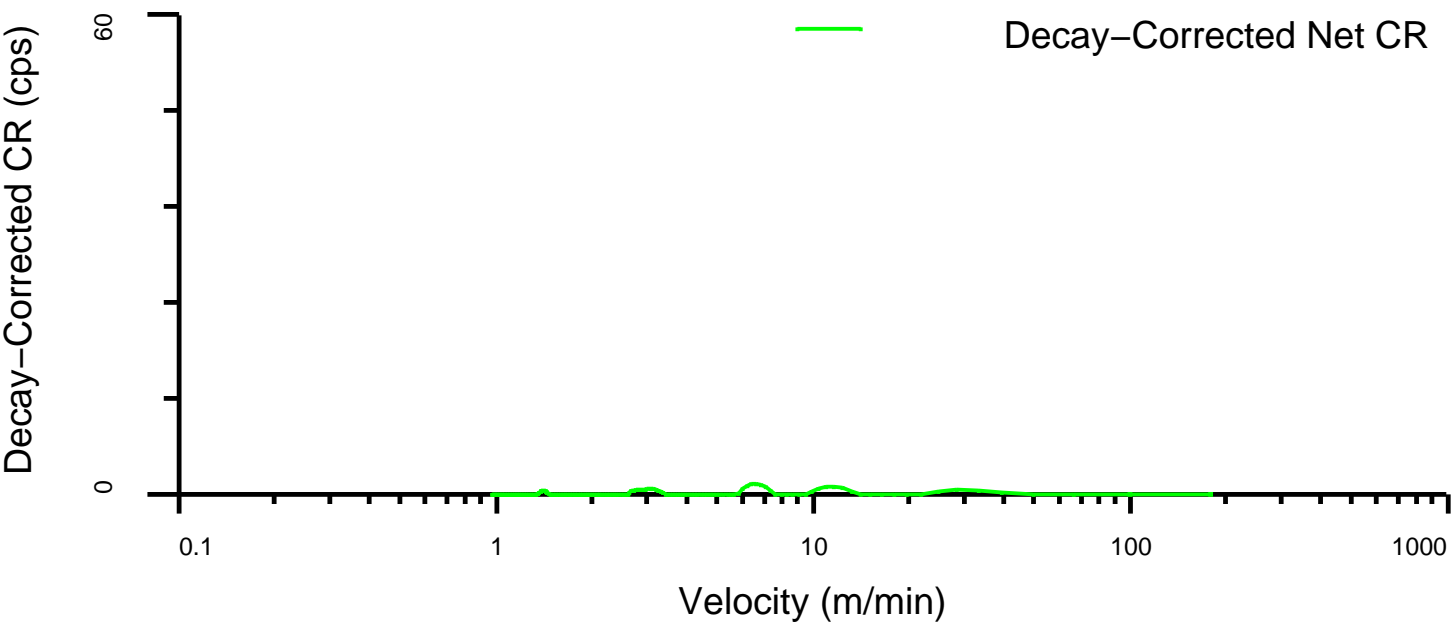
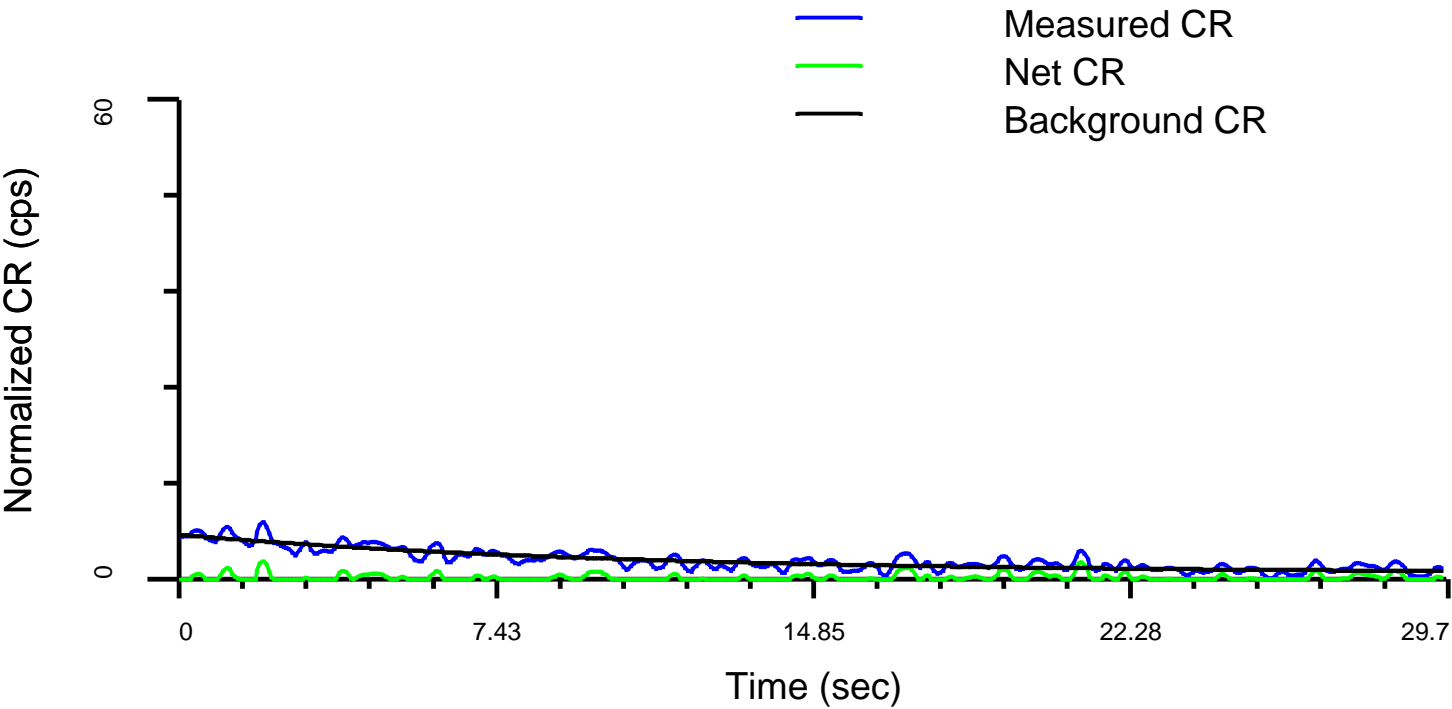


RST WFL Station Summary

09-Jul-2006 16:05

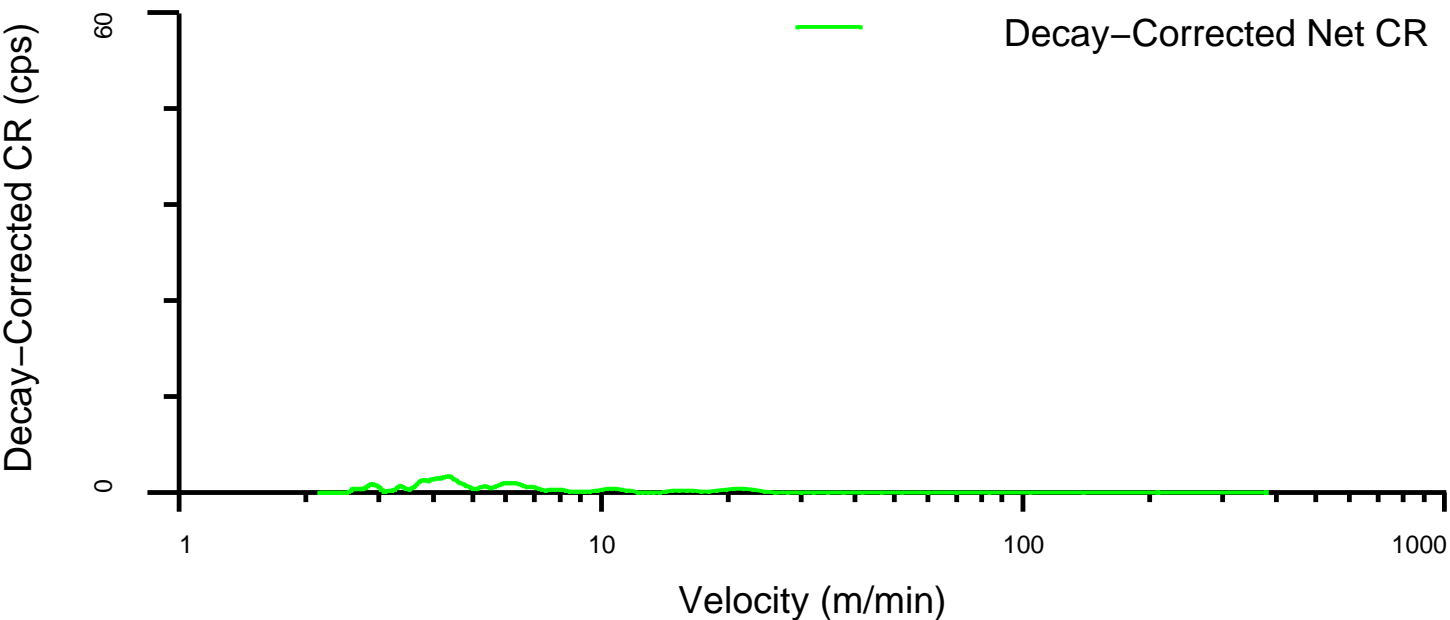
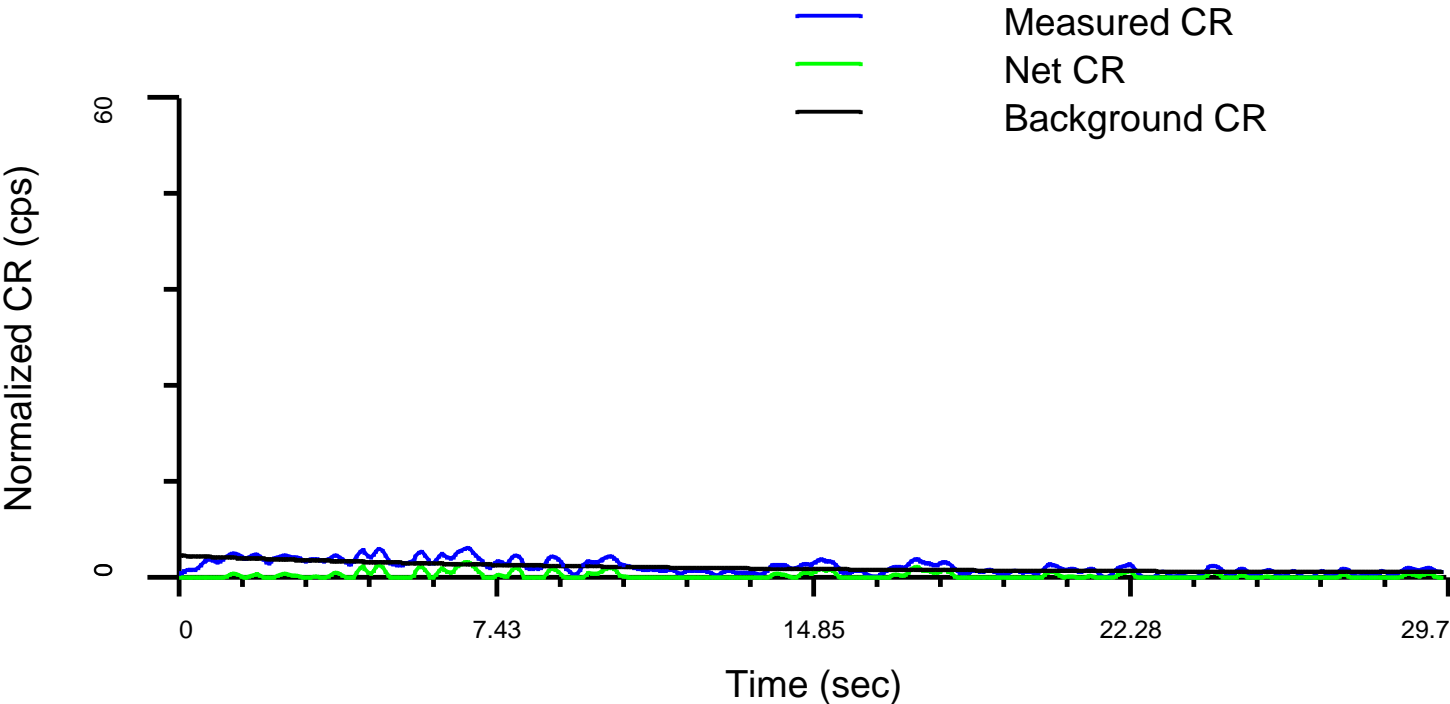
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
099	RST-Near	2790.8	2790.6	No	---	---

Data Acquired on: 09-Jul-2006 15:59
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 0.07 sec On - 29.87 sec Off
Number of WFL Cycles: 12



Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
099	RST-Far	2790.8	2790.4	No	---	---

Data Acquired on: 09-Jul-2006 15:59
Detector is above Minitrone (sensitive to Up Flow)
WFL Subcycle Time: 0.07 sec On - 29.87 sec Off
Number of WFL Cycles: 12



Log File Number	WFL Detector	Start Depth	Stop Depth	Flow Detected	Velocity	Velocity Error
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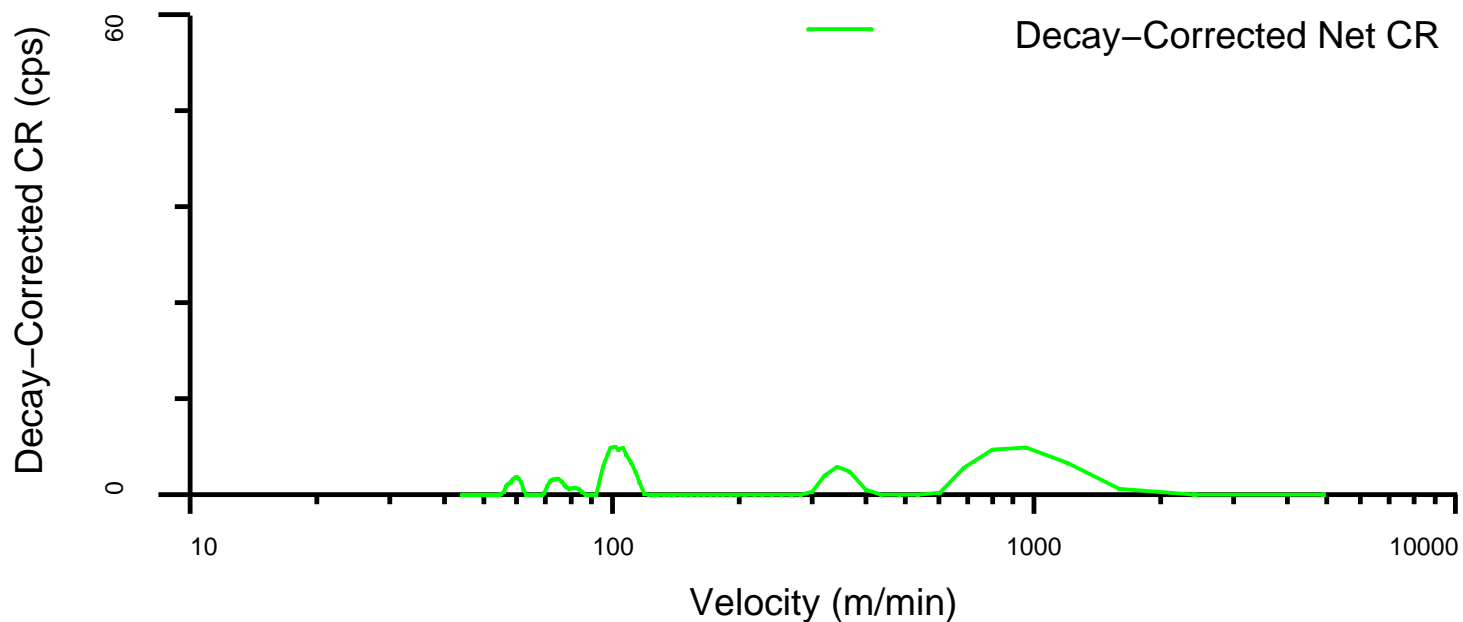
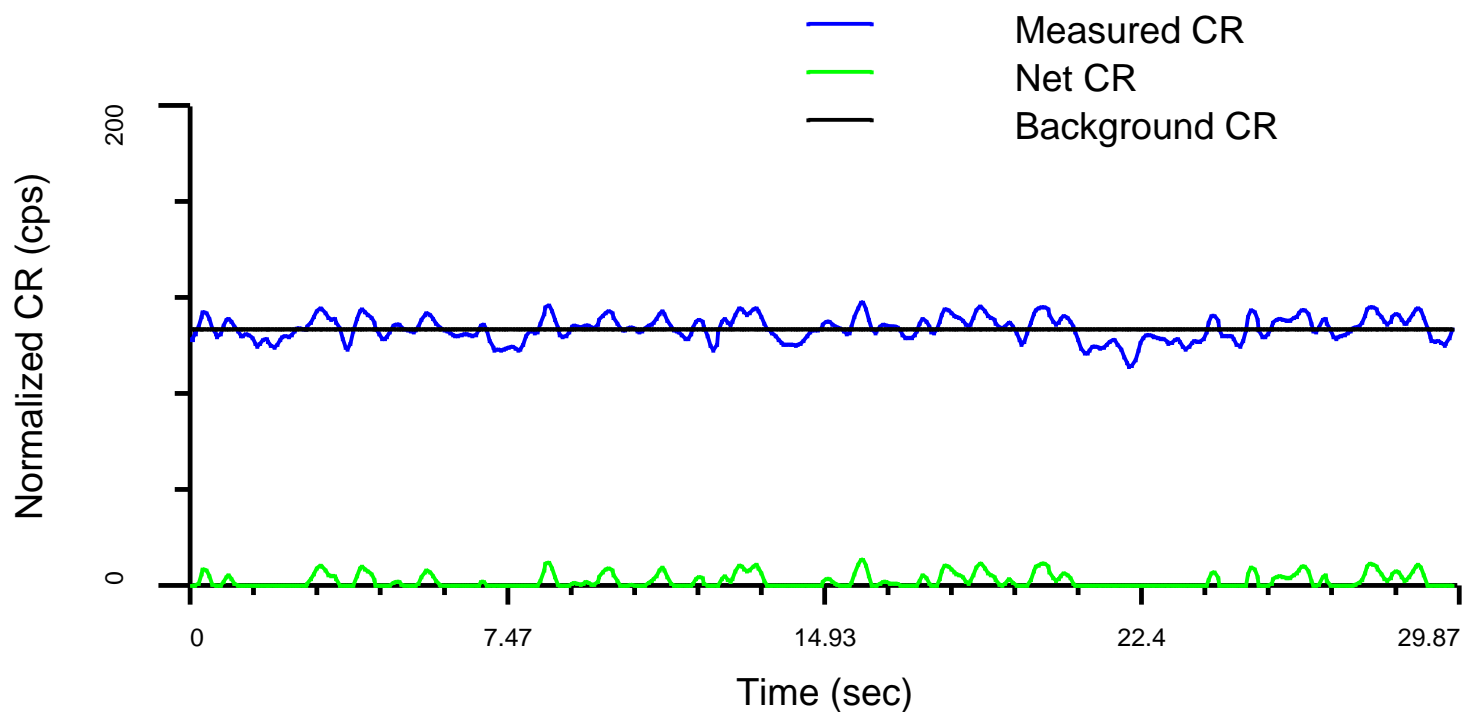
Number	Detector	Depth (m)	Depth (m)	Detected	(m/min)	Error (m/min)
099	PBMS-GR	2790.8	2785.6	No	---	---

Data Acquired on: 09-Jul-2006 15:59

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 12

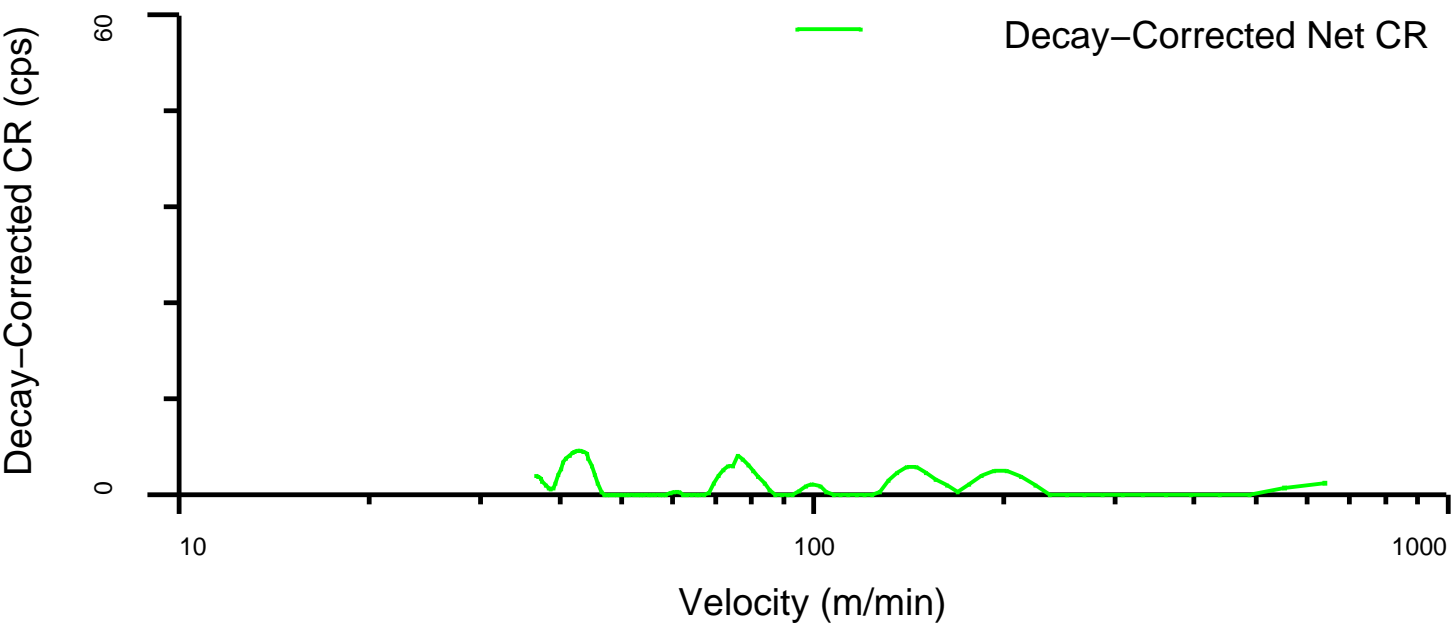
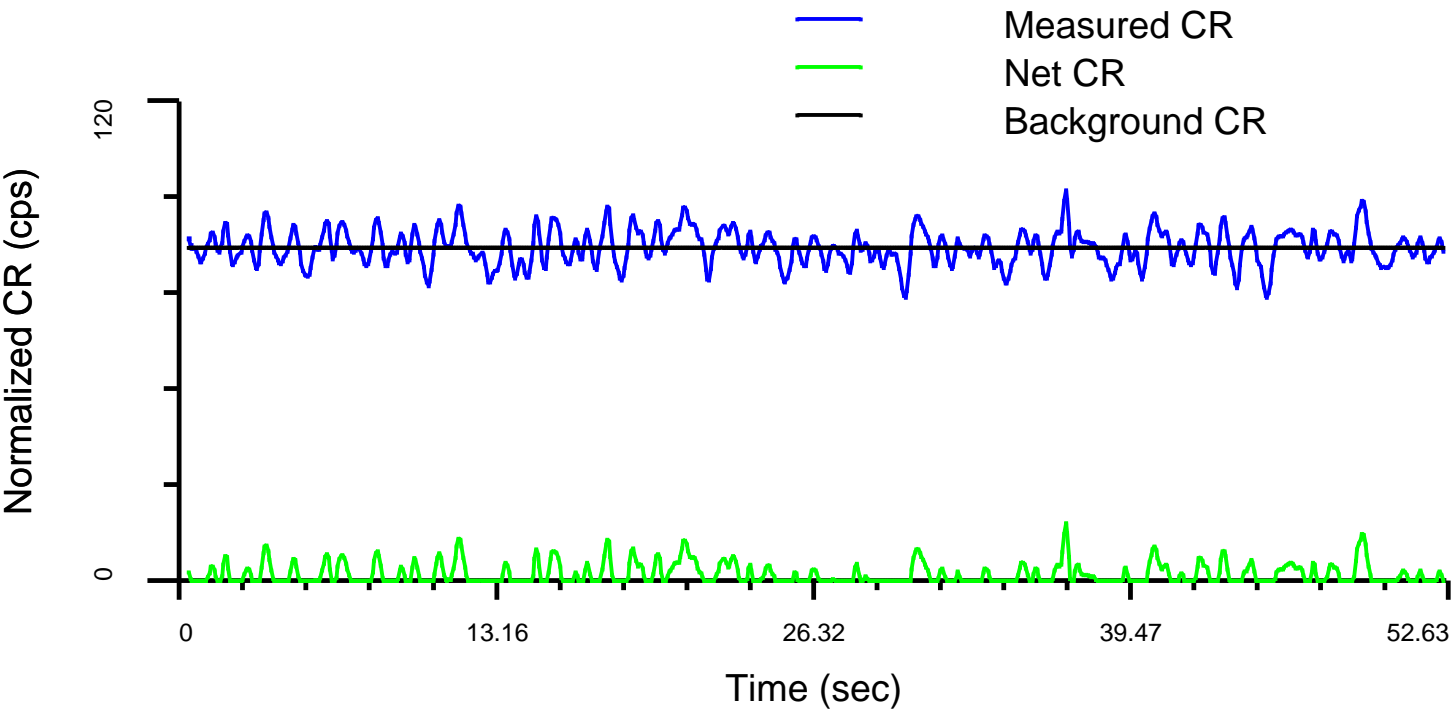


Schlumberger

Flowing RST-WFL
Station 2790.5m Normal

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
098	WPGR	2790.8	2795.2	No	---	---

Data Acquired on: 09-Jul-2006 15:47
Detector is below Minitron (sensitive to Down Flow)
WFL Subcycle Time: 0.80 sec On – 52.27 sec Off
Number of WFL Cycles: 10



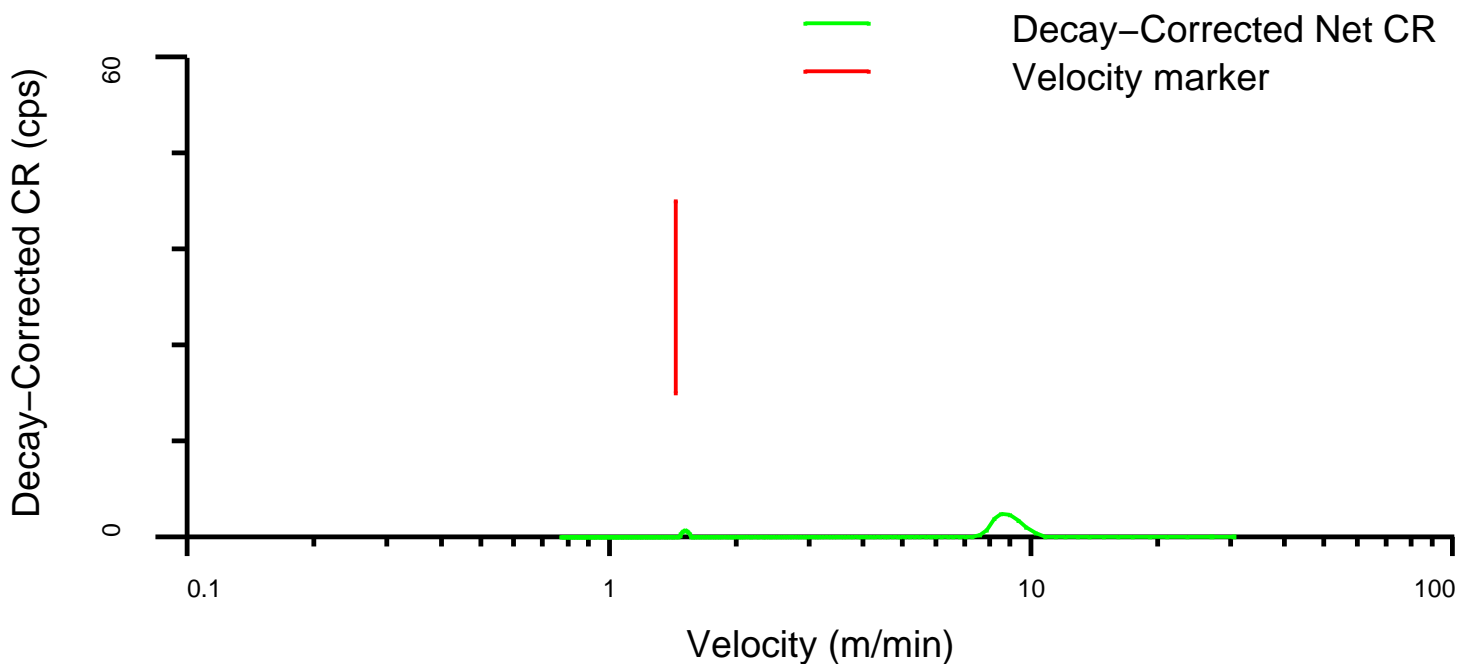
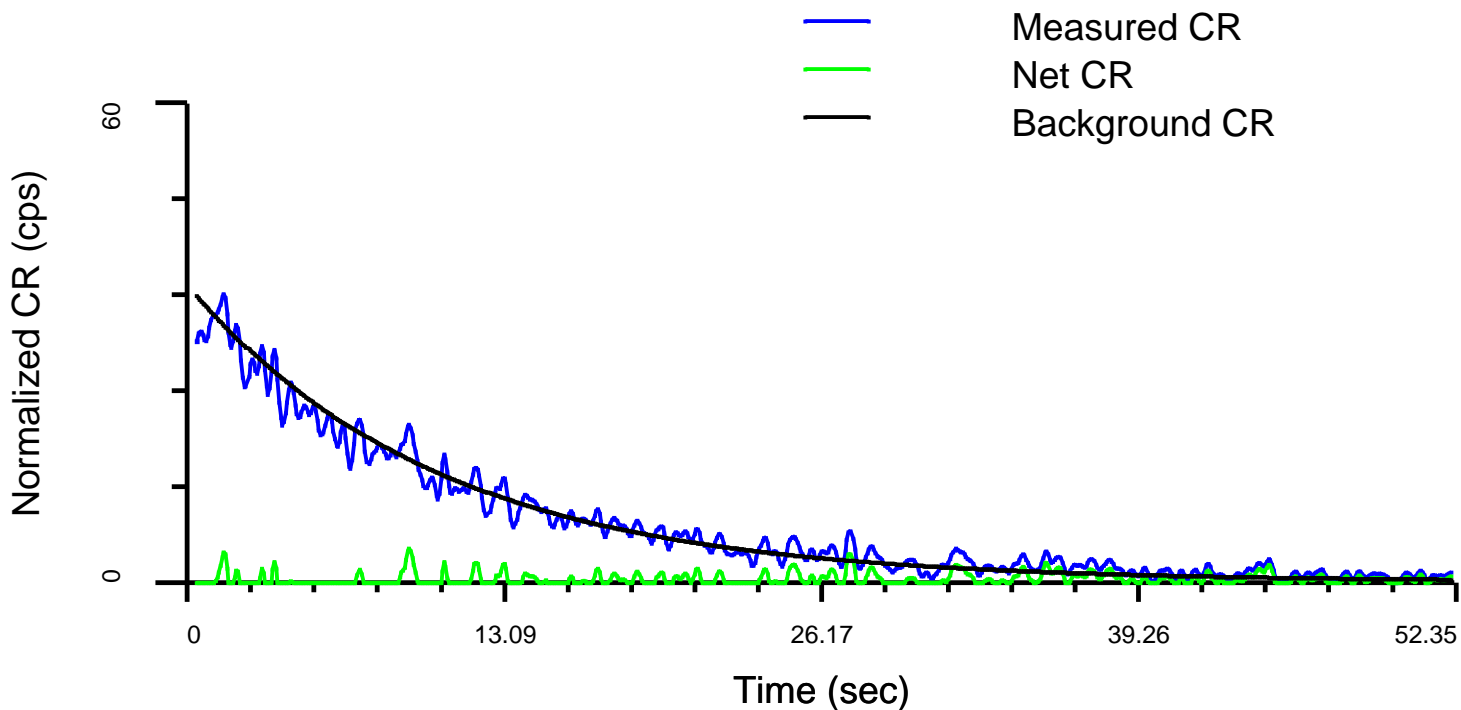
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
098	RST-Near	2790.8	2790.6	Unknown	1.4	---

Data Acquired on: 09-Jul-2006 15:47

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10

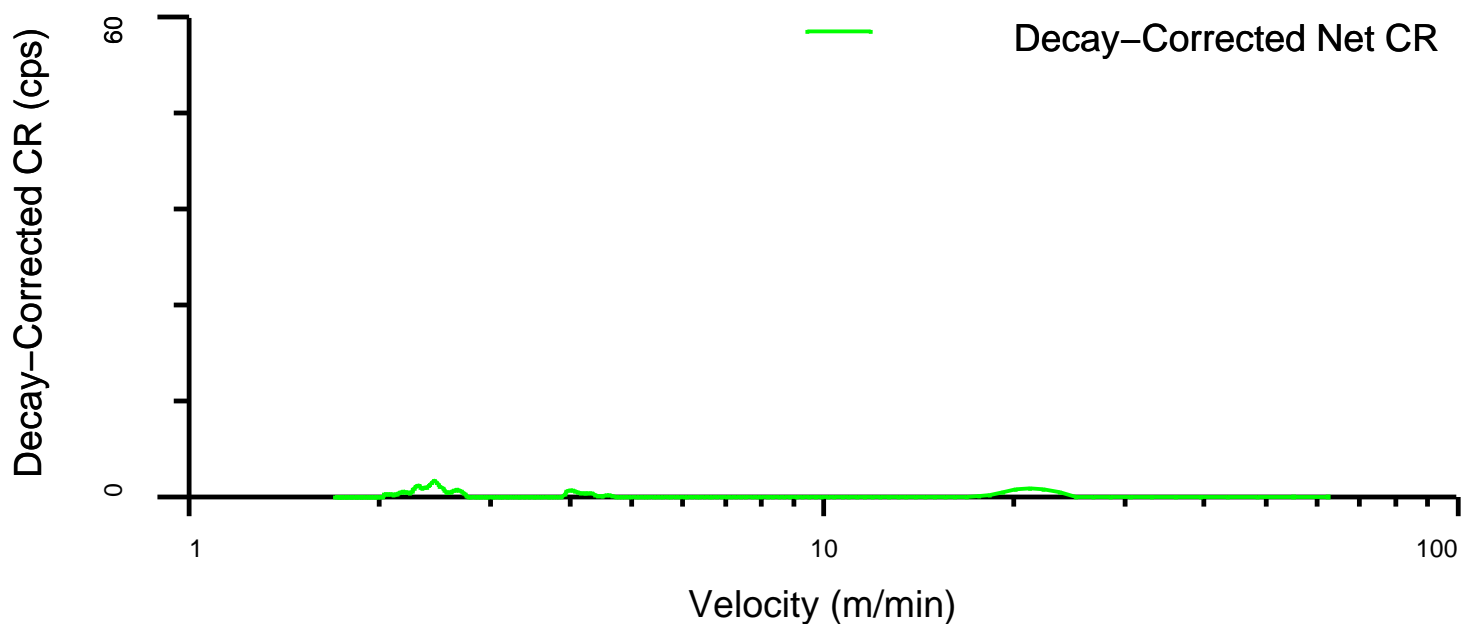
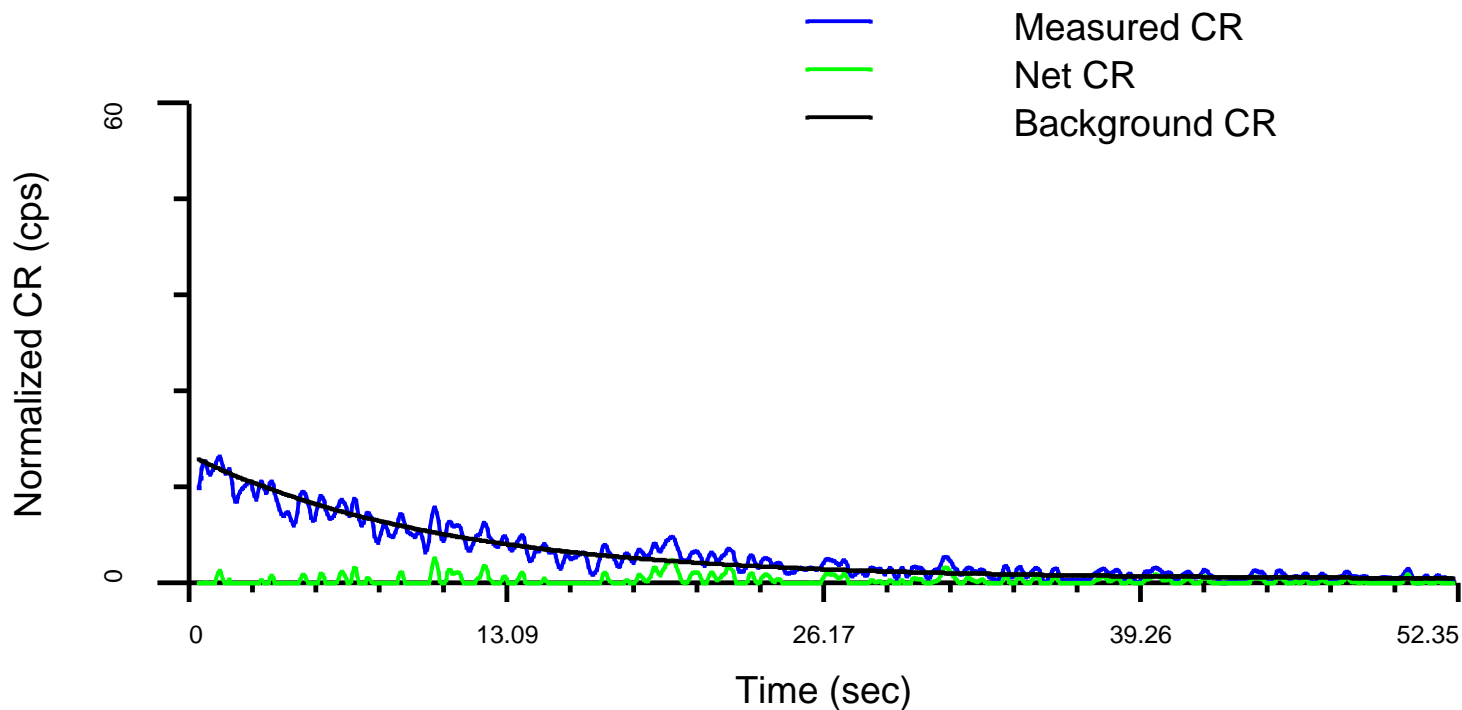


RST WFL Station Summary

09-Jul-2006 15:56

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
098	RST-Far	2790.8	2790.4	No	---	---

Data Acquired on: 09-Jul-2006 15:47
 Detector is above Minitron (sensitive to Up Flow)
 WFL Subcycle Time: 0.80 sec On – 52.27 sec Off
 Number of WFL Cycles: 10

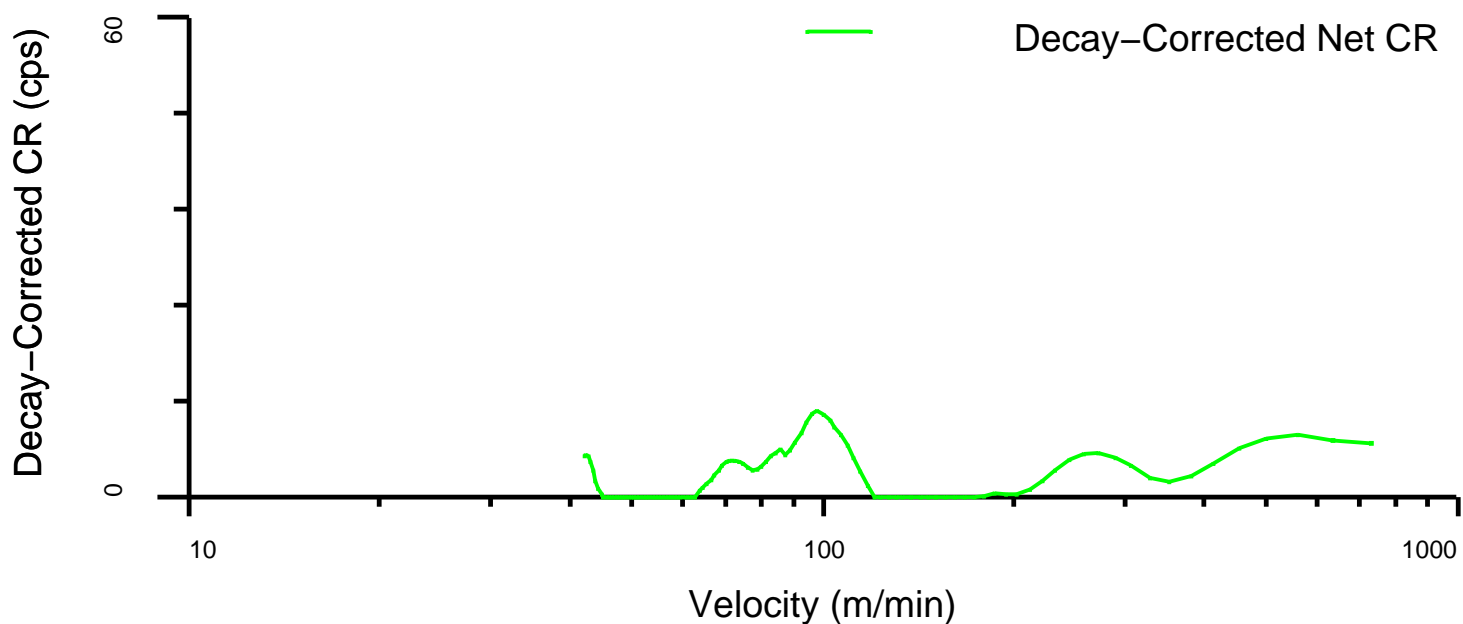
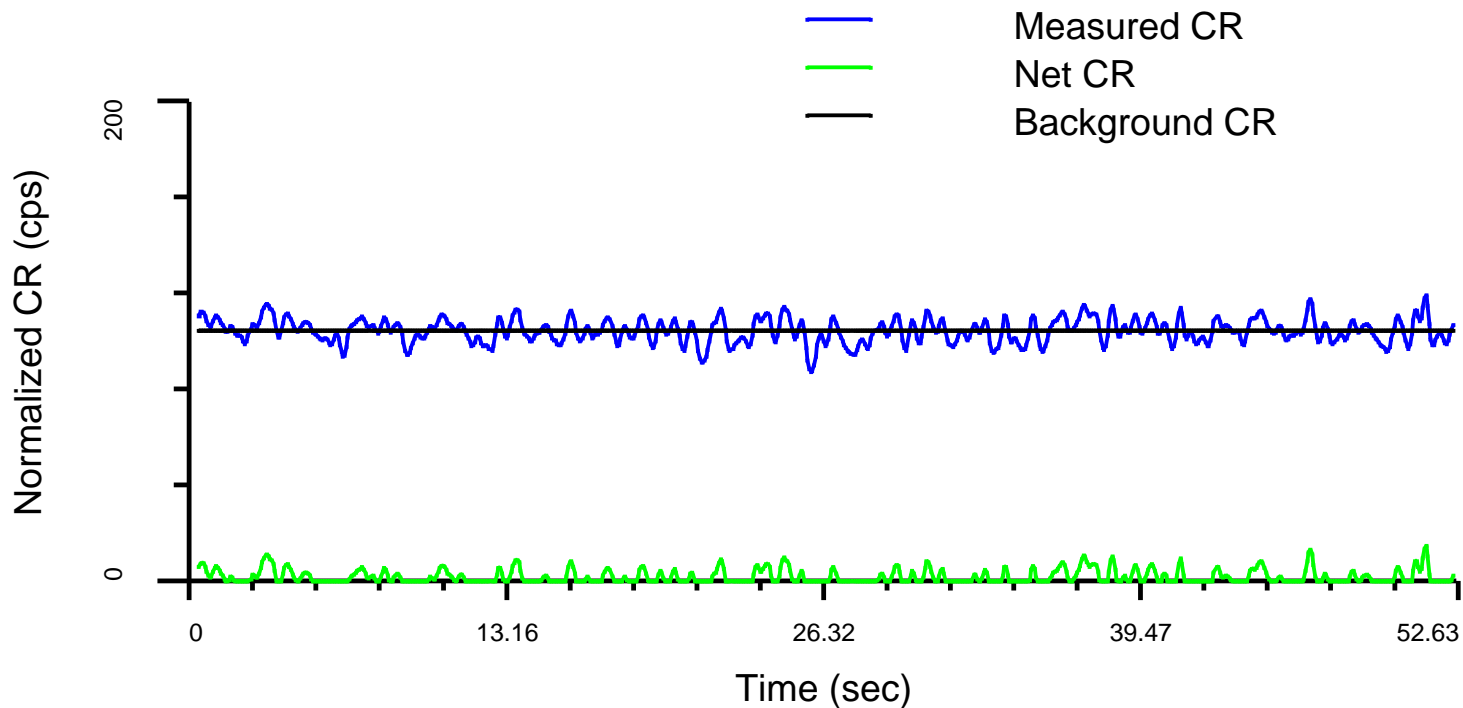


RST WFL Station Summary

09-Jul-2006 15:56

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
098	PBMS-GR	2790.8	2785.6	No	---	---

Data Acquired on: 09-Jul-2006 15:47
 Detector is above Minitron (sensitive to Up Flow)
 WFL Subcycle Time: 0.80 sec On – 52.27 sec Off
 Number of WFL Cycles: 10



Schlumberger

Flowing RST-WFL
Station 2798m Slow

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 15:32

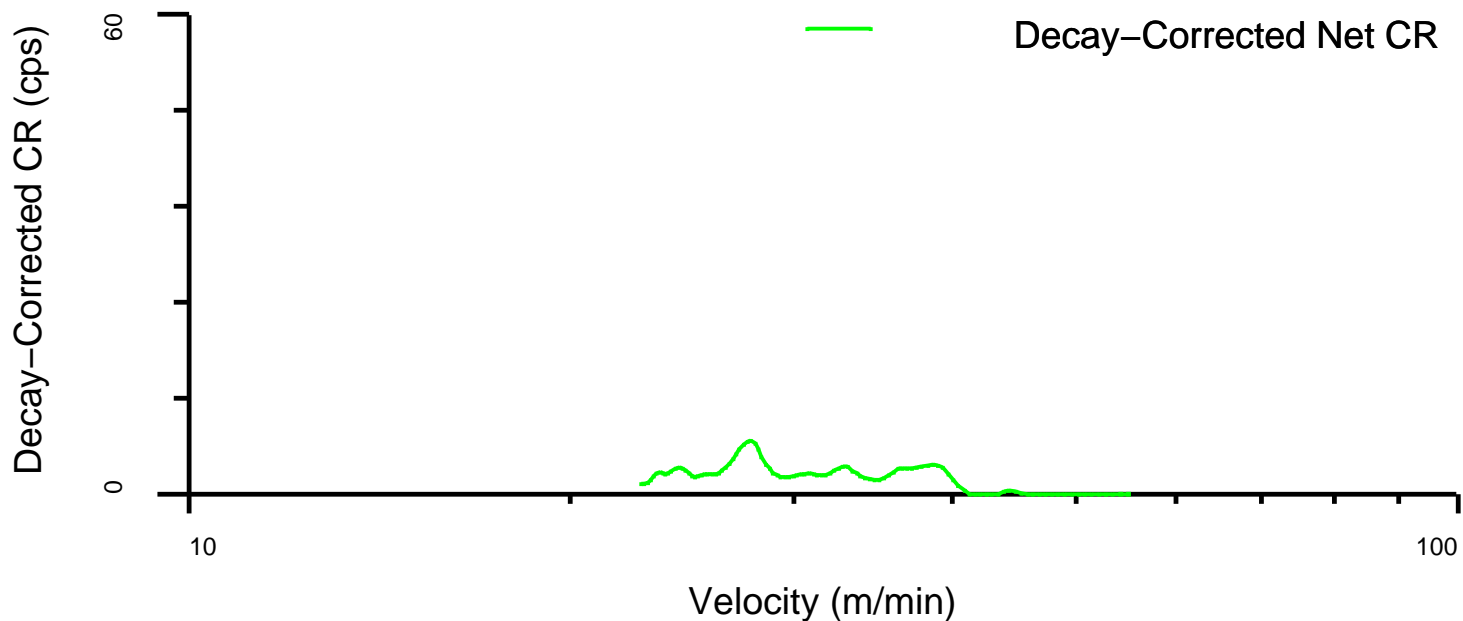
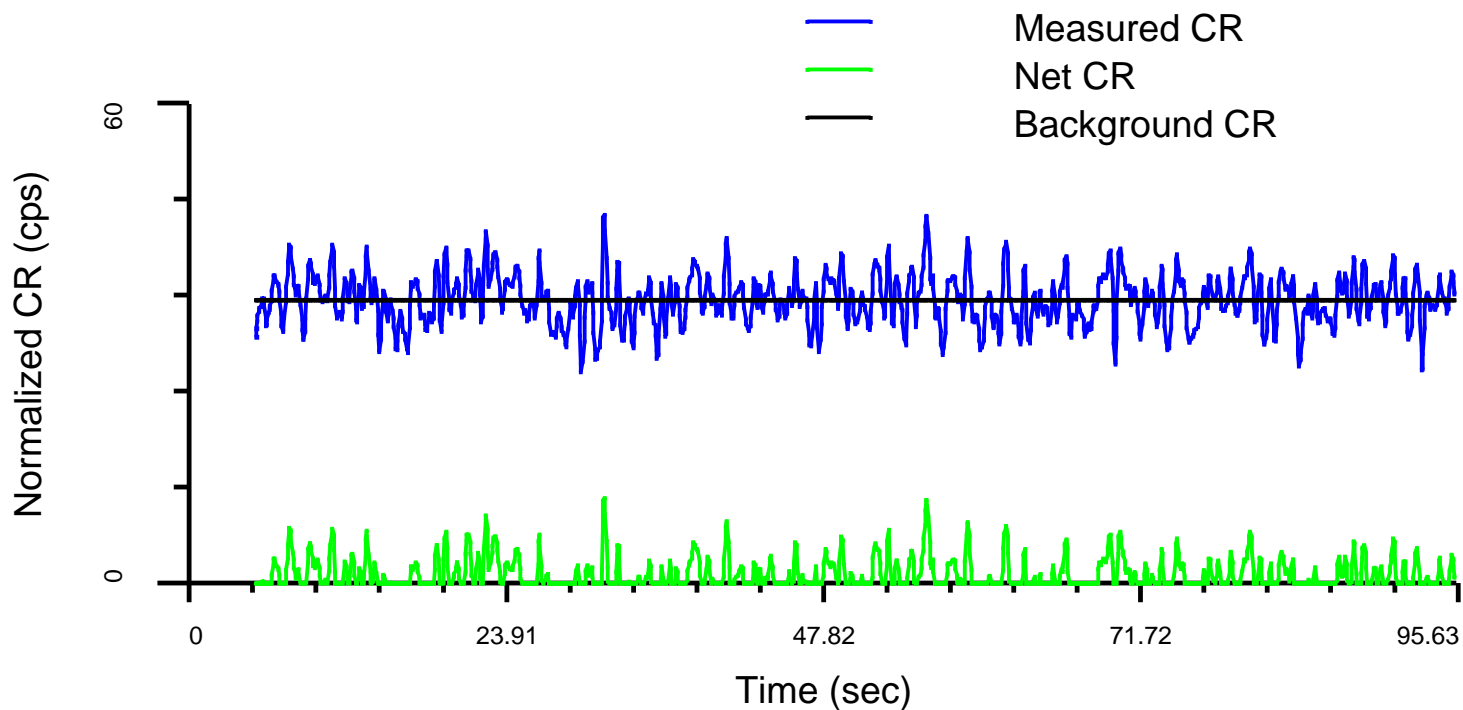
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
096	WPGR	2798.2	2802.6	No	---	---

Data Acquired on: 09-Jul-2006 15:15

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 15:32

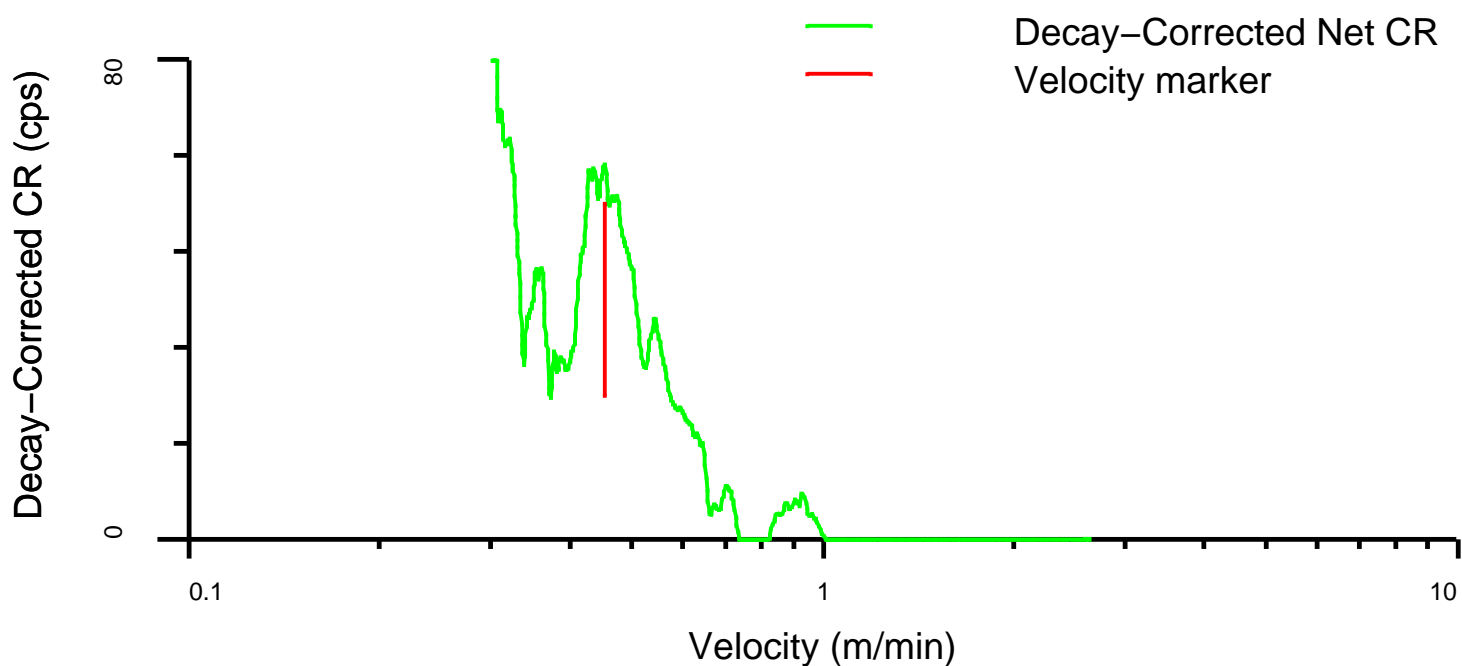
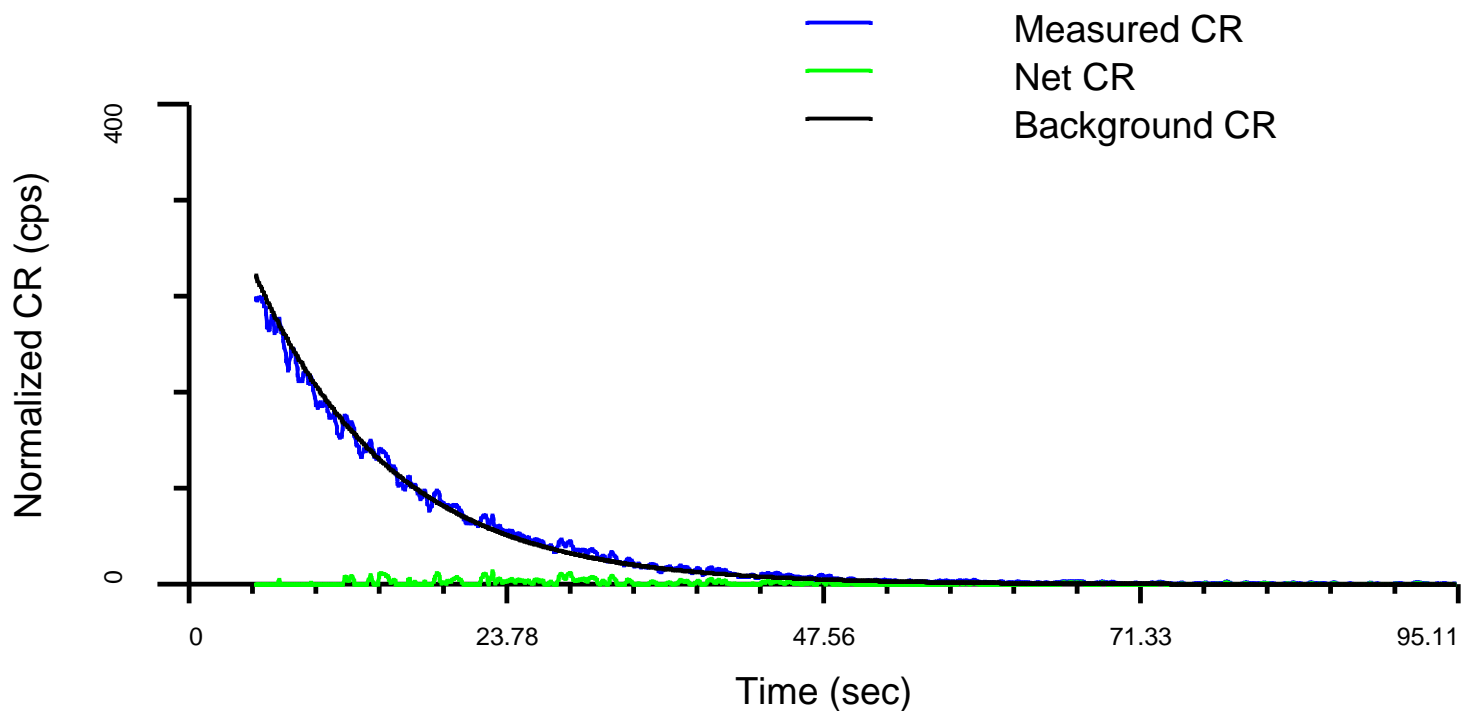
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
096	RST-Near	2798.2	2798.0	Unknown	0.5	0.2

Data Acquired on: 09-Jul-2006 15:15

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 15:32

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
096	RST-Far	2798.2	2797.8	Yes	0.5	0.2

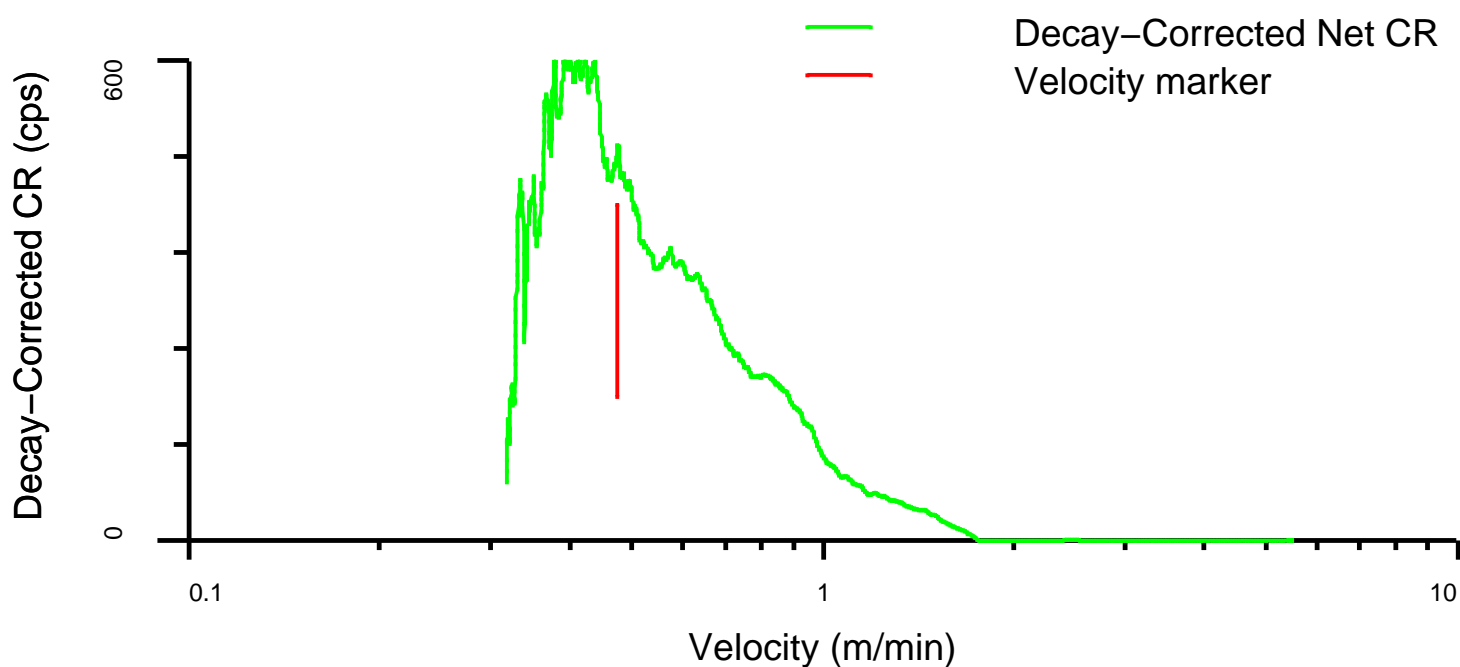
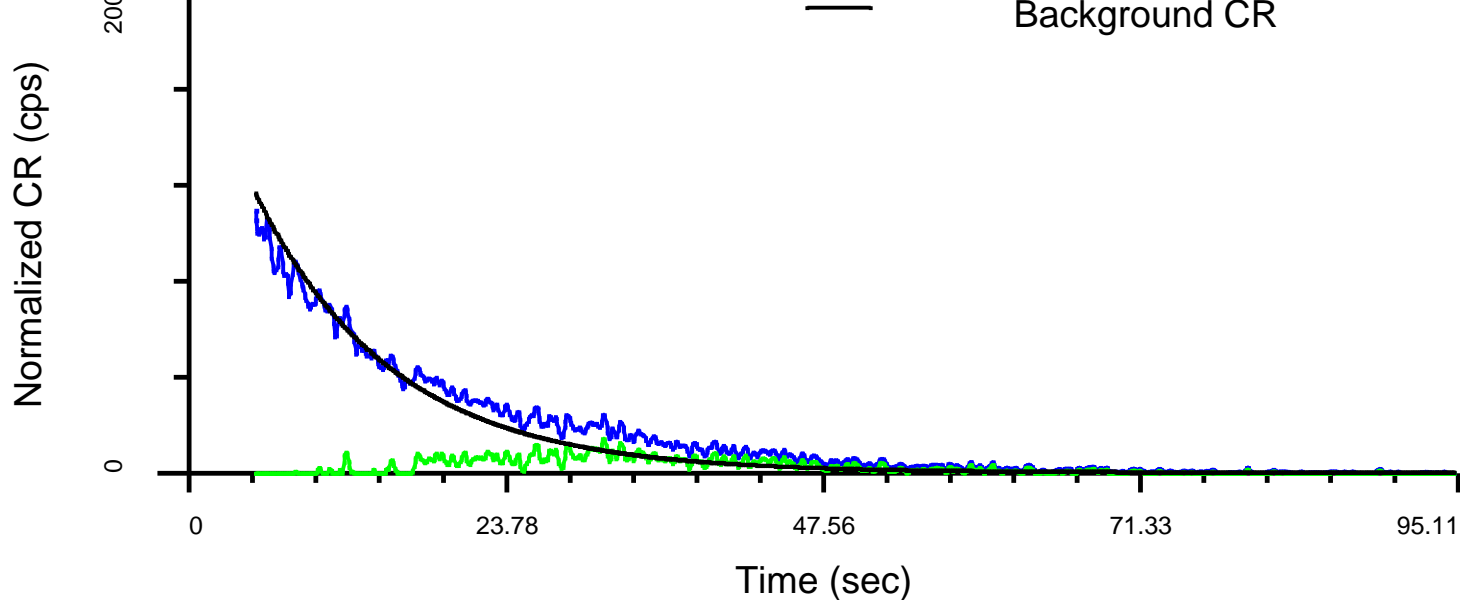
Data Acquired on: 09-Jul-2006 15:15

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10

Measured CR
Net CR



RST WFL Station Summary

09-Jul-2006 15:32

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
096	PBMS-GR	2798.2	2793.0	Unknown	3.7	2.6

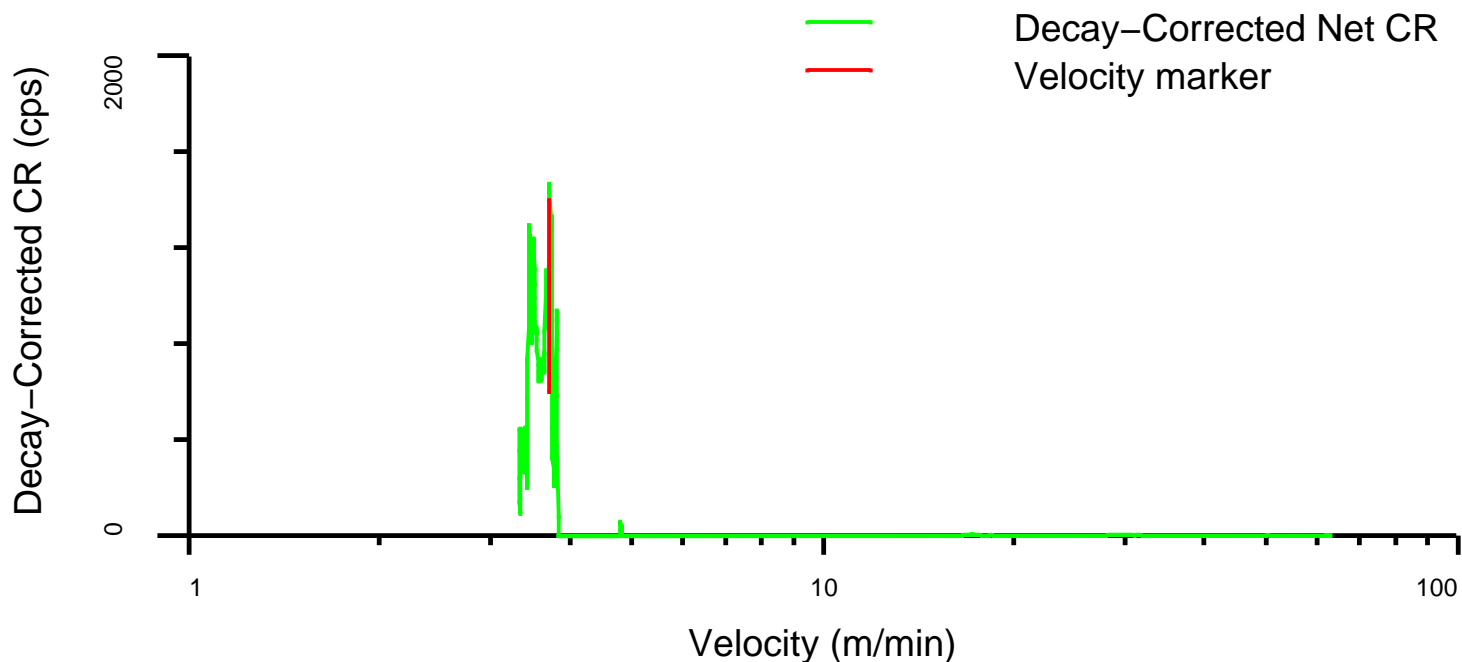
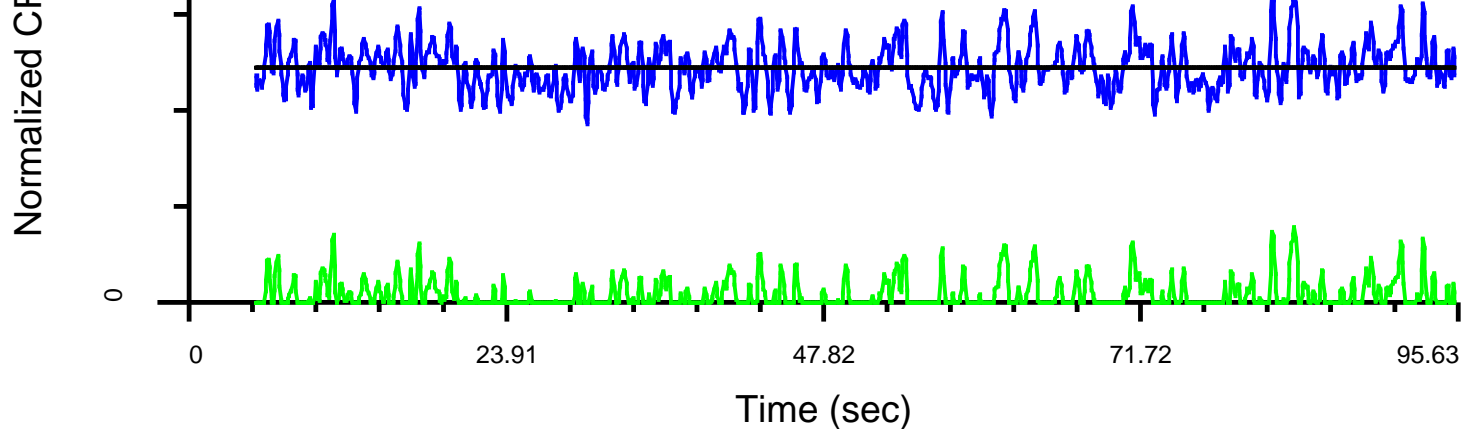
Data Acquired on: 09-Jul-2006 15:15

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 10





Schlumberger

Flowing RST-WFL
Station 2798m Fast

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 15:13

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
095	WPGR	2798.2	2802.6	No	---	---

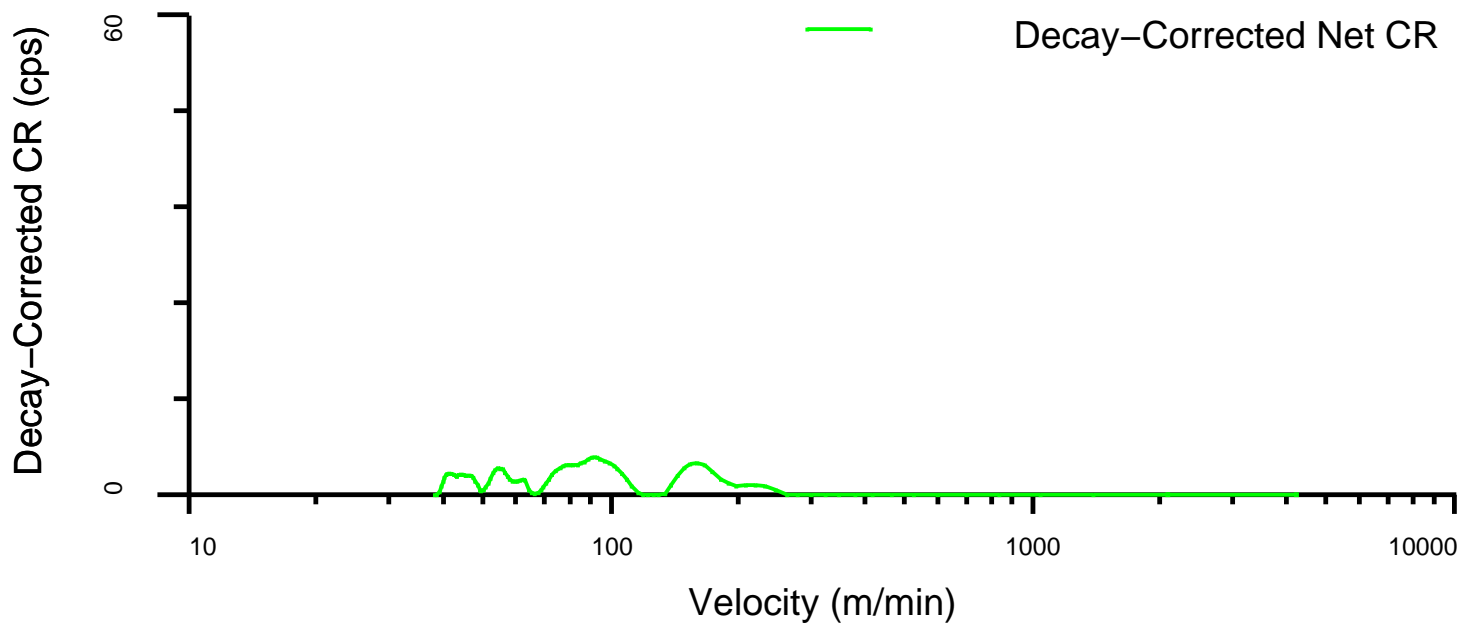
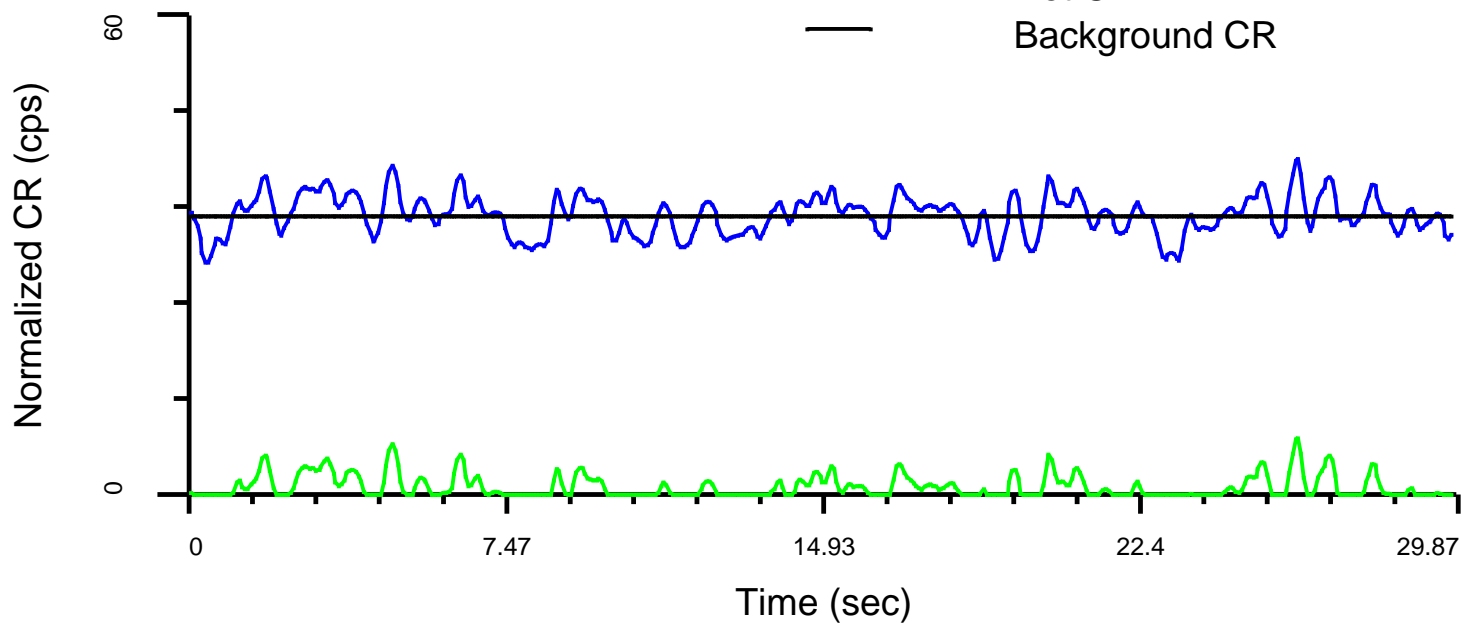
Data Acquired on: 09-Jul-2006 15:07

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 12

Measured CR
Net CR



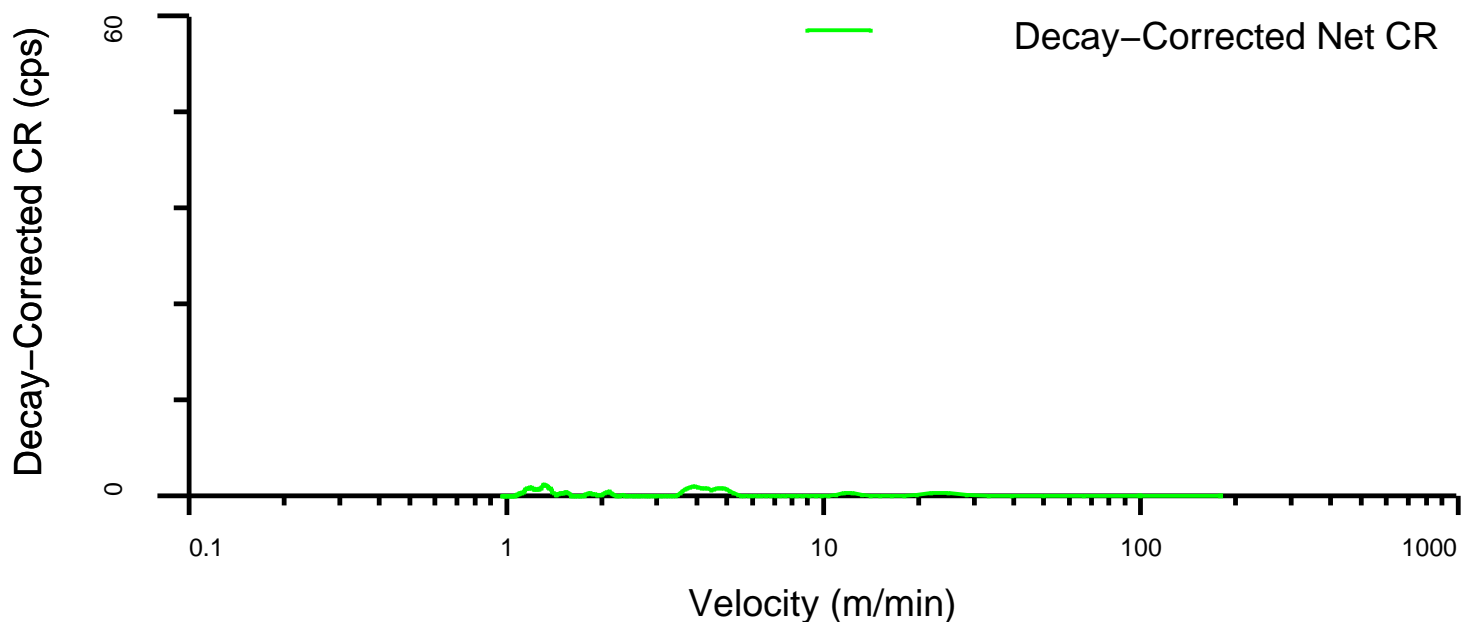
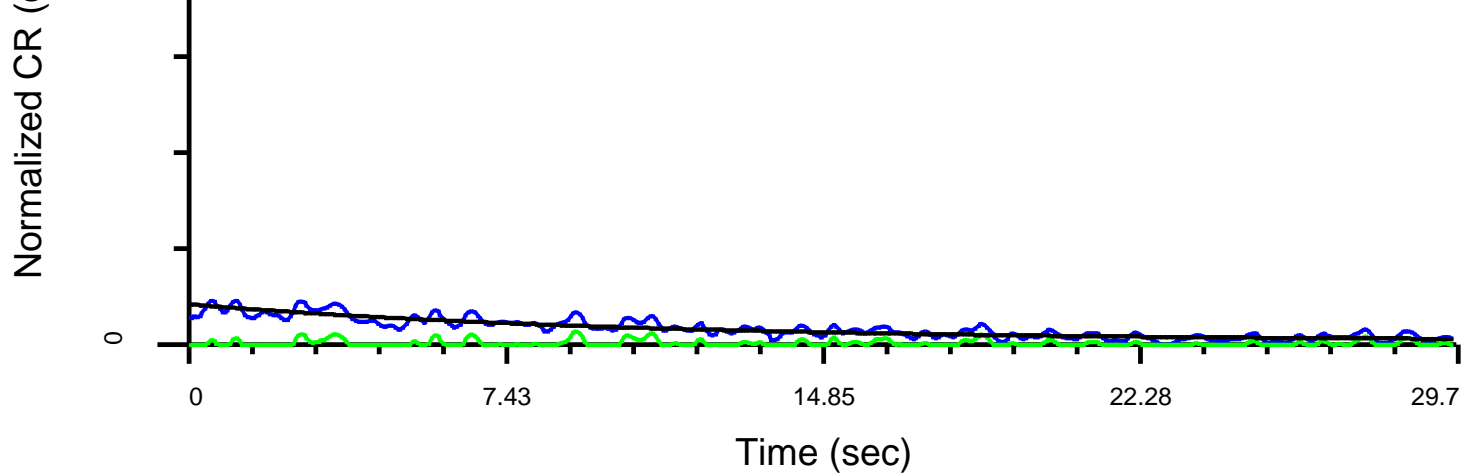
RST WFL Station Summary

09-Jul-2006 15:13

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
095	RST-Near	2798.2	2798.0	No	---	---

Data Acquired on: 09-Jul-2006 15:07
Detector is above Minitrone (sensitive to Up Flow)
WFL Subcycle Time: 0.07 sec On - 29.87 sec Off
Number of WFL Cycles: 12





RST WFL Station Summary

09-Jul-2006 15:13

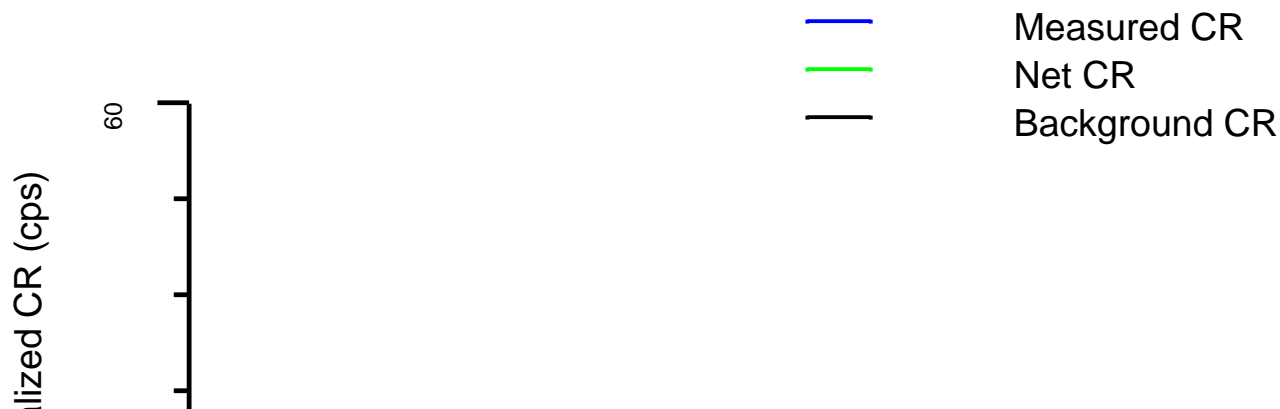
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
095	RST-Far	2798.2	2797.8	No	---	---

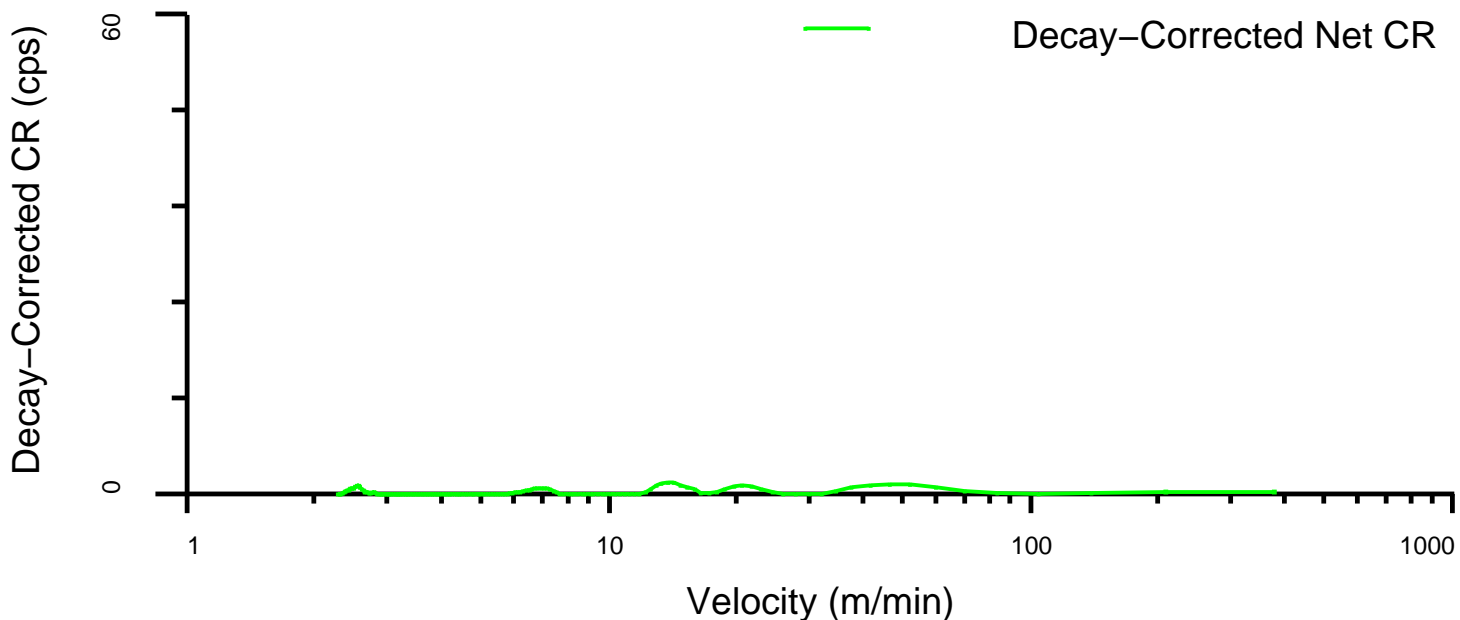
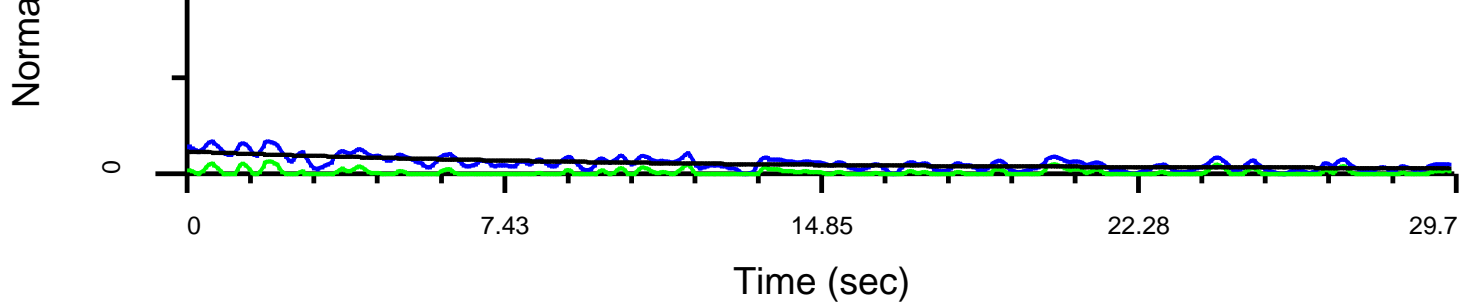
Data Acquired on: 09-Jul-2006 15:07

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 12





RST WFL Station Summary

09-Jul-2006 15:13

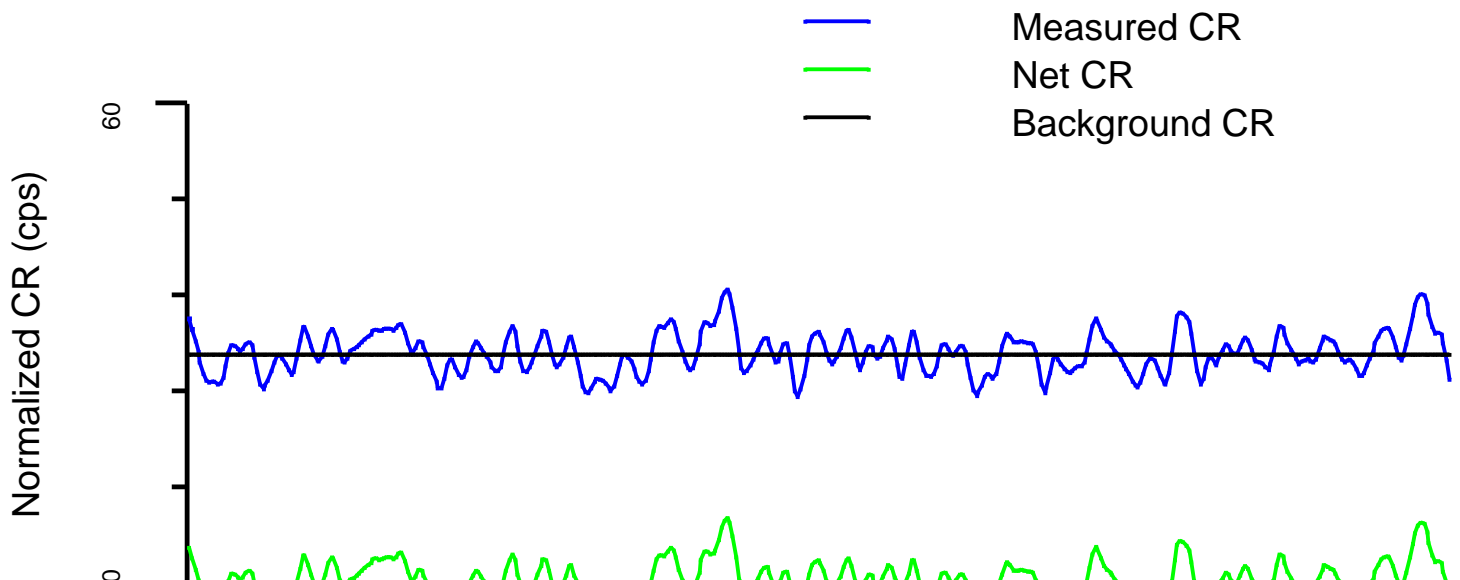
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
095	PBMS-GR	2798.2	2793.0	Unknown	24.9	264.6

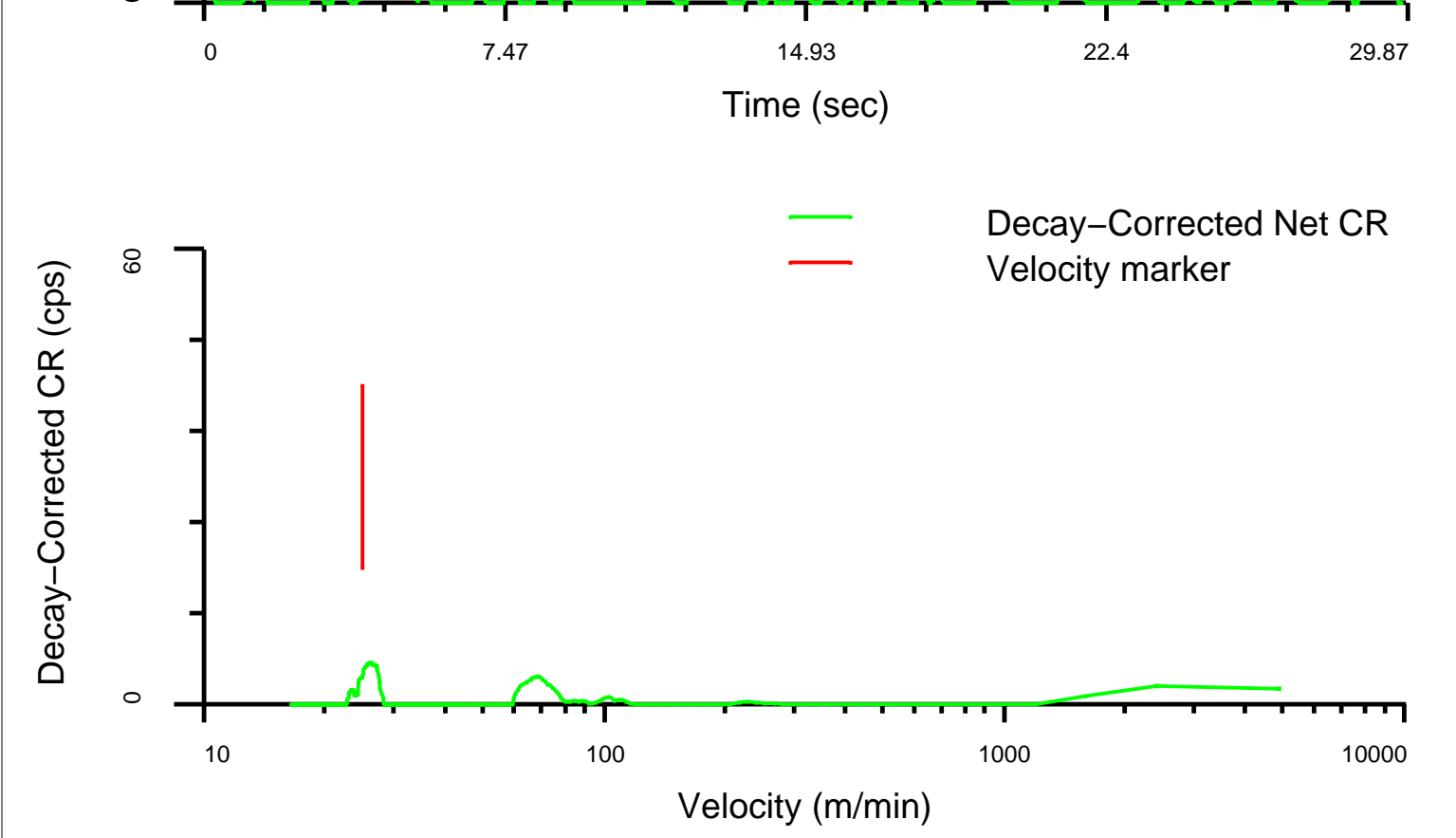
Data Acquired on: 09-Jul-2006 15:07

Detector is above Miniron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 12





Schlumberger

Flowing RST-WFL
Station 2798m Normal

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 15:05

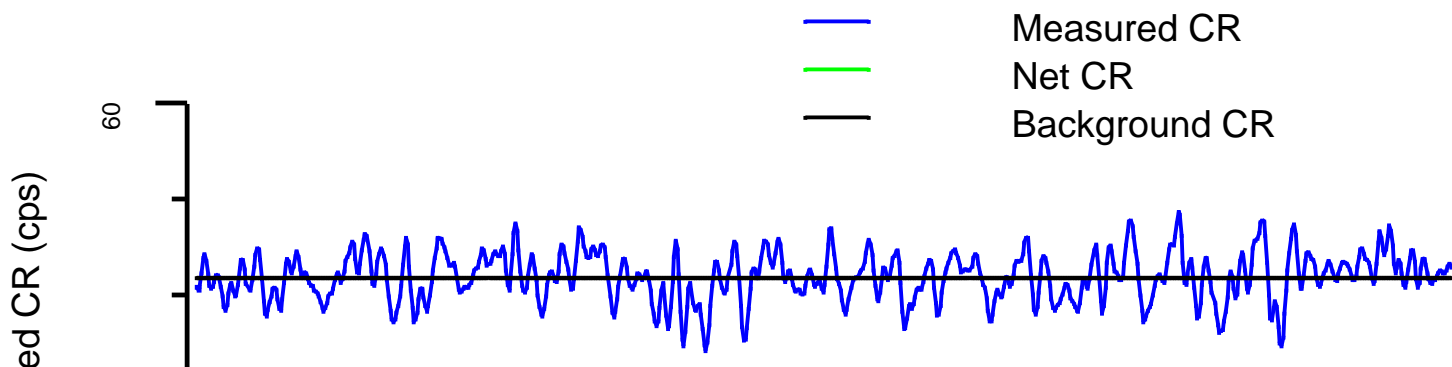
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
094	WPGR	2798.2	2802.6	No	---	---

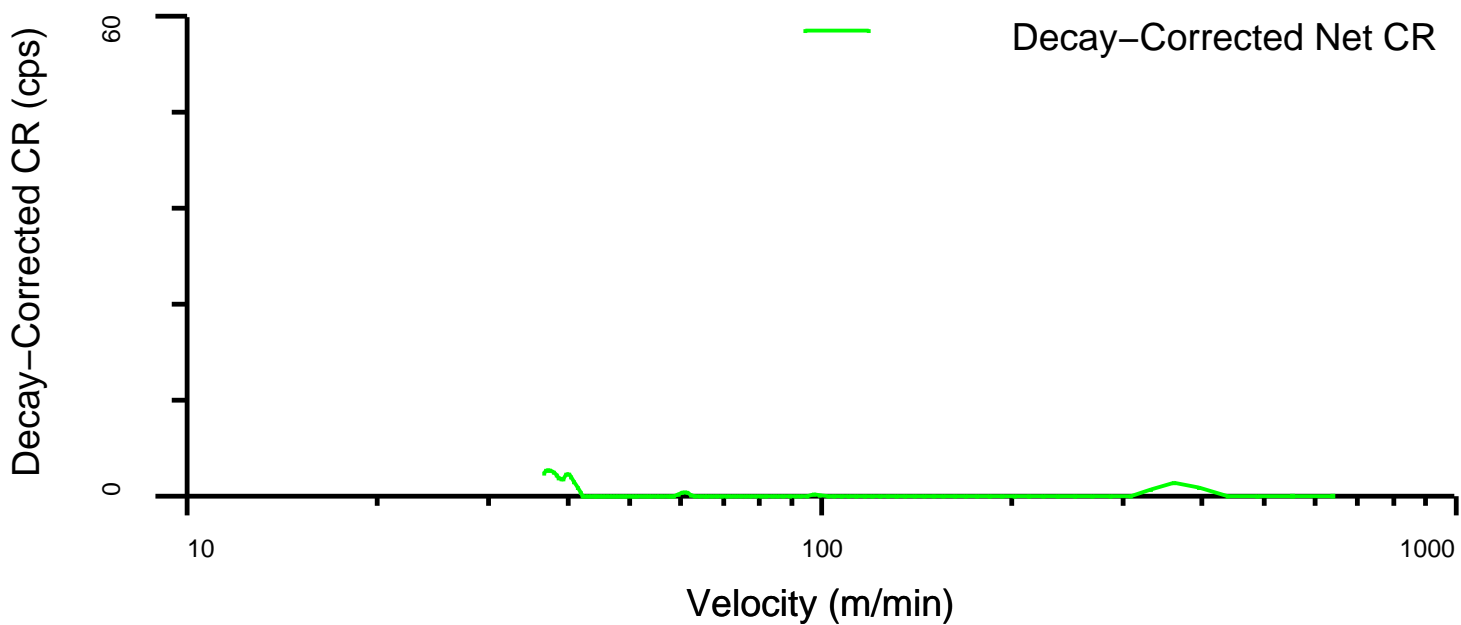
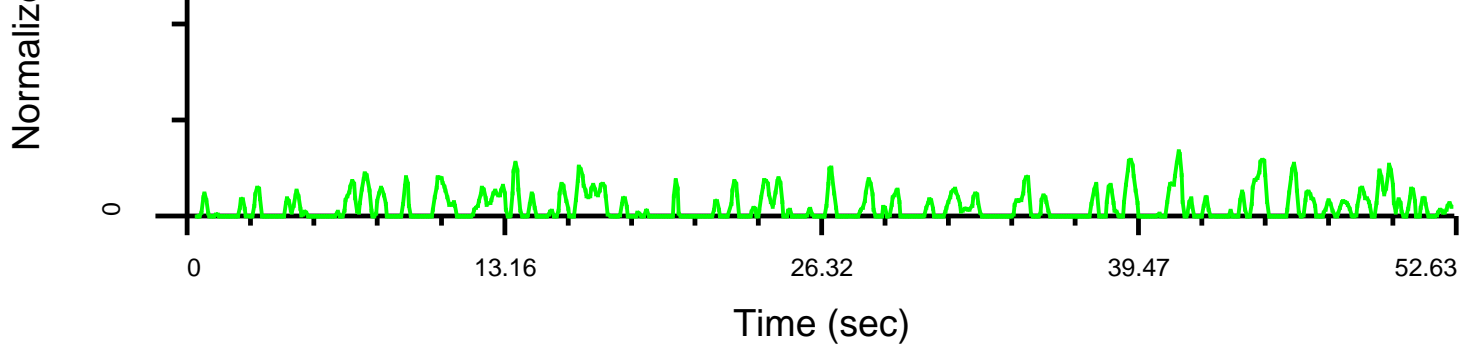
Data Acquired on: 09-Jul-2006 14:56

Detector is below Minित्रon (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 15:05

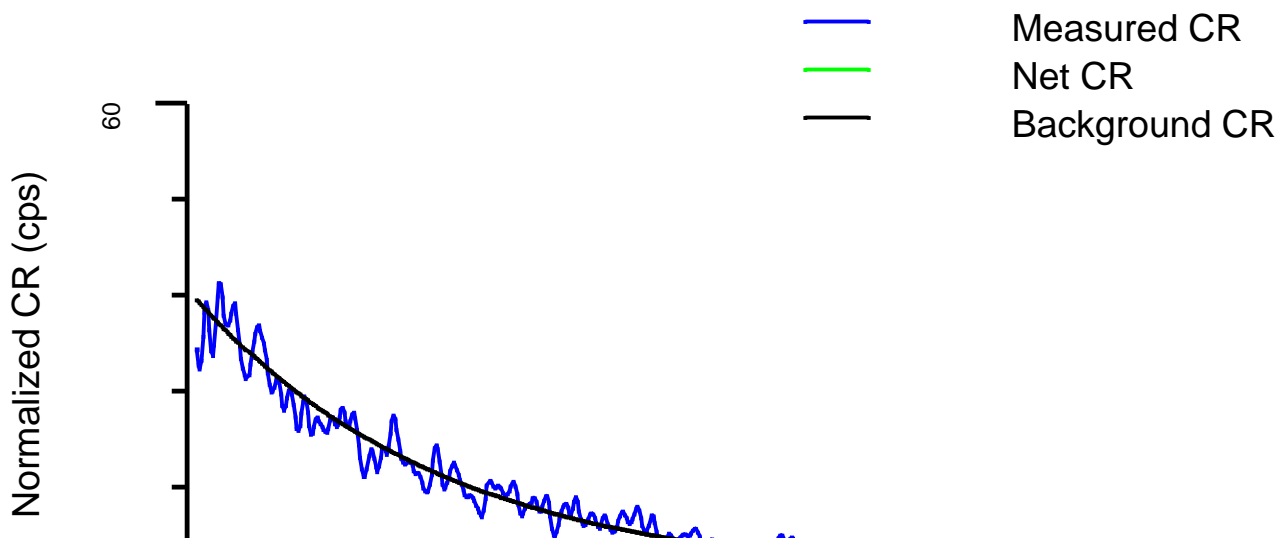
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
094	RST-Near	2798.2	2798.0	Unknown	9.2	0.7

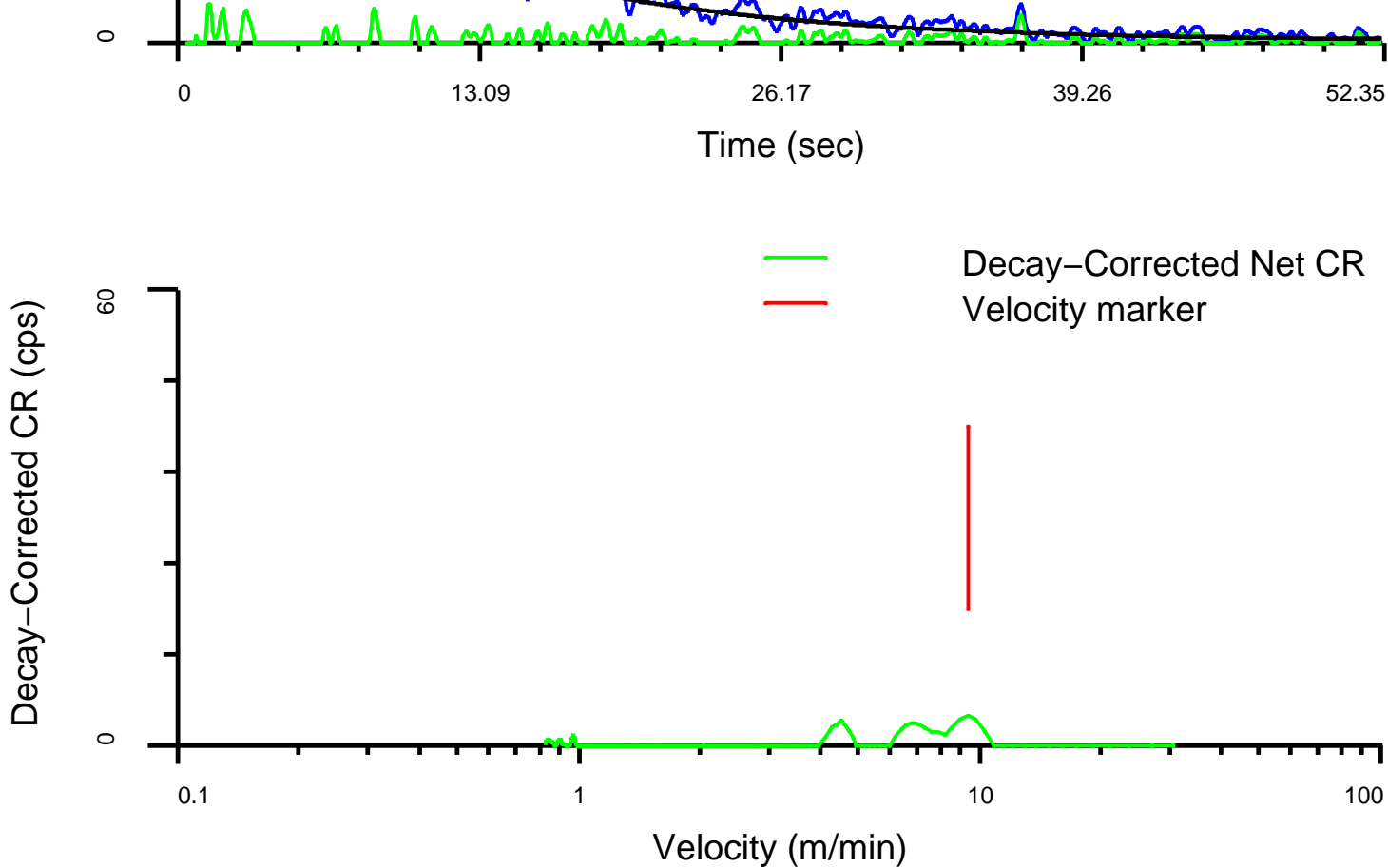
Data Acquired on: 09-Jul-2006 14:56

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 15:05

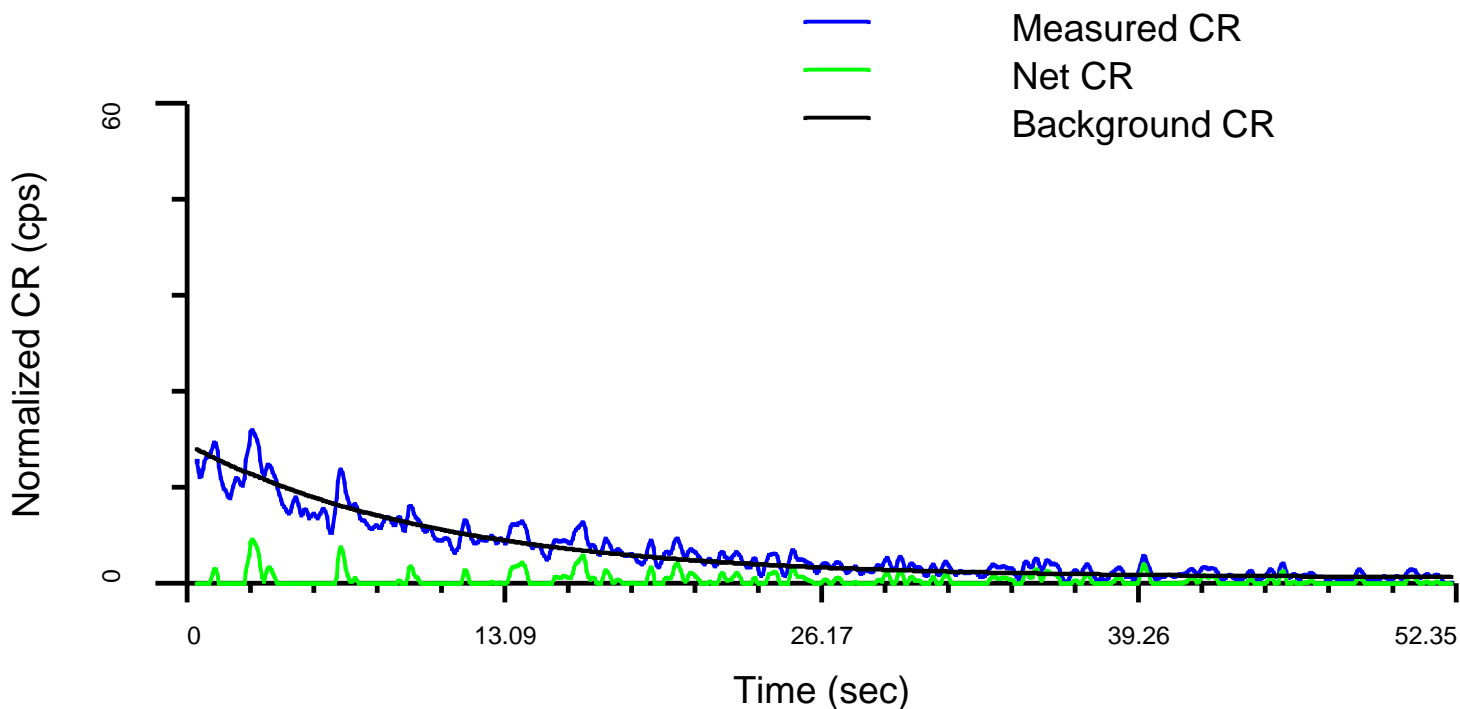
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
094	RST-Far	2798.2	2797.8	No	---	---

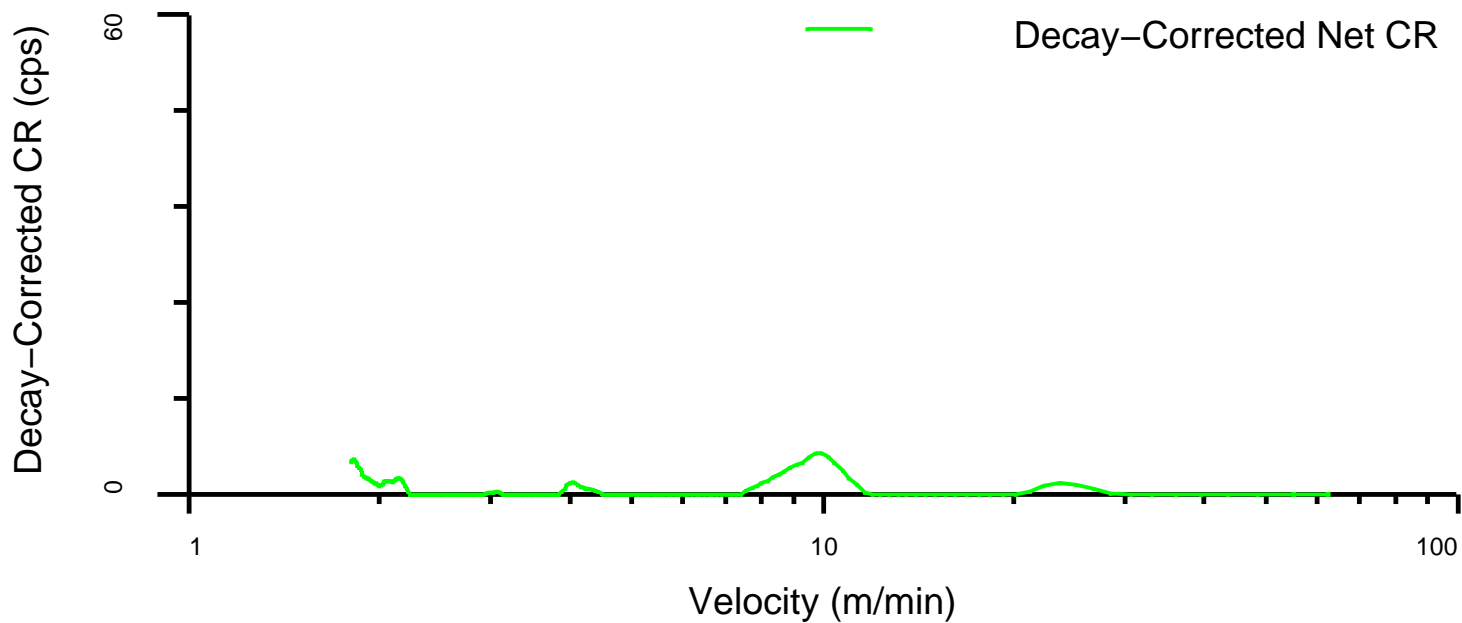
Data Acquired on: 09-Jul-2006 14:56

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 15:05

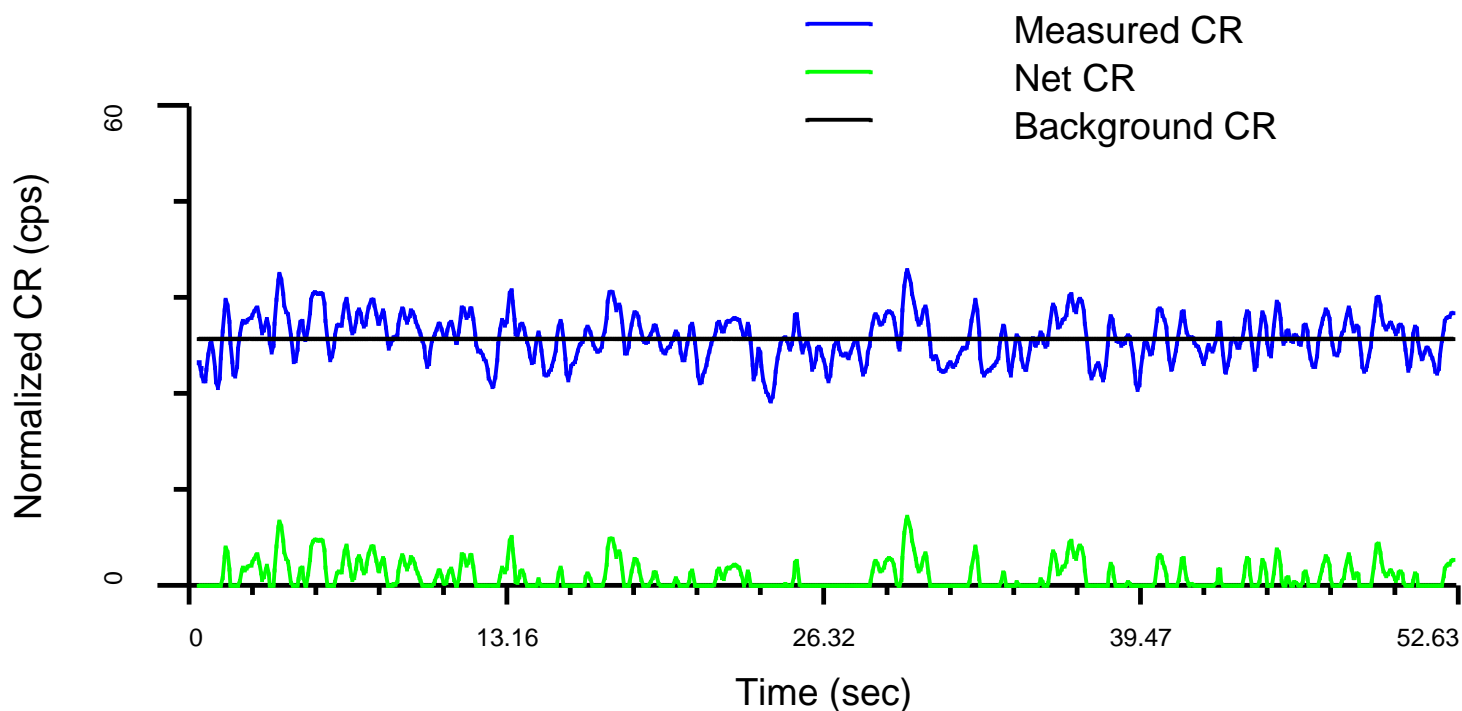
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
094	PBMS-GR	2798.2	2793.0	No	---	---

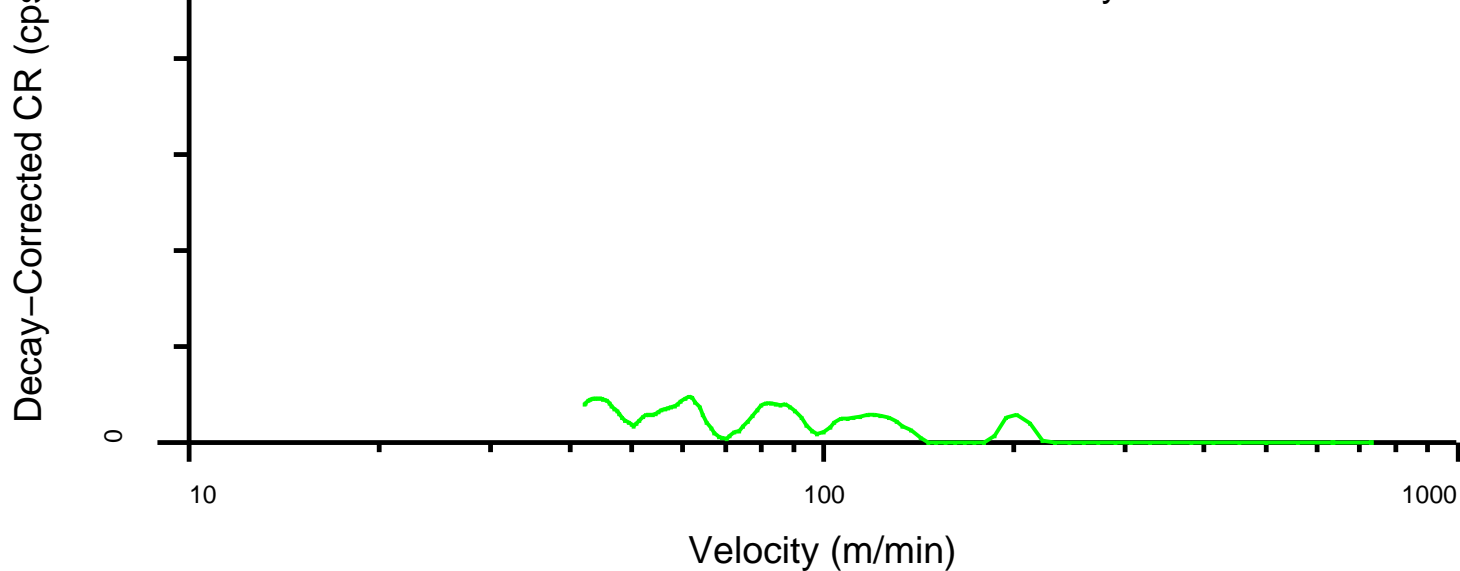
Data Acquired on: 09-Jul-2006 14:56

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





Schlumberger

Shut In RST-WFL
Station 2765m Slow

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 08:29

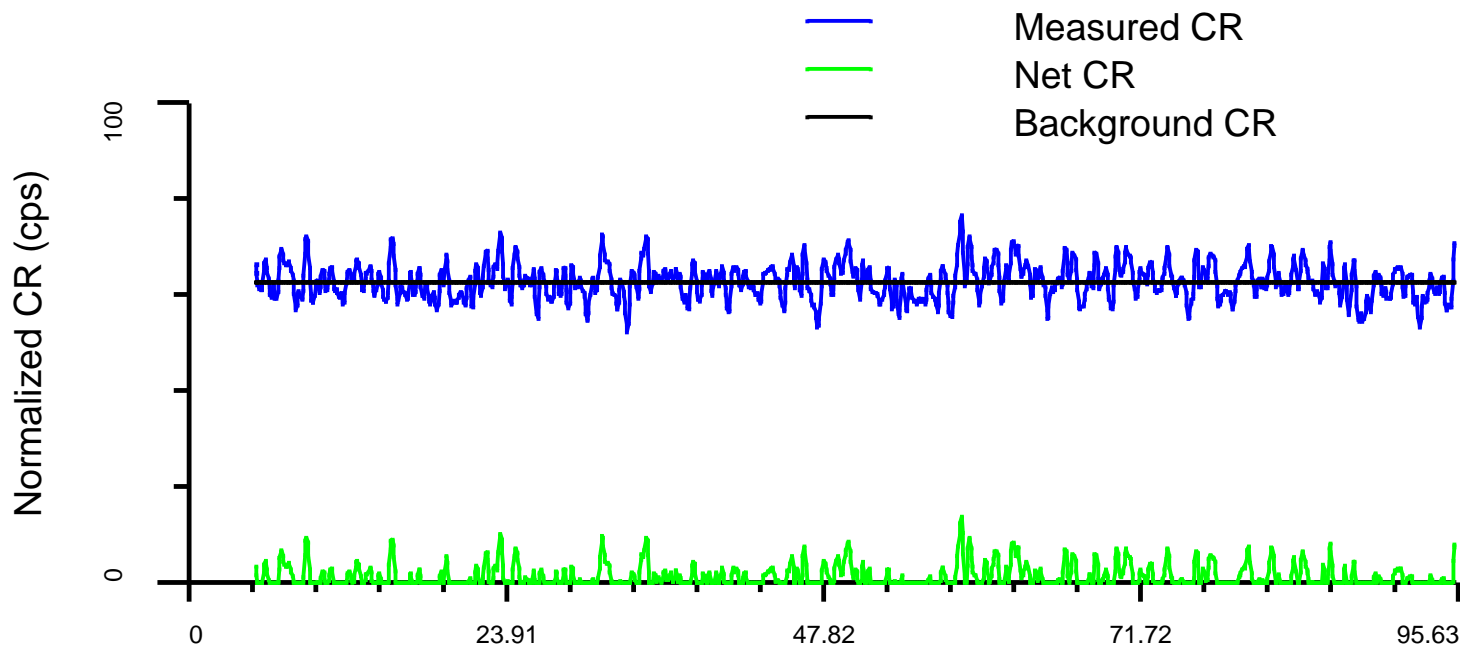
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
080	WPGR	2765.2	2769.6	No	---	---

Data Acquired on: 09-Jul-2006 08:10

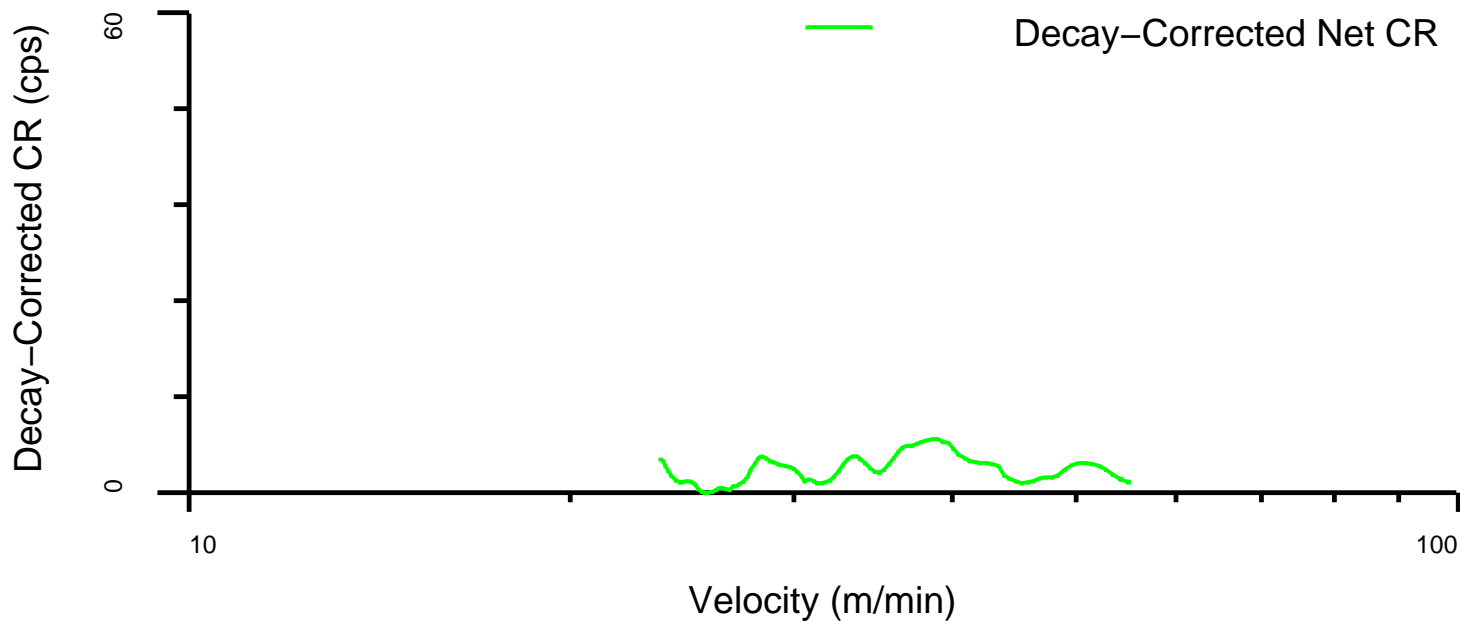
Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11



Time (sec)



RST WFL Station Summary

09-Jul-2006 08:29

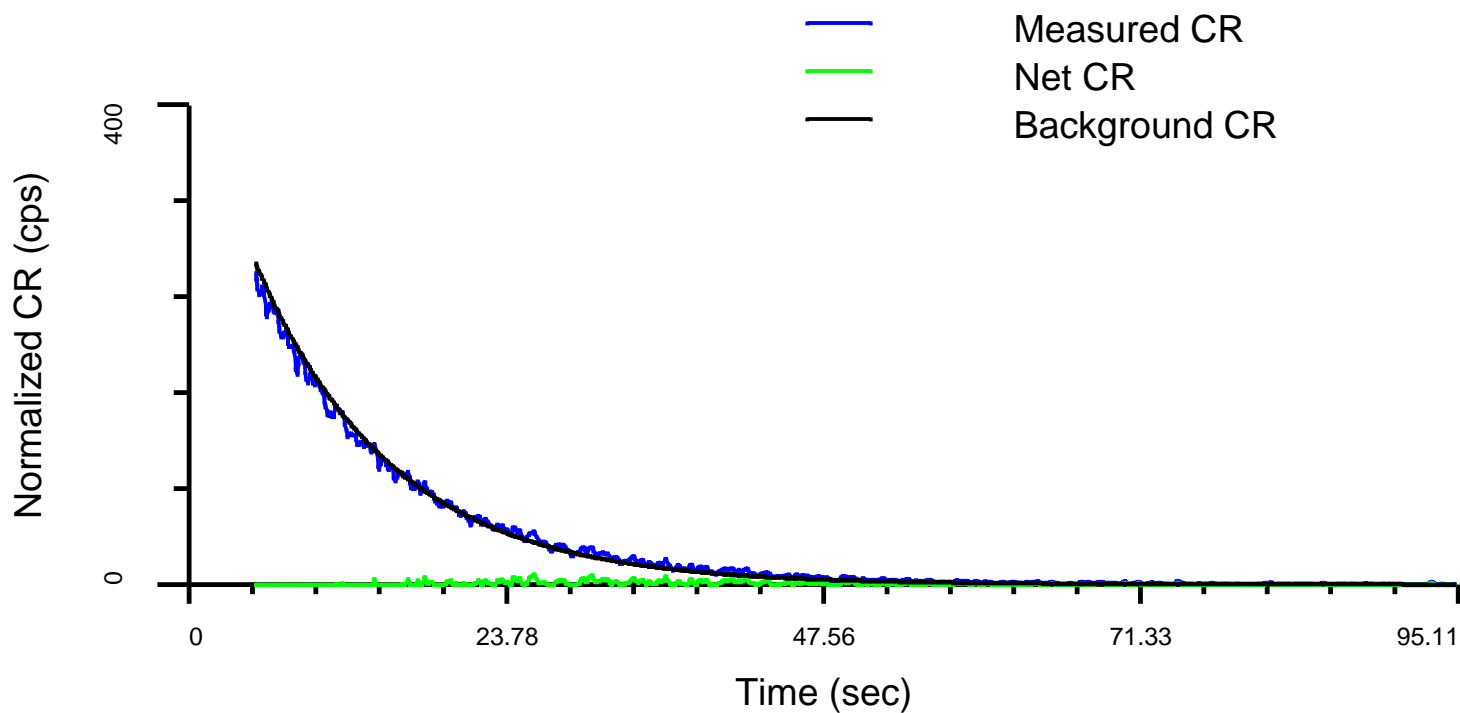
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
080	RST-Near	2765.2	2765.0	No	---	---

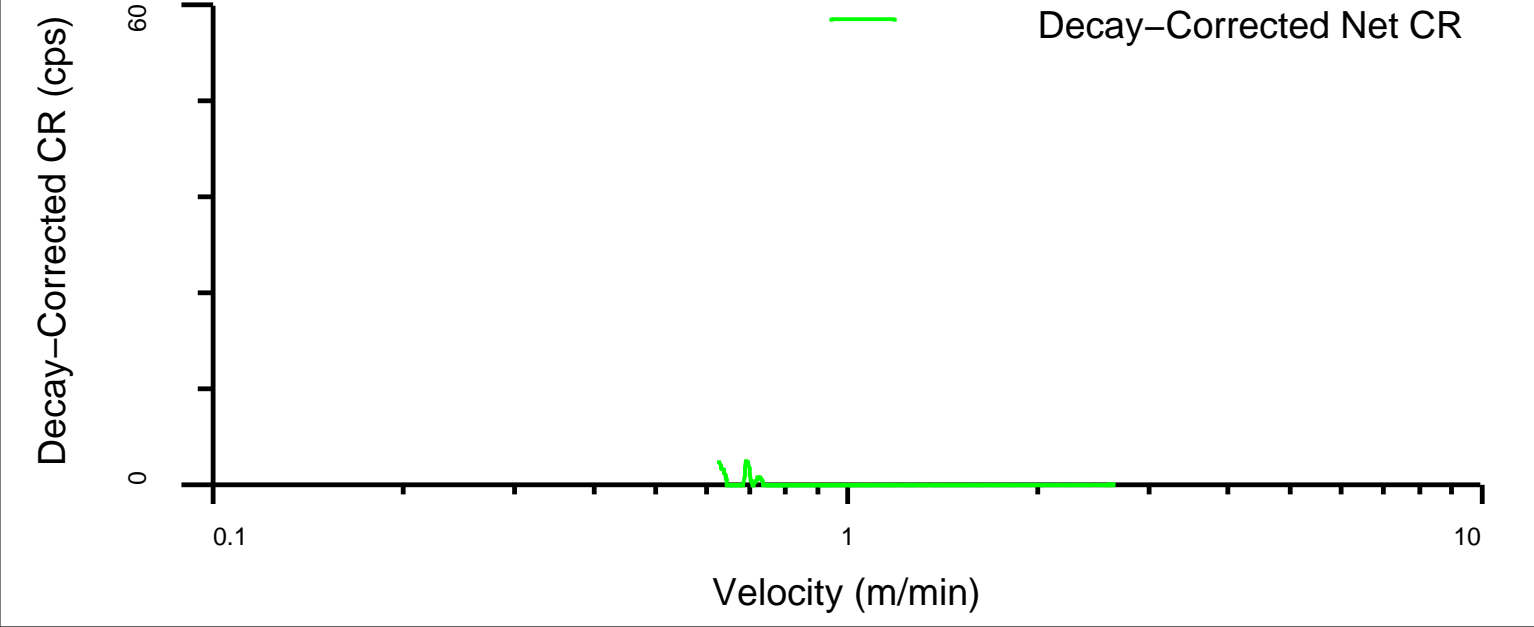
Data Acquired on: 09-Jul-2006 08:10

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11



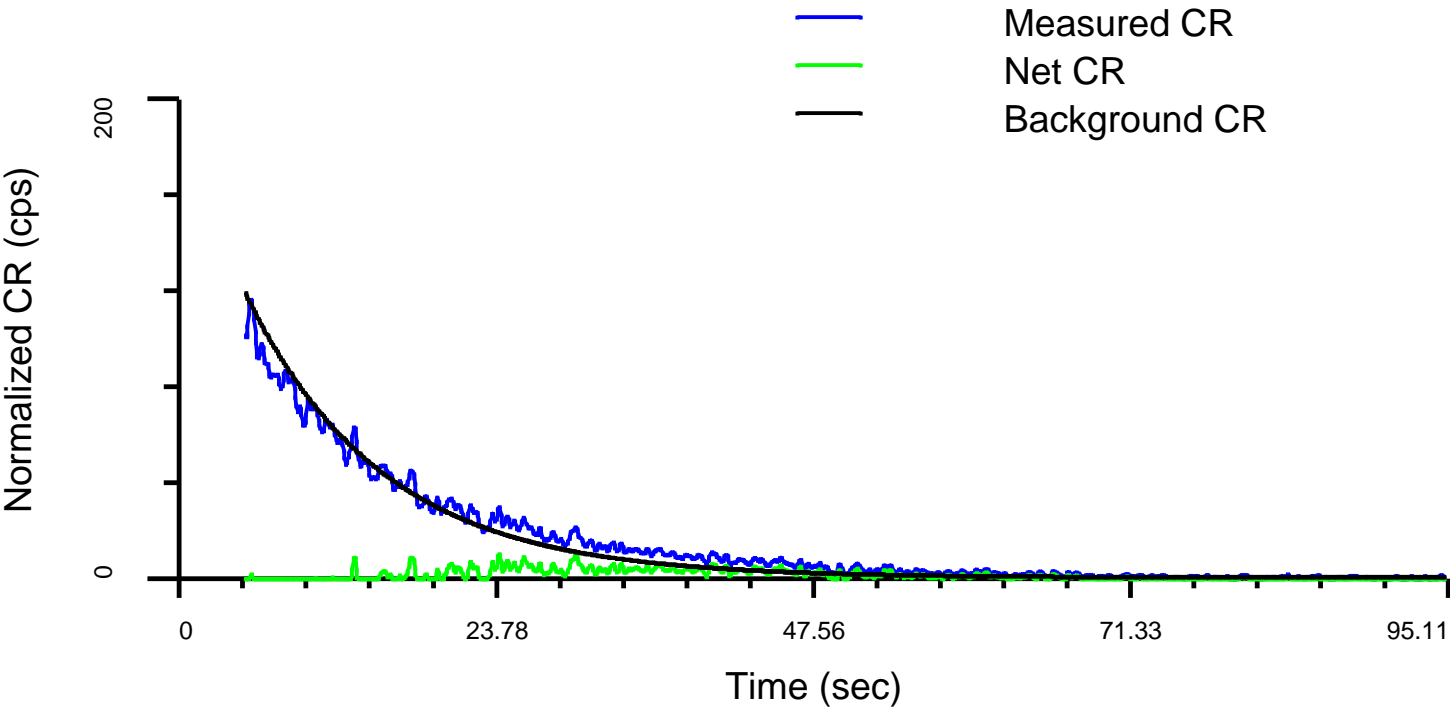


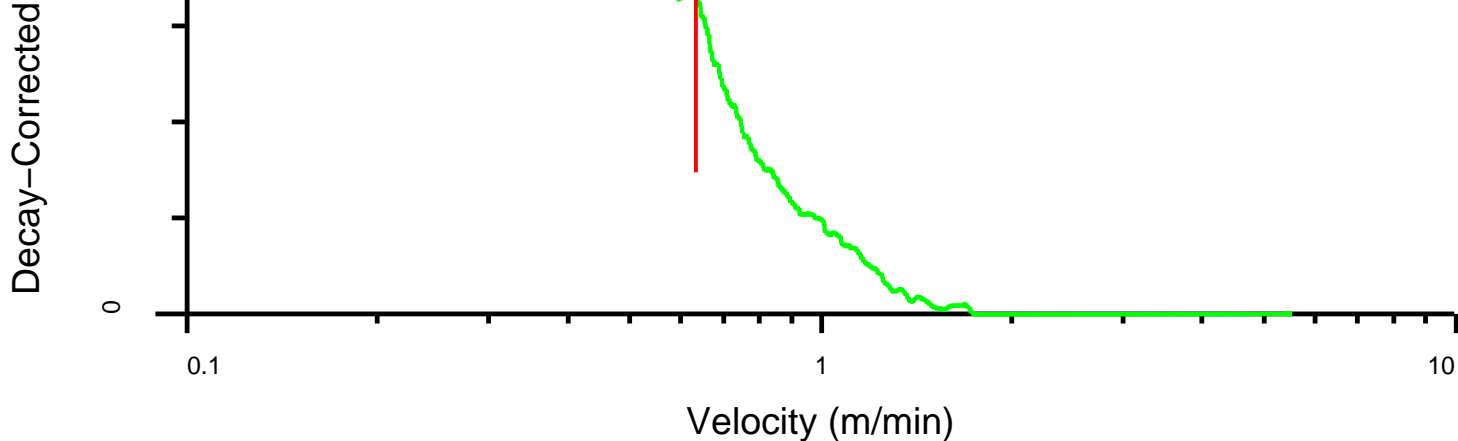
RST WFL Station Summary

09-Jul-2006 08:29

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
080	RST-Far	2765.2	2764.8	Yes	0.6	0.2

Data Acquired on: 09-Jul-2006 08:10
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 11



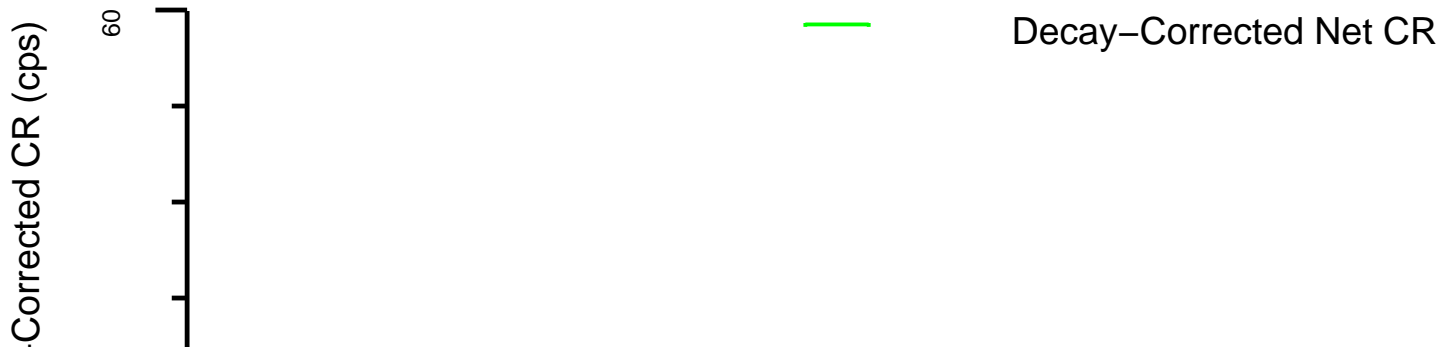
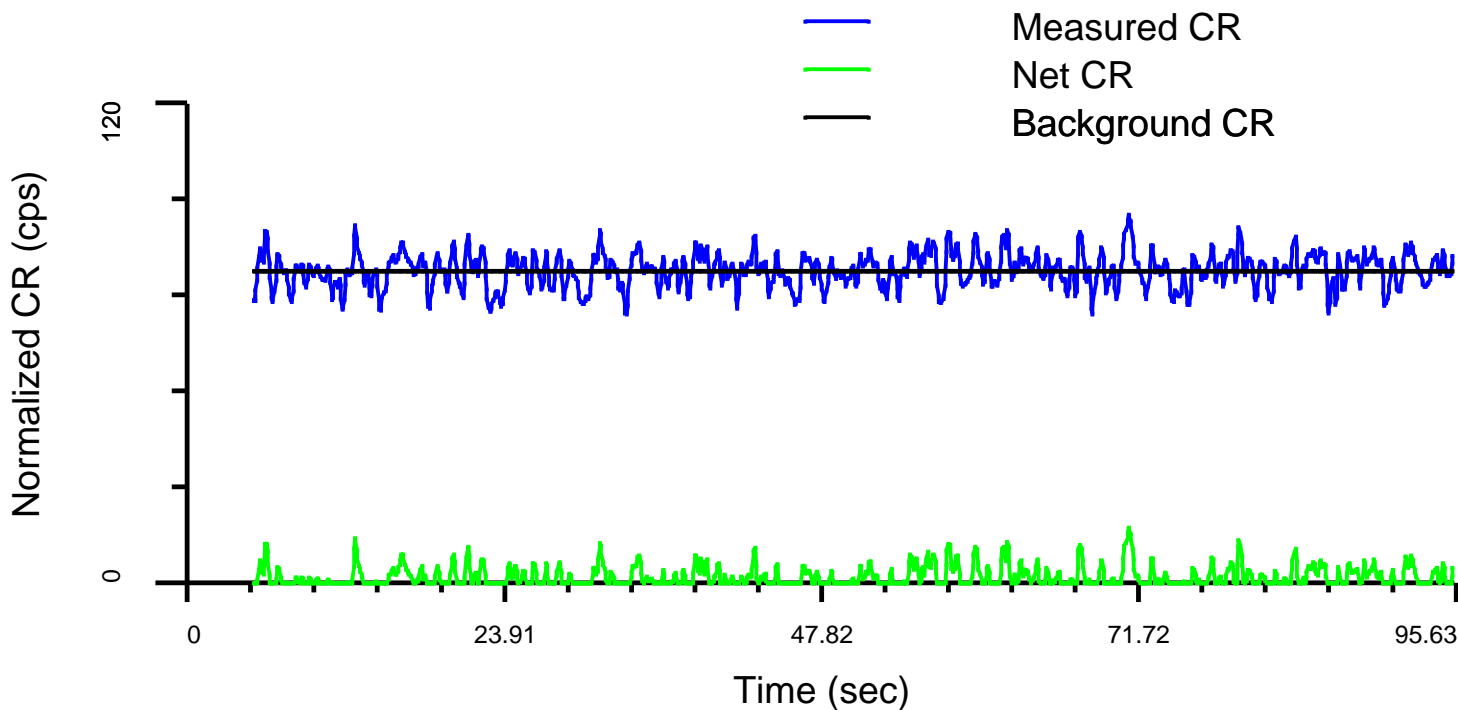


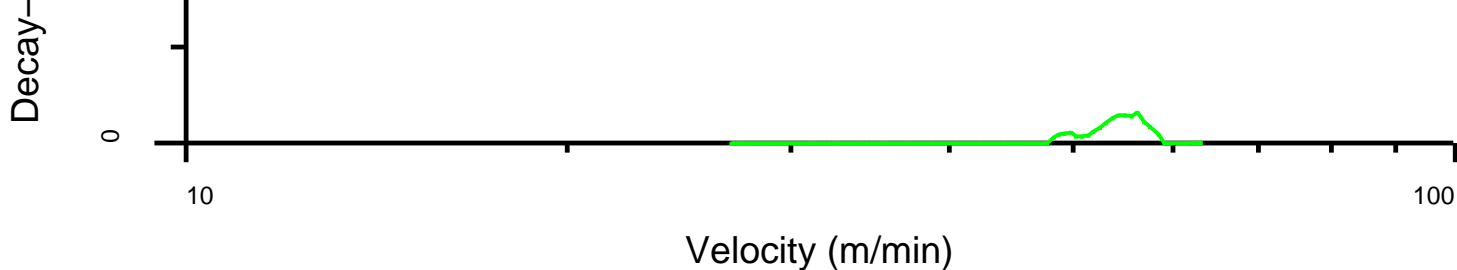
RST WFL Station Summary

09-Jul-2006 08:29

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
080	PBMS-GR	2765.2	2760.0	No	---	---

Data Acquired on: 09-Jul-2006 08:10
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 11





Schlumberger

Shut In RST-WFL
Station 2765m Fast

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 08:09

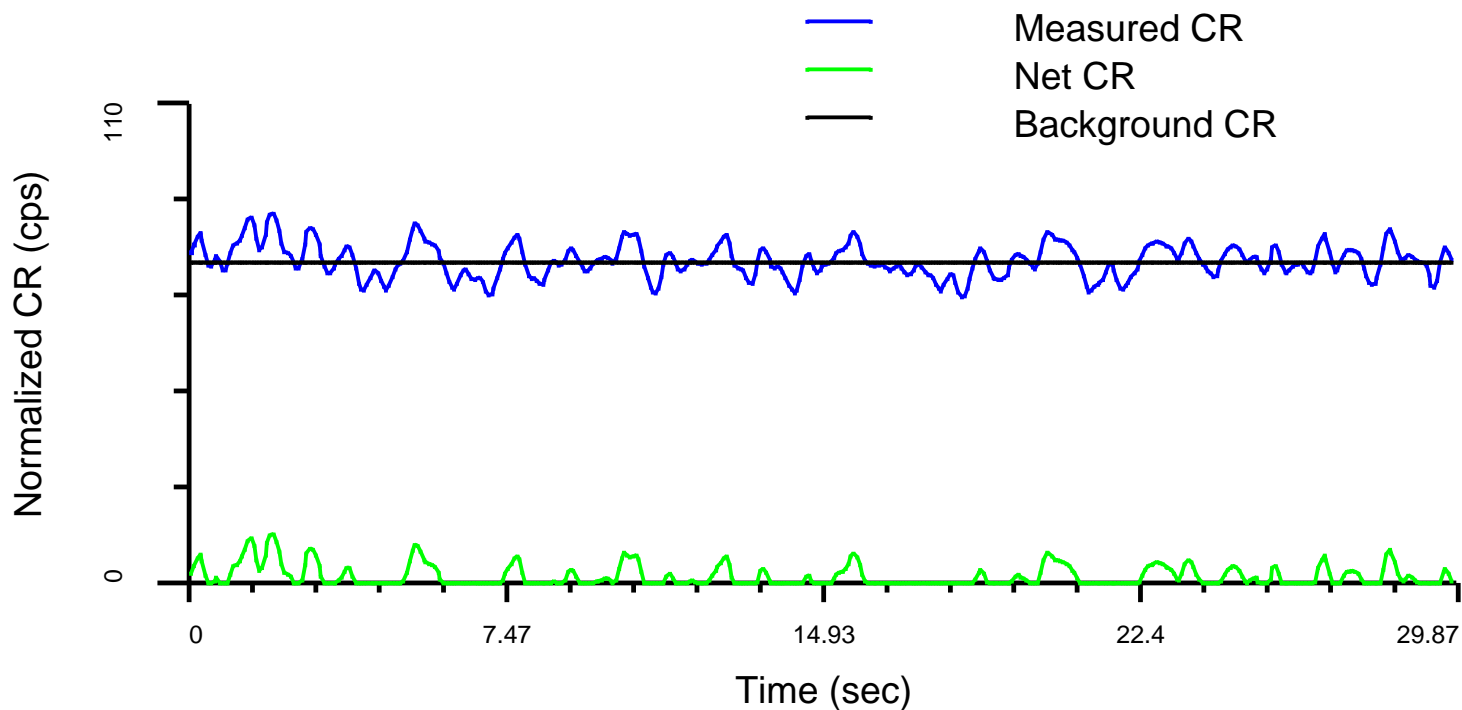
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
079	WPGR	2765.2	2769.6	No	---	---

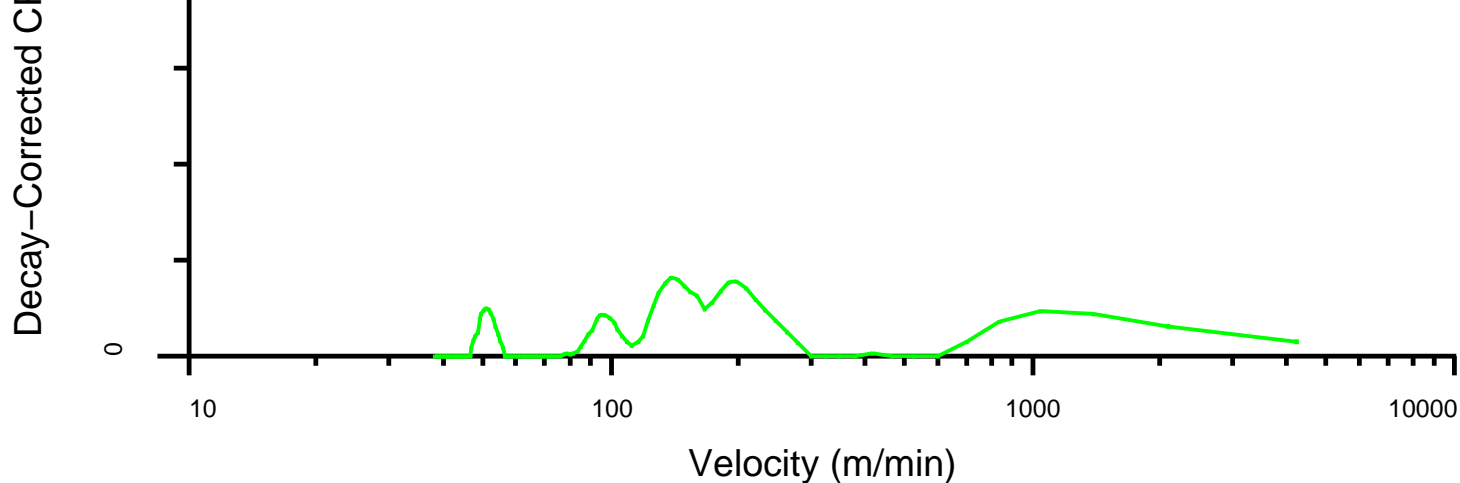
Data Acquired on: 09-Jul-2006 08:03

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 08:09

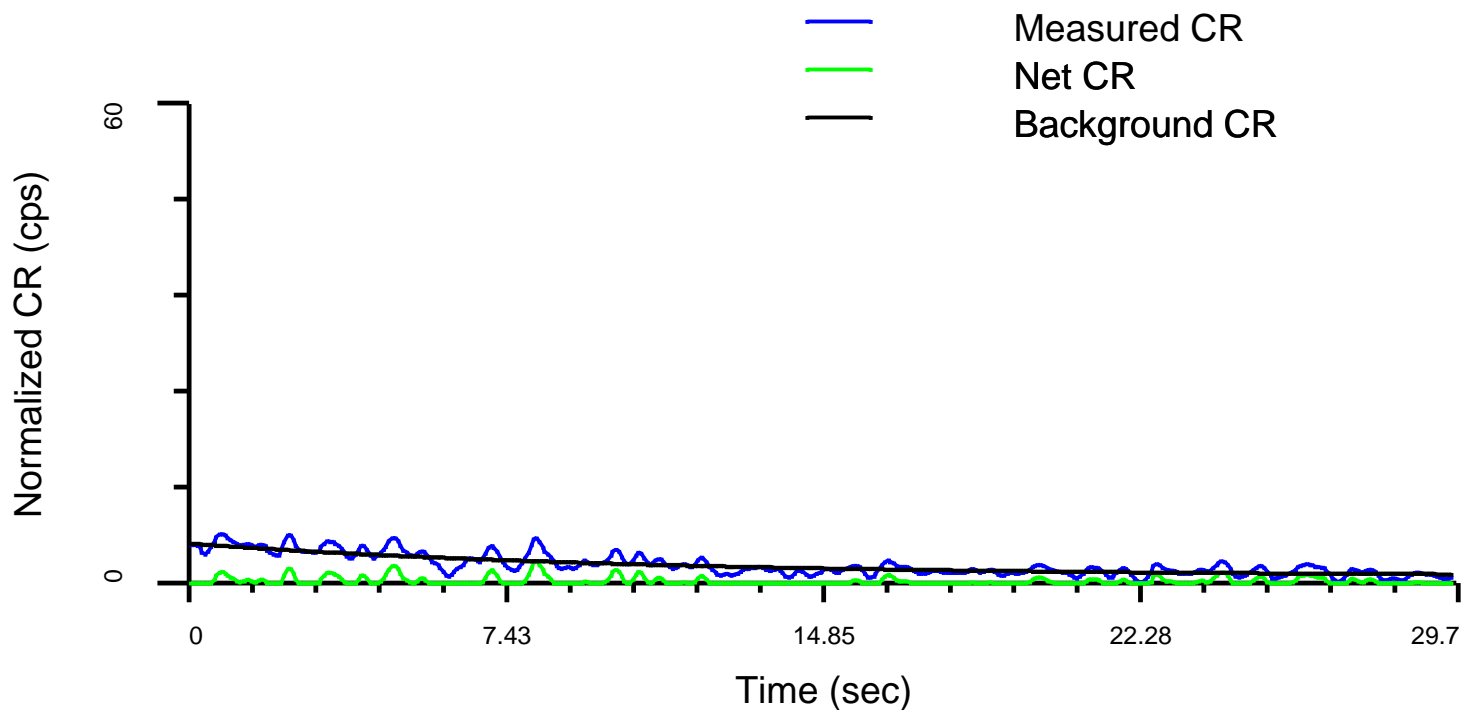
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
079	RST-Near	2765.2	2765.0	No	---	---

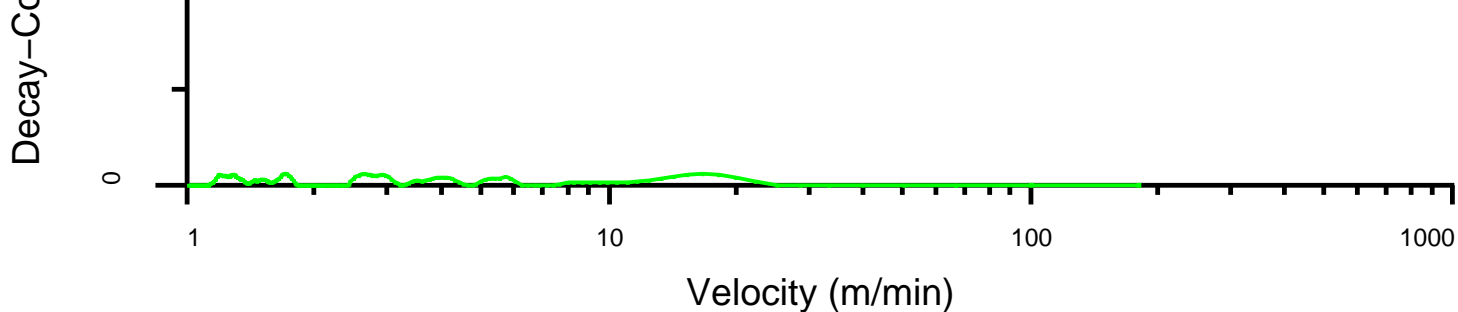
Data Acquired on: 09-Jul-2006 08:03

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 08:09

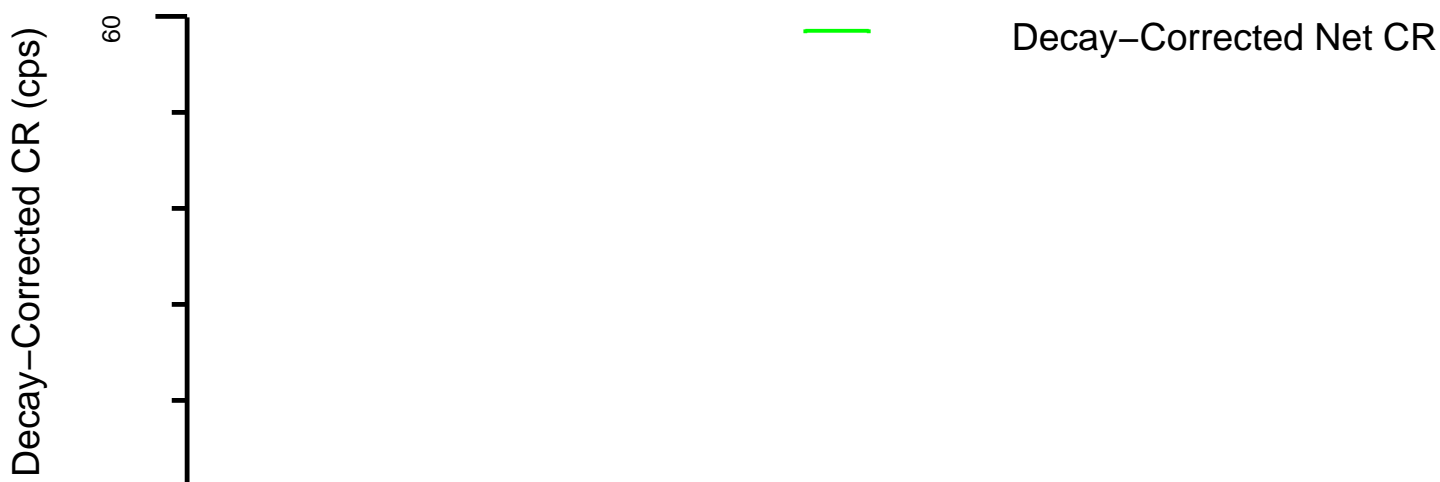
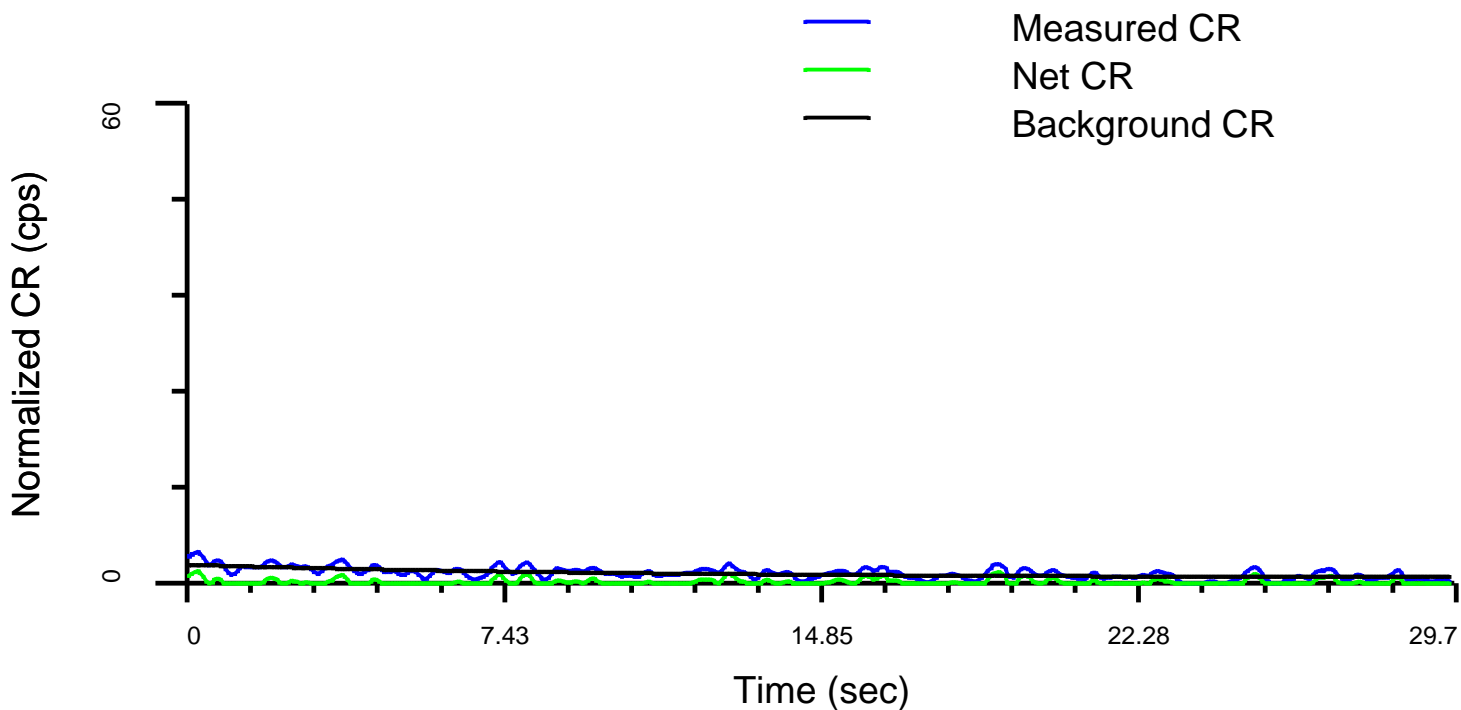
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
079	RST-Far	2765.2	2764.8	No	---	---

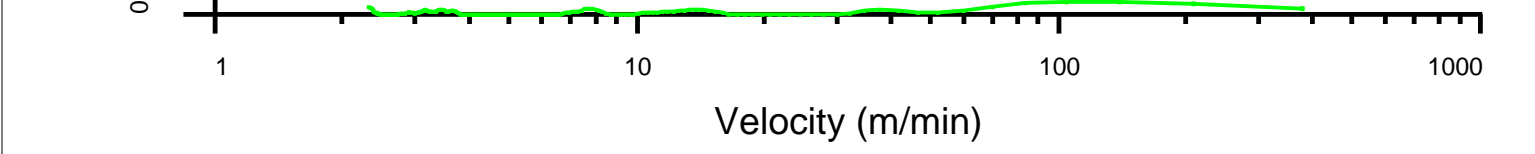
Data Acquired on: 09-Jul-2006 08:03

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10



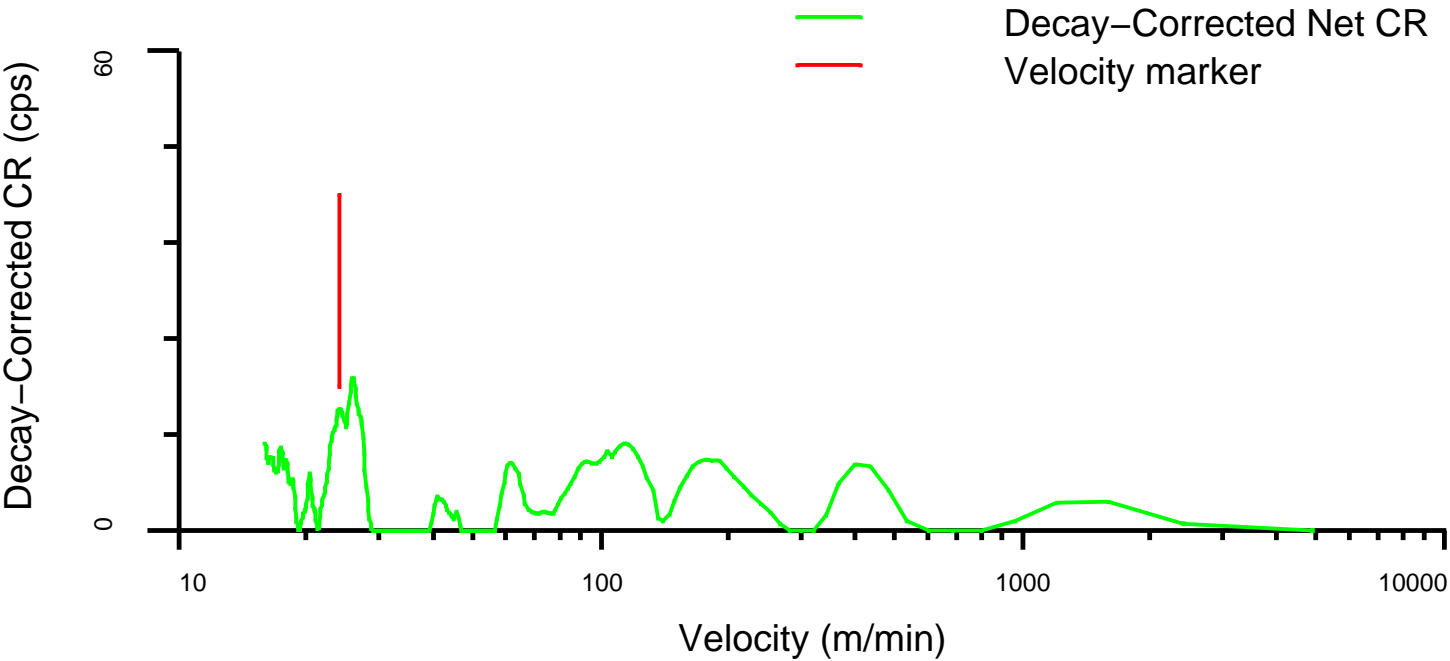
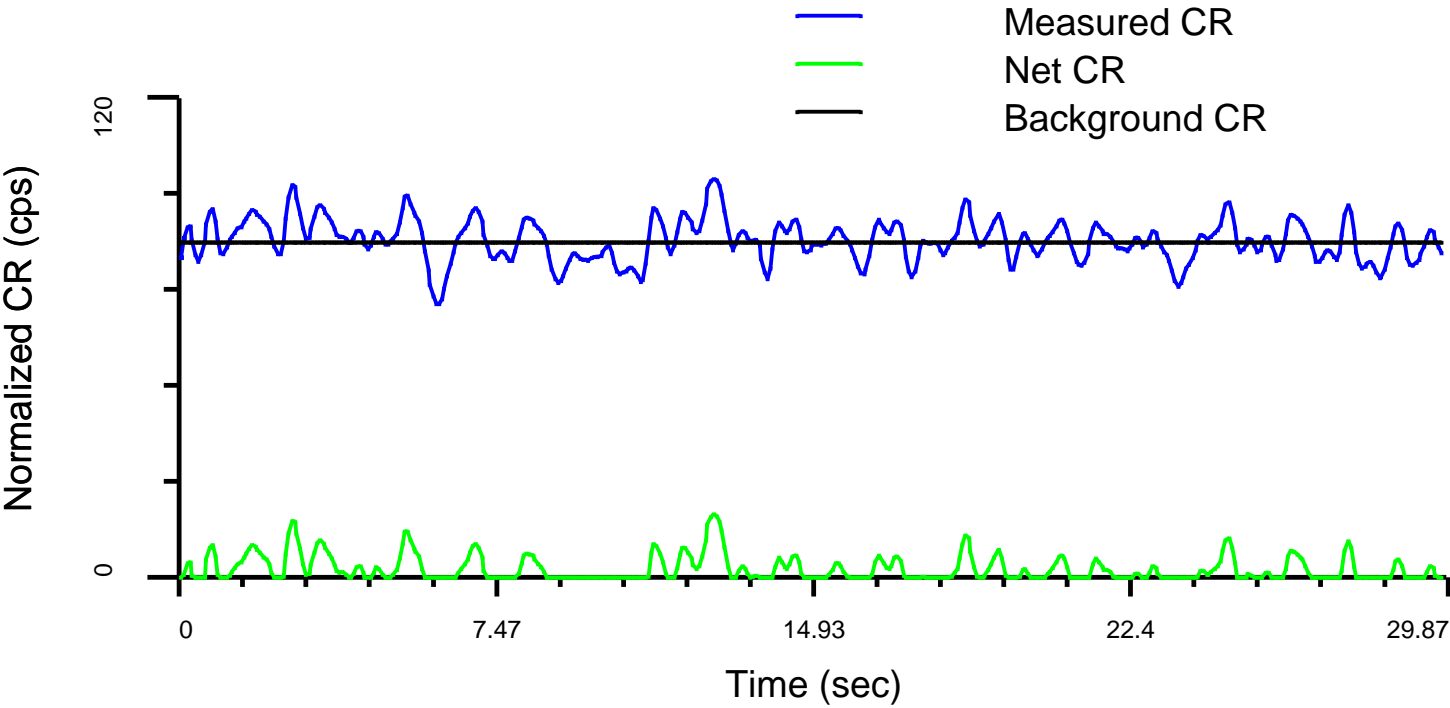


RST WFL Station Summary

09-Jul-2006 08:09

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
079	PBMS-GR	2765.2	2760.0	Unknown	24.0	---

Data Acquired on: 09-Jul-2006 08:03
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 0.07 sec On – 29.87 sec Off
Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 08:01

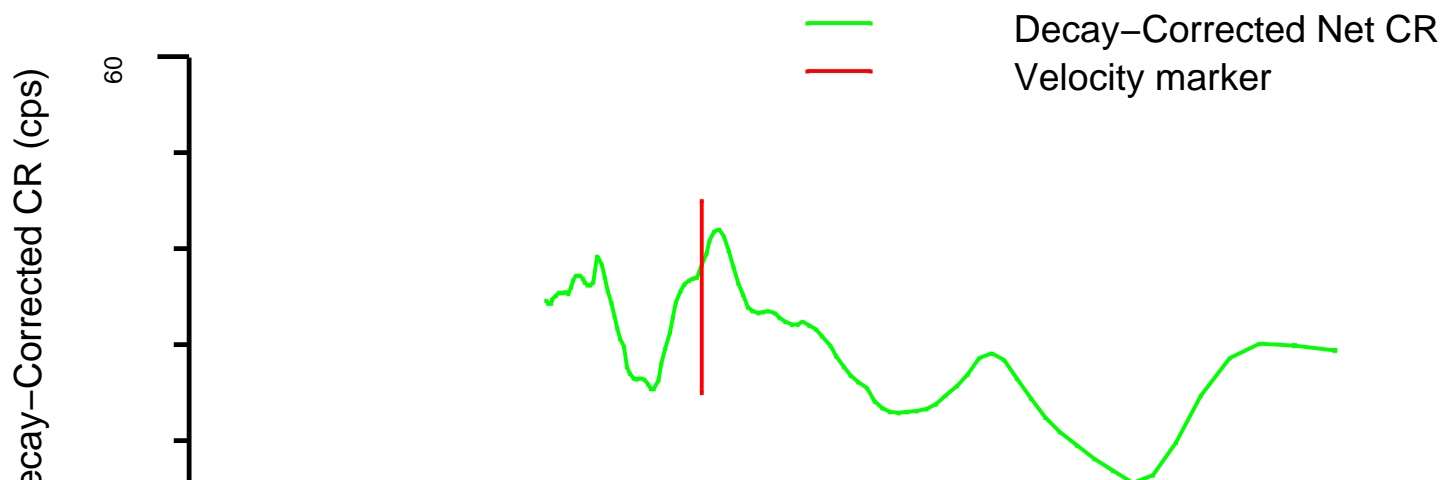
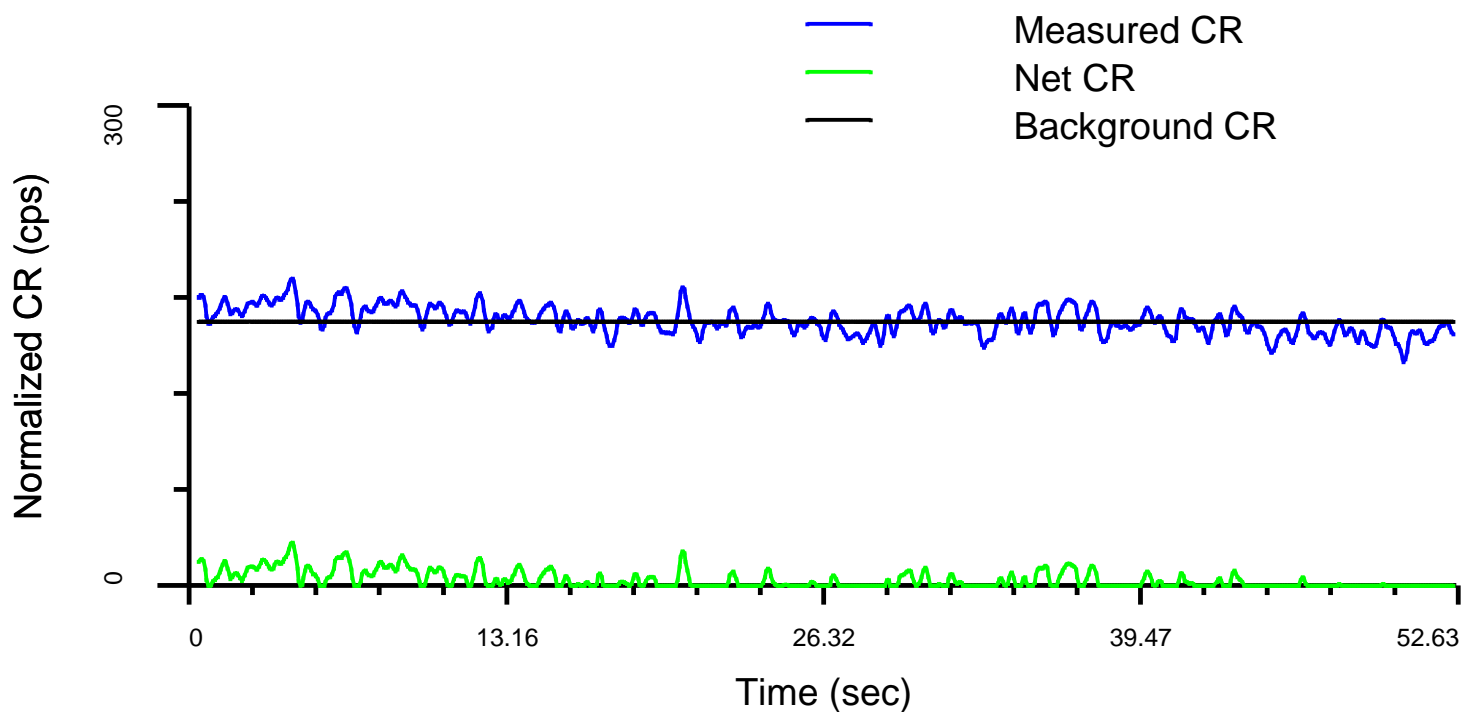
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
078	WPGR	2765.2	2769.6	Unknown	-64.3	9.0

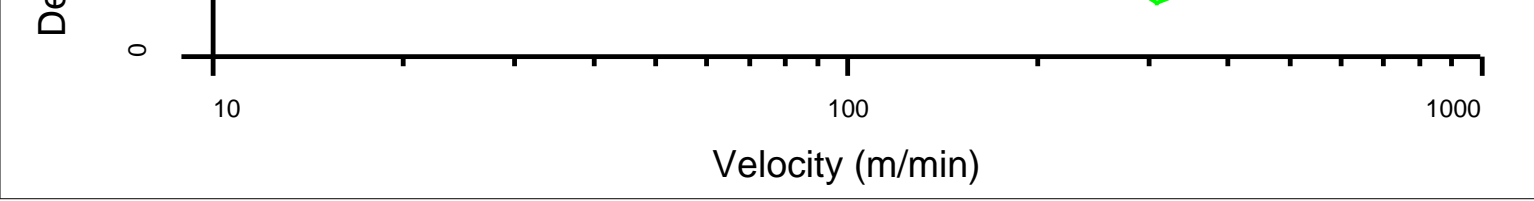
Data Acquired on: 09-Jul-2006 07:51

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10



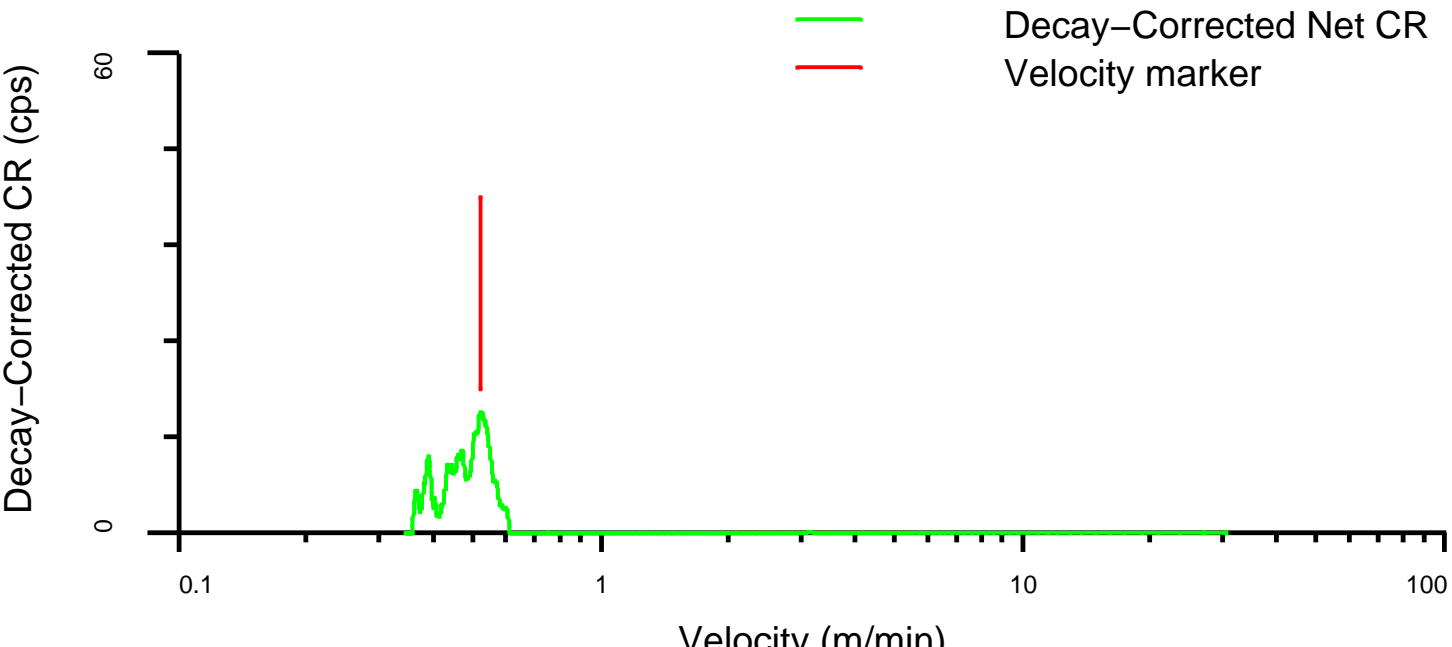
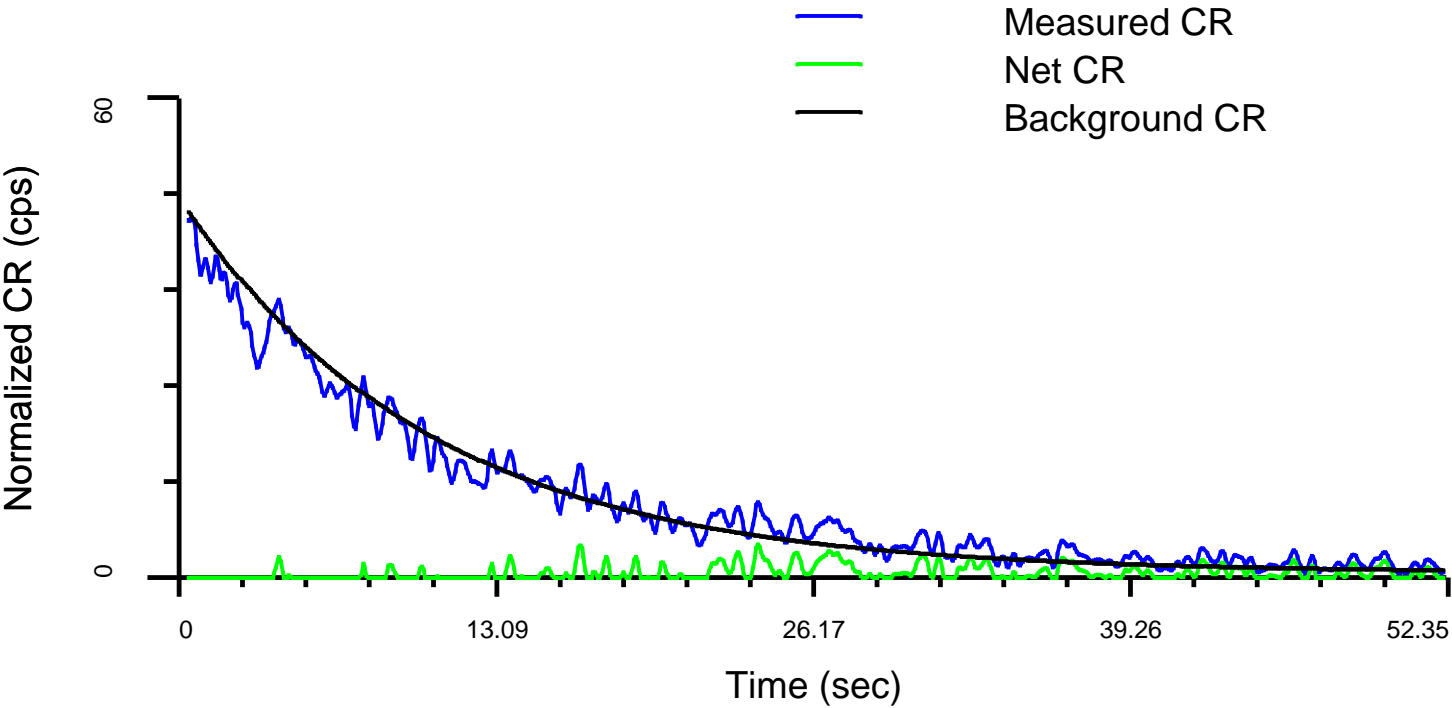


RST WFL Station Summary

09-Jul-2006 08:01

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
078	RST-Near	2765.2	2765.0	Unknown	0.5	---

Data Acquired on: 09-Jul-2006 07:51
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 0.80 sec On - 52.27 sec Off
Number of WFL Cycles: 10

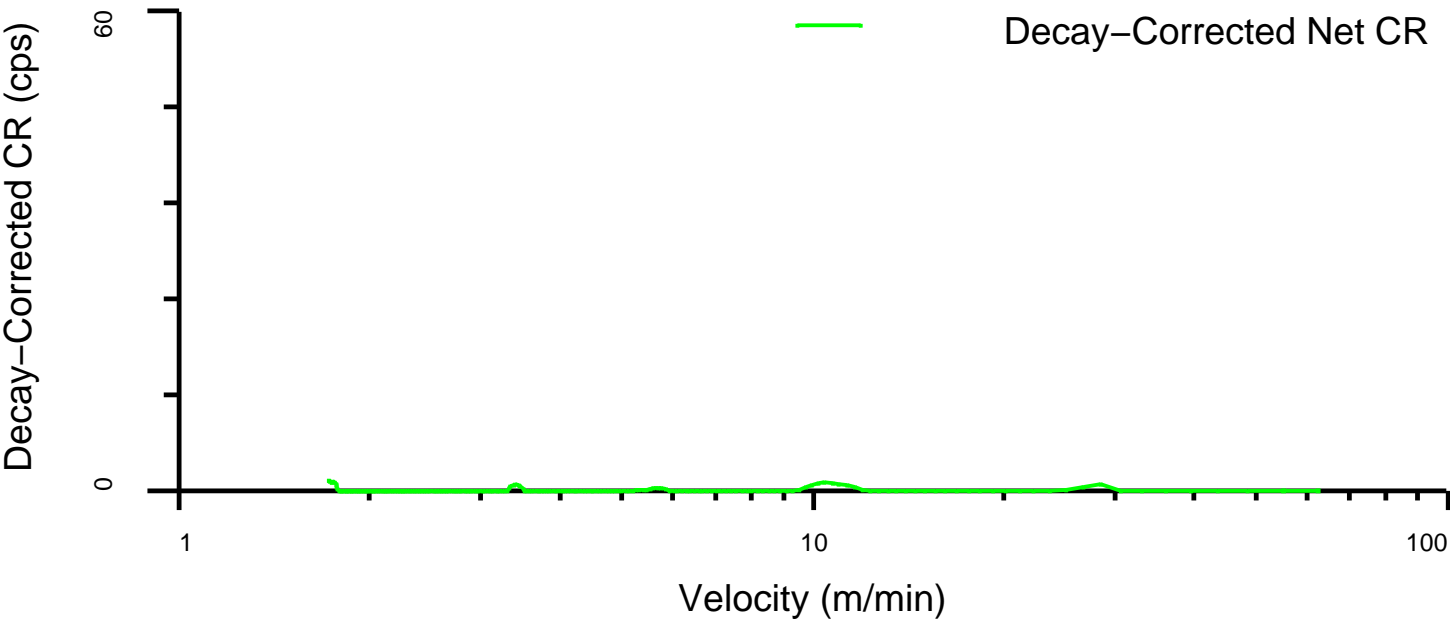
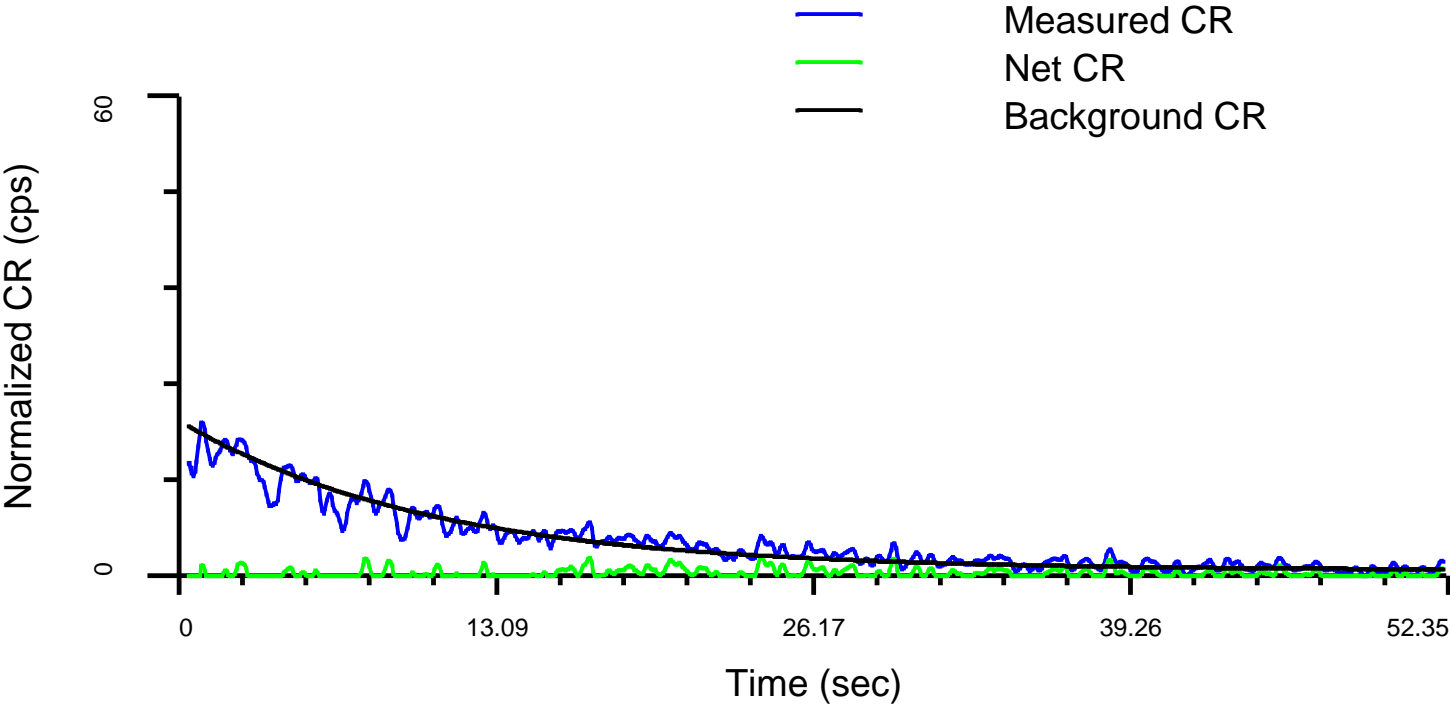


RST WFL Station Summary

09-Jul-2006 08:01

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
078	RST-Far	2765.2	2764.8	No	---	---

Data Acquired on: 09-Jul-2006 07:51
Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 0.80 sec On – 52.27 sec Off
Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 08:01

Log File	WFL	Start	Stop	Flow	Velocity	Velocity
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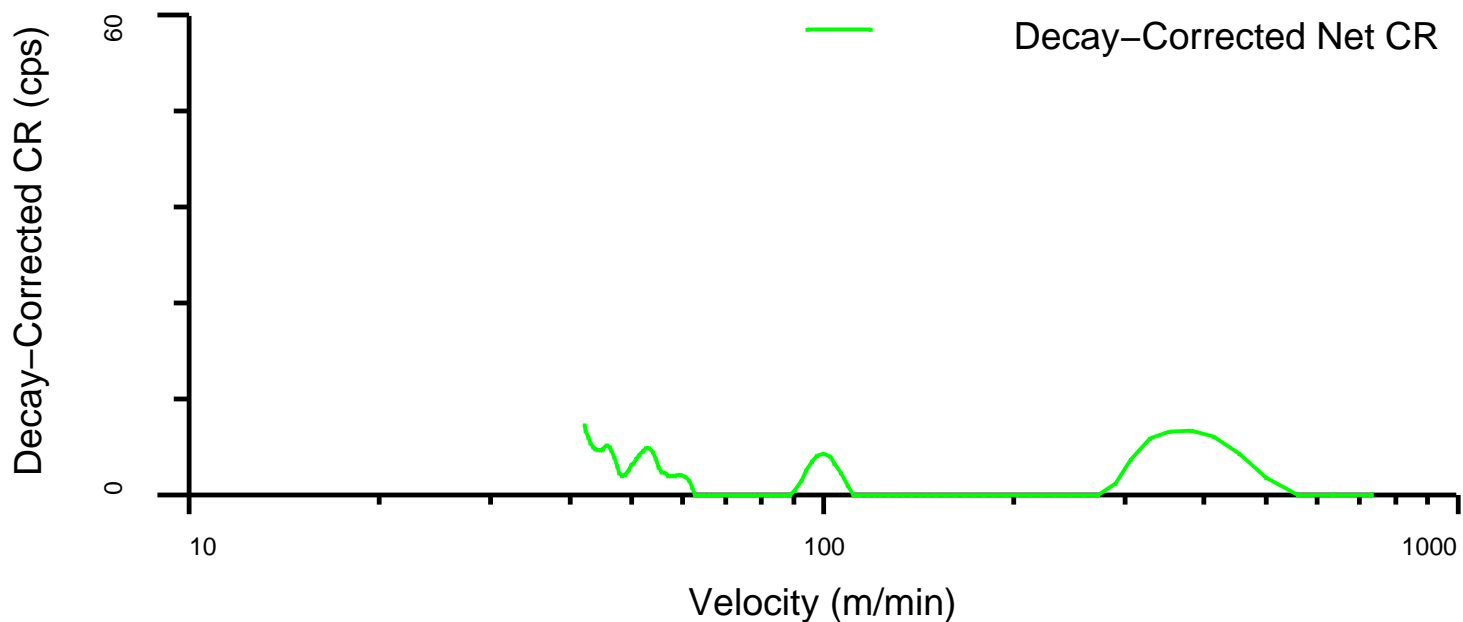
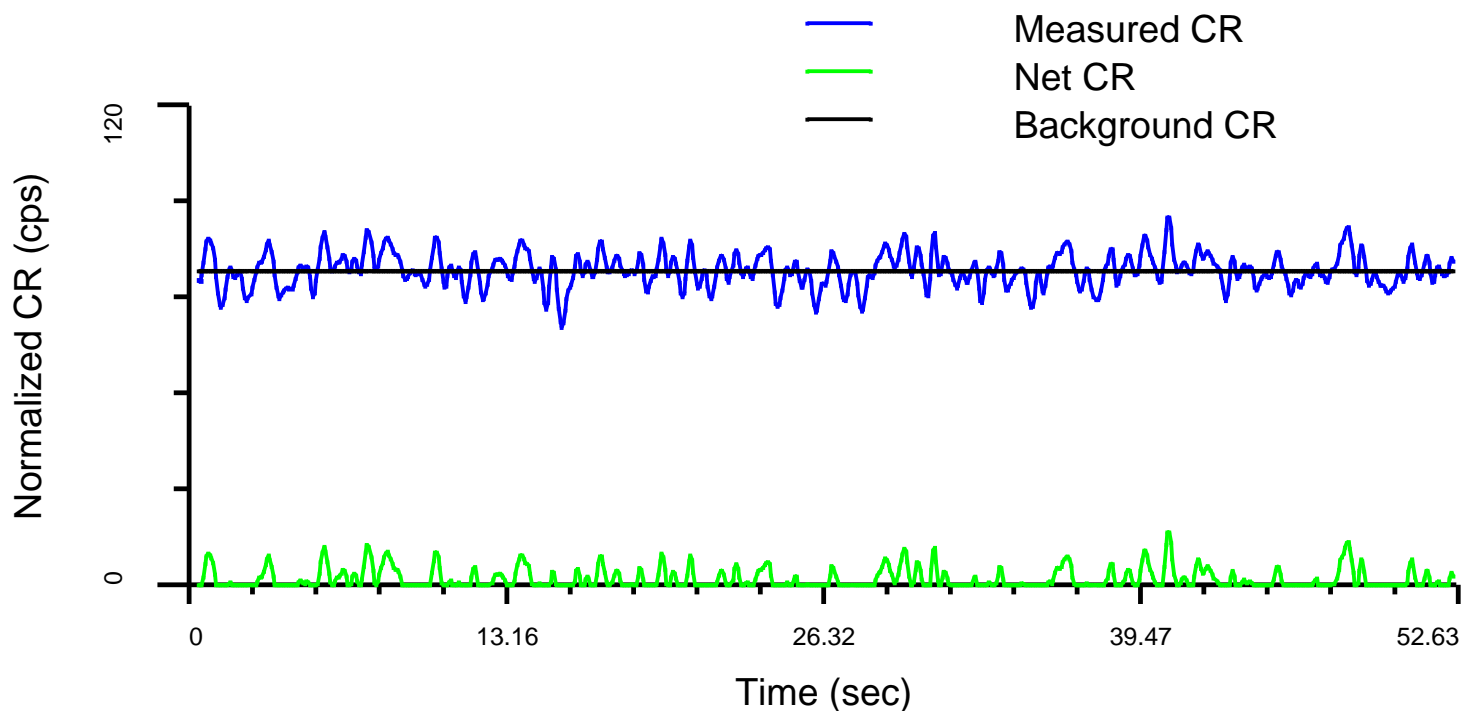
Number	Detector	Depth (m)	Depth (m)	Detected	(m/min)	Error (m/min)
078	PBMS-GR	2765.2	2760.0	No	---	---

Data Acquired on: 09-Jul-2006 07:51

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On – 52.27 sec Off

Number of WFL Cycles: 10

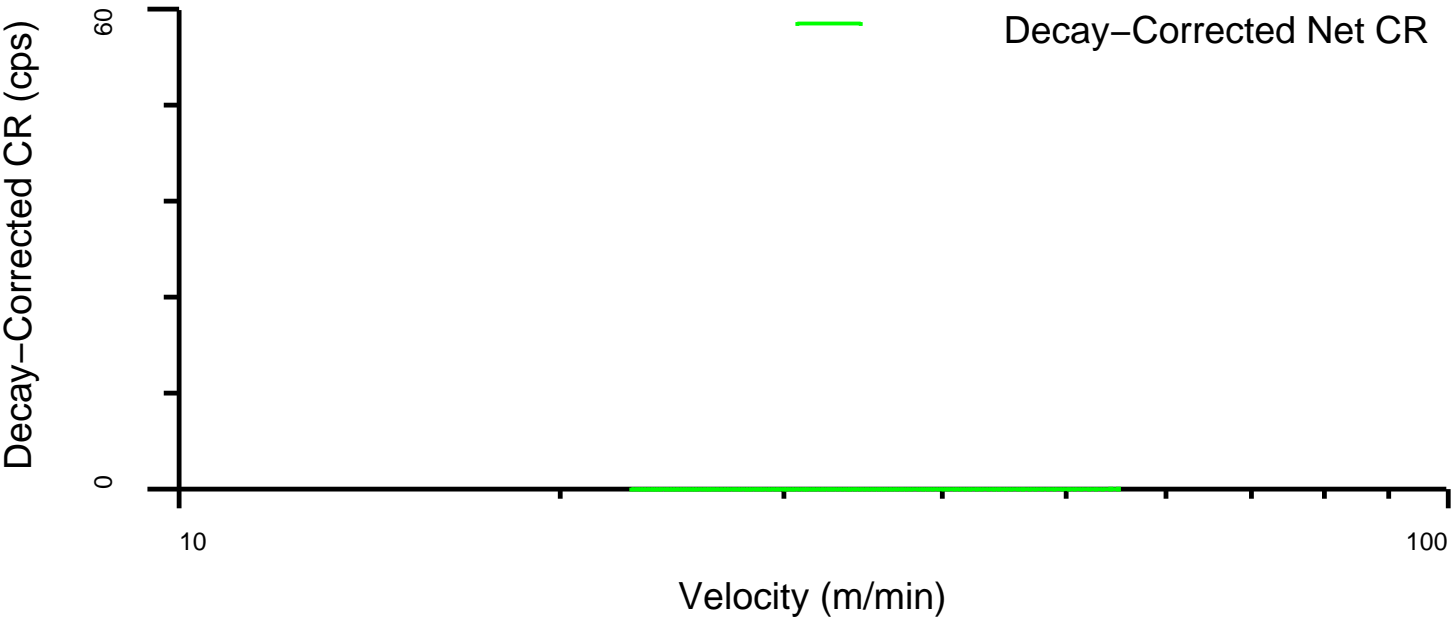
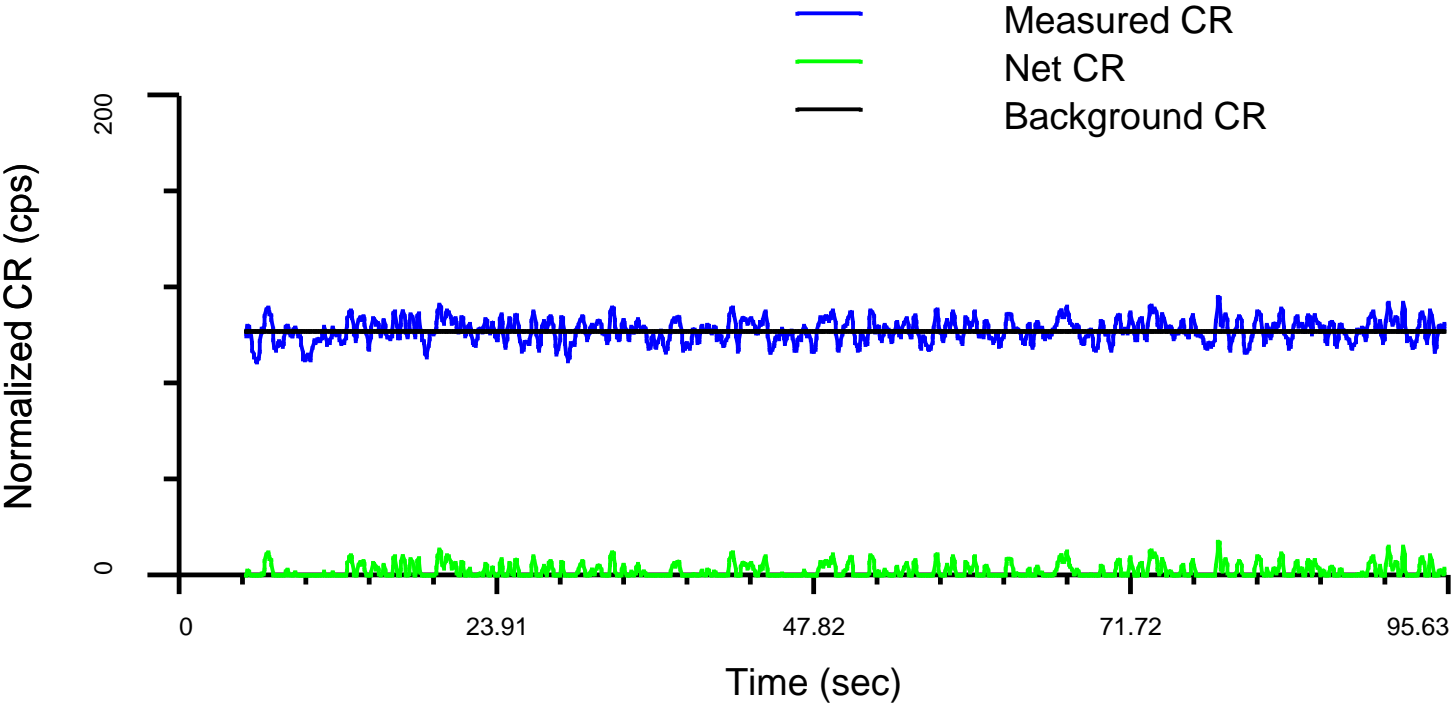


Schlumberger

Shut In RST-WFL
Station 2775.5m Slow

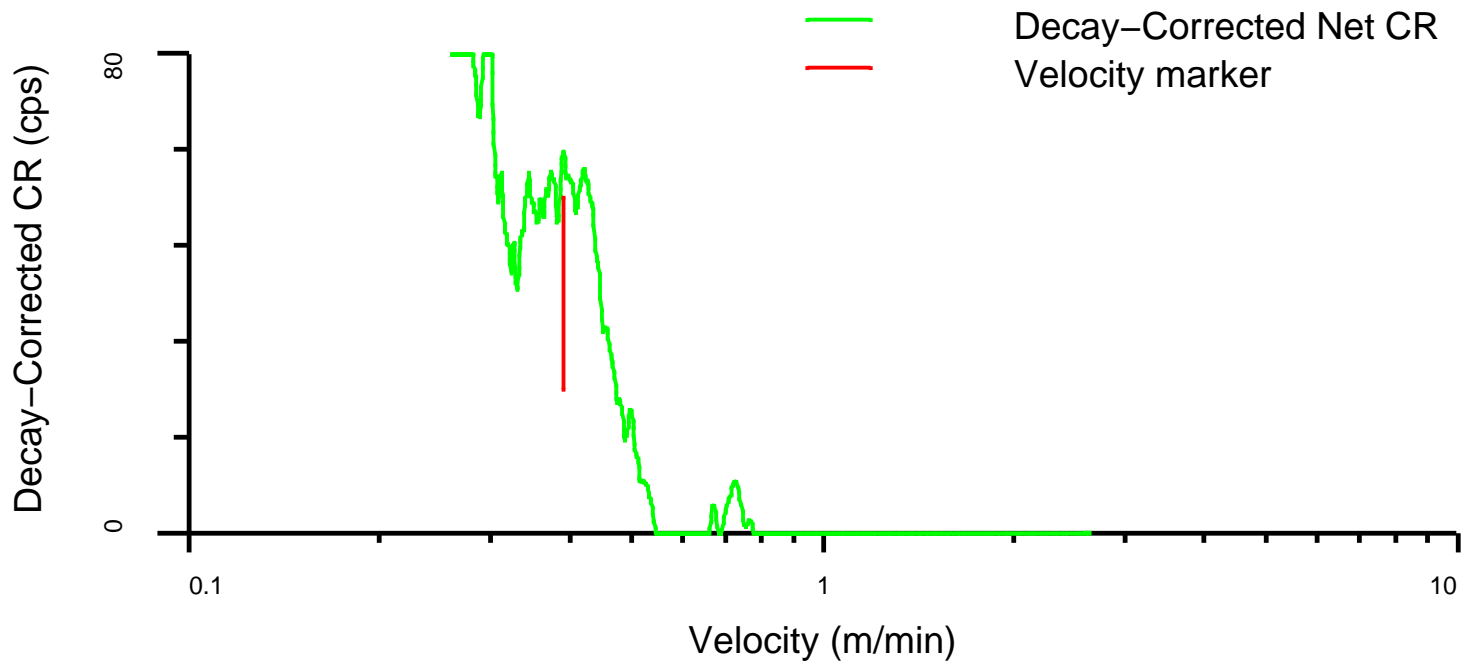
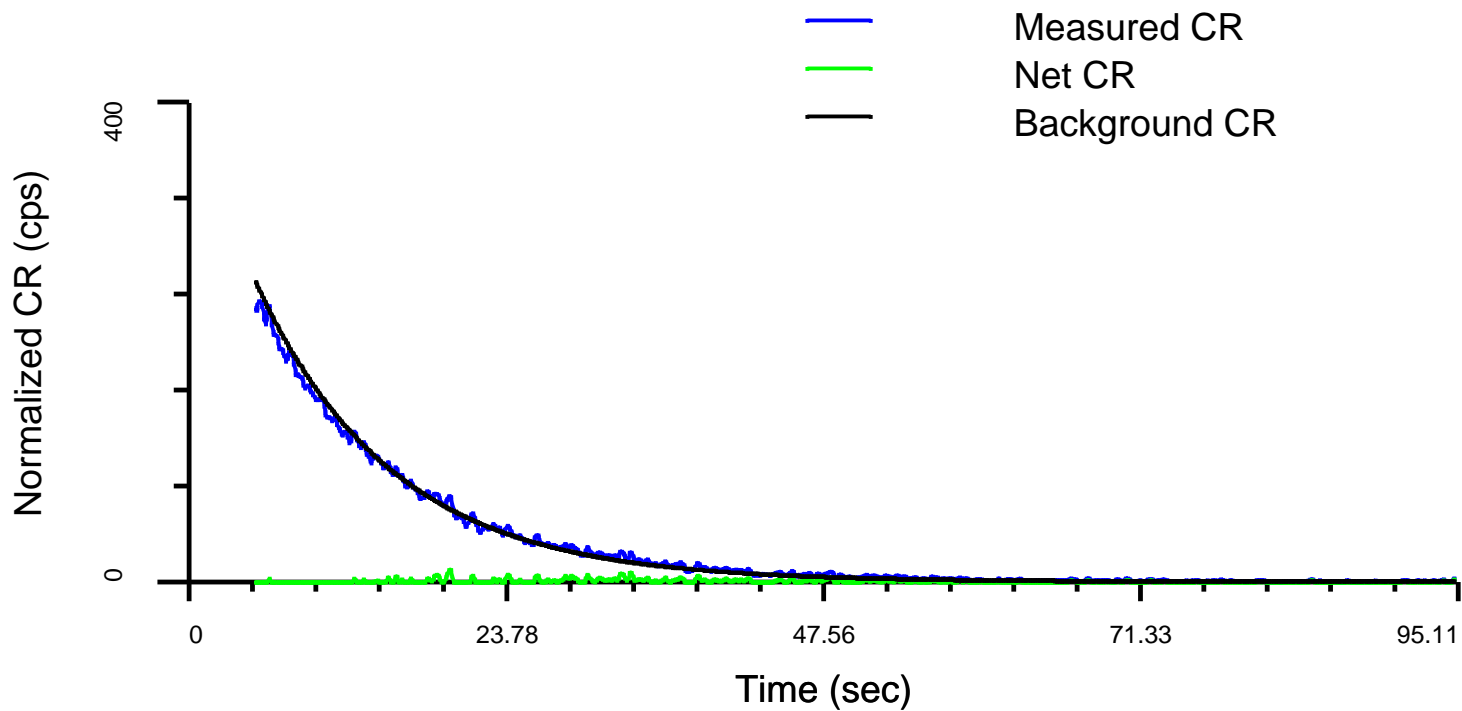
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
077	WPGR	2775.8	2780.2	No	---	---

Data Acquired on: 09-Jul-2006 07:26
Detector is below Minitron (sensitive to Down Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 11



Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
077	RST-Near	2775.8	2775.6	Unknown	0.4	0.2

Data Acquired on: 09-Jul-2006 07:26
 Detector is above Minitron (sensitive to Up Flow)
 WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
 Number of WFL Cycles: 11



RST WFL Station Summary

09-Jul-2006 07:45

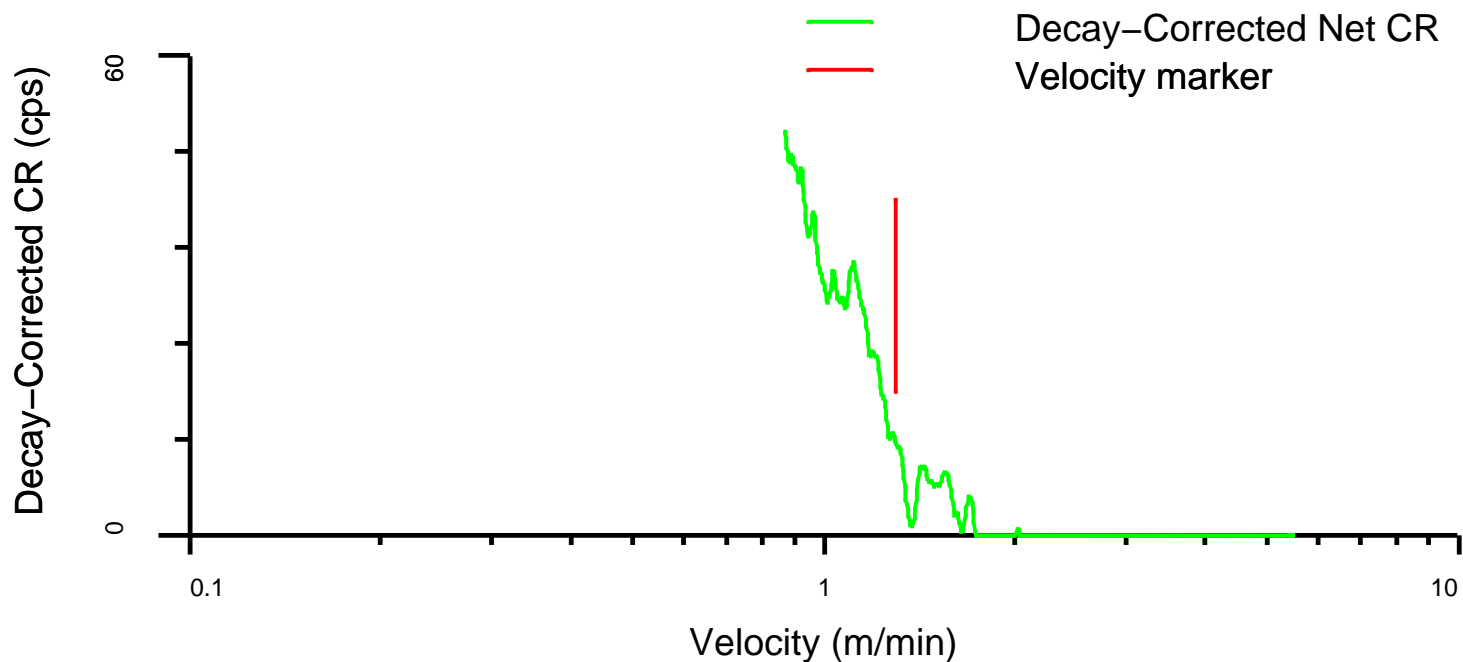
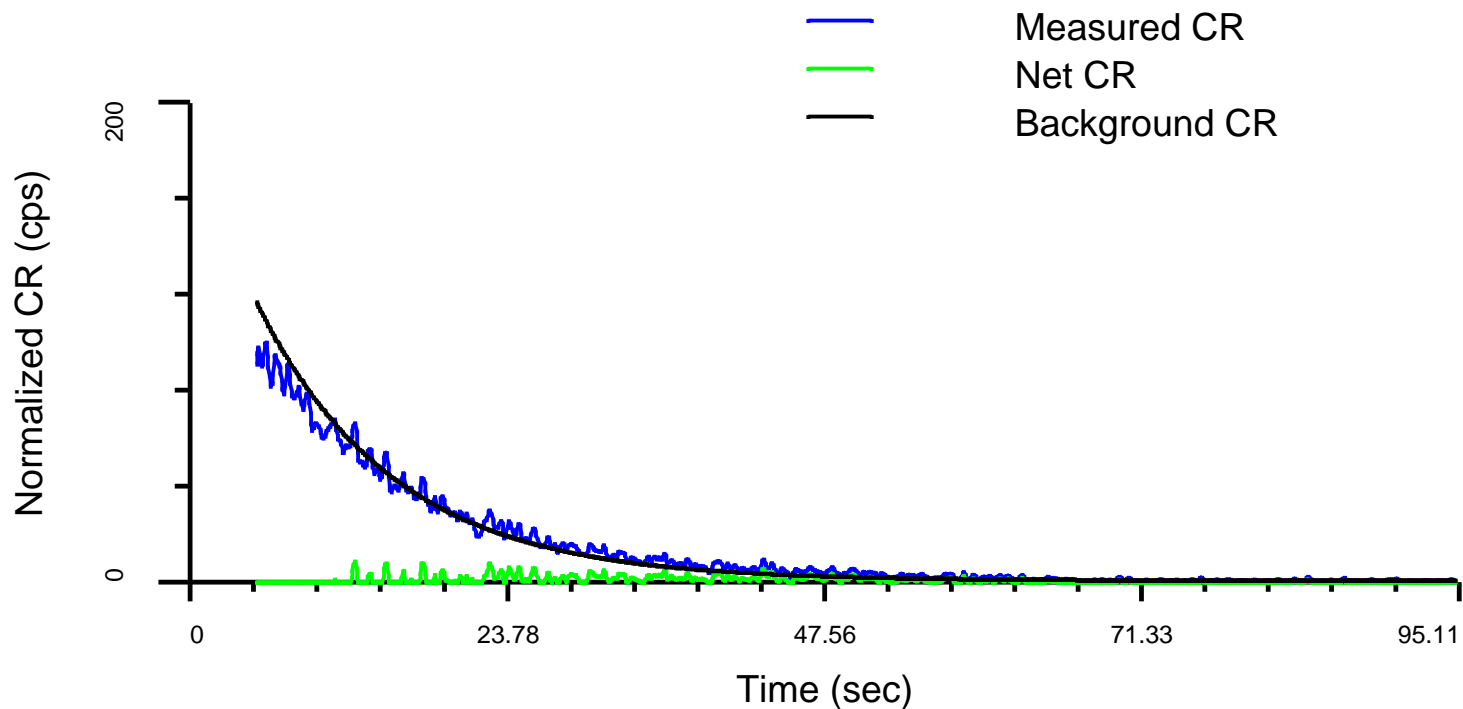
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
077	RST-Far	2775.8	2775.4	Unknown	1.3	0.3

Data Acquired on: 09-Jul-2006 07:26

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 11



RST WFL Station Summary

09-Jul-2006 07:45

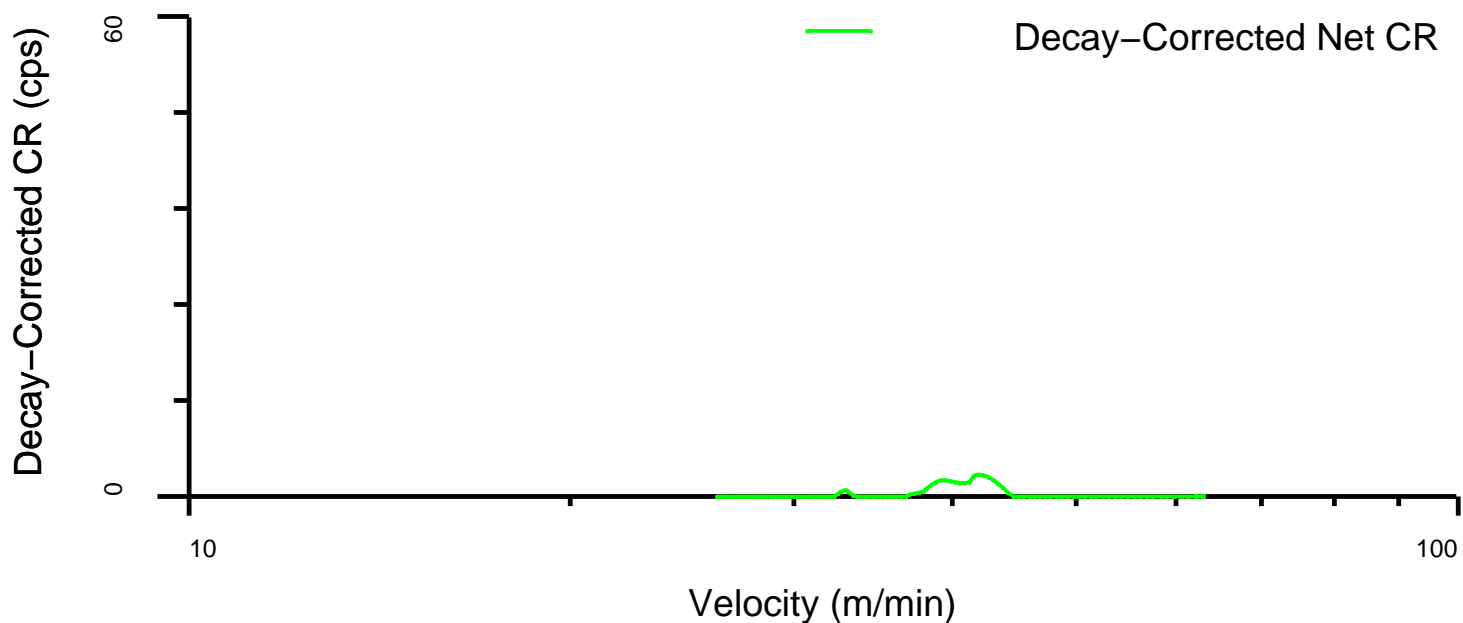
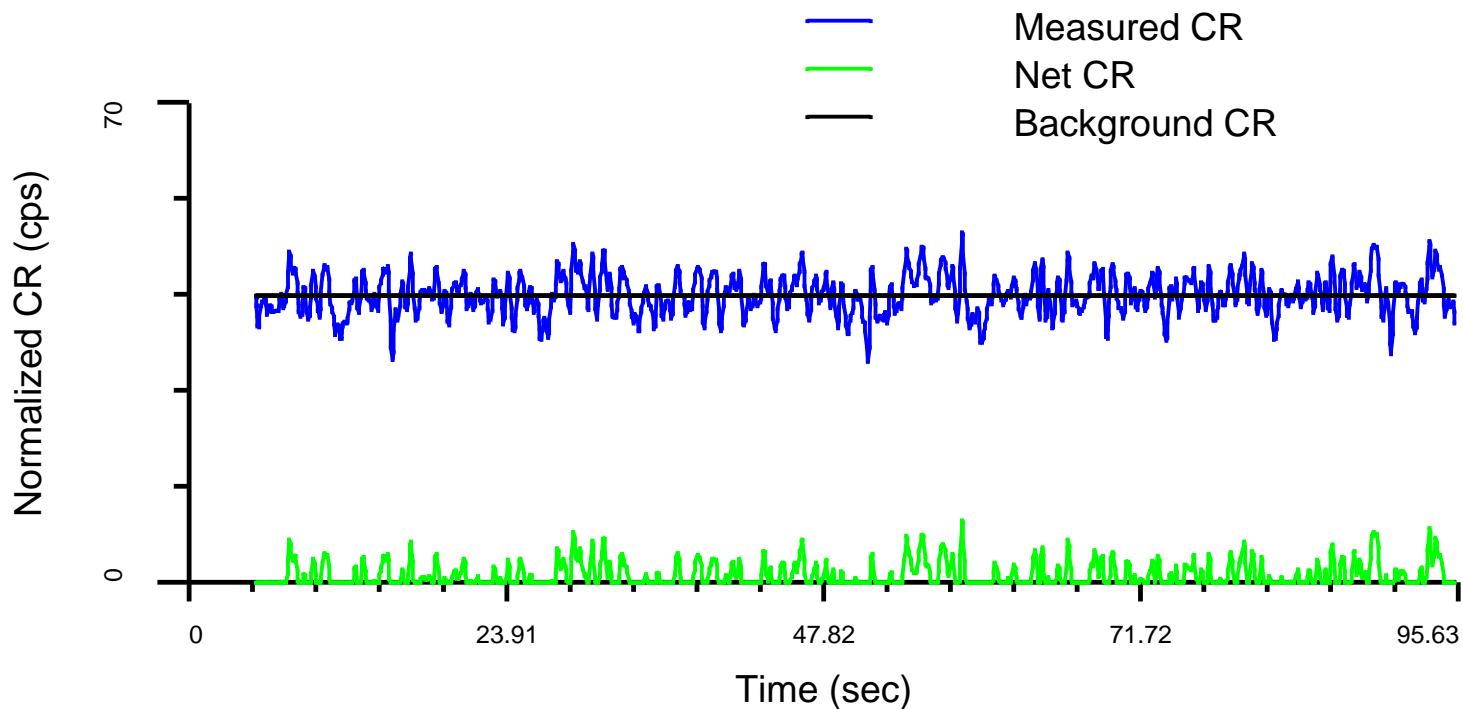
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
077	PBMS-GR	2775.8	2770.6	No	---	---

Data Acquired on: 09-Jul-2006 07:26

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 11



RST WFL Station Summary

09-Jul-2006 07:24

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
076	WPGR	2775.8	2780.2	No	---	---

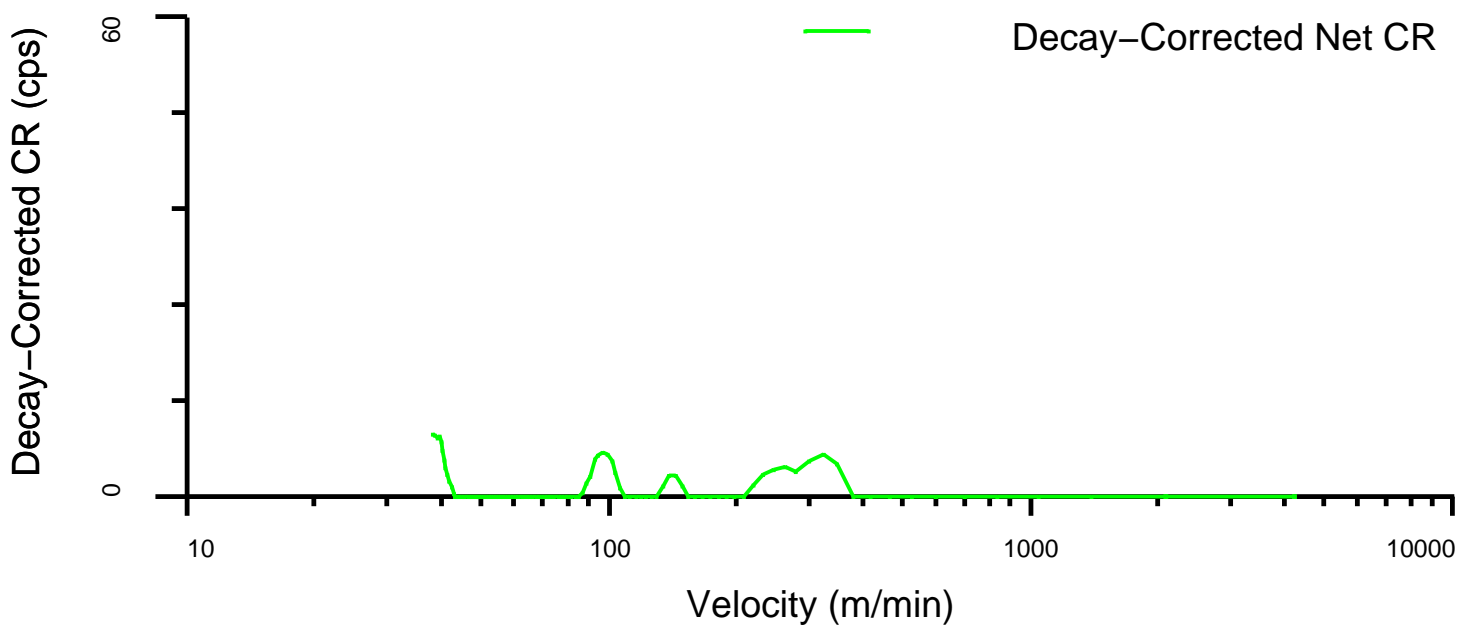
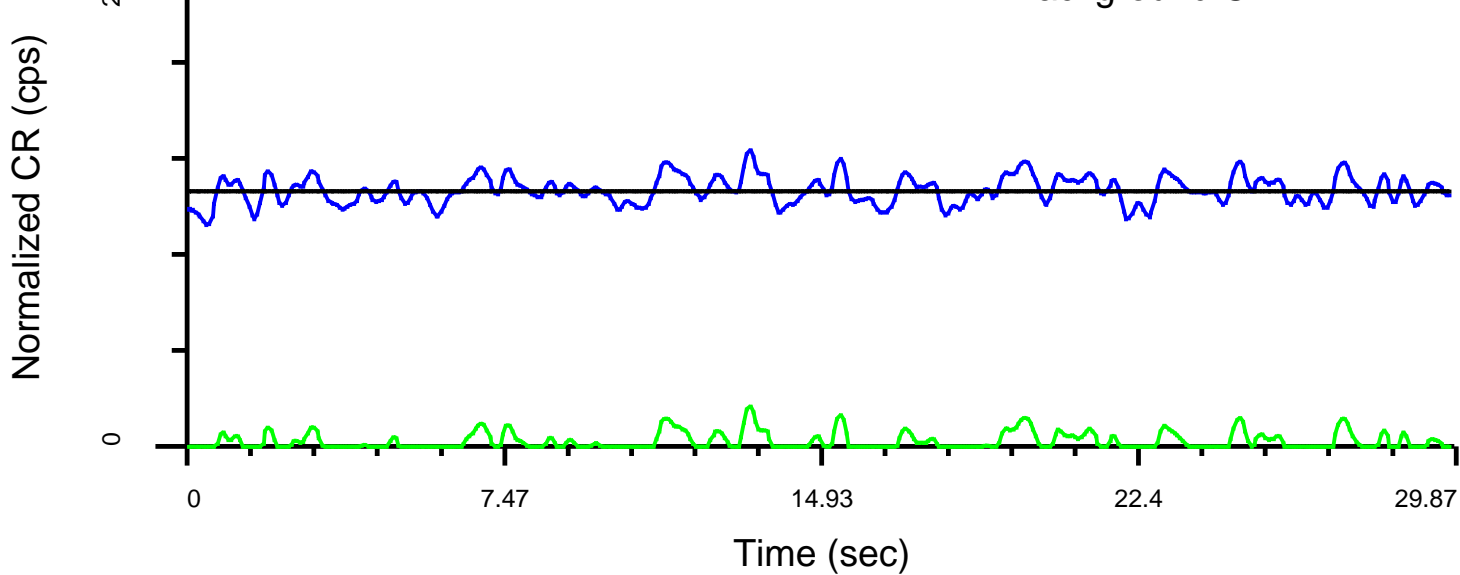
Data Acquired on: 09-Jul-2006 07:18

Detector is below Minitrone (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





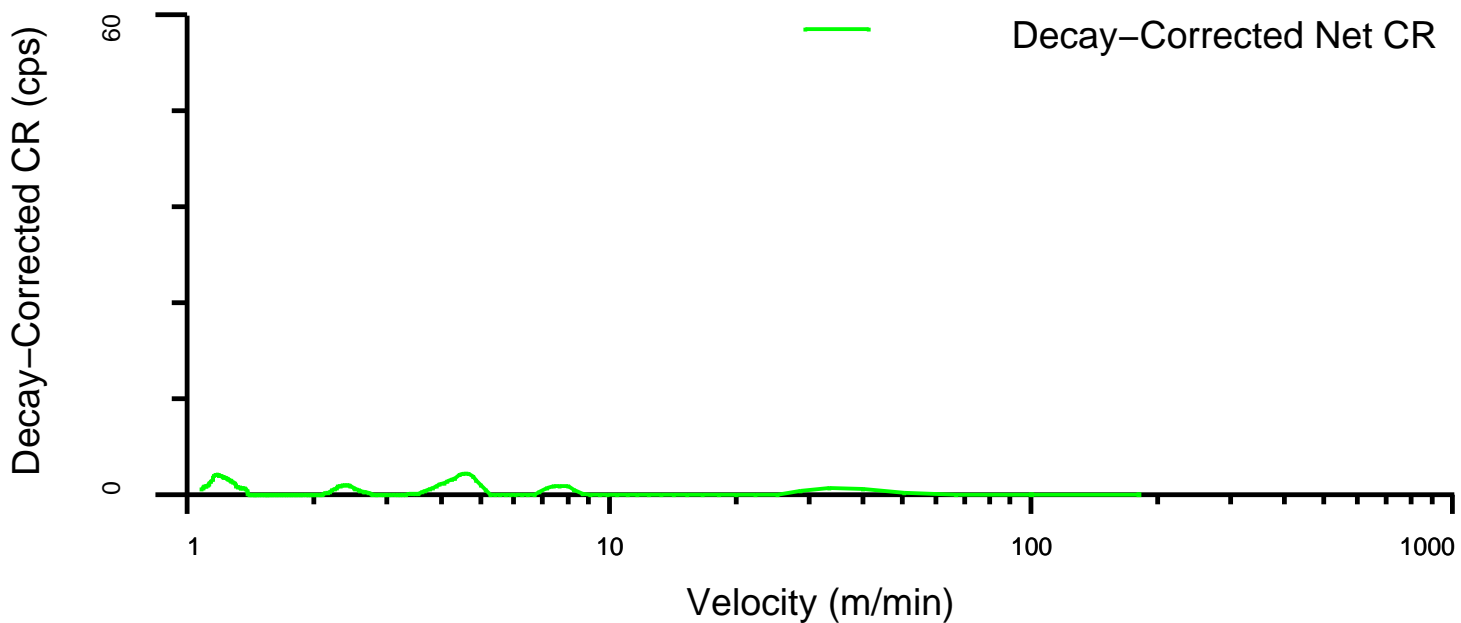
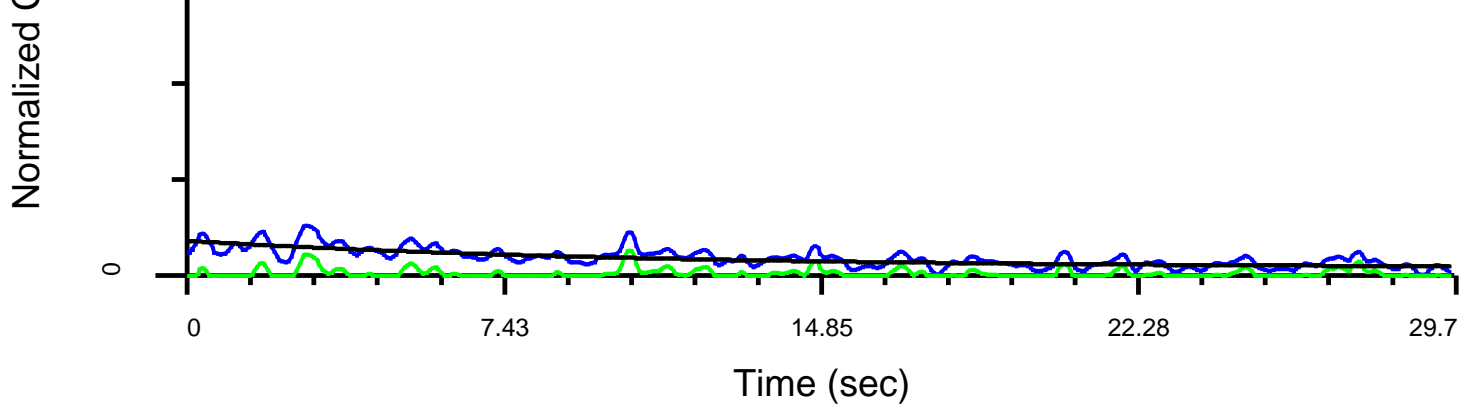
RST WFL Station Summary

09-Jul-2006 07:24

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
076	RST-Near	2775.8	2775.6	No	---	---

Data Acquired on: 09-Jul-2006 07:18
 Detector is above Minitron (sensitive to Up Flow)
 WFL Subcycle Time: 0.07 sec On - 29.87 sec Off
 Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 07:24

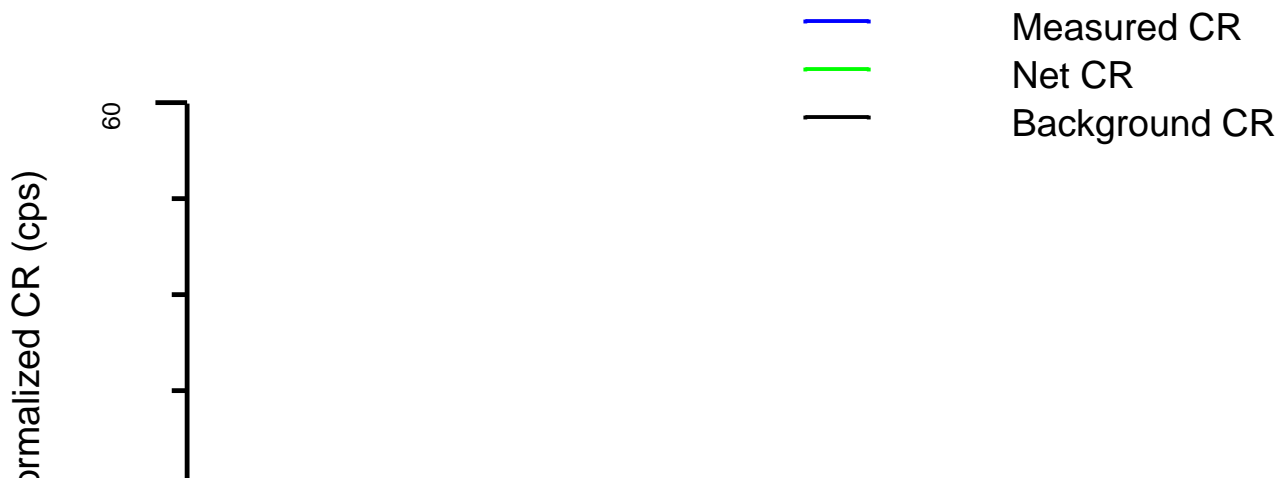
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
076	RST-Far	2775.8	2775.4	No	---	---

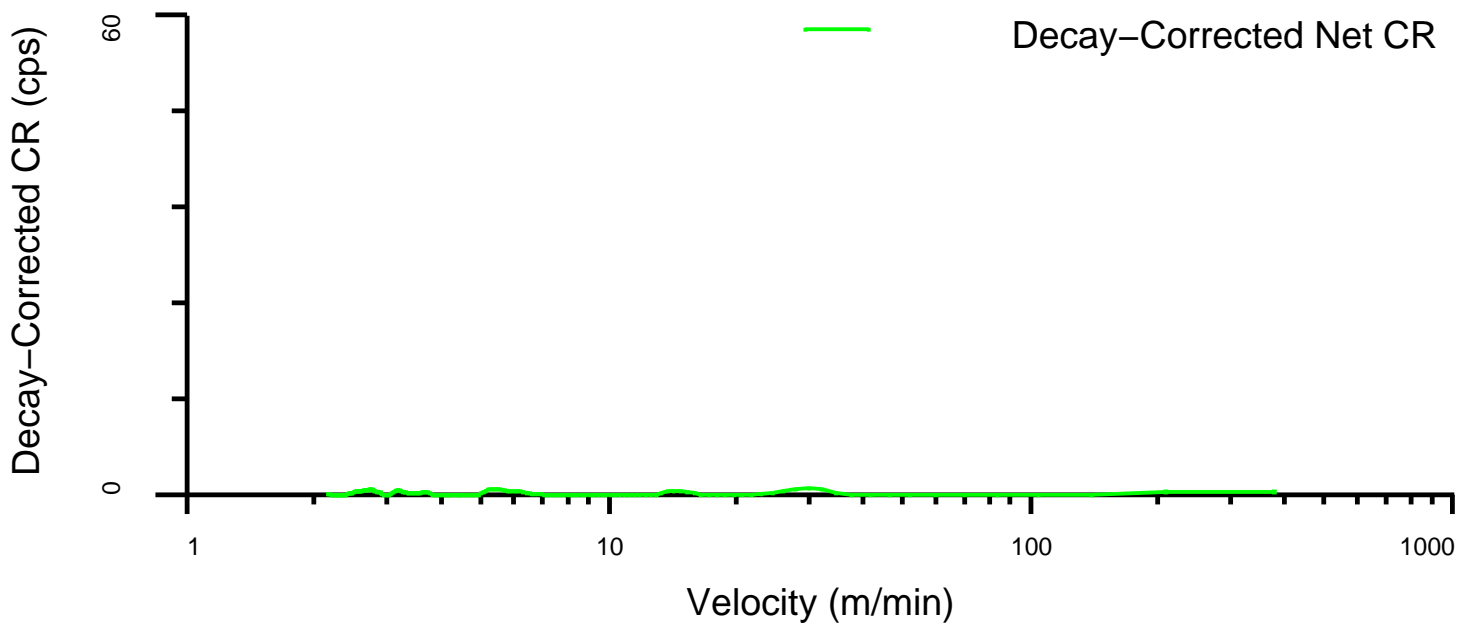
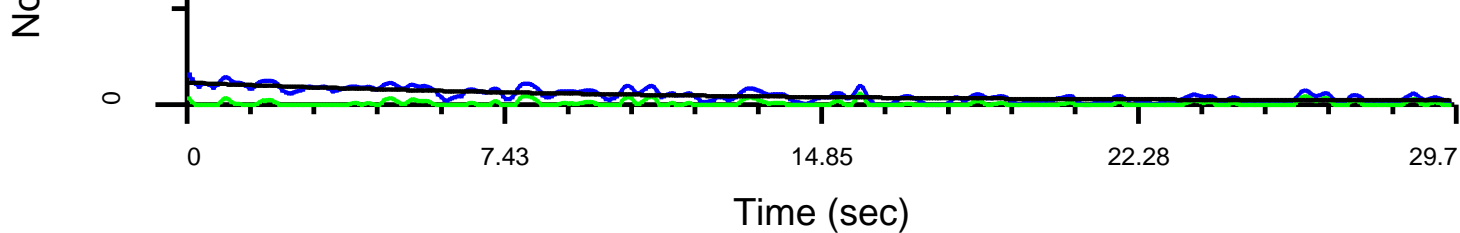
Data Acquired on: 09-Jul-2006 07:18

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 07:24

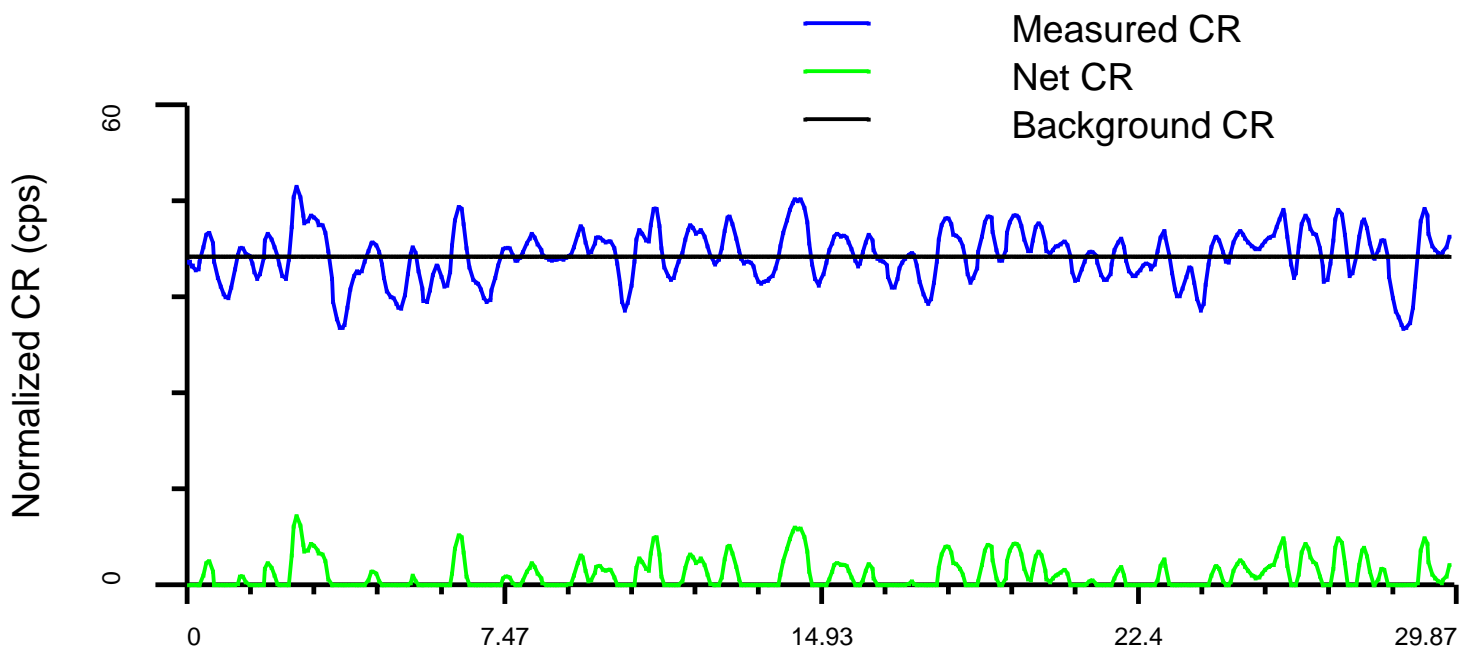
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
076	PBMS-GR	2775.8	2770.6	No	---	---

Data Acquired on: 09-Jul-2006 07:18

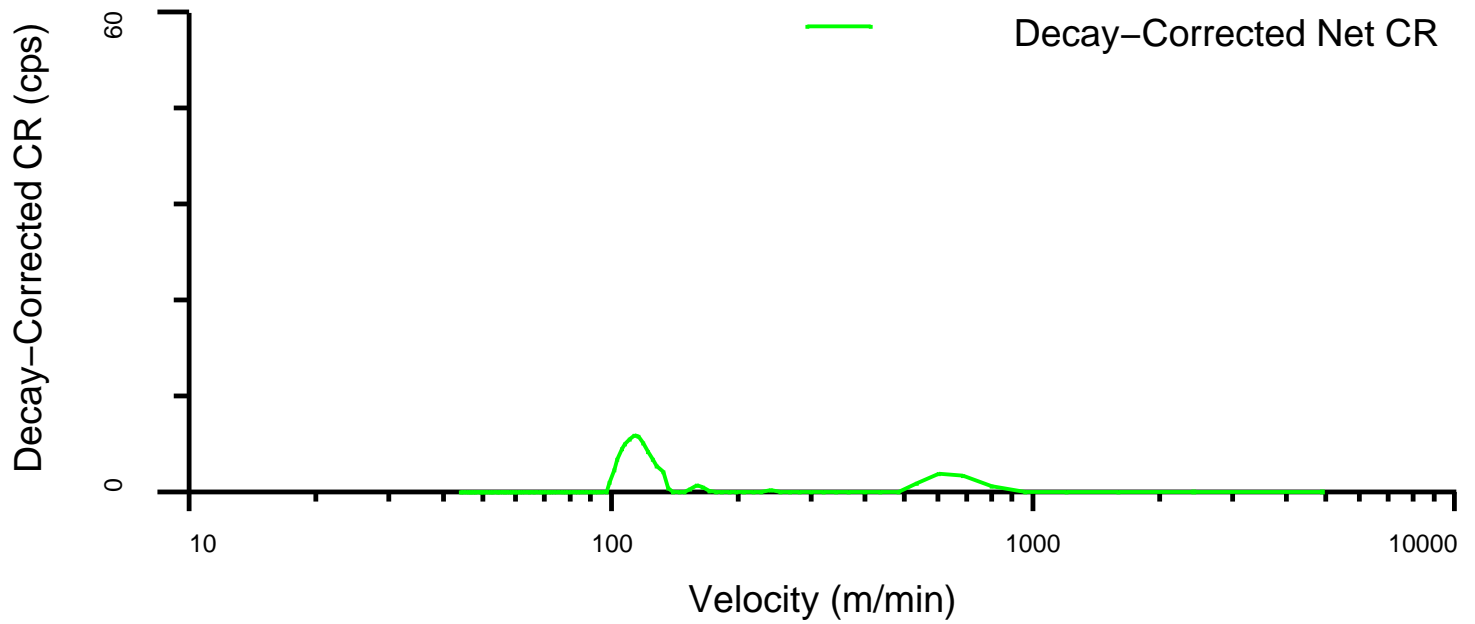
Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10



Time (sec)



Schlumberger

Shut In RST-WFL
Station 2775.5m Normal

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 07:16

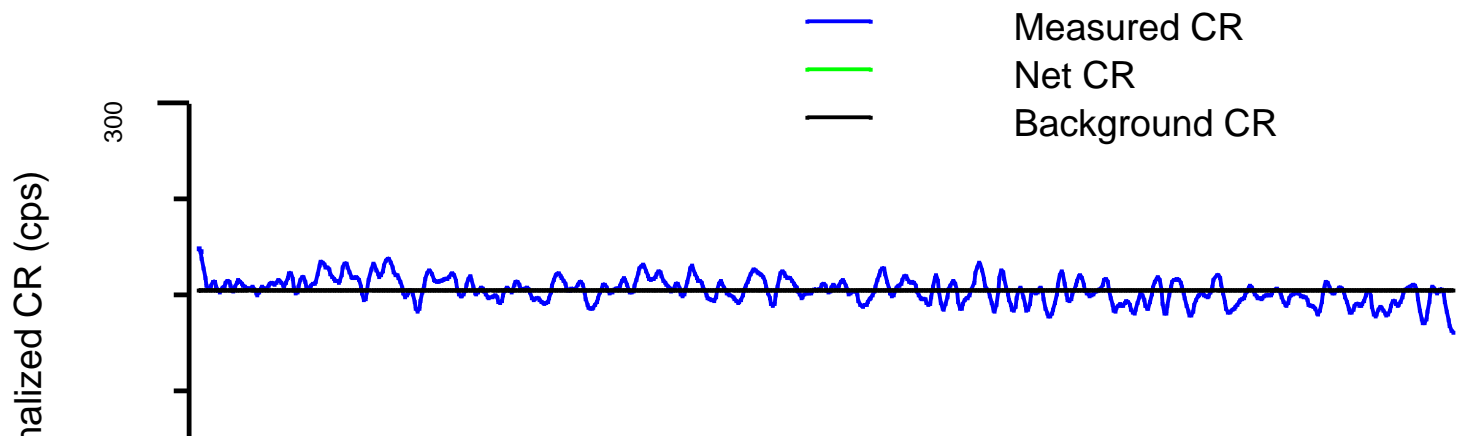
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
075	WPGR	2775.8	2780.2	No	---	6.8

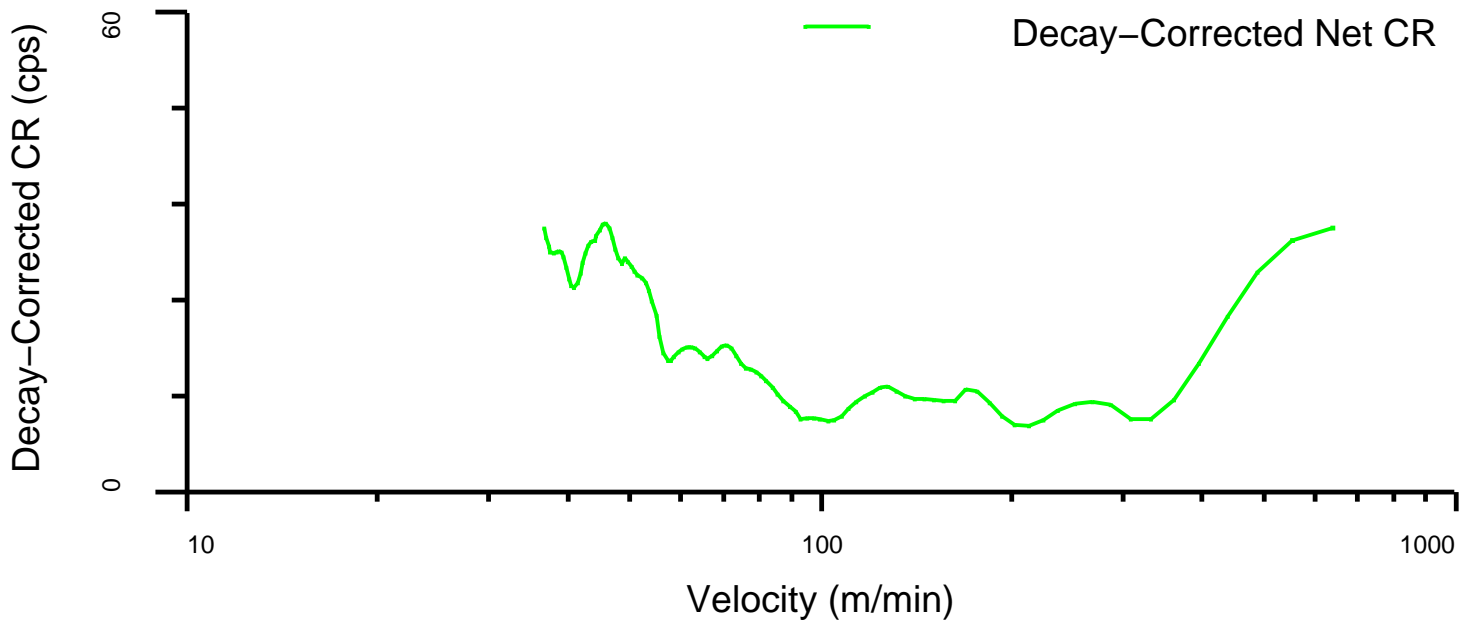
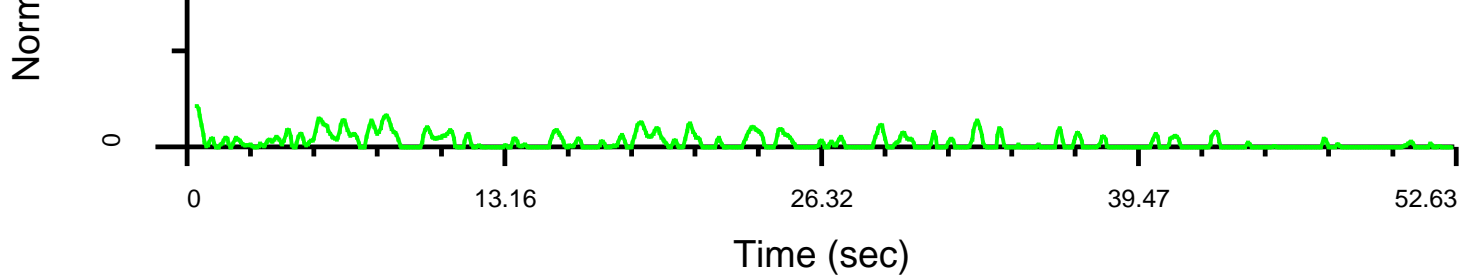
Data Acquired on: 09-Jul-2006 07:07

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 07:16

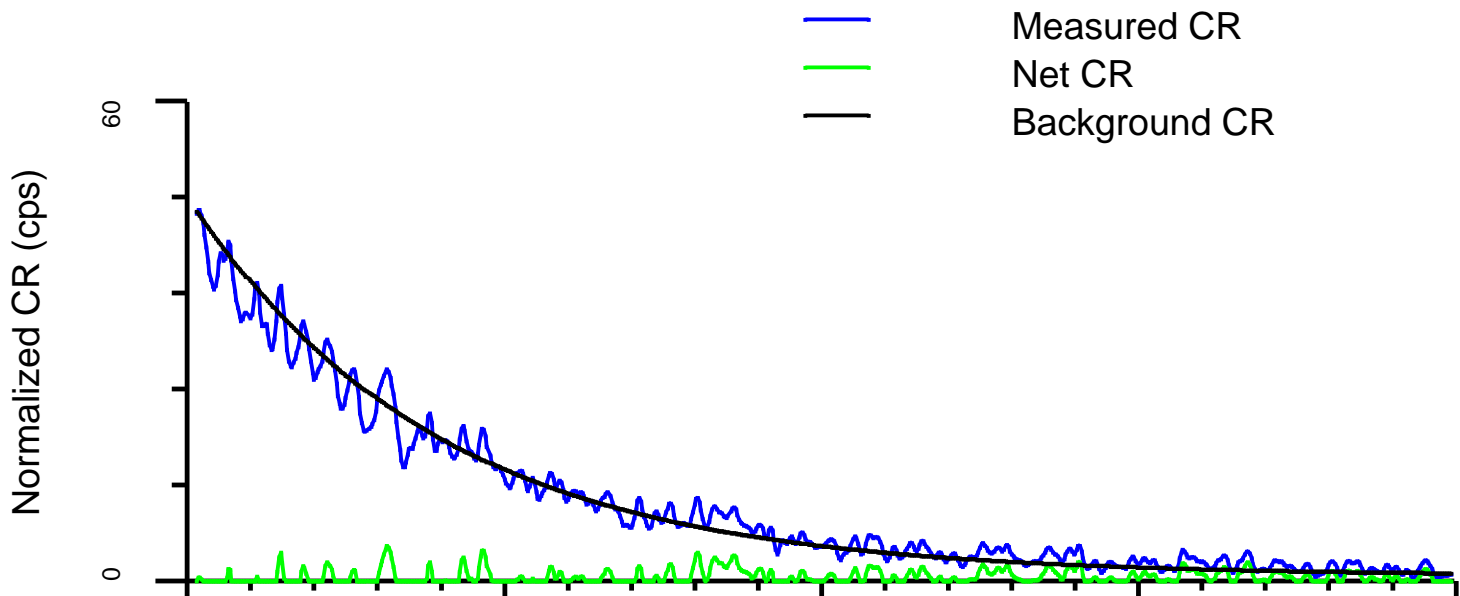
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
075	RST-Near	2775.8	2775.6	No	---	---

Data Acquired on: 09-Jul-2006 07:07

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10



0

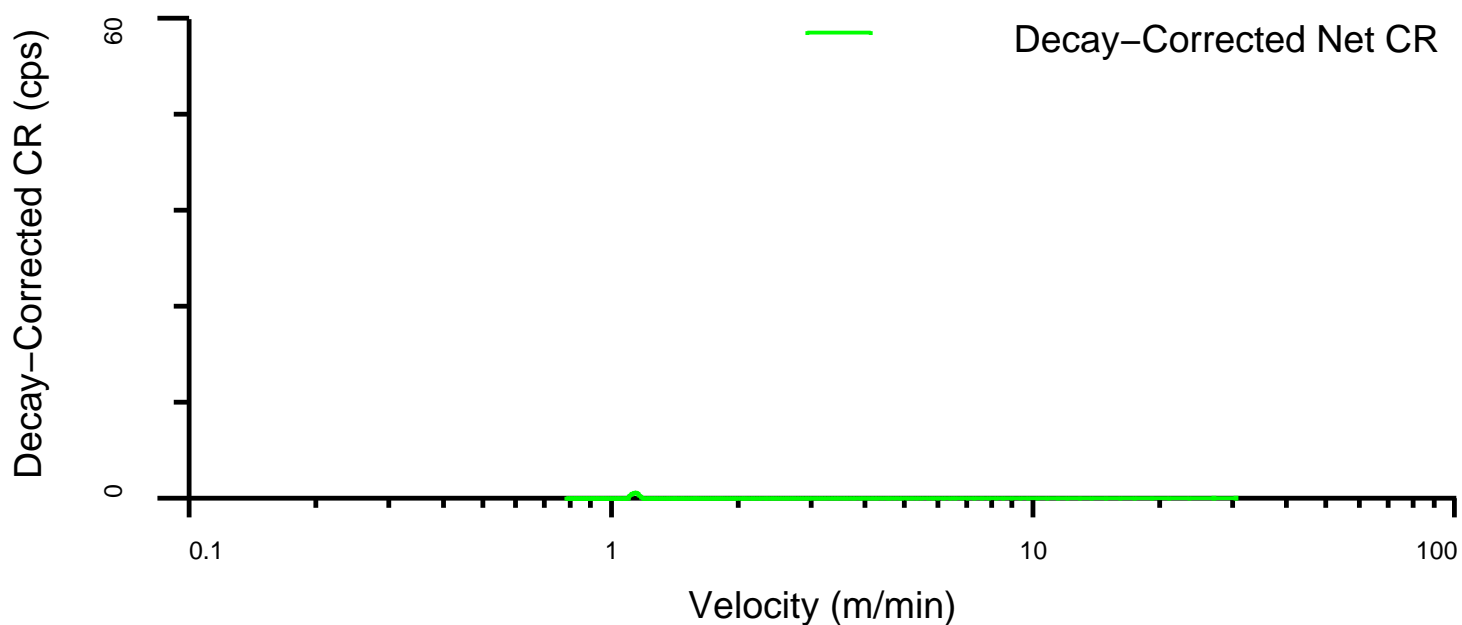
13.09

26.17

39.26

52.35

Time (sec)



RST WFL Station Summary

09-Jul-2006 07:16

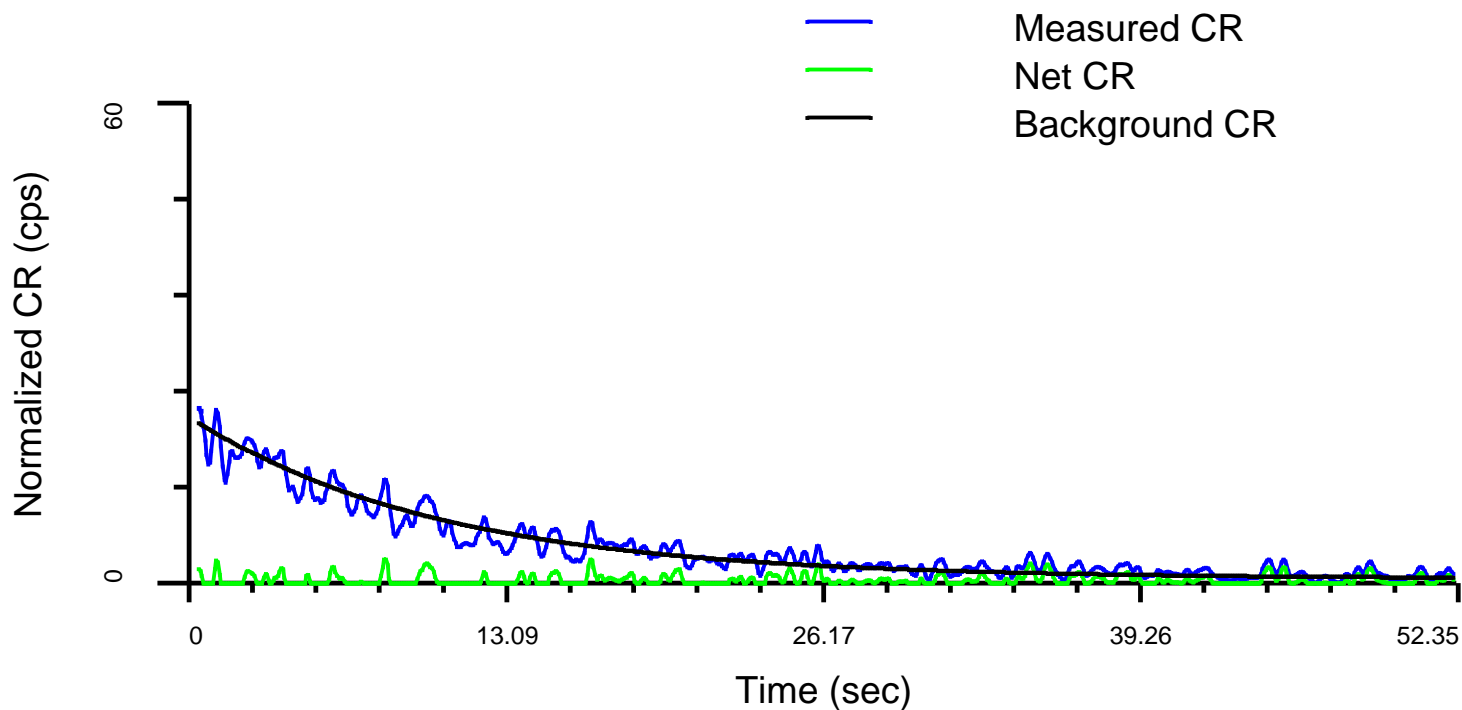
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
075	RST-Far	2775.8	2775.4	No	---	---

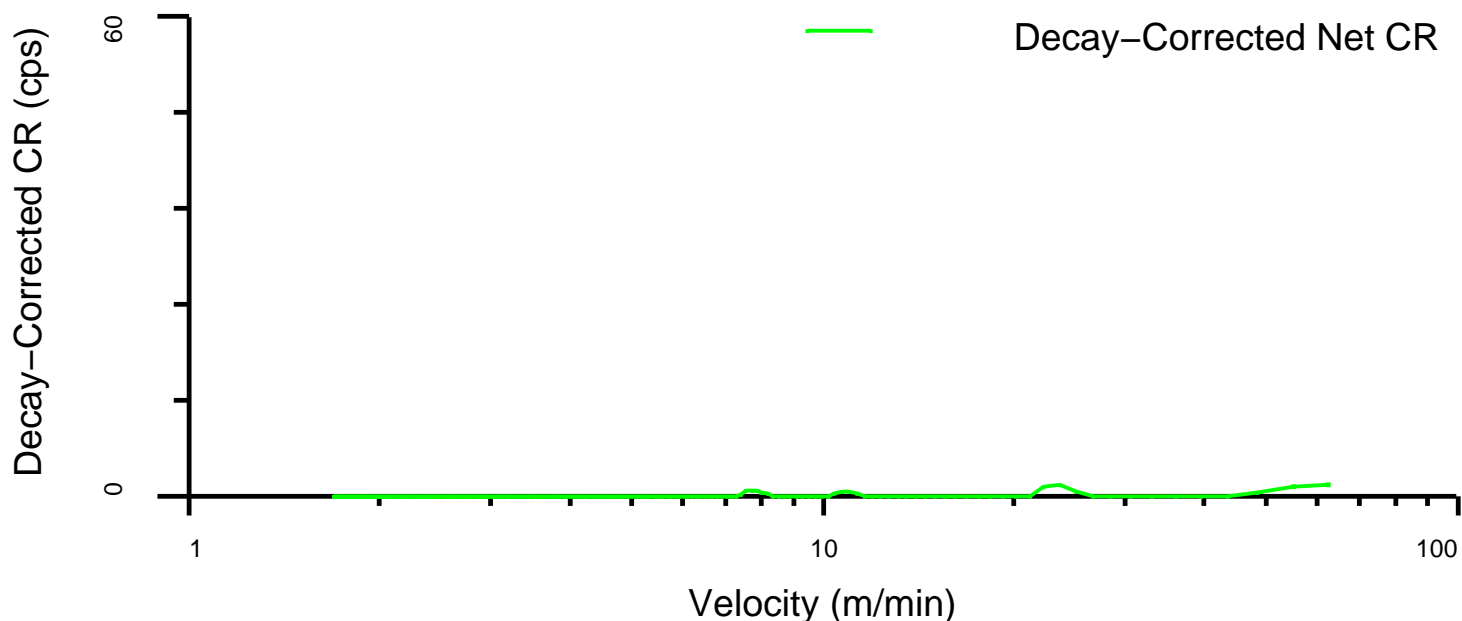
Data Acquired on: 09-Jul-2006 07:07

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 07:16

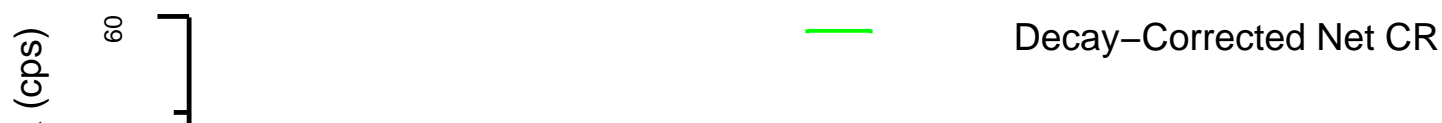
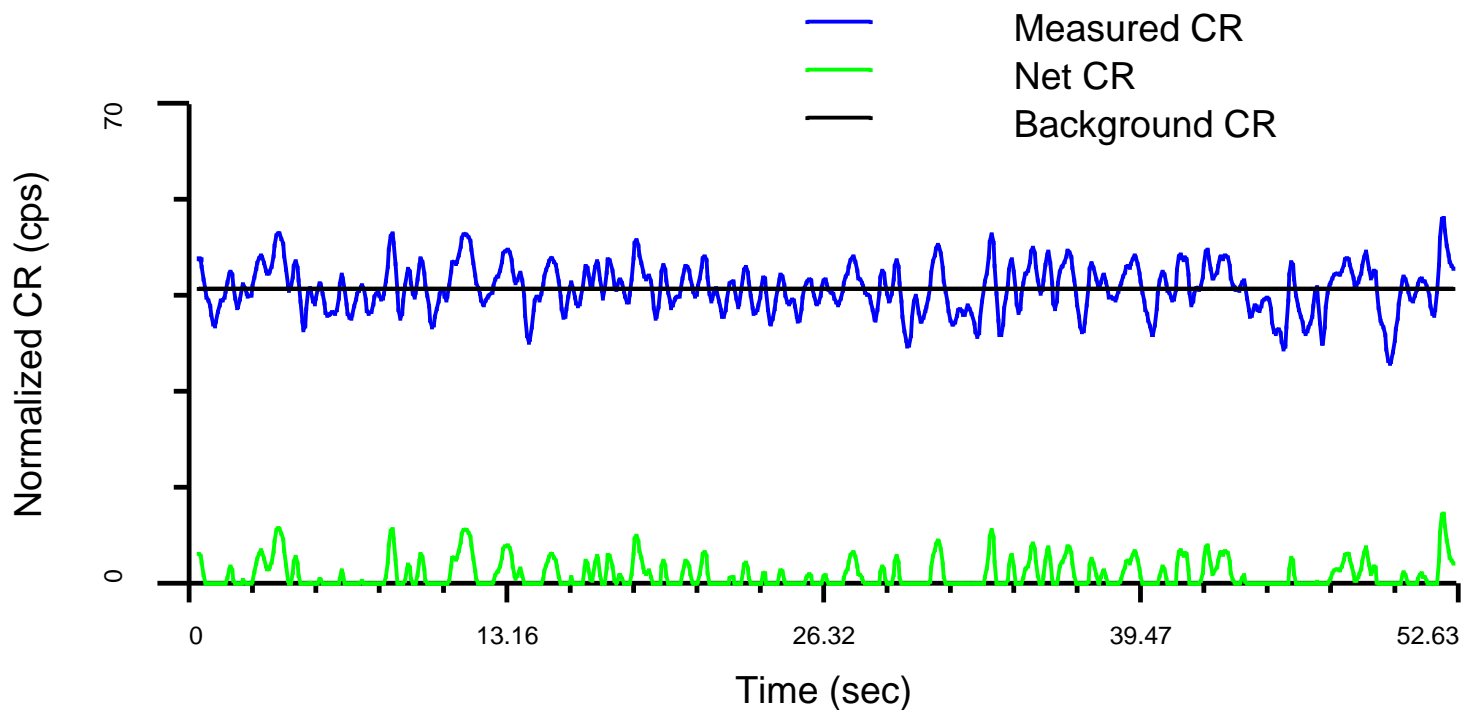
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
075	PBMS-GR	2775.8	2770.6	No	---	---

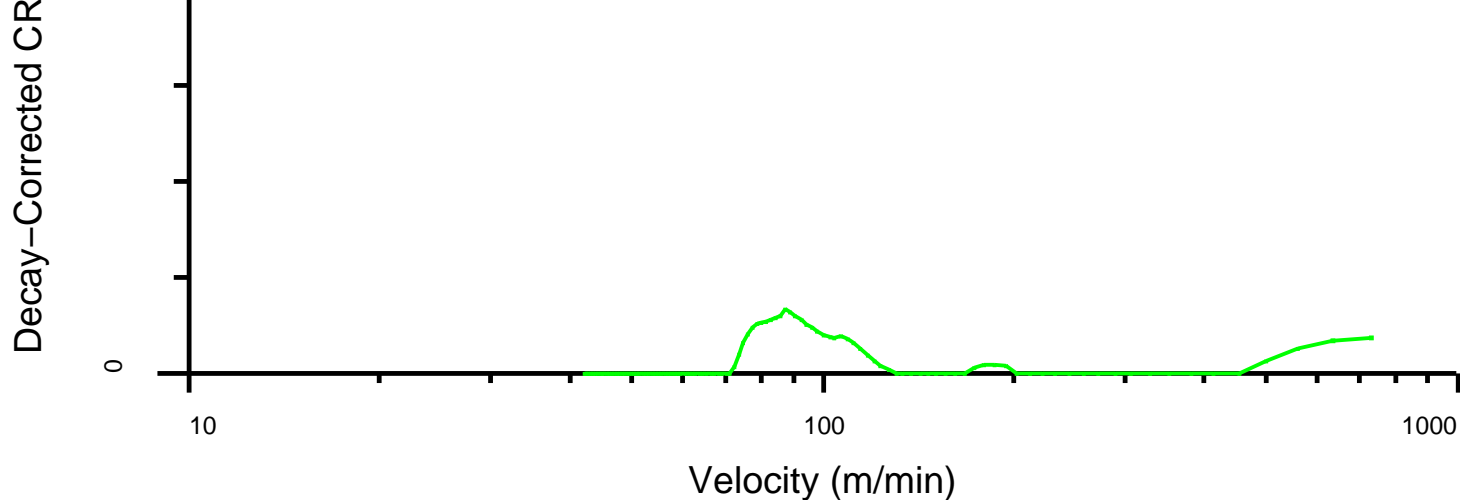
Data Acquired on: 09-Jul-2006 07:07

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10





Schlumberger

Shut In RST-WFL
Station 2790.5m Slow

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 07:00

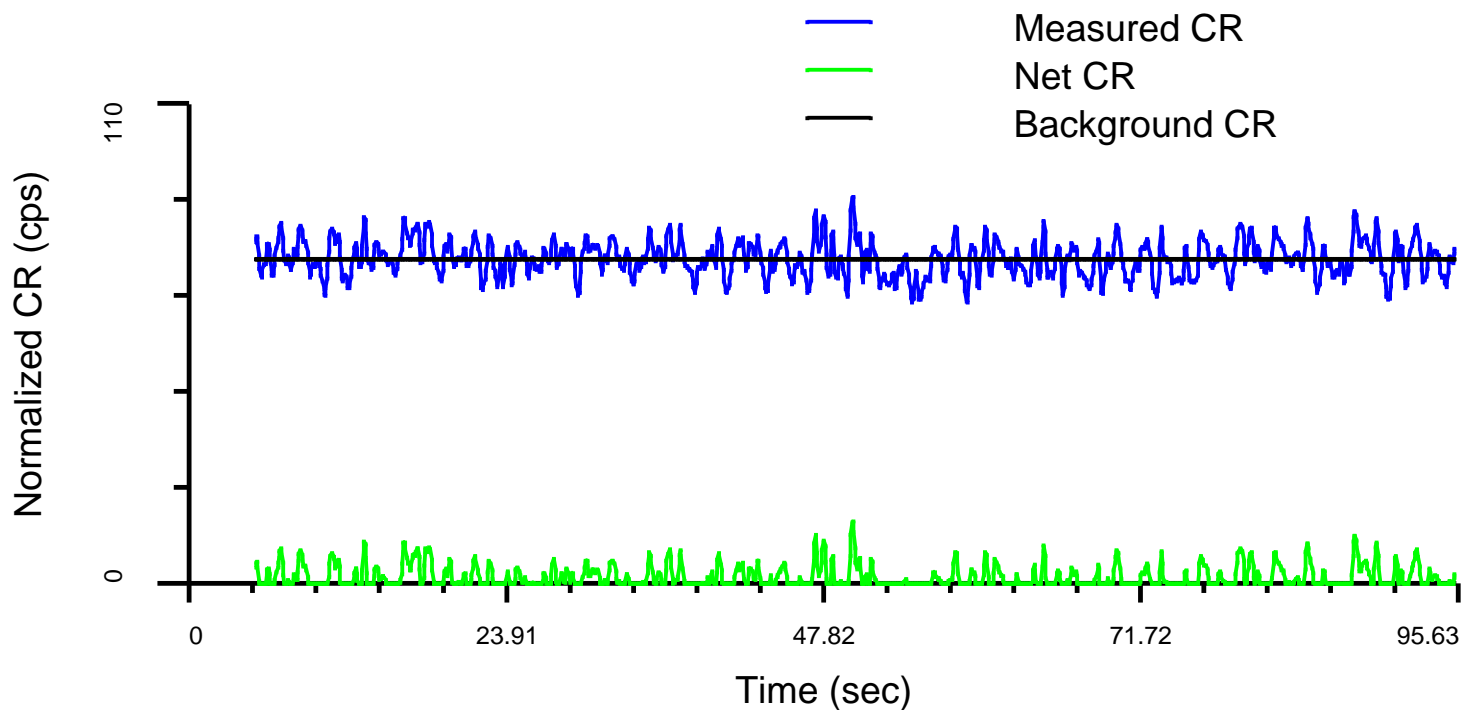
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
074	WPGR	2790.8	2795.2	No	---	---

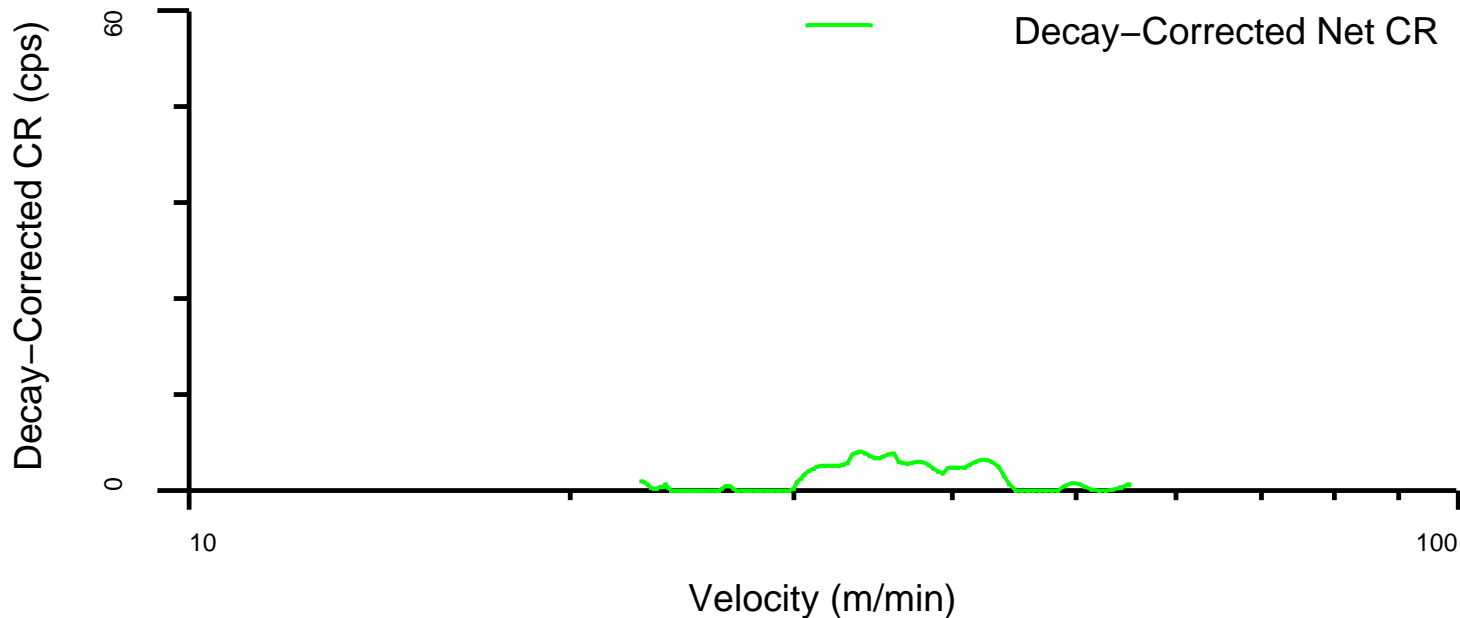
Data Acquired on: 09-Jul-2006 06:41

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11





RST WFL Station Summary

09-Jul-2006 07:00

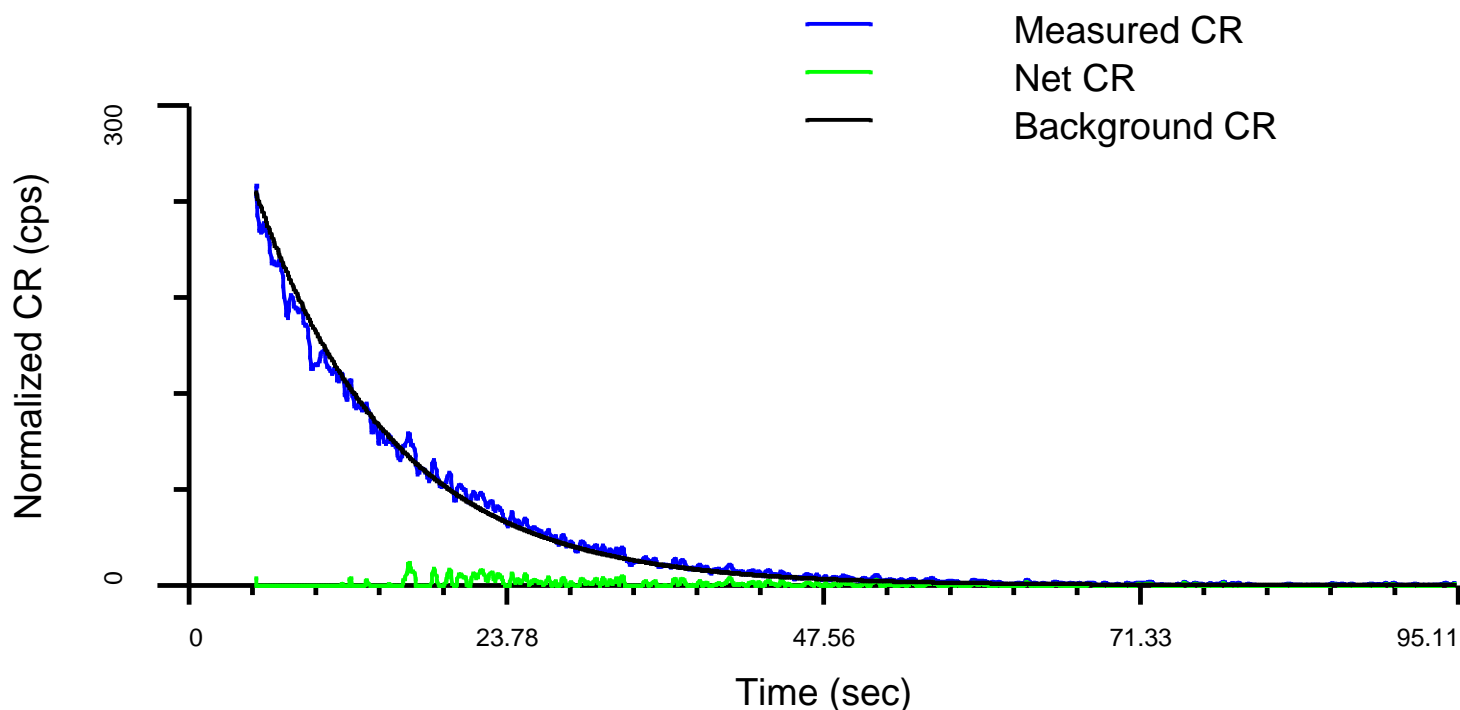
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
074	RST-Near	2790.8	2790.6	No	---	---

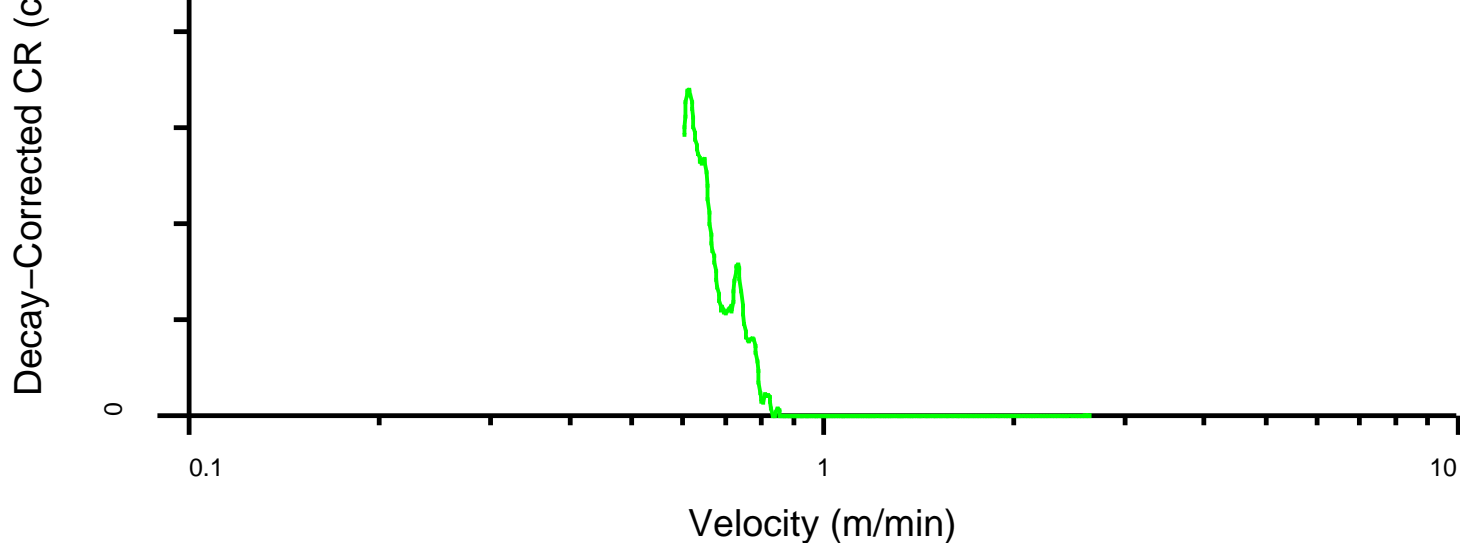
Data Acquired on: 09-Jul-2006 06:41

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11





RST WFL Station Summary

09-Jul-2006 07:00

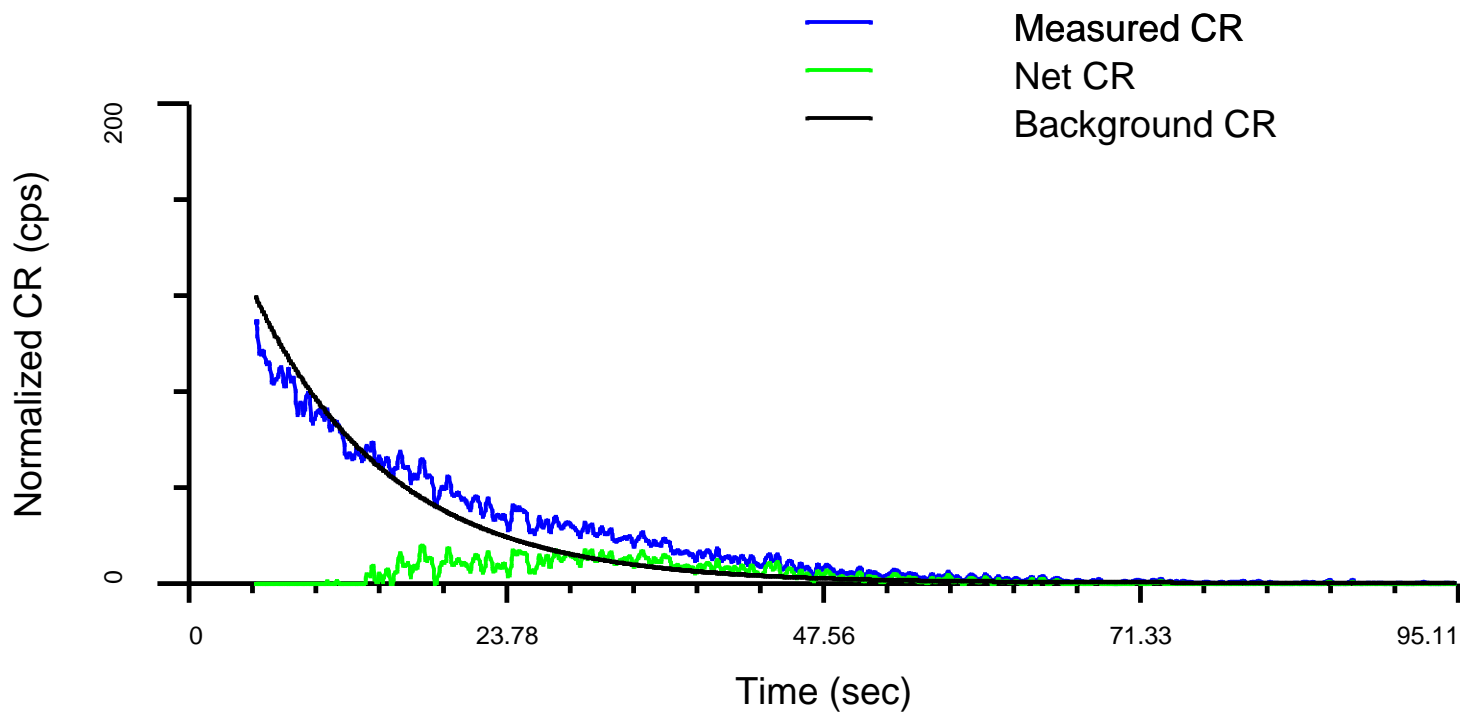
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
074	RST-Far	2790.8	2790.4	Yes	0.9	0.2

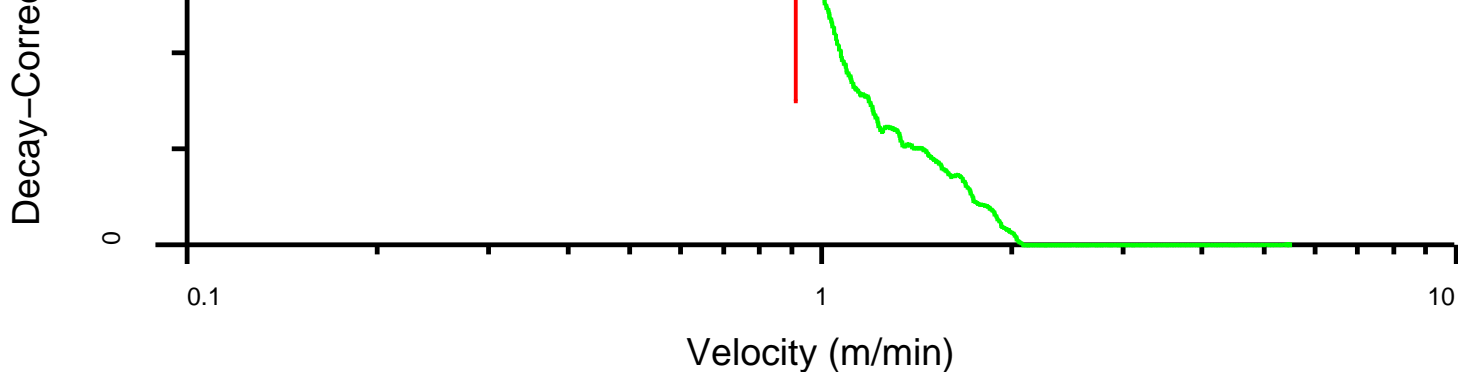
Data Acquired on: 09-Jul-2006 06:41

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11





RST WFL Station Summary

09-Jul-2006 07:00

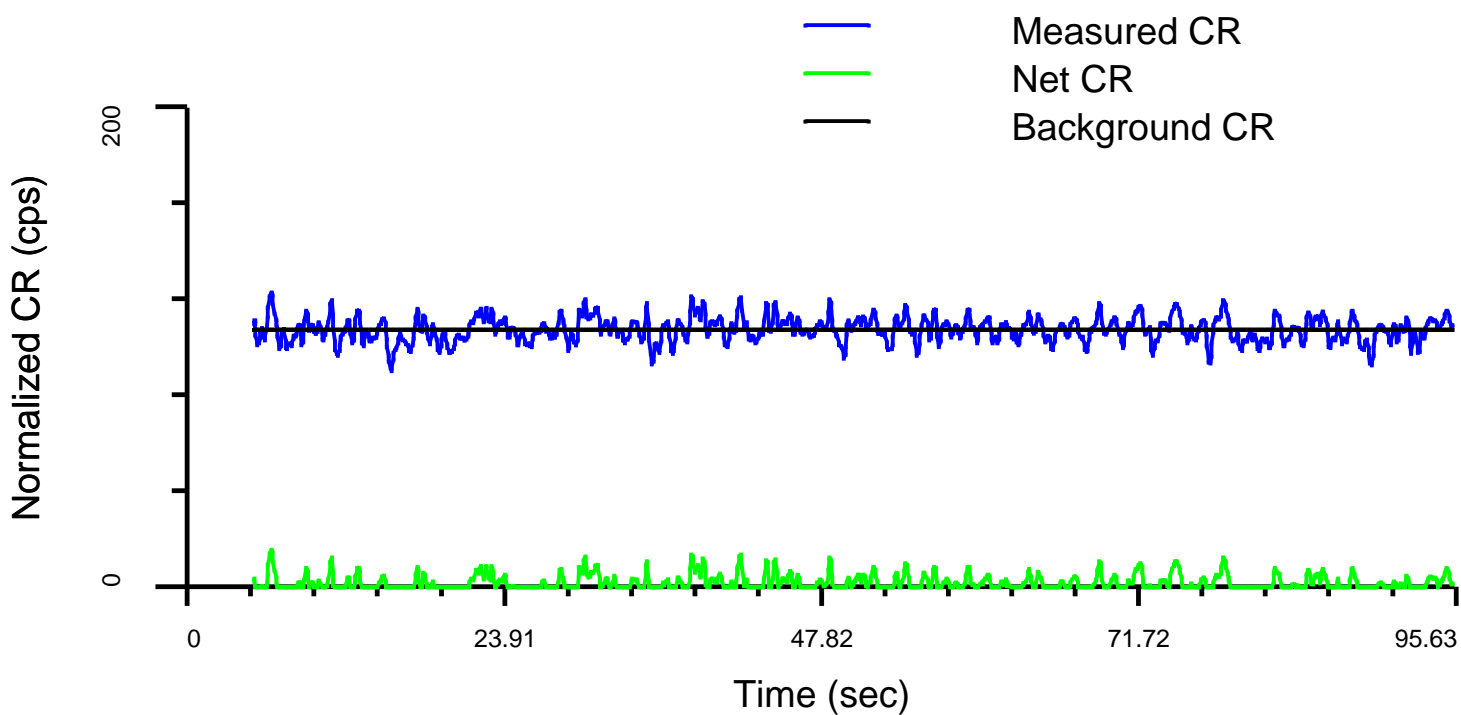
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
074	PBMS-GR	2790.8	2785.6	No	---	---

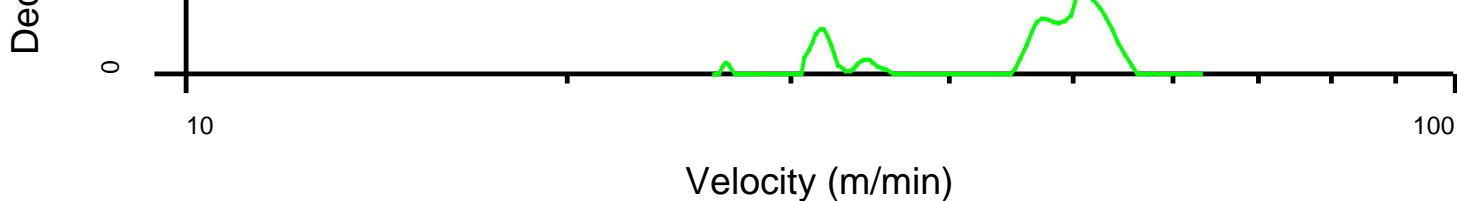
Data Acquired on: 09-Jul-2006 06:41

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On - 90.67 sec Off

Number of WFL Cycles: 11





Schlumberger

Shut In RST-WFL
Station 2790.5m Fast

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 06:39

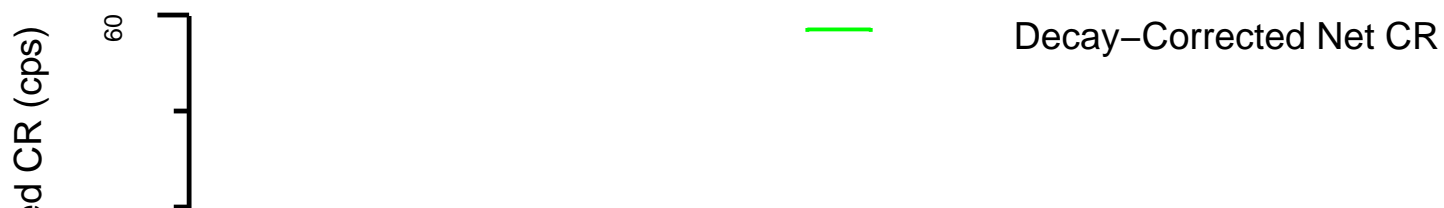
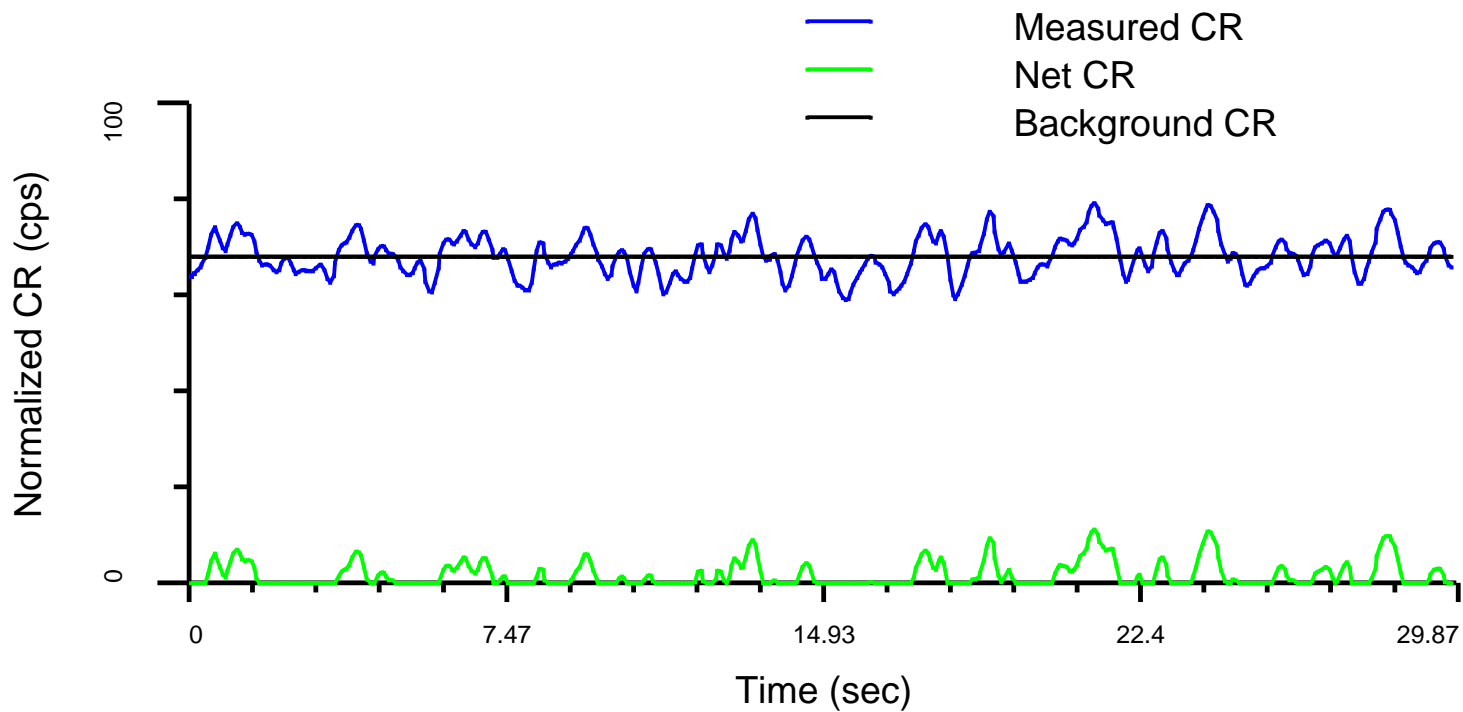
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
073	WPGR	2790.8	2795.2	No	---	---

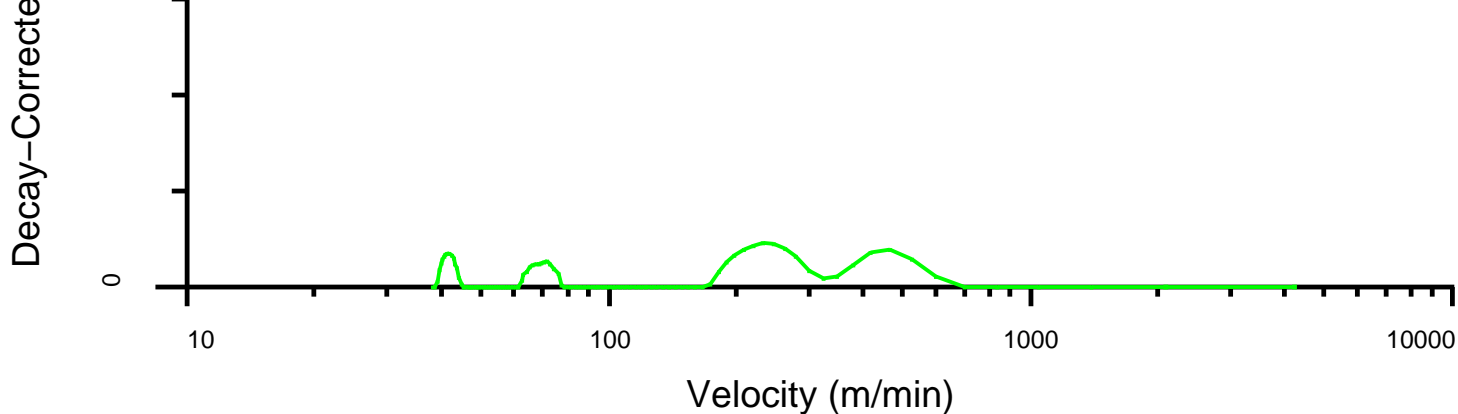
Data Acquired on: 09-Jul-2006 06:33

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 06:39

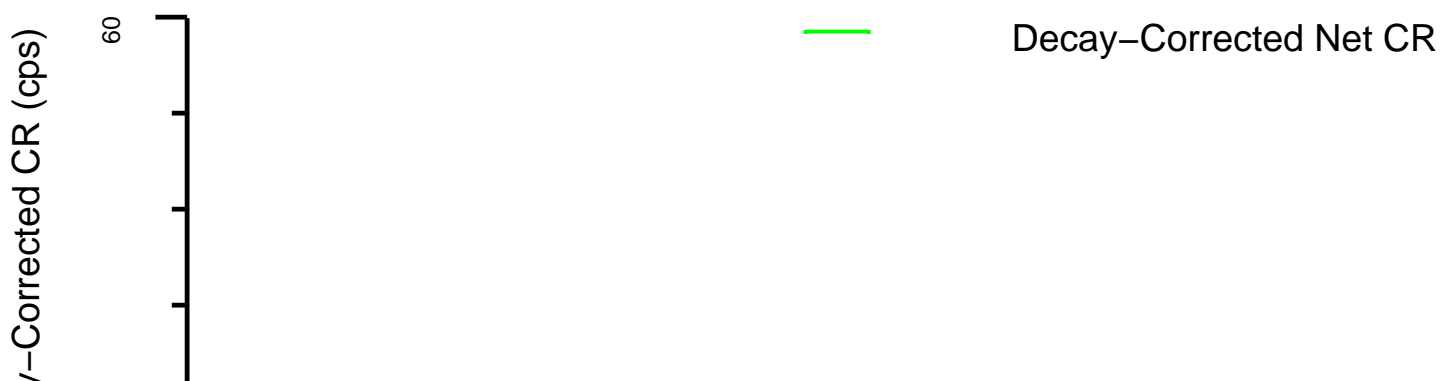
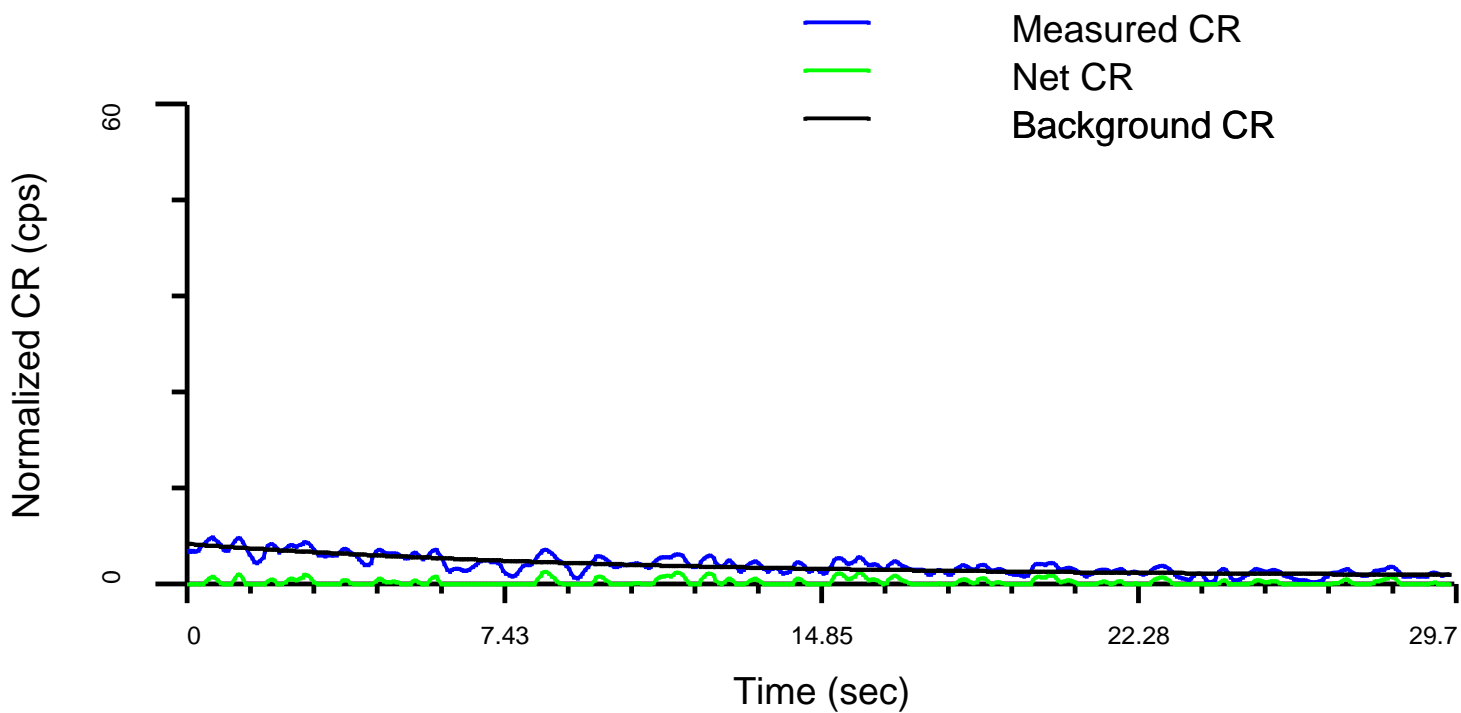
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
073	RST-Near	2790.8	2790.6	No	---	---

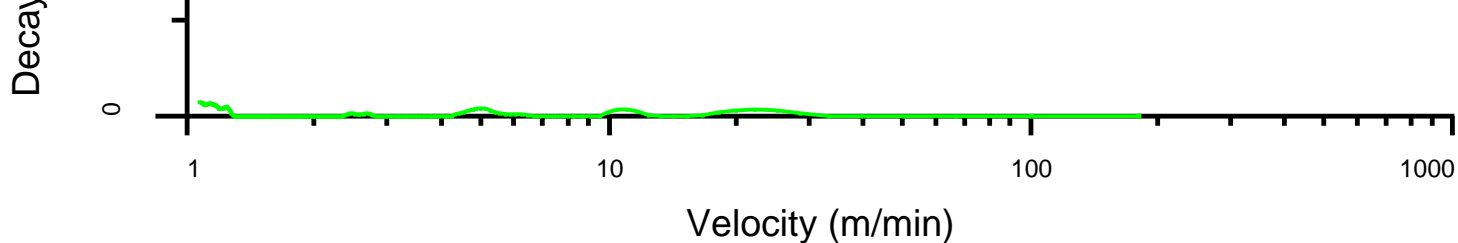
Data Acquired on: 09-Jul-2006 06:33

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 06:39

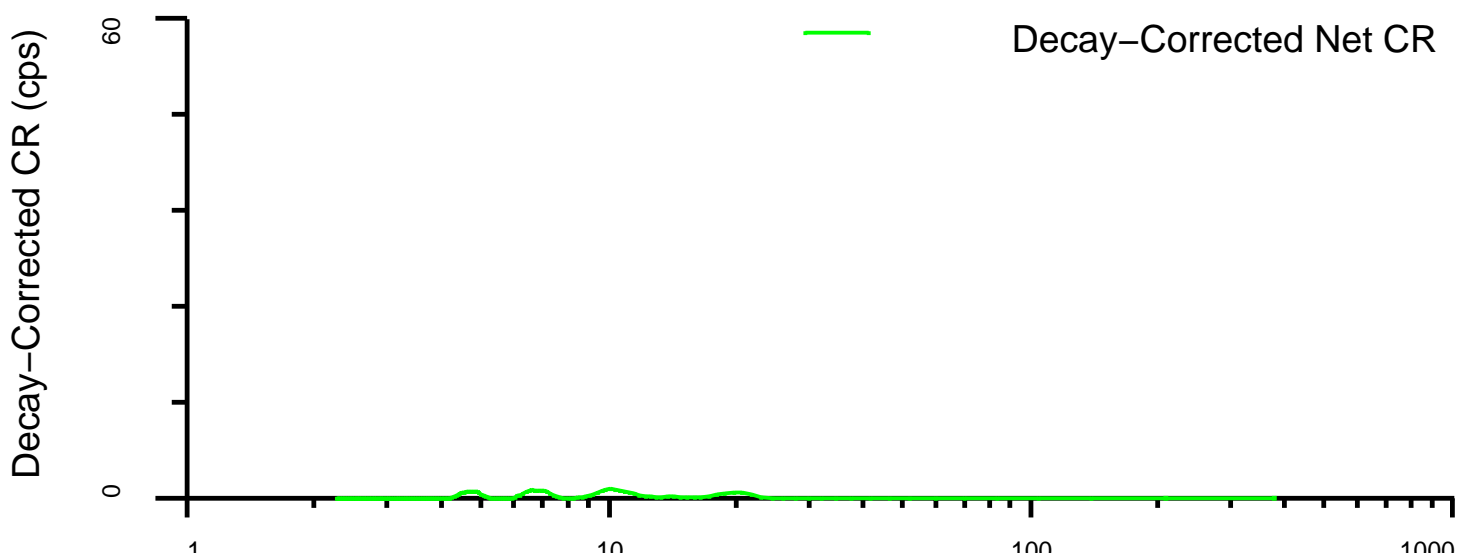
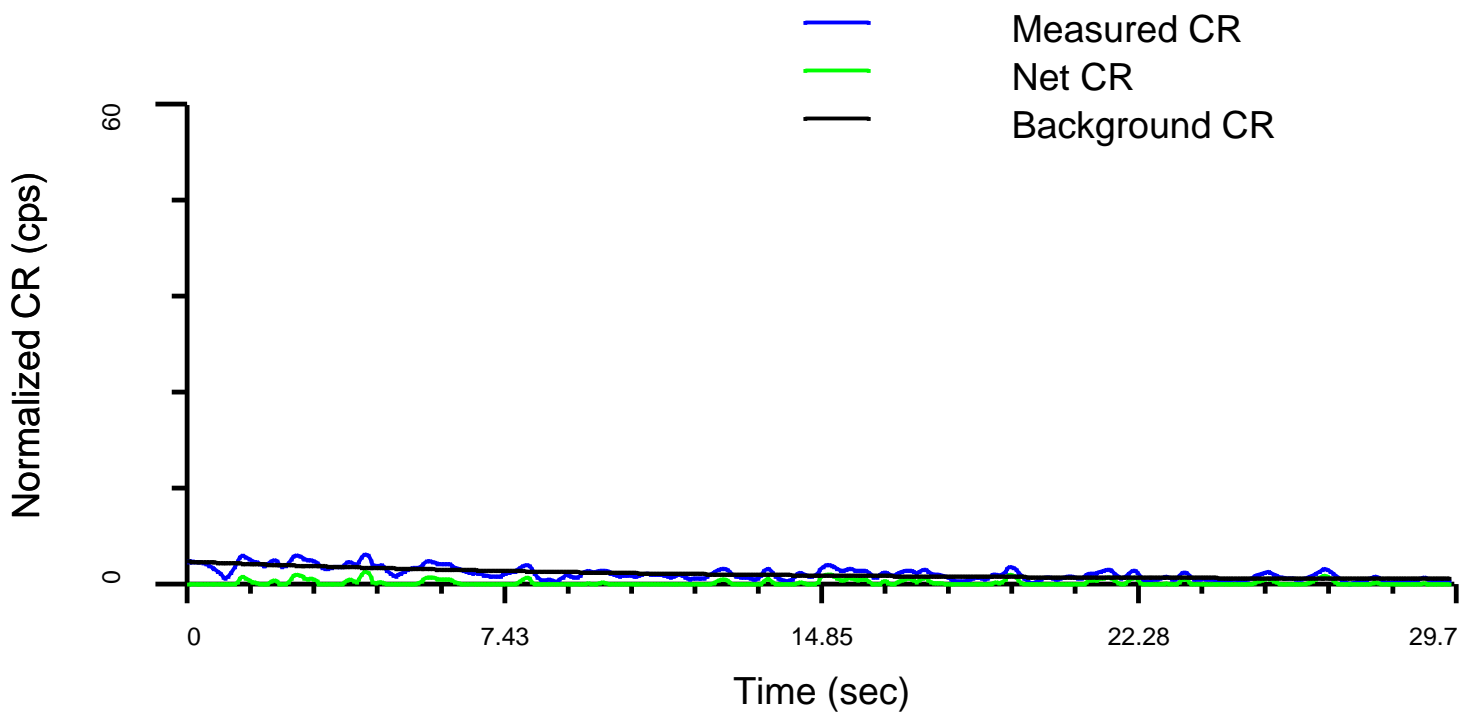
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
073	RST-Far	2790.8	2790.4	No	---	---

Data Acquired on: 09-Jul-2006 06:33

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 06:39

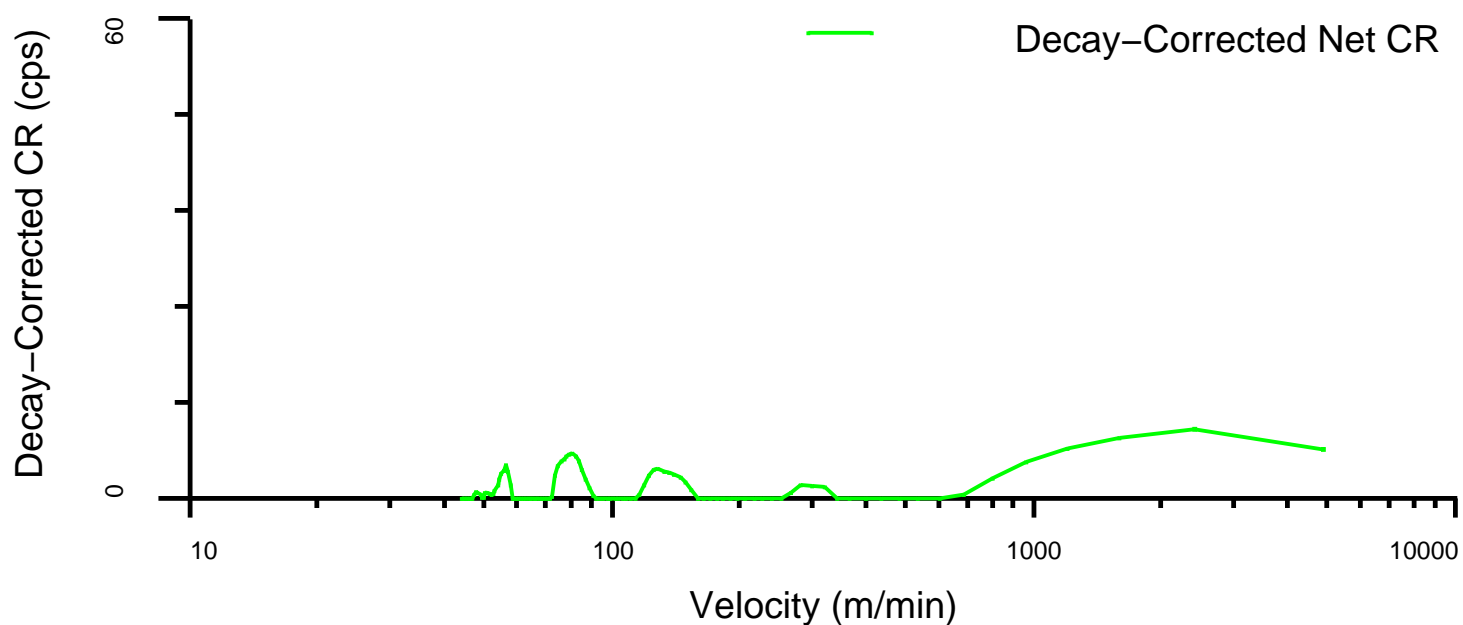
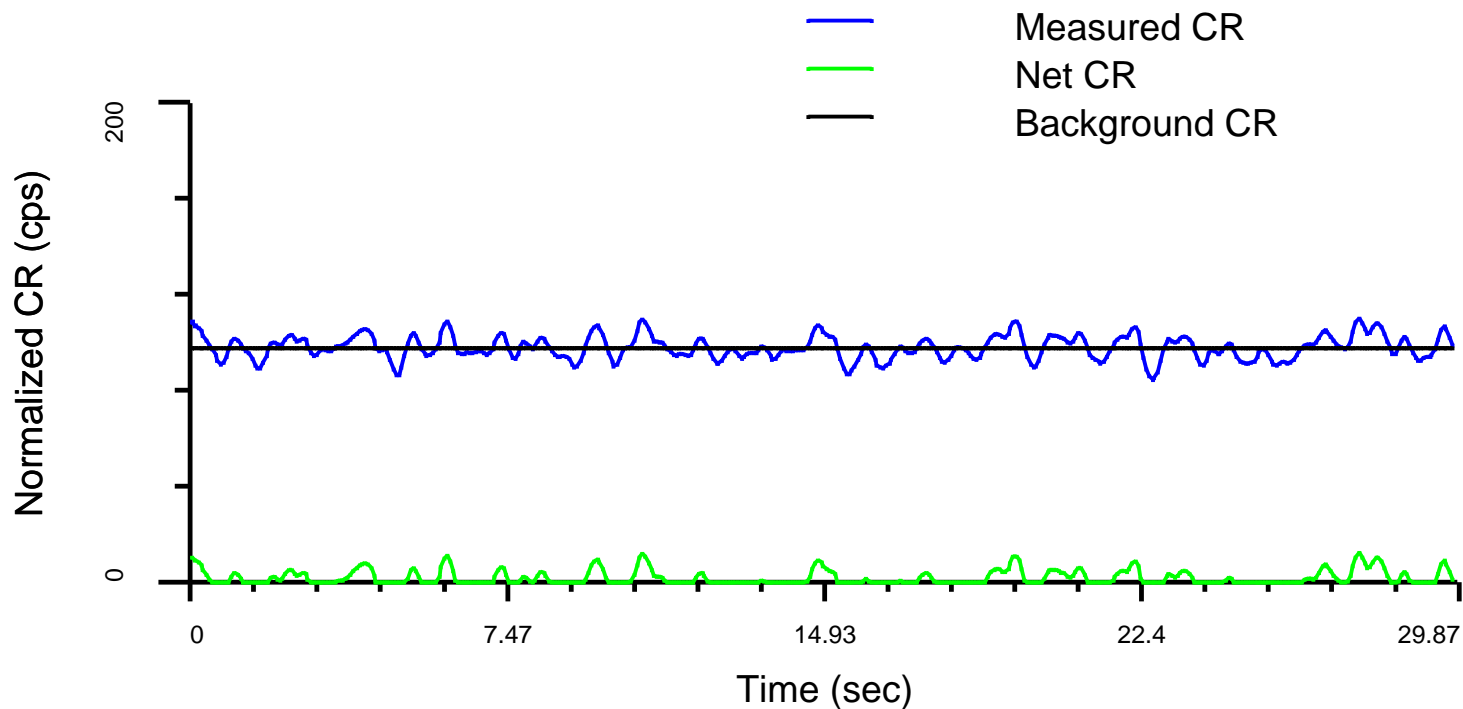
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
073	PBMS-GR	2790.8	2785.6	No	---	---

Data Acquired on: 09-Jul-2006 06:33

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 06:32

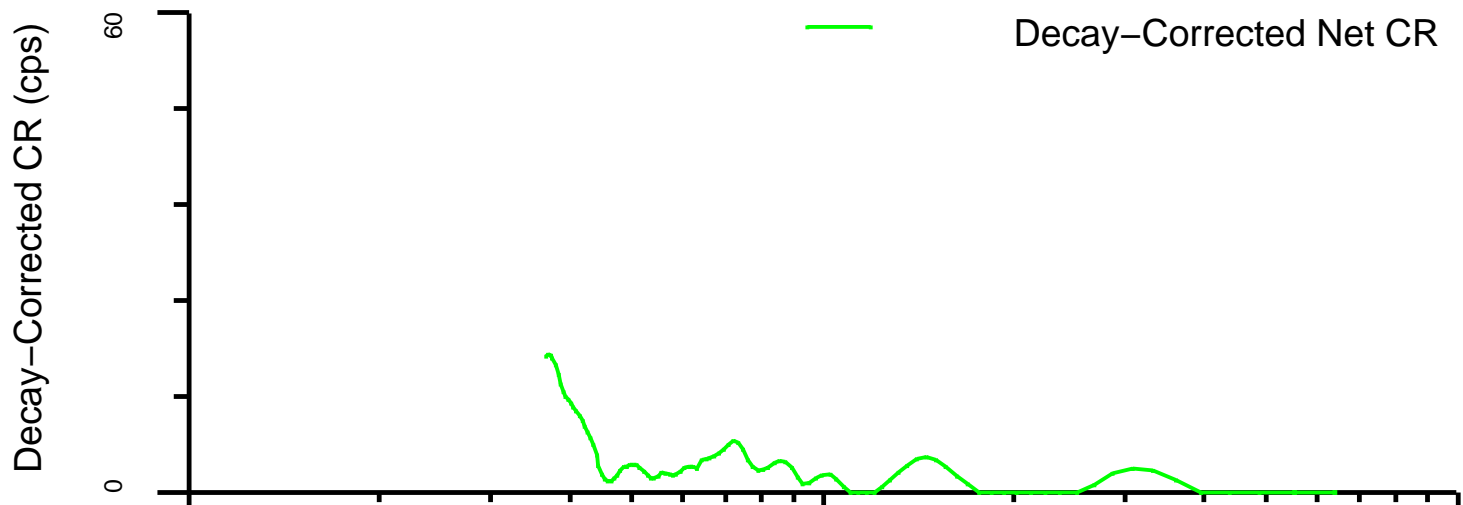
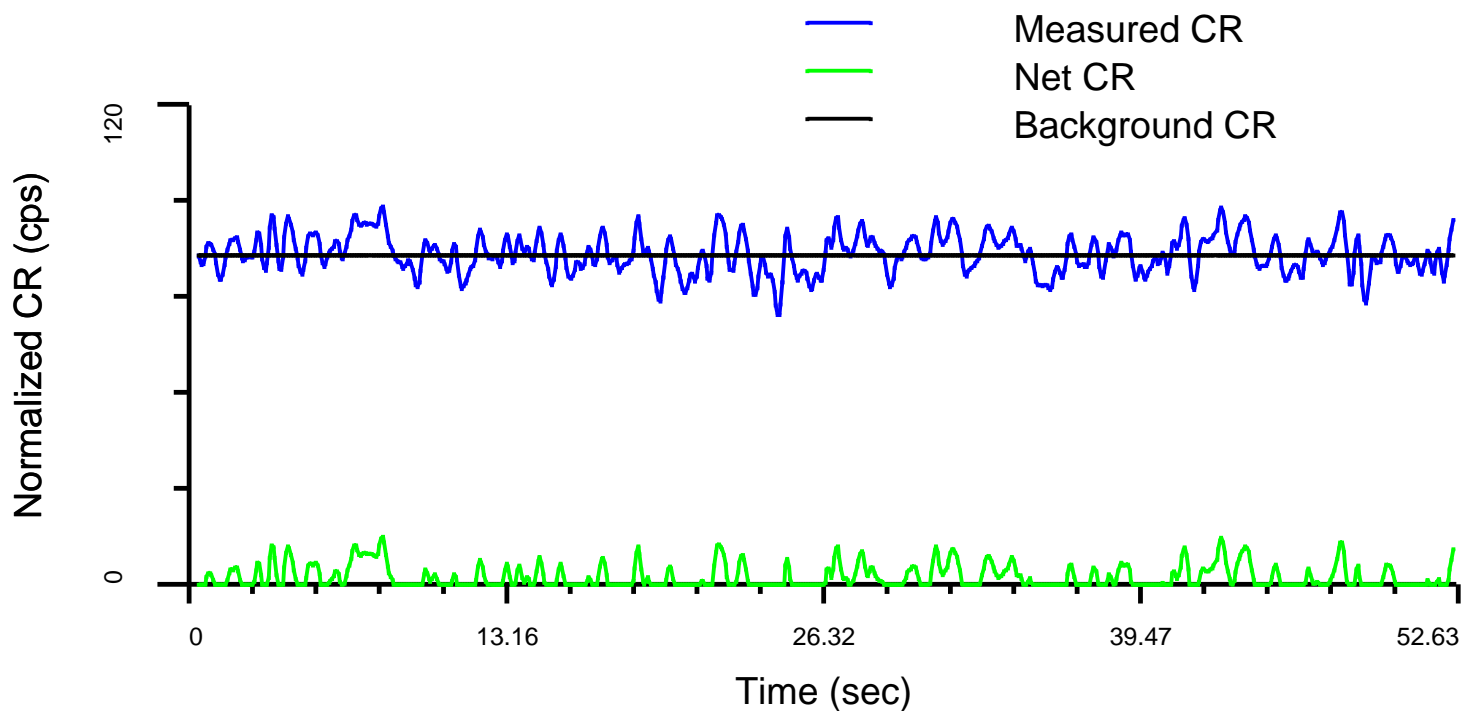
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
072	WPGR	2790.8	2795.2	No	---	---

Data Acquired on: 09-Jul-2006 06:22

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10



Velocity (m/min)

RST WFL Station Summary**09-Jul-2006 06:31**

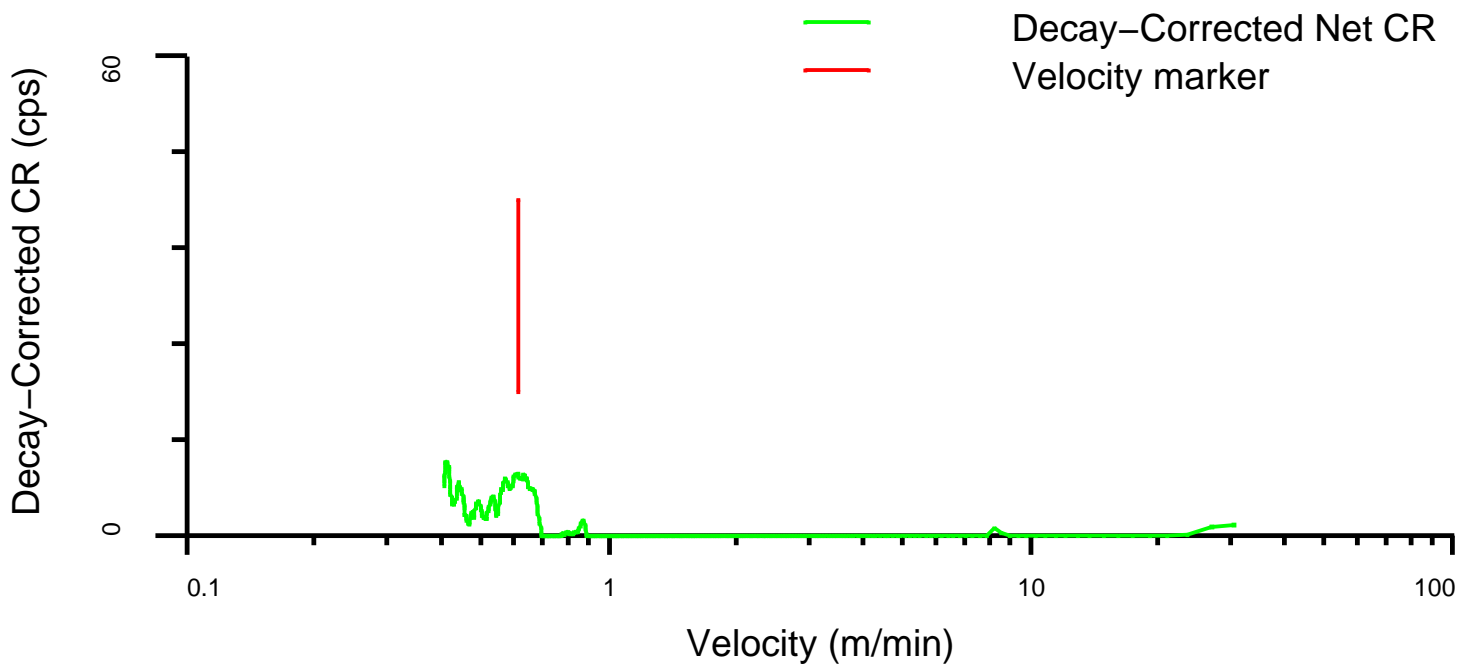
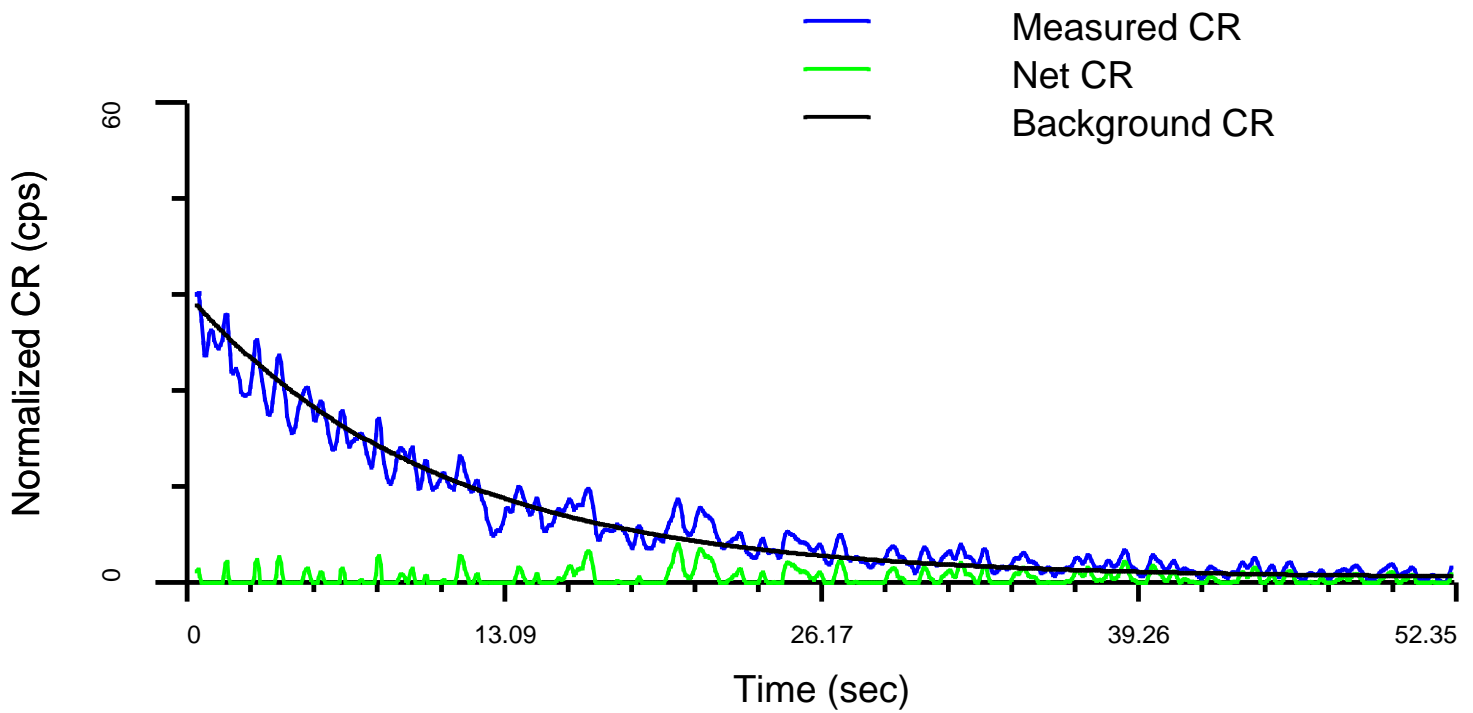
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
072	RST-Near	2790.8	2790.6	Unknown	0.6	2.9

Data Acquired on: 09-Jul-2006 06:22

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On – 52.27 sec Off

Number of WFL Cycles: 10



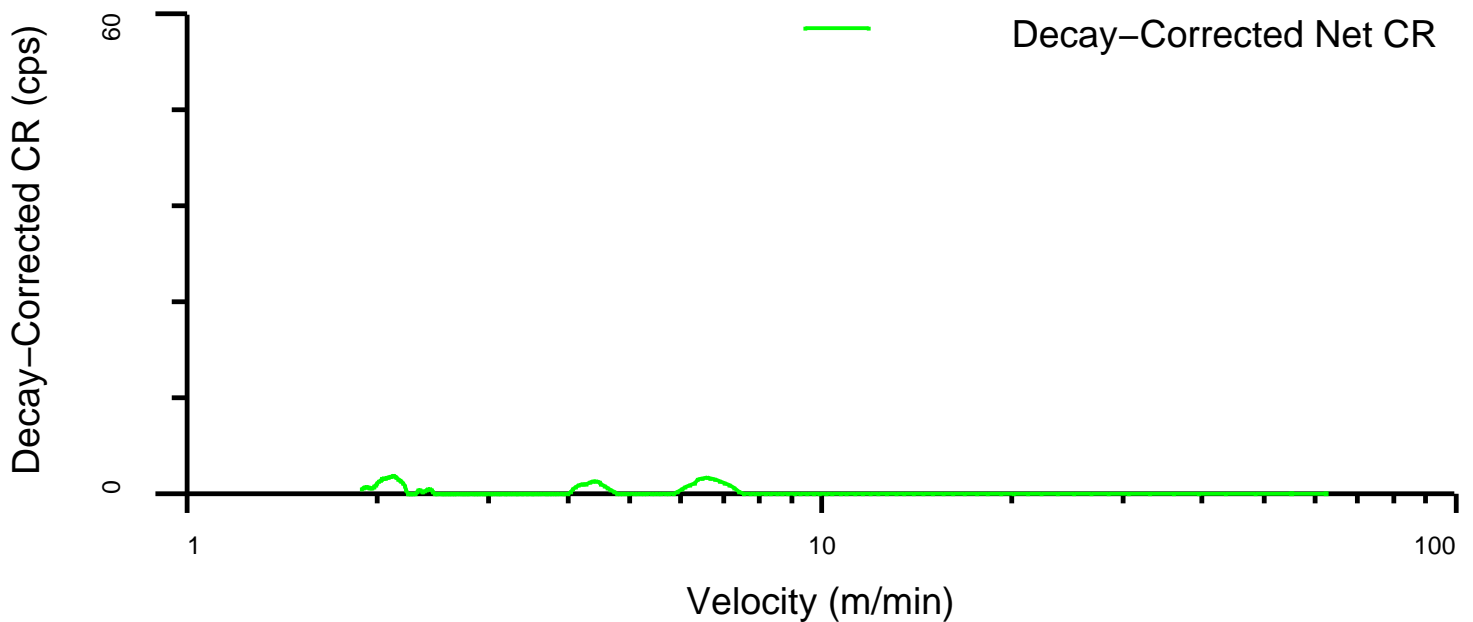
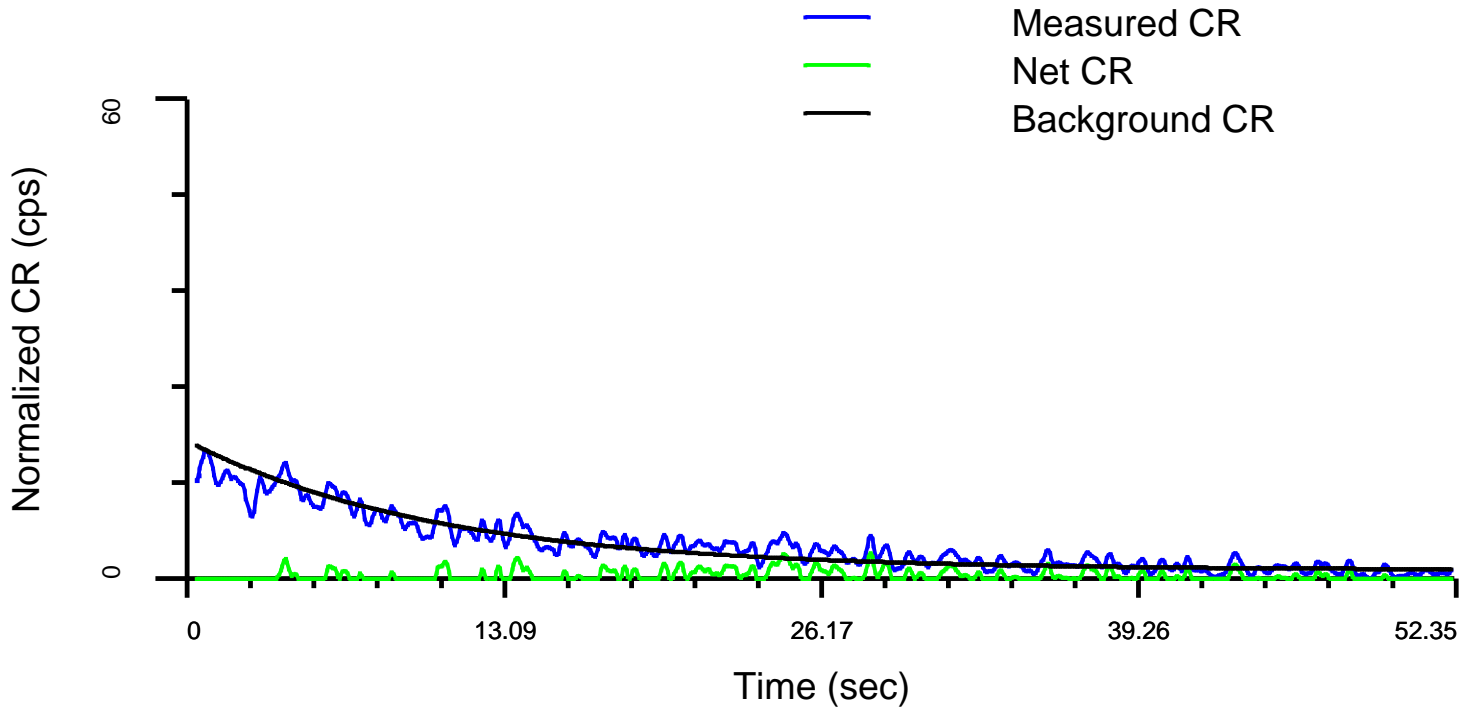
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
072	RST-Far	2790.8	2790.4	No	---	---

Data Acquired on: 09-Jul-2006 06:22

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10



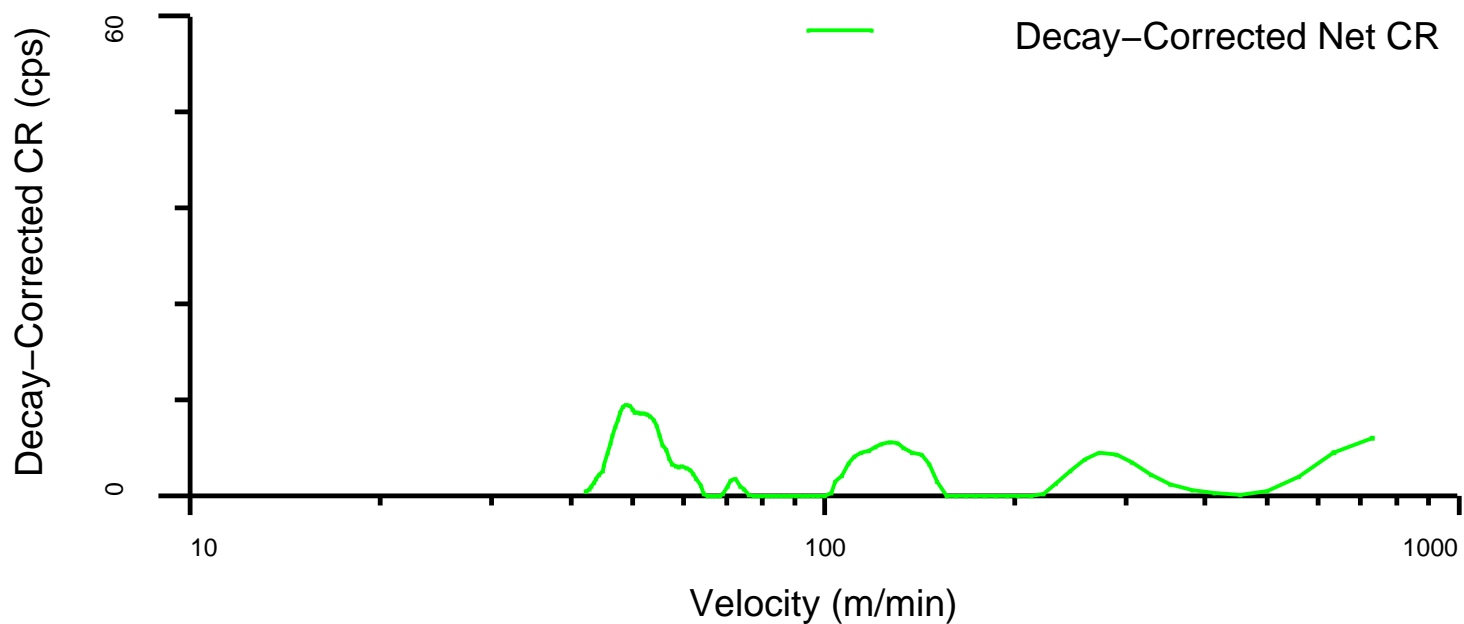
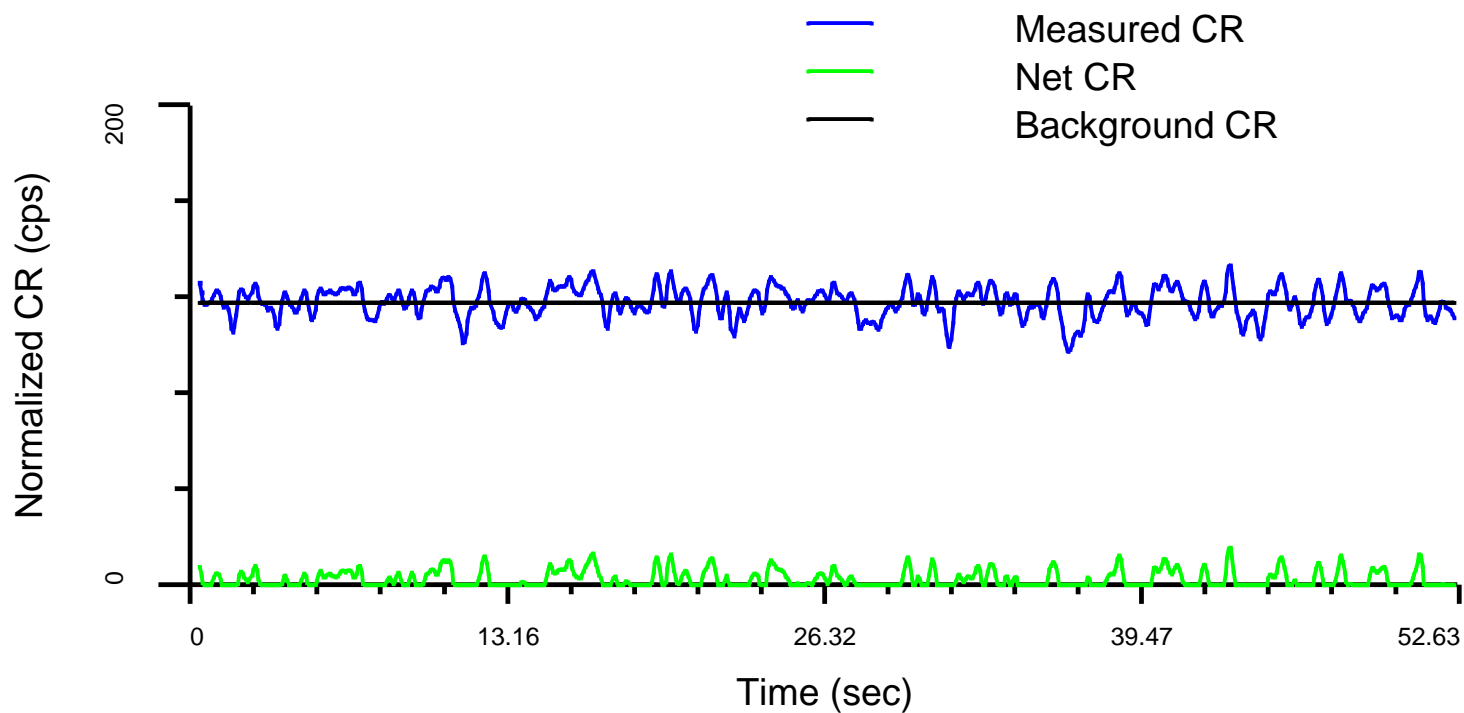
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
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Data Acquired on: 09-Jul-2006 06:22

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 10

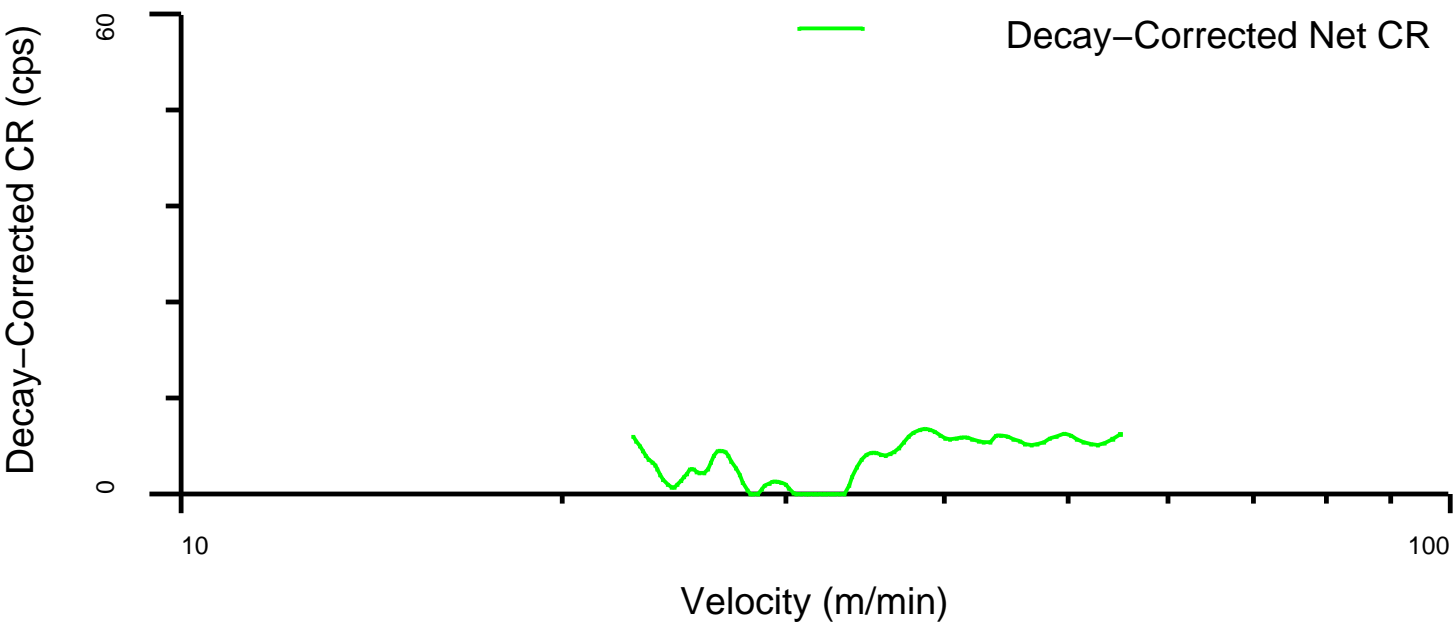
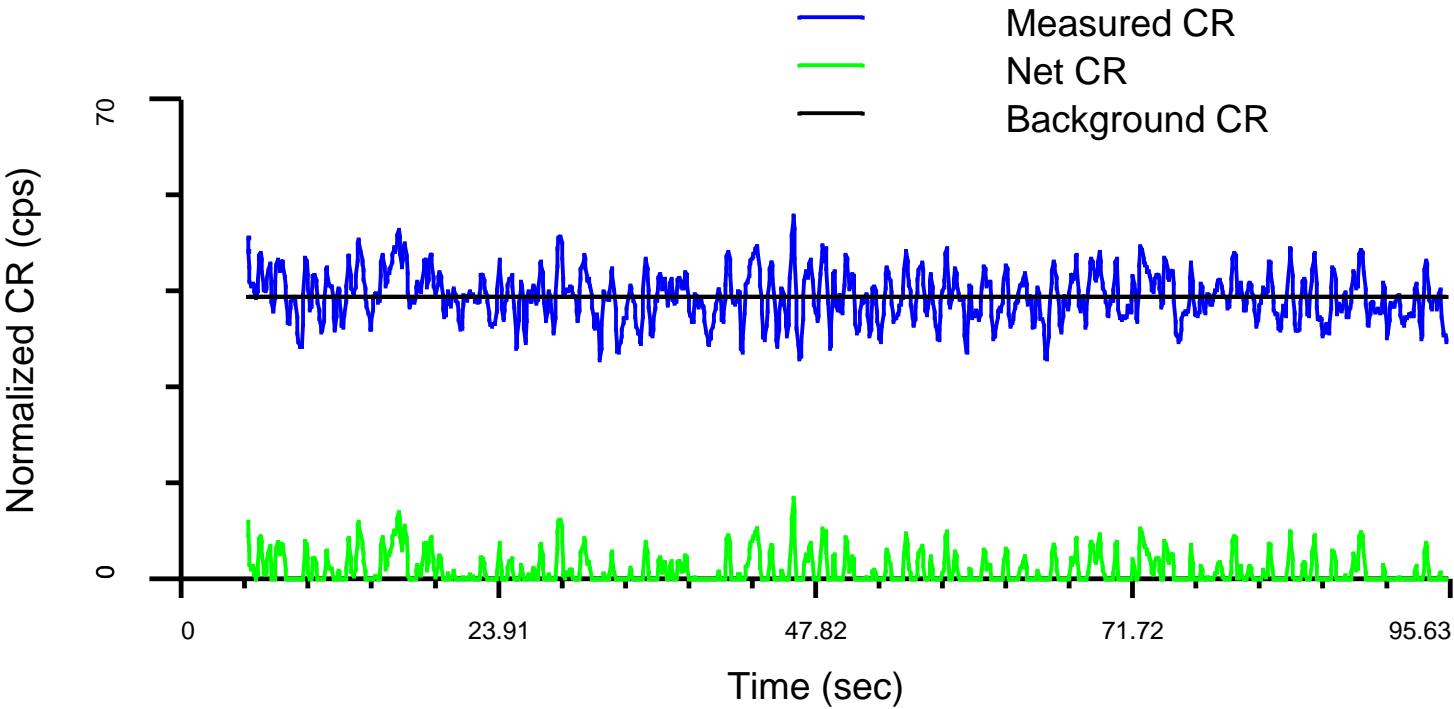


Schlumberger

Shut In RST-WFL
Station 2798m Slow

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
070	WPGR	2798.2	2802.6	No	---	---

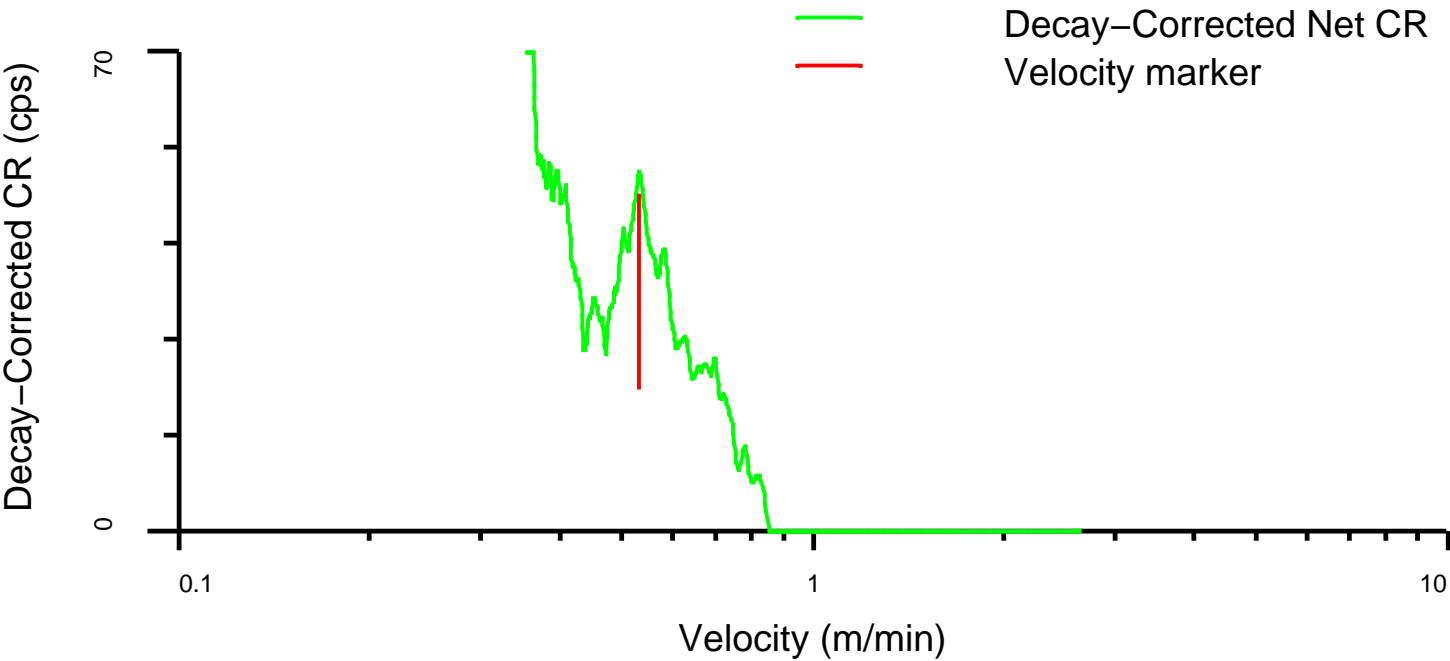
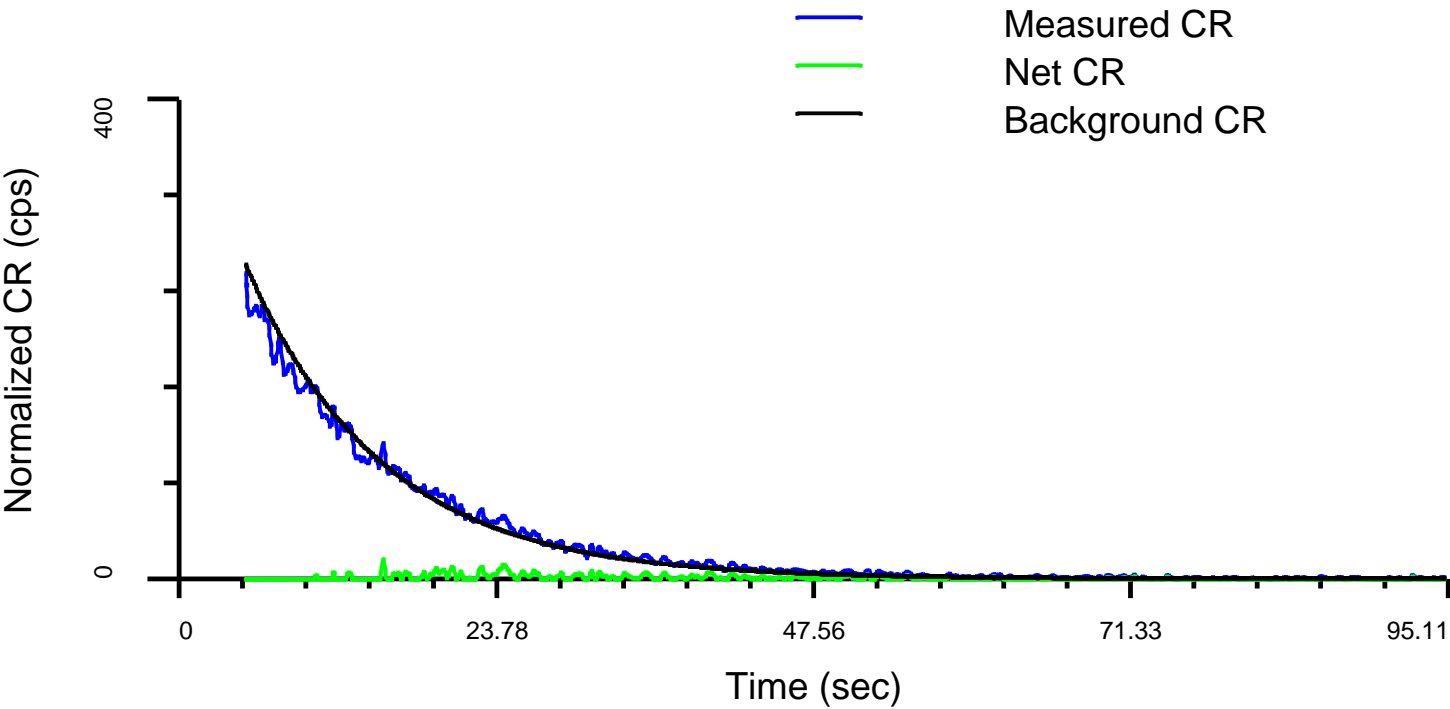
Data Acquired on: 09-Jul-2006 05:47
Detector is below Minitron (sensitive to Down Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 10



Log File Number	WFL Detector	Start Depth	Stop Depth	Flow Detected	Velocity	Velocity Error
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		(m)	(m)		(m/min)	(m/min)
070	RST-Near	2798.2	2798.0	Unknown	0.5	0.2

Data Acquired on: 09-Jul-2006 05:47
 Detector is above Minitron (sensitive to Up Flow)
 WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
 Number of WFL Cycles: 10

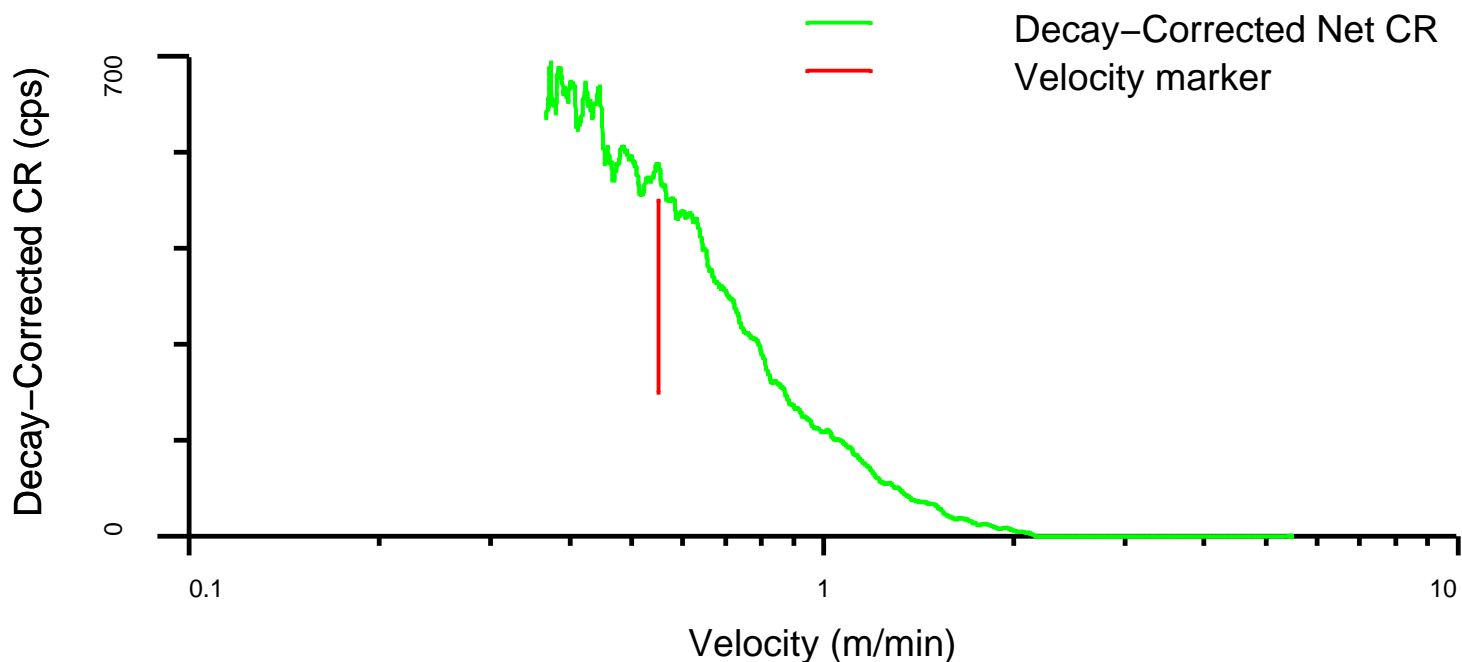
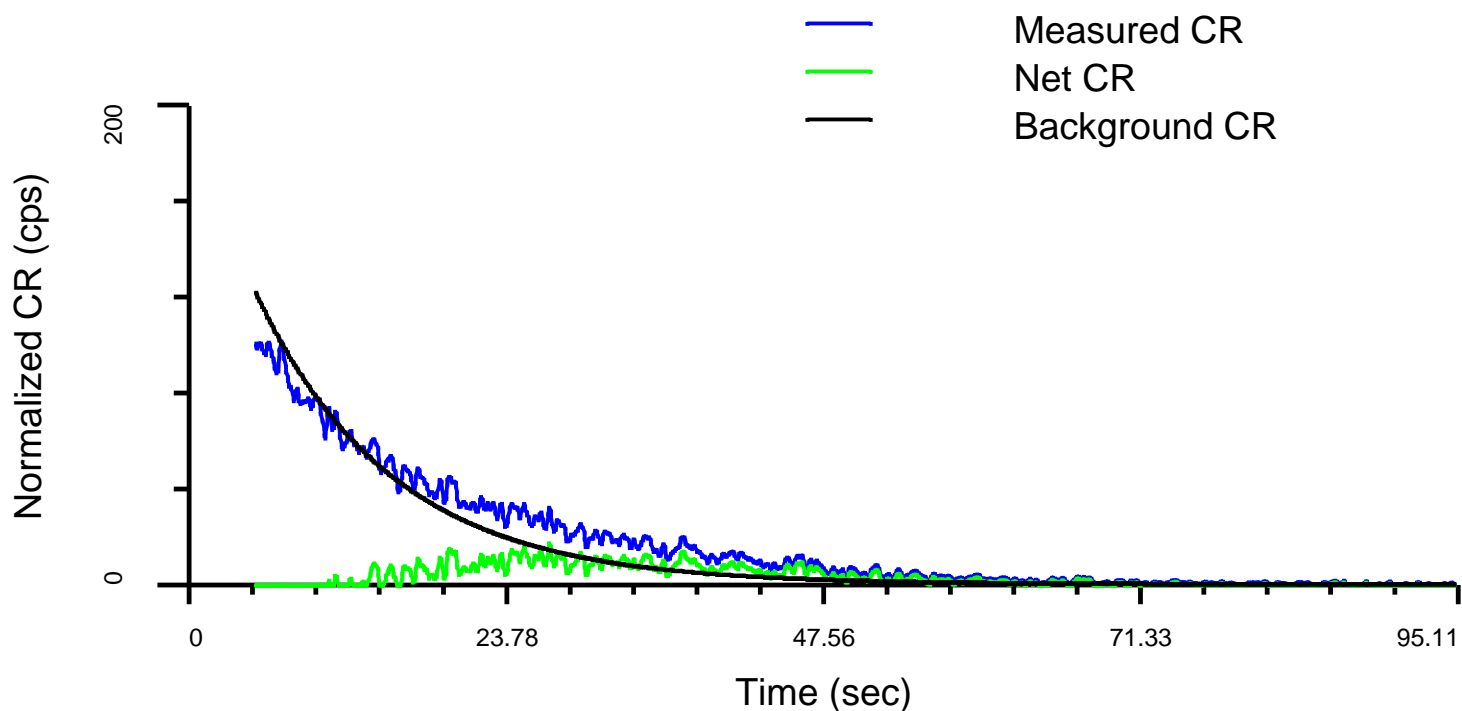


RST WFL Station Summary
09-Jul-2006 06:05

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
070	RST-Far	2798.2	2797.8	Yes	0.5	0.1

Data Acquired on: 09-Jul-2006 05:47
 Detector is above Minitron (sensitive to Up Flow)

Detector is above Minitron (sensitive to Up Flow)
WFL Subcycle Time: 10.00 sec On – 90.67 sec Off
Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 06:05

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
070	PBMS-GR	2798.2	2793.0	Unknown	4.1	3.4

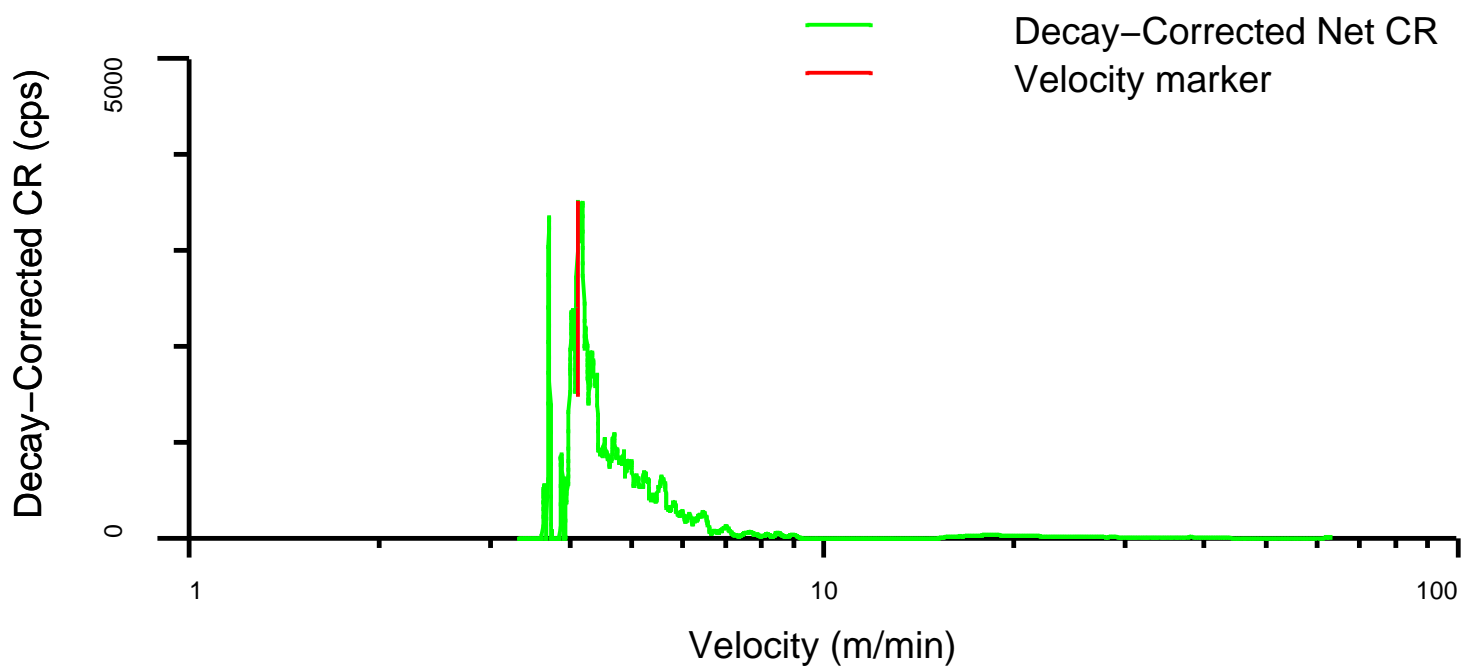
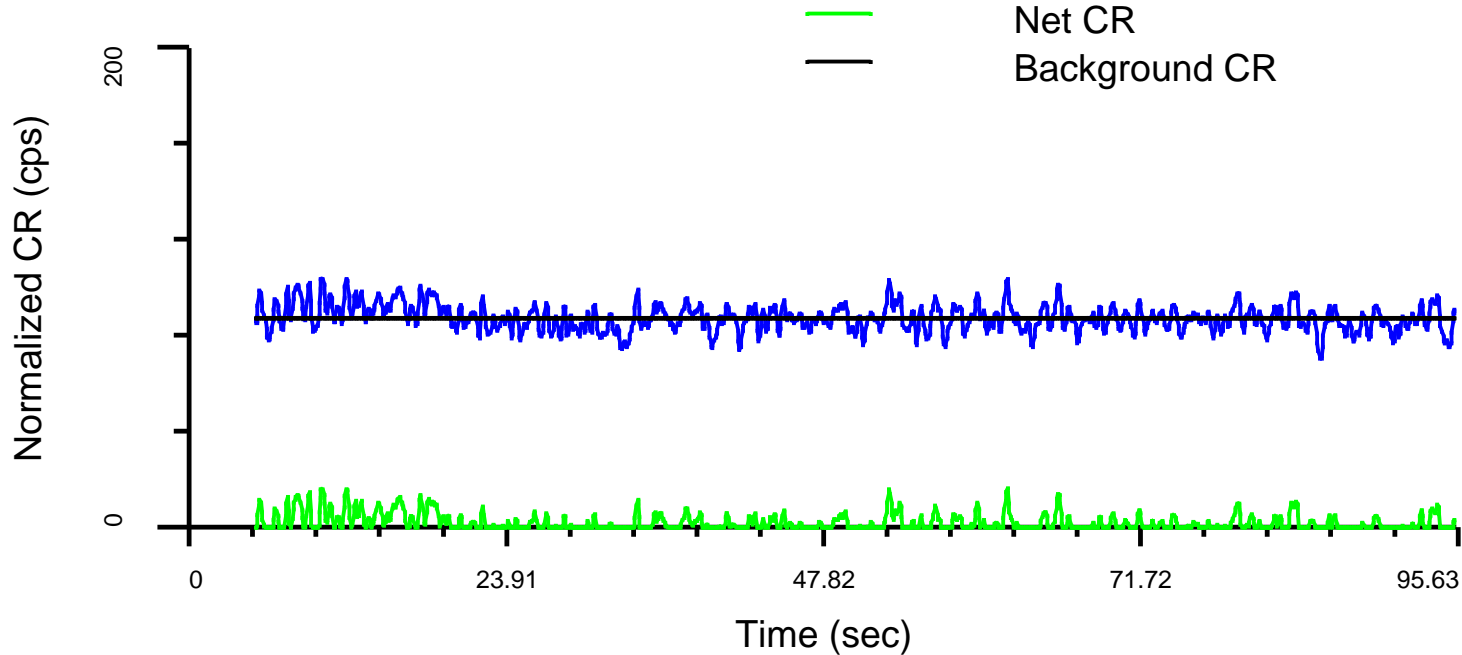
Data Acquired on: 09-Jul-2006 05:47

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 10.00 sec On – 90.67 sec Off

Number of WFL Cycles: 10

Measured CR



Schlumberger

Shut In RST-WFL
Station 2798m Fast

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 05:44

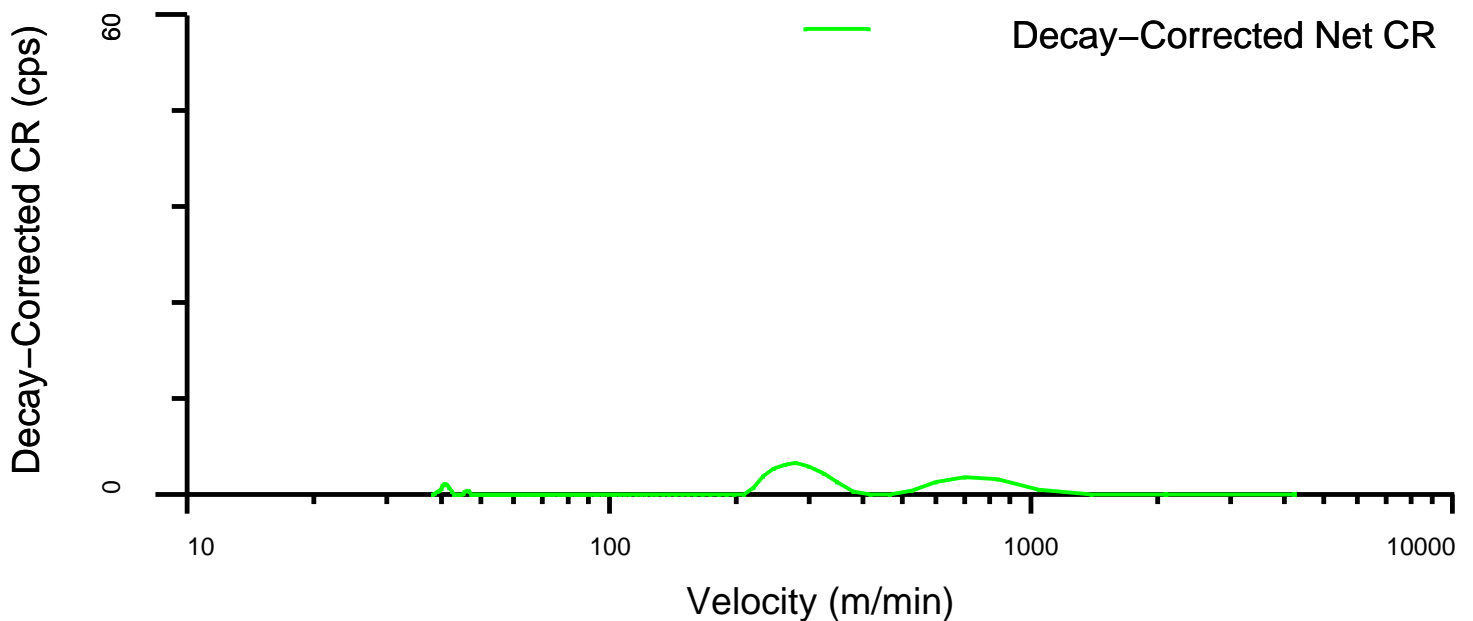
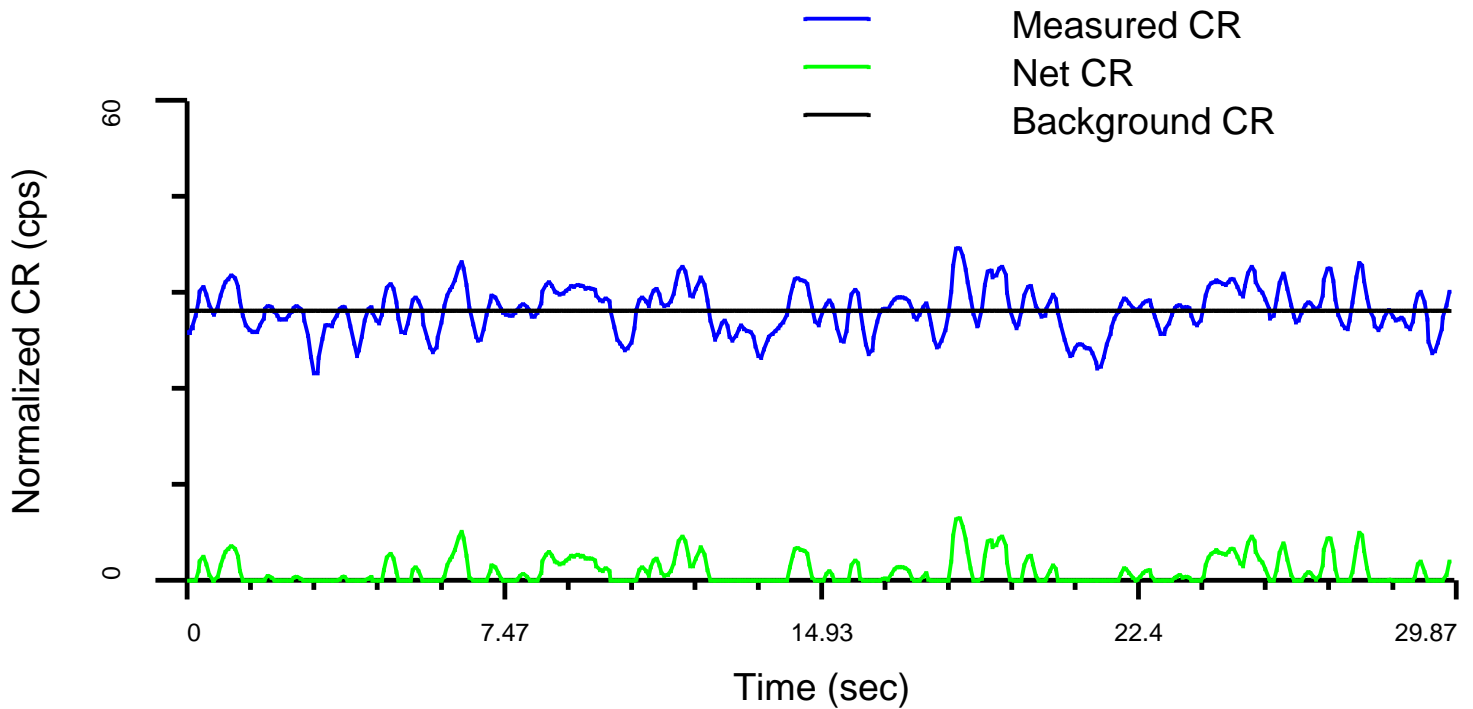
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
068	WPGR	2798.2	2802.6	No	---	---

Data Acquired on: 09-Jul-2006 05:39

Detector is below Minitron (sensitive to Down Flow)

WFL Subcycle Time: 0.07 sec On – 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 05:44

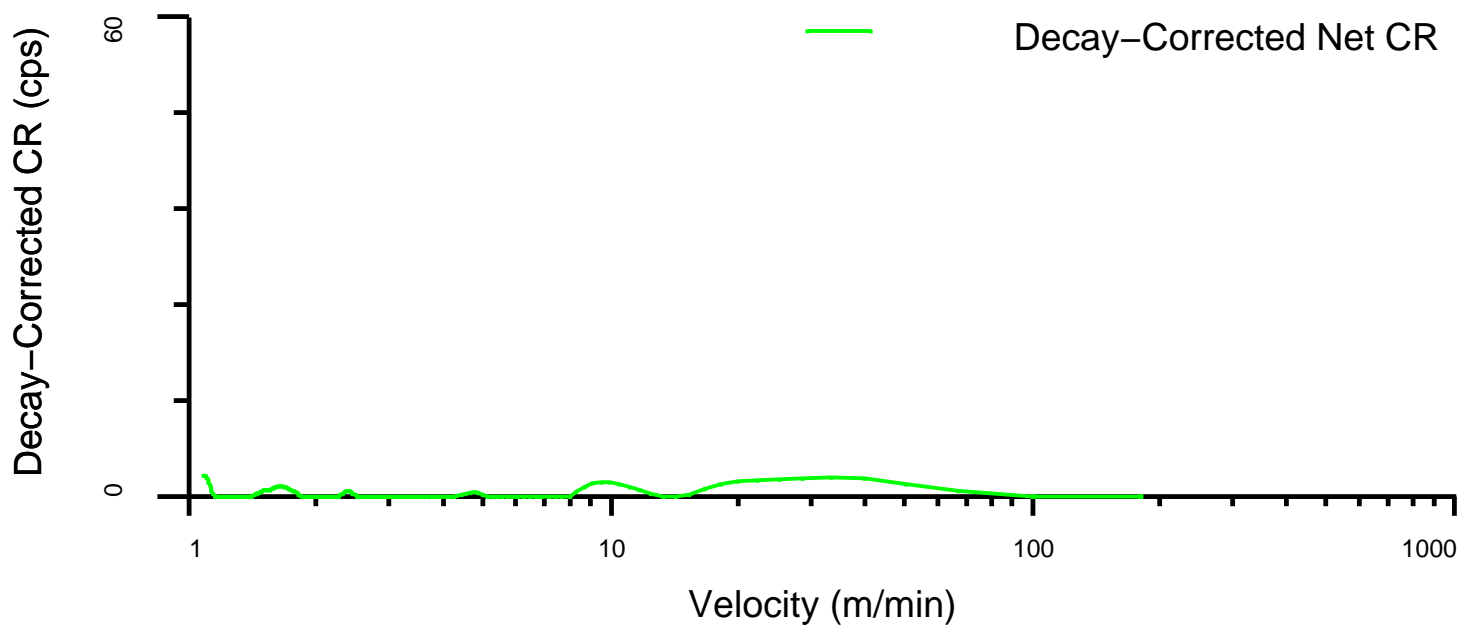
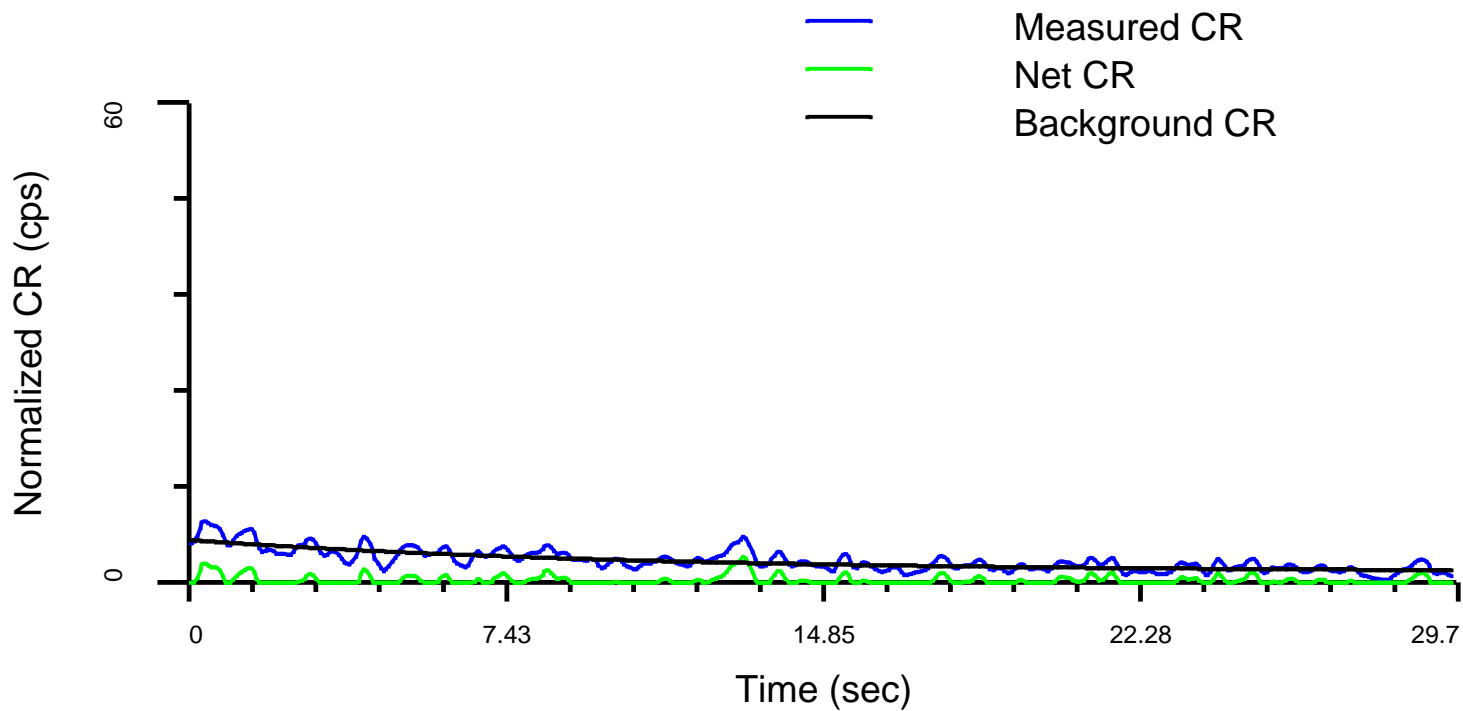
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
068	RST-Near	2798.2	2798.0	No	---	---

Data Acquired on: 09-Jul-2006 05:39

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On – 29.87 sec Off

Number of WFL Cycles: 10



RST WFL Station Summary

09-Jul-2006 05:44

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
068	RST-Far	2798.2	2797.8	No	---	---

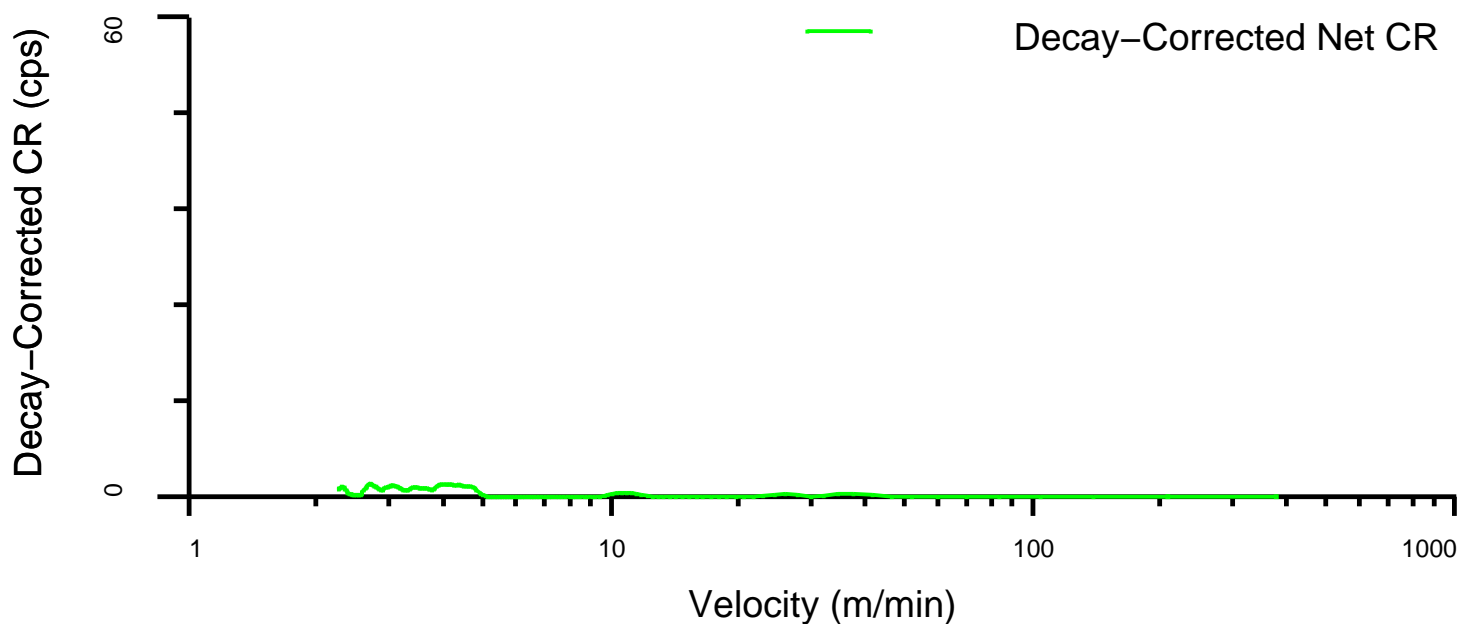
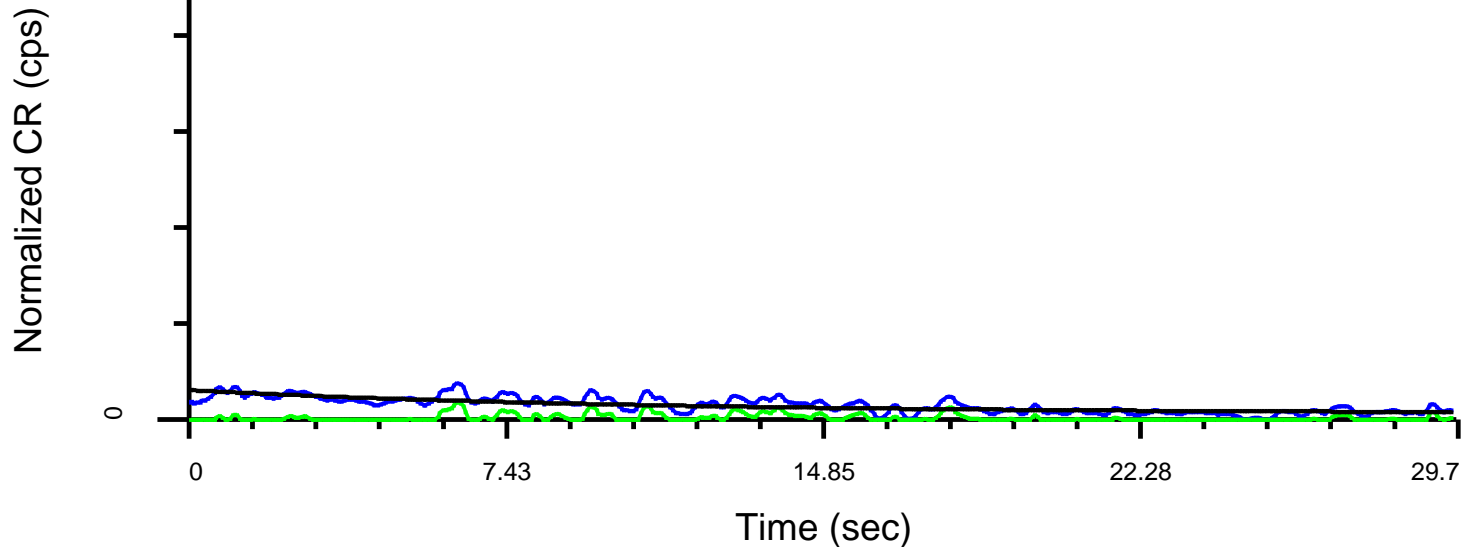
Data Acquired on: 09-Jul-2006 05:39

Detector is above Minitron (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





RST WFL Station Summary

09-Jul-2006 05:44

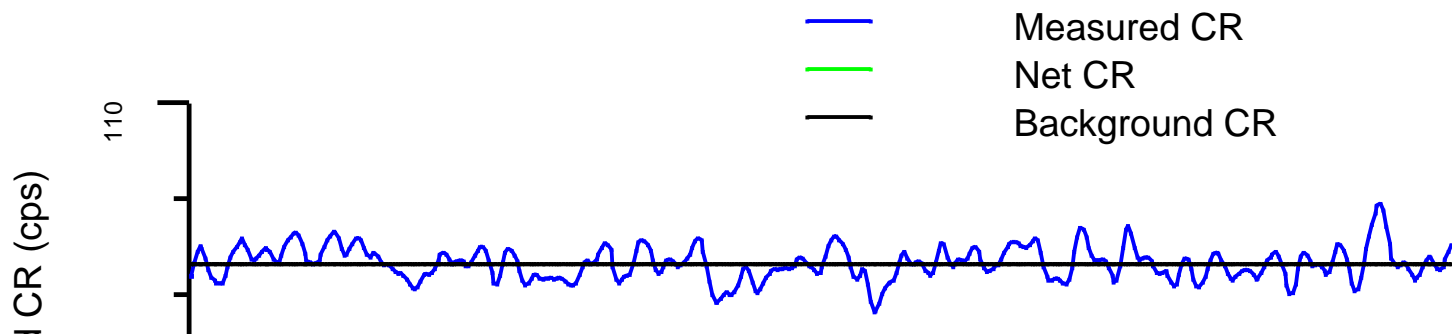
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
068	PBMS-GR	2798.2	2793.0	No	---	---

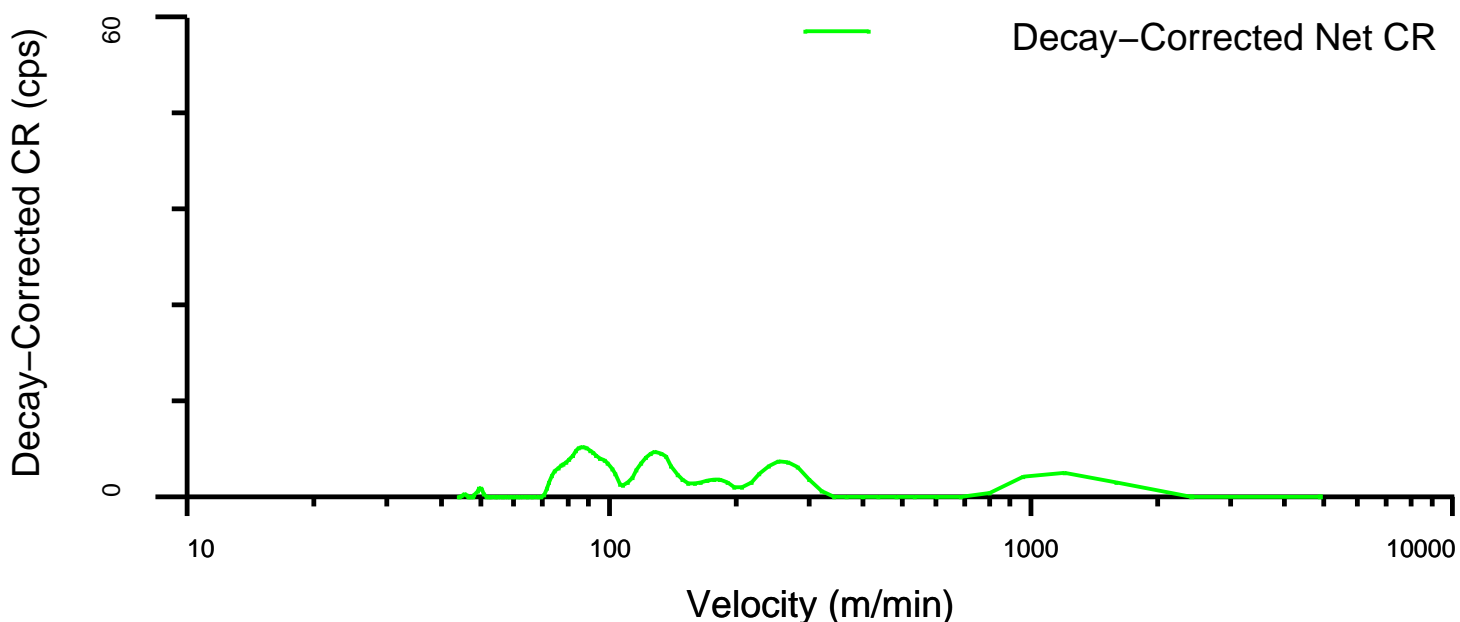
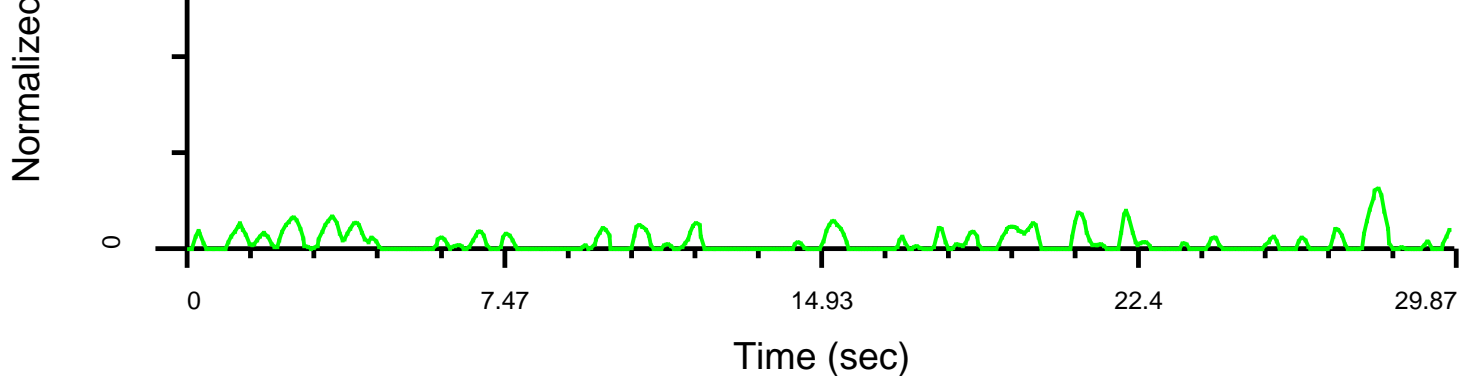
Data Acquired on: 09-Jul-2006 05:39

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.07 sec On - 29.87 sec Off

Number of WFL Cycles: 10





Schlumberger

Shut In RST-WFL
Station 2798m Normal

MAXIS Field Log

RST WFL Station Summary

09-Jul-2006 05:36

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
067	WPGR	2798.2	2802.6	No	---	---

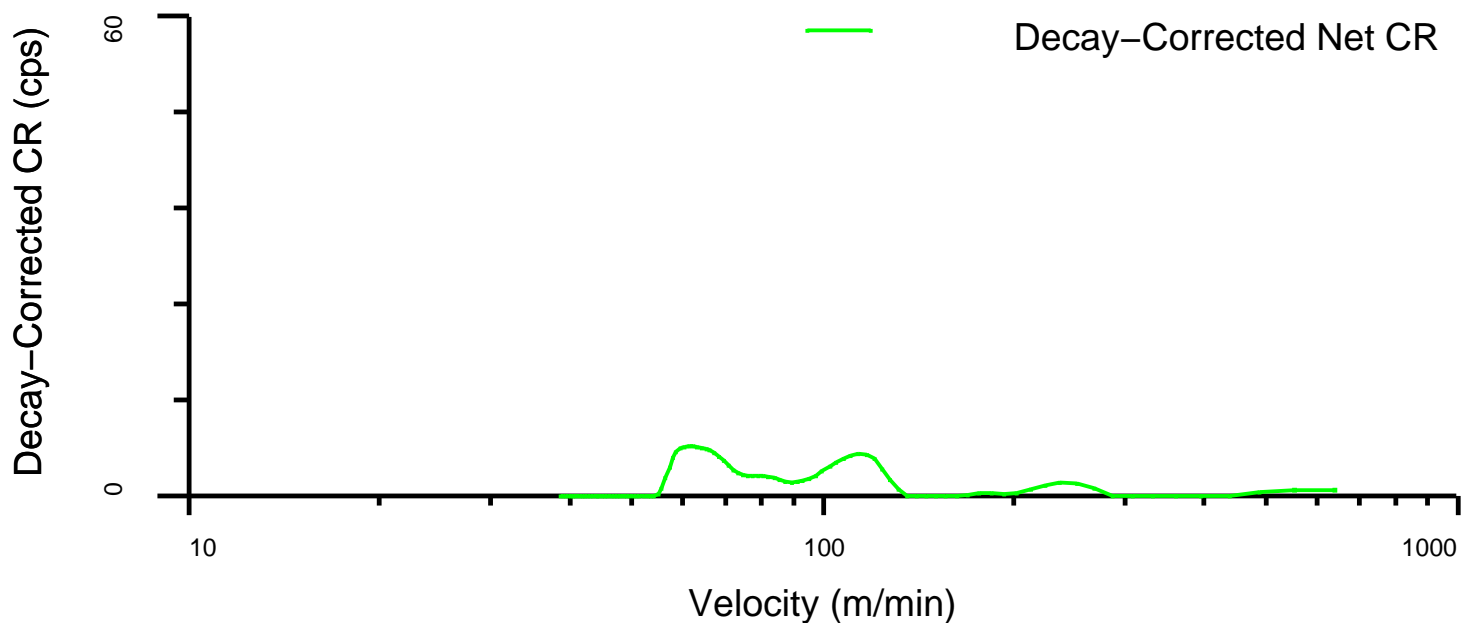
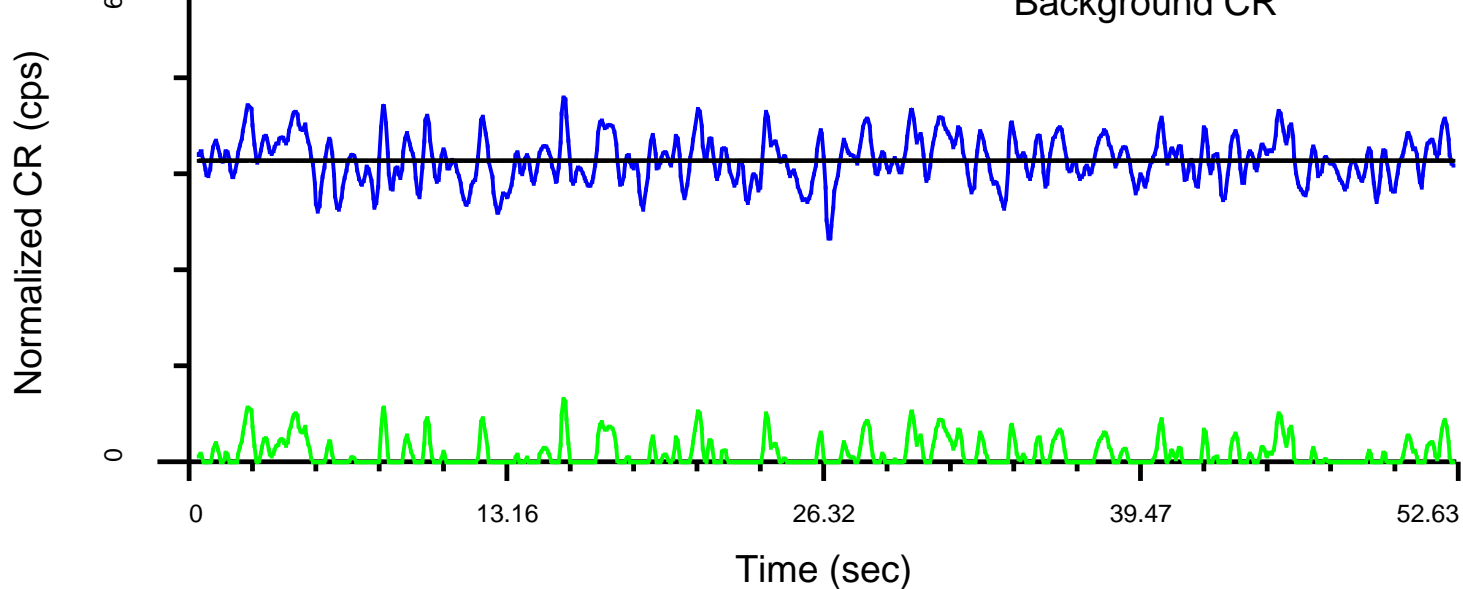
Data Acquired on: 09-Jul-2006 05:26

Detector is below Minित्रon (sensitive to Down Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 11

Measured CR
Net CR
Background CR



RST WFL Station Summary

09-Jul-2006 05:36

Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
067	RST-Far	2798.2	2797.8	No	---	---

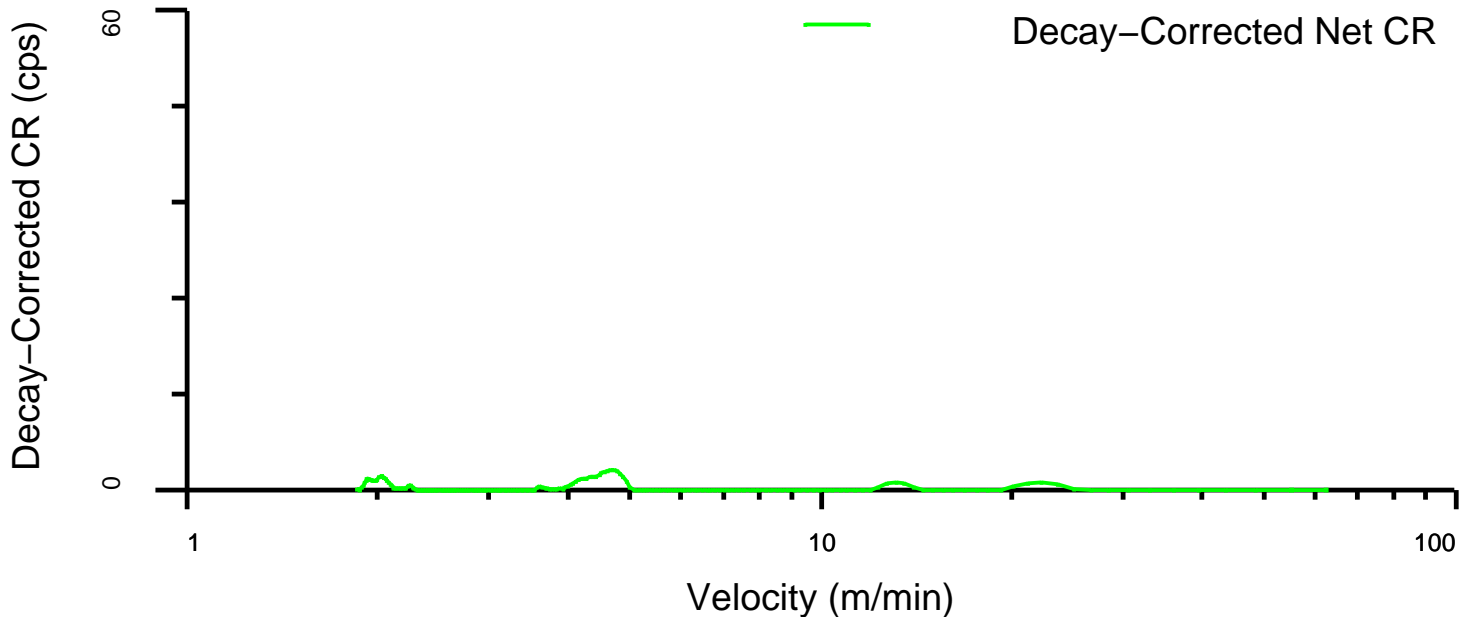
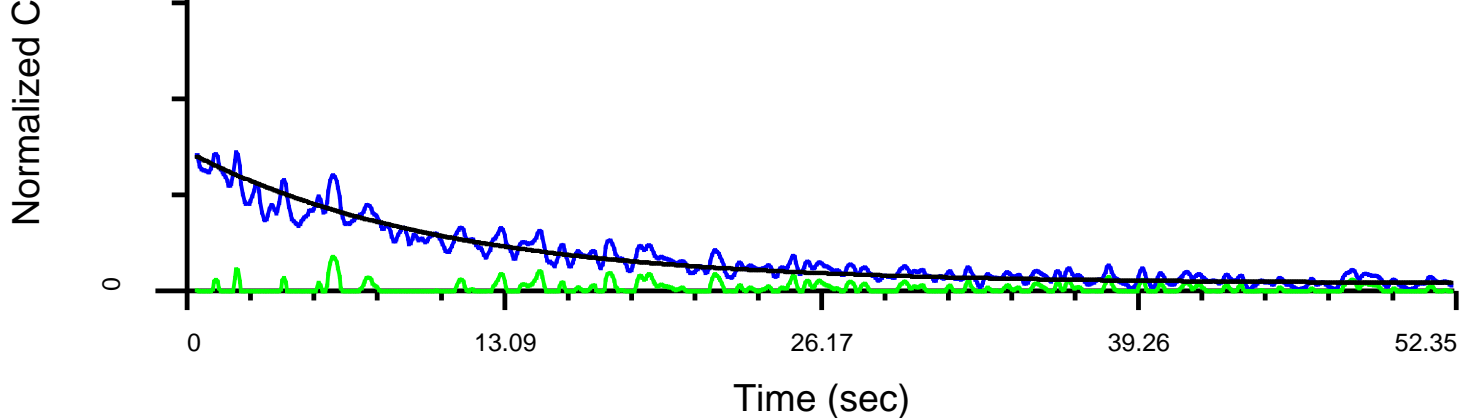
Data Acquired on: 09-Jul-2006 05:26

Detector is above Minitrion (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 11





RST WFL Station Summary

09-Jul-2006 05:36

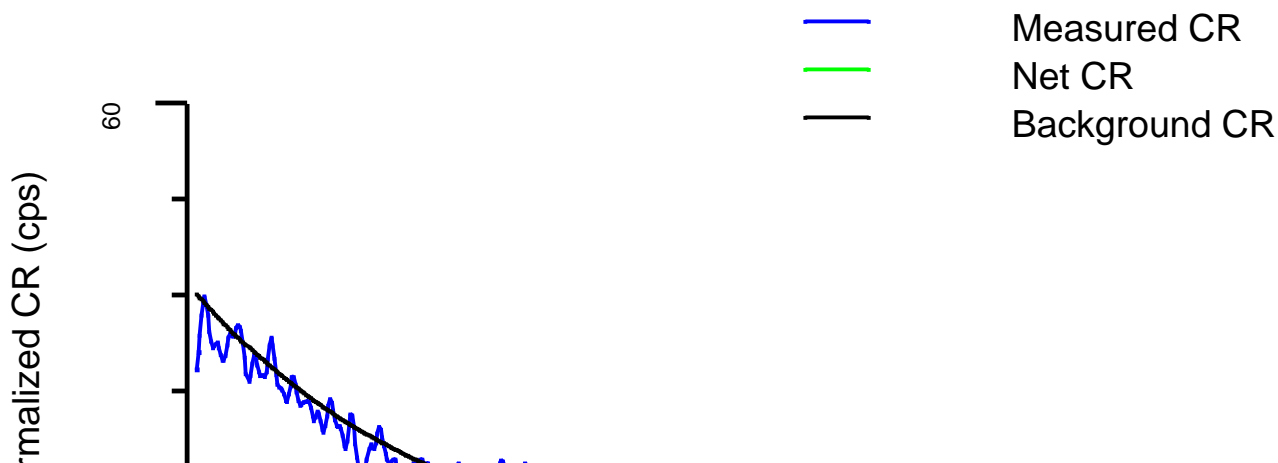
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
067	RST-Near	2798.2	2798.0	No	---	---

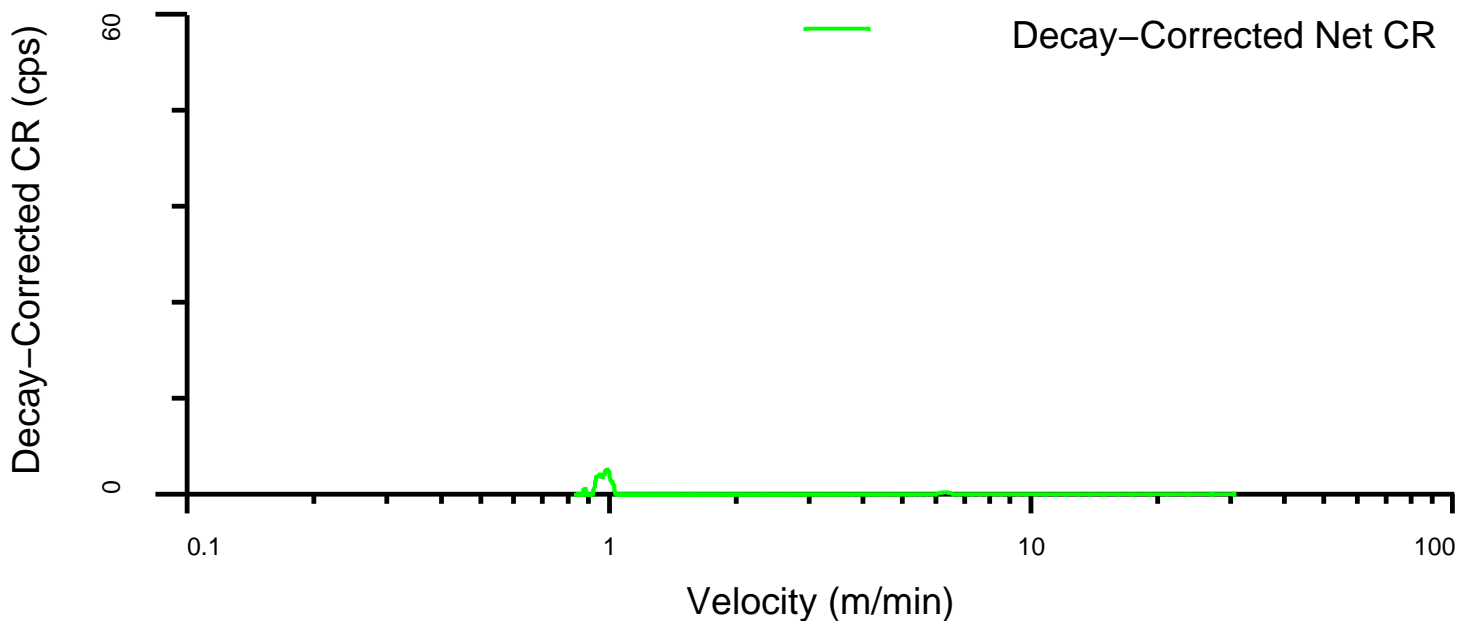
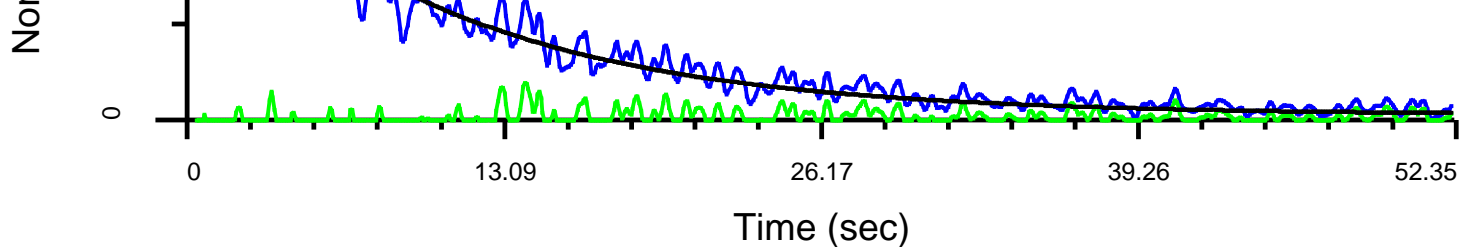
Data Acquired on: 09-Jul-2006 05:26

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 11





RST WFL Station Summary

09-Jul-2006 05:36

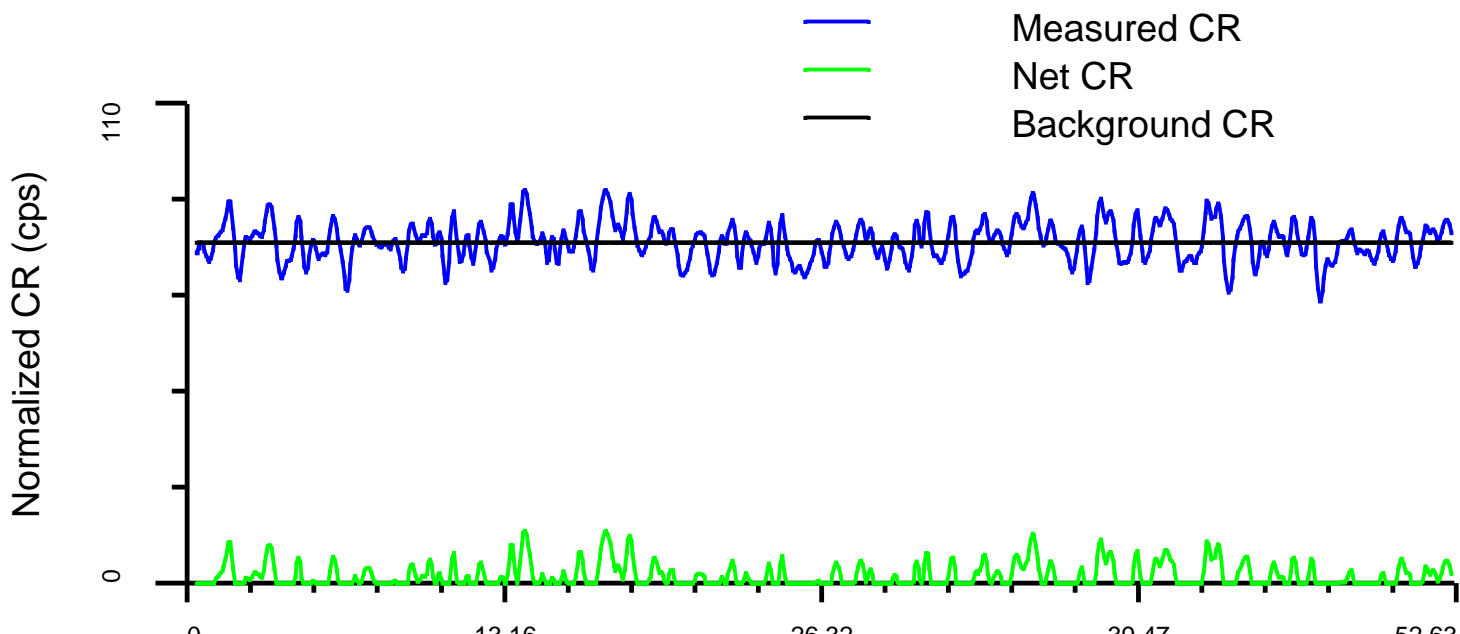
Log File Number	WFL Detector	Start Depth (m)	Stop Depth (m)	Flow Detected	Velocity (m/min)	Velocity Error (m/min)
067	PBMS-GR	2798.2	2793.0	No	---	---

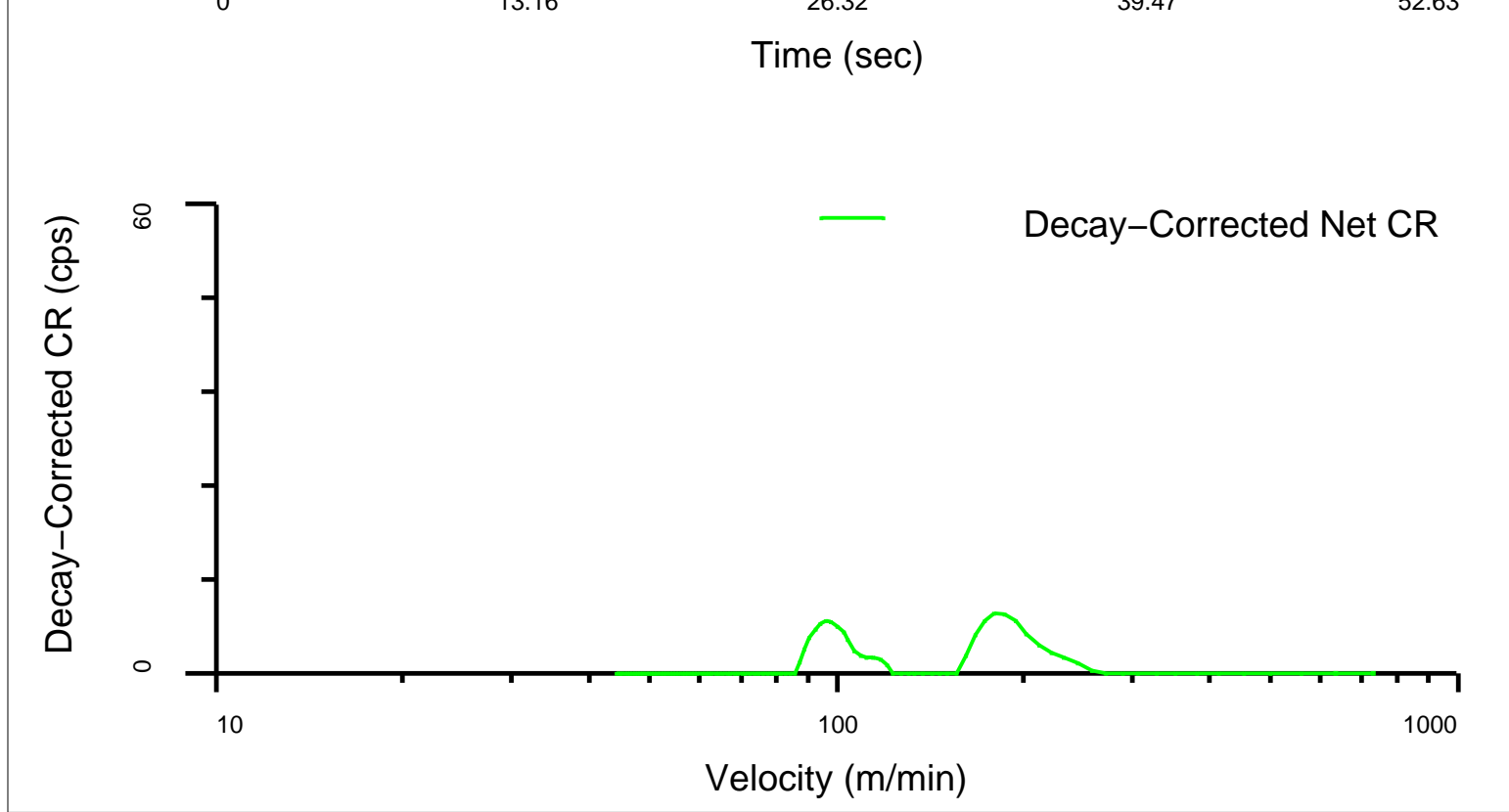
Data Acquired on: 09-Jul-2006 05:26

Detector is above Minitrone (sensitive to Up Flow)

WFL Subcycle Time: 0.80 sec On - 52.27 sec Off

Number of WFL Cycles: 11





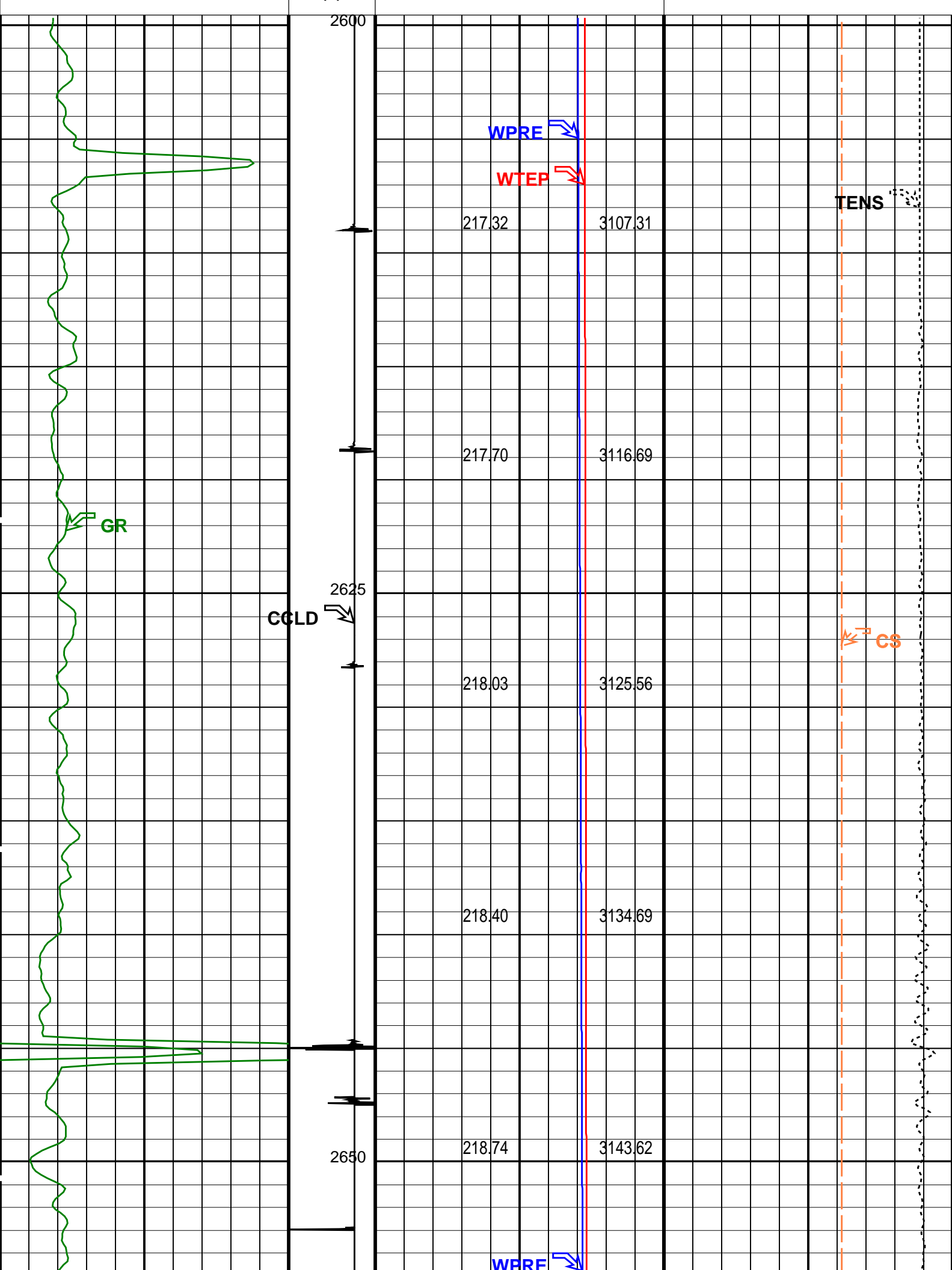
Shut In RST-WFL
Correlation Log

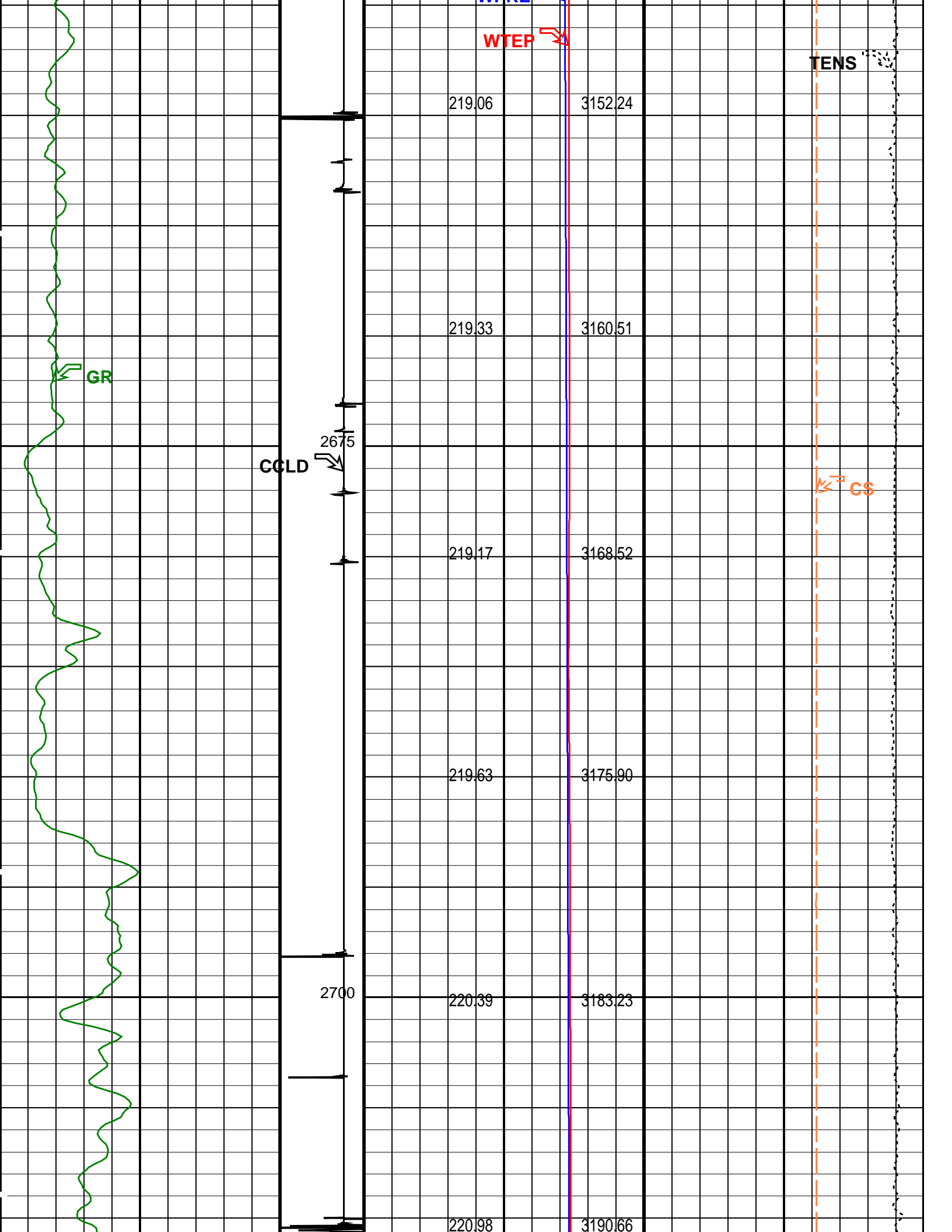
MAXIS Field Log

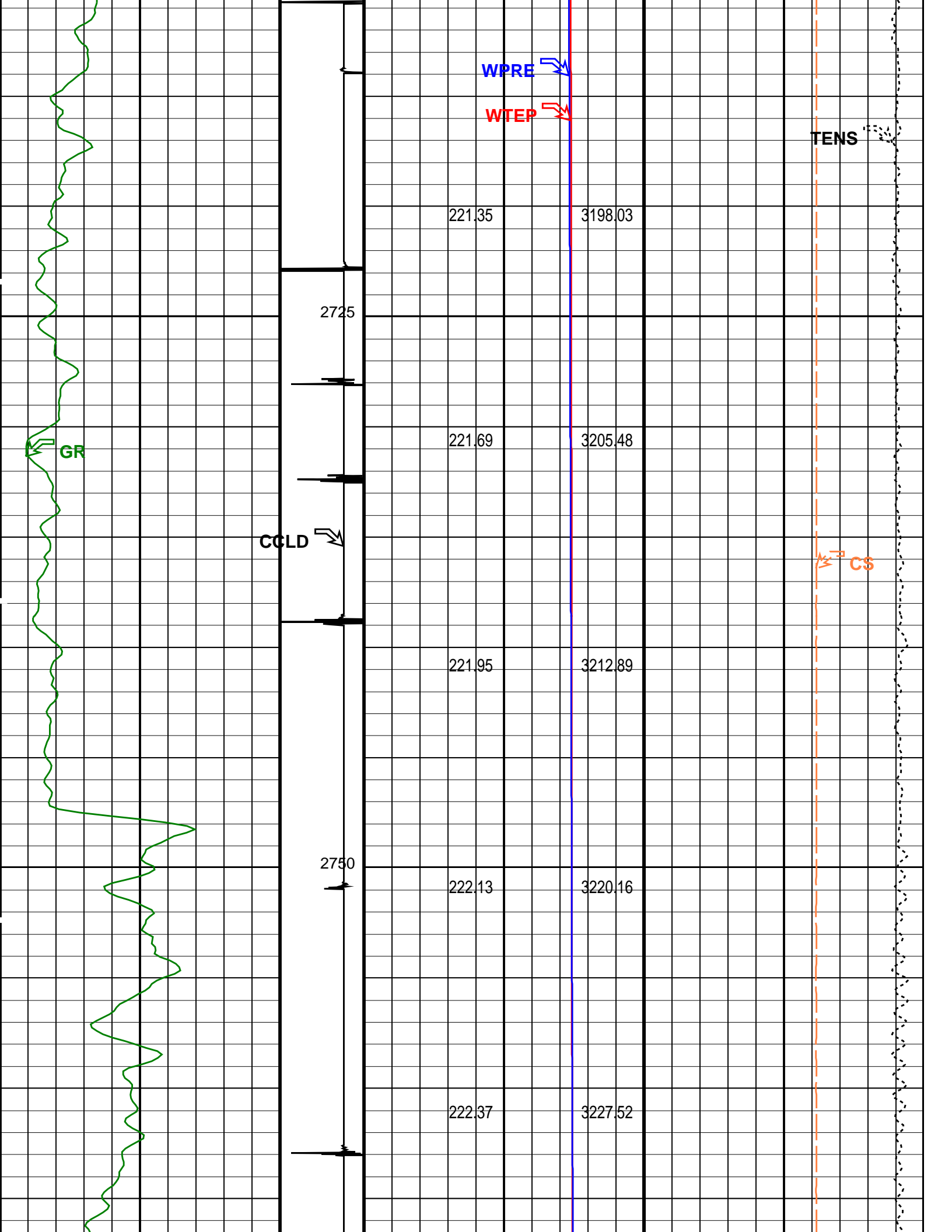
Company: Esso Australia pty Ltd. Well: HLA A-1

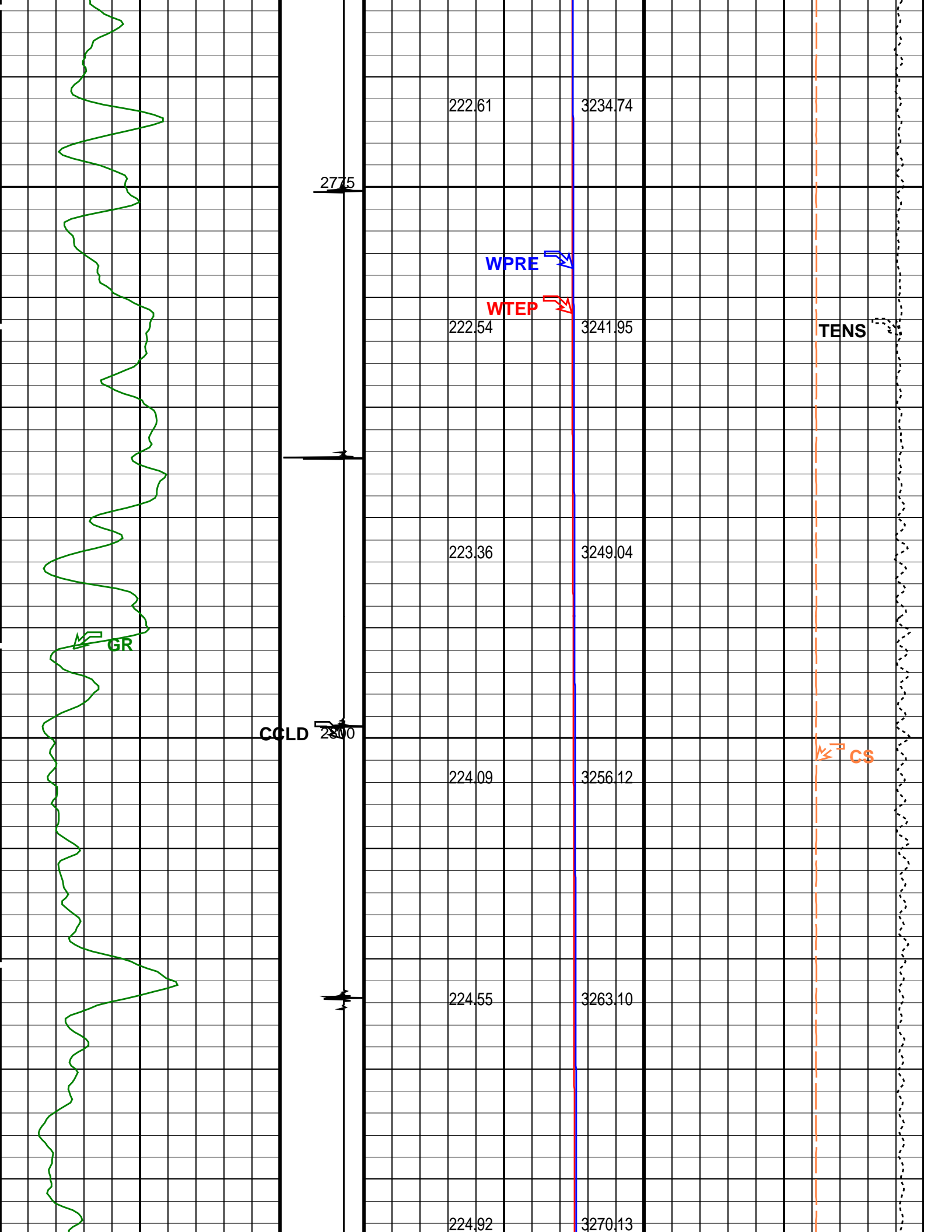
Input DLIS Files						
DEFAULT	FCS_WPGRT_RST_ILS_064LUP	FN:90	PRODUCER	09-Jul-2006 05:03	2929.7 M	2594.3 M
Output DLIS Files						
DEFAULT	FCS_WPGRT_RST_ILS_140PUP	FN:18	PRODUCER	18-Jul-2006 14:35	2934.5 M	2599.5 M
OP System Version: 14C0-302						
MCM						
PFCS-A	14C0-302		WPGRT-A	14C0-302		
RST-C	14C0-302		PILS-A	14C0-302		
PSPT-A/B	14C0-302					

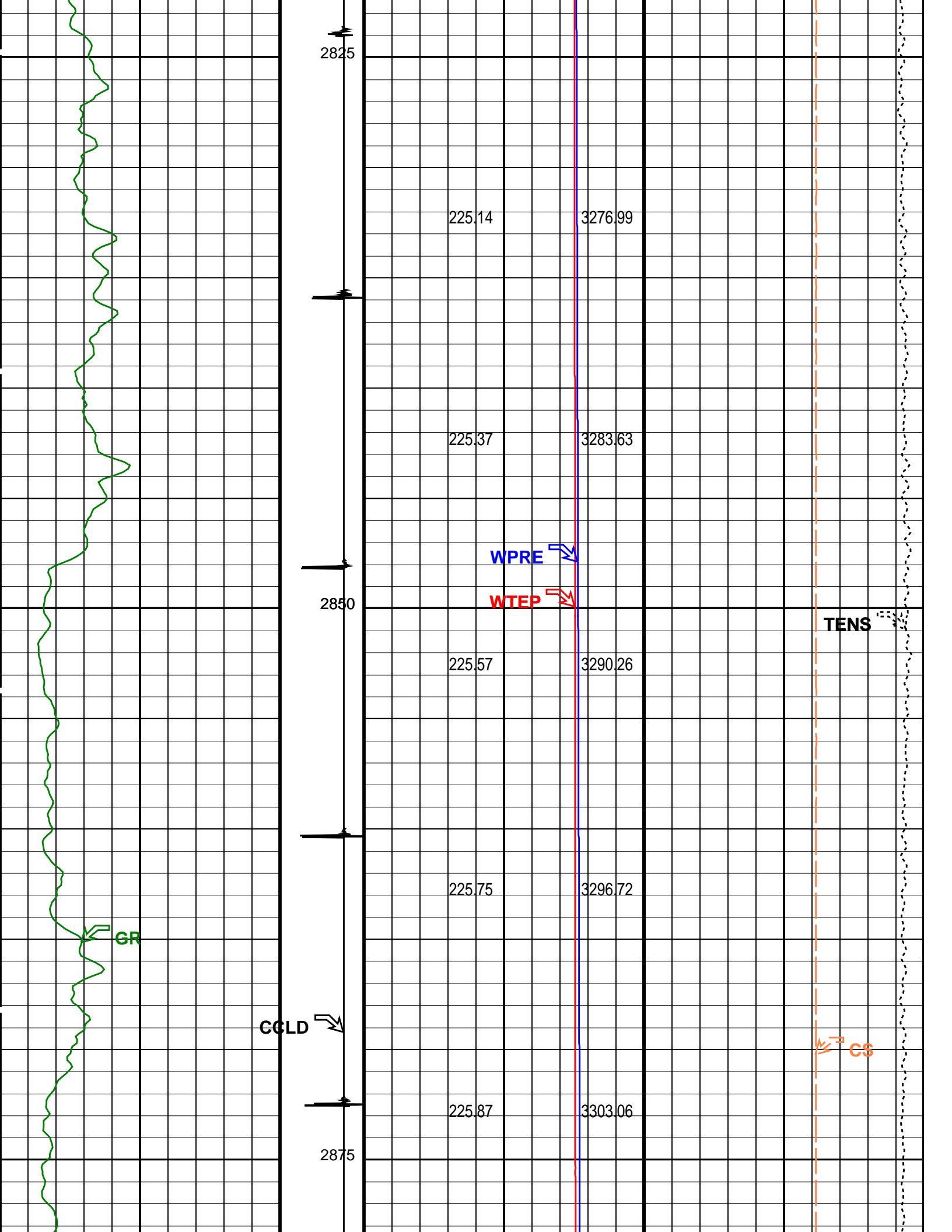
PIP SUMMARY						
Time Mark Every 60 S						
			Well Pressure (WPRE)			
			1000	4000		
			Well Temperature (WTEP) (DEGF)	Well Pressure (WPRE) (PSIA)		
					Cable Speed (CS)	
					100	3500
					(M/HR)	
Gamma Ray (GR)			Discriminat ed CCL (CCLD)	Well Temperature (WTEP)		Tension (TENS)
(GAPI)				(DEGF)		
0	150	3 (V) -1	0	300	0	2000

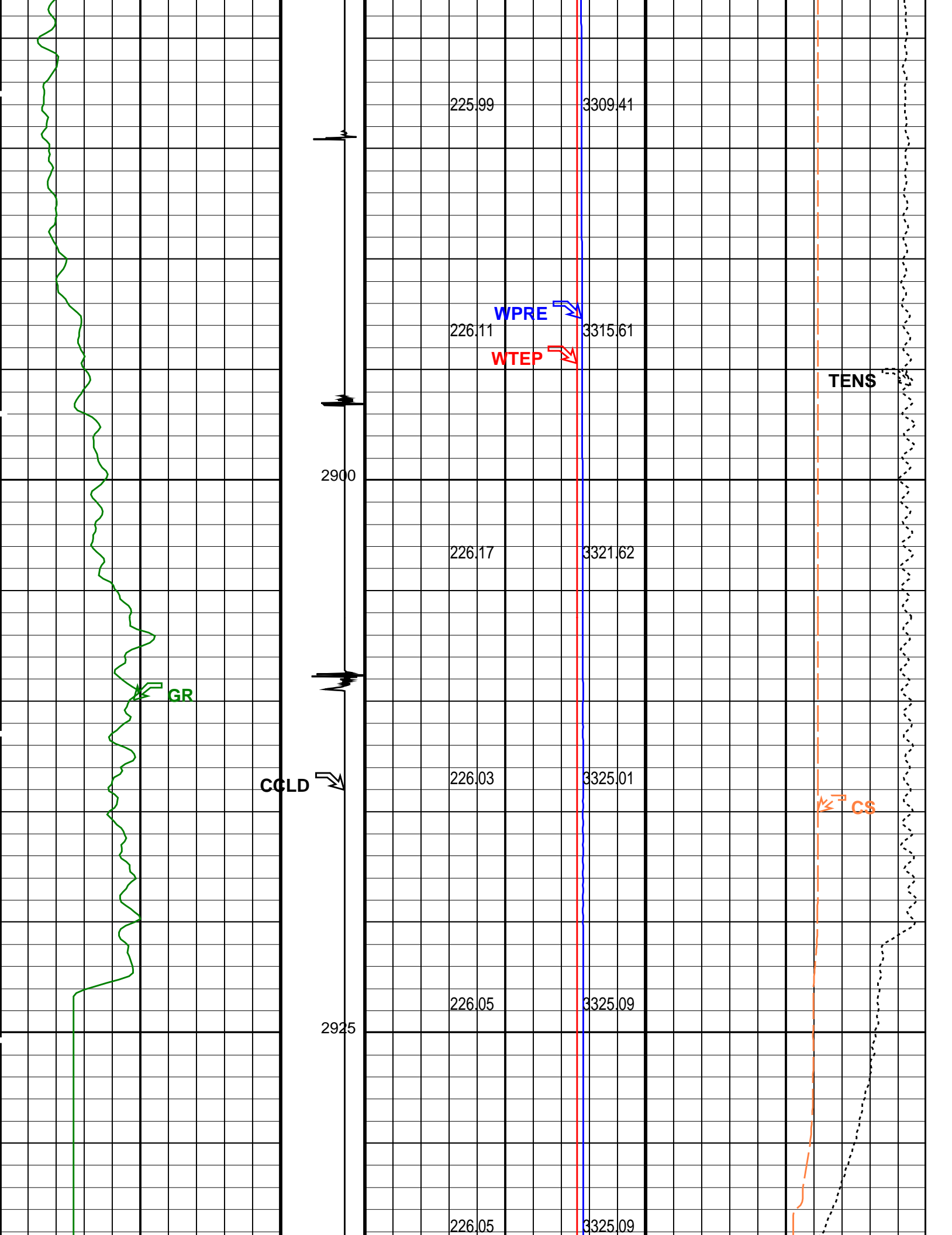






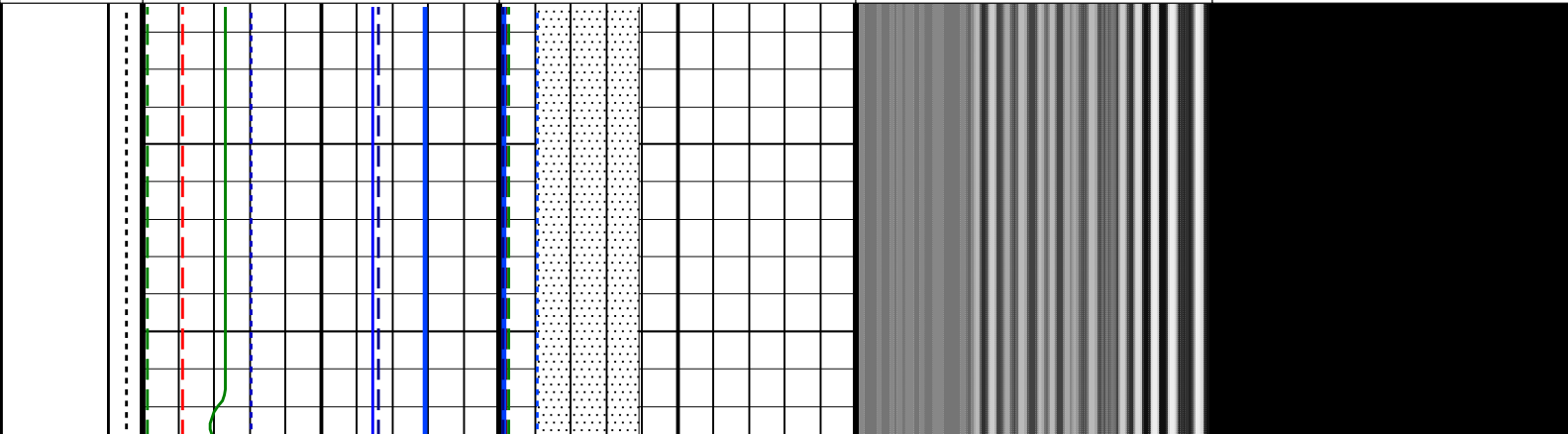
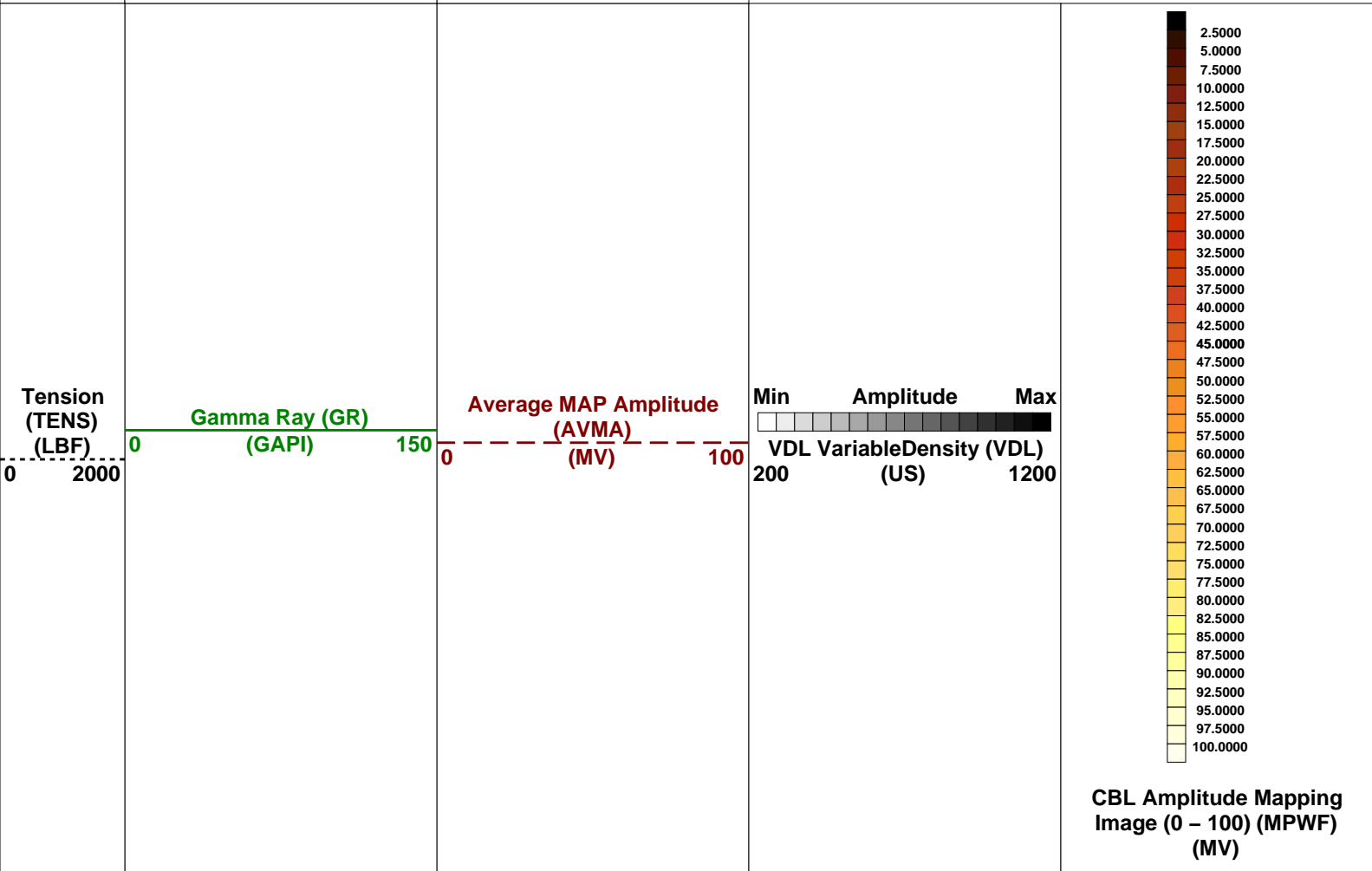






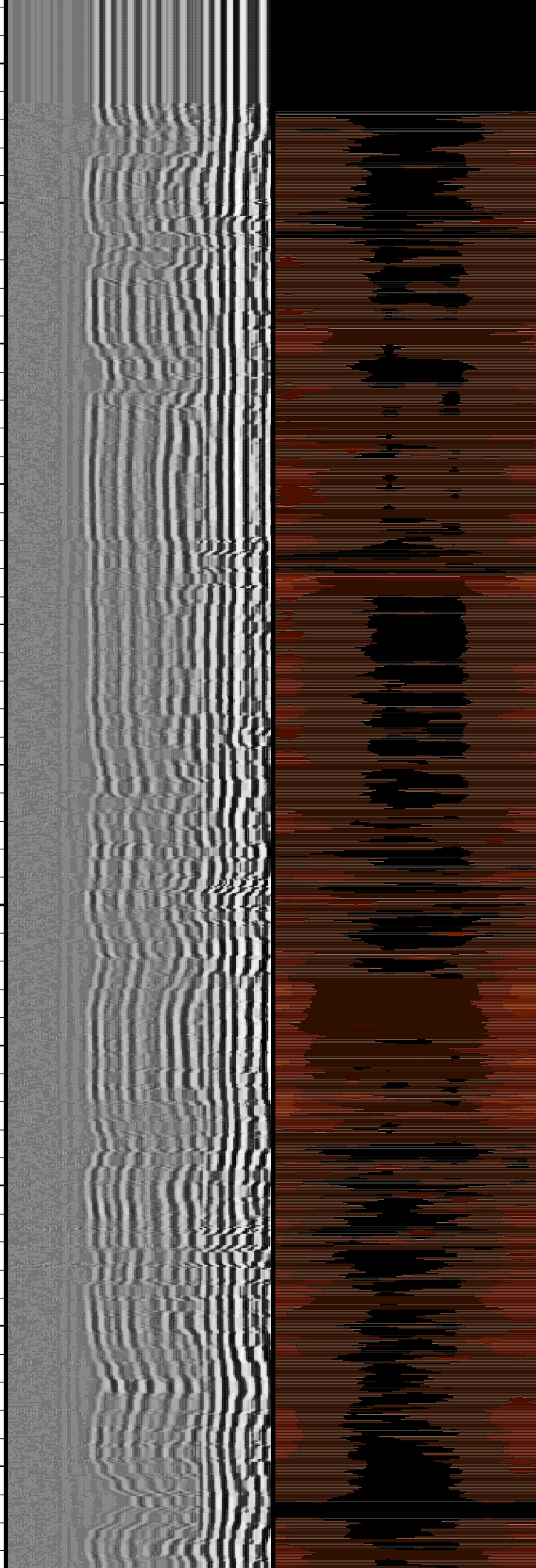
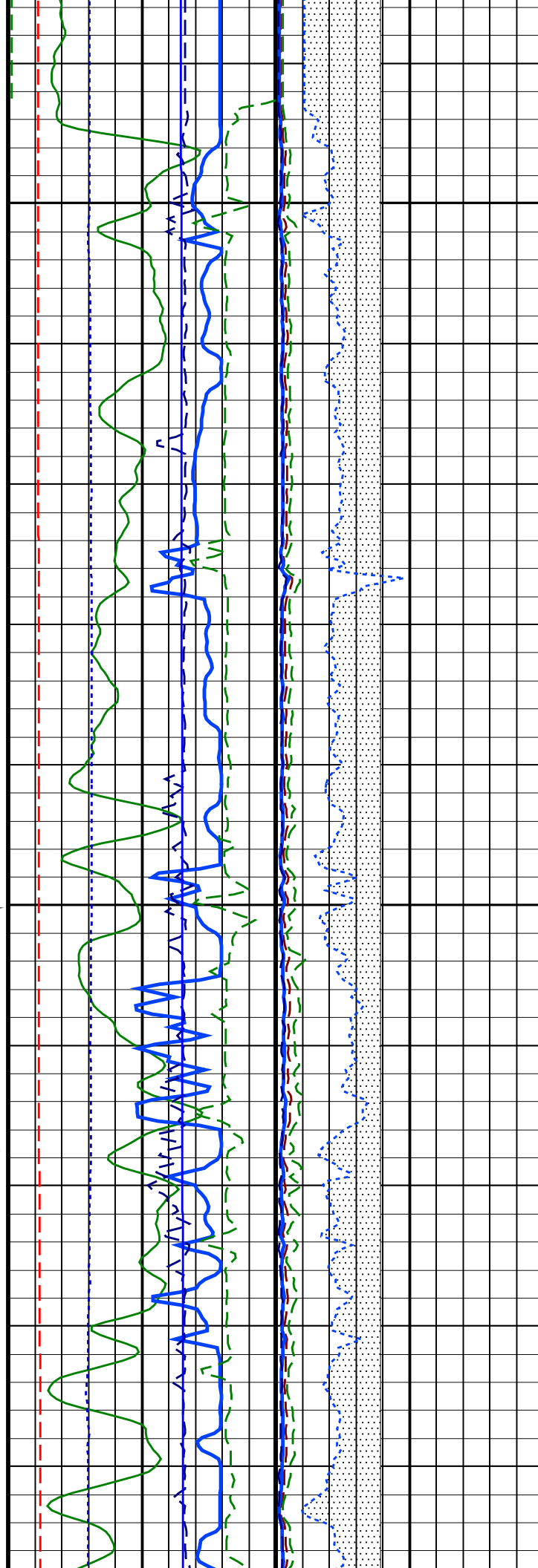
<div> <div>Gamma Ray (GR)</div> <div>(GAPI)</div> </div>		<div> <div>Discriminat</div> <div>ed CCL</div> <div>(CCLD)</div> </div>	<div> <div>Well Temperature (WTEP)</div> <div>(DEGF)</div> </div>		<div> <div>Tension (TENS)</div> <div>(LBF)</div> </div>	
0	150	3 (V) -1	0	300	0	2000
			<div> <div>Well Temperature</div> <div>(WTEP)</div> <div>(DEGF)</div> </div>		<div> <div>Well Pressure</div> <div>(WPRE)</div> <div>(PSIA)</div> </div>	
			<div> <div>Well Pressure (WPRE)</div> <div>(PSIA)</div> </div>		<div> <div>Cable Speed (CS)</div> <div>(M/HR)</div> </div>	
			<div> <div>1000</div> <div>(PSIA)</div> <div>4000</div> </div>		<div> <div>100</div> <div>3500</div> </div>	

	Maximum MAP Transit Time (MXTT) (US)		Maximum MAP Amplitude (MXMA) (MV)	
	100	300	0	100
	Minimum MAP Transit Time (MITT) (US)		Minimum MAP Amplitude (MIMA) (MV)	
	100	300	0	100
	Cbl 3.ft Transit Time (TT) 200 (US) 400		GoodBond From ACBL to GOBO	
Discriminat ed CCL (CCLD)	Well Pressure (WPRE) 0 (PSIA) 5000		Good Bond (GOBO) 0 (MV) 10	
	Well Temperature (WTEP) 0 (DEGF) 200		CBL Amplitude (CBL) 0 (MV) 100	
	Relative Bearing (RB_SCMT) 0 (DEG) 360		CBL Amplitude (CBL) 0 (MV) 10	
3 (V) -1				



2750

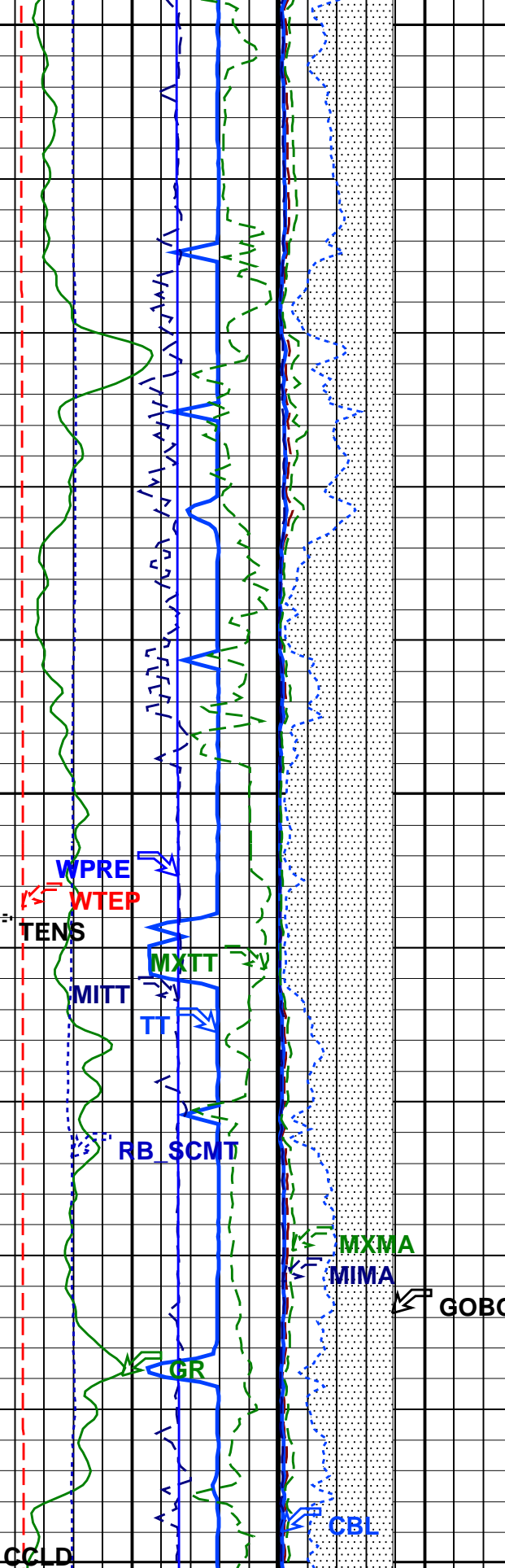
2775

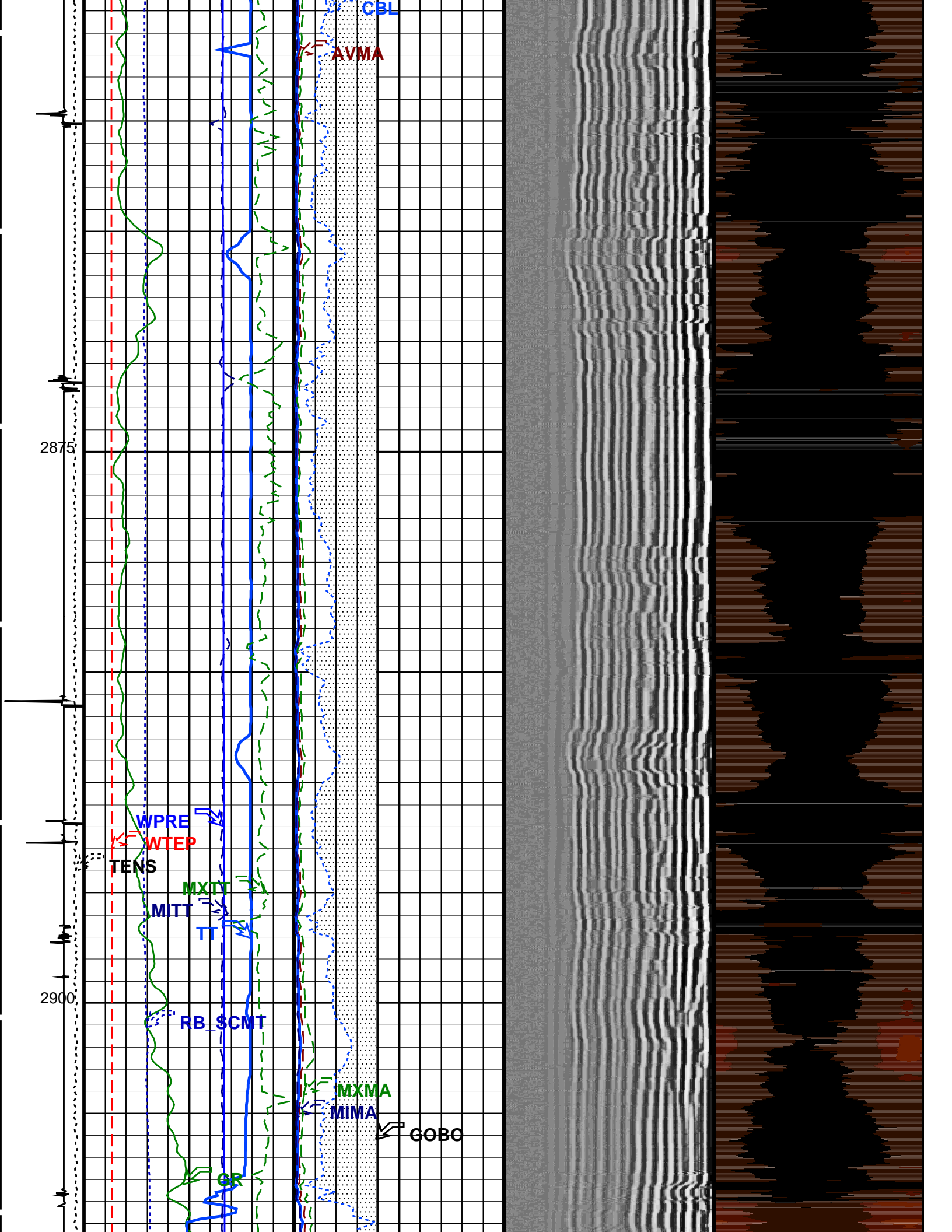


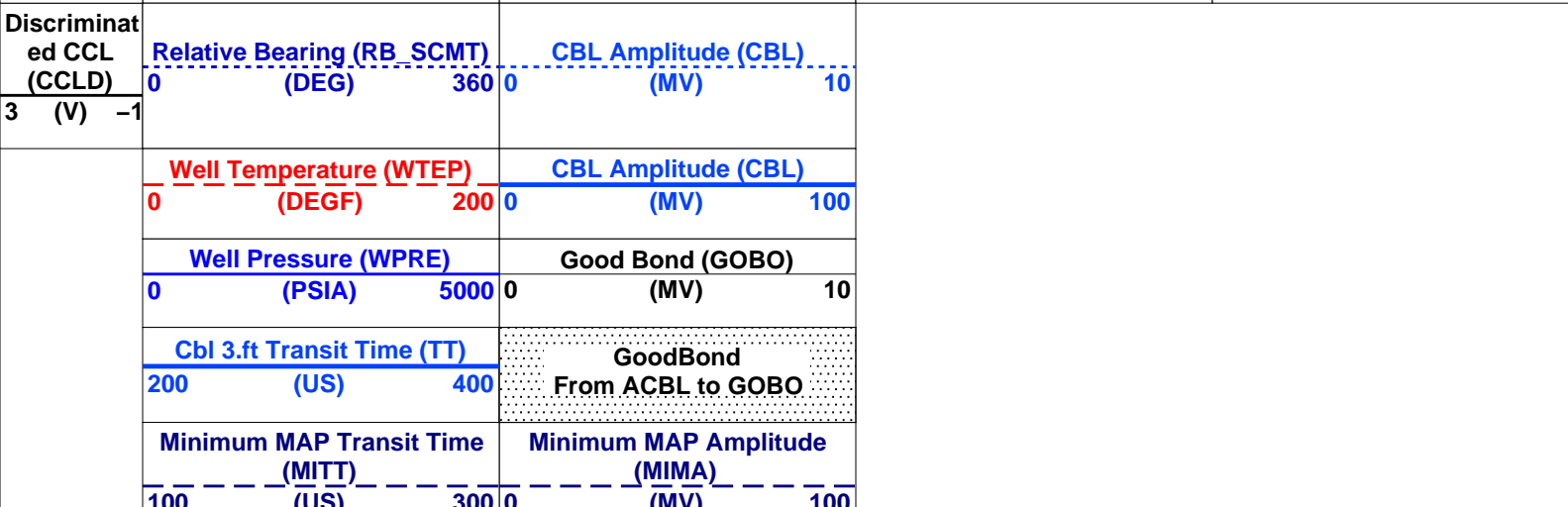
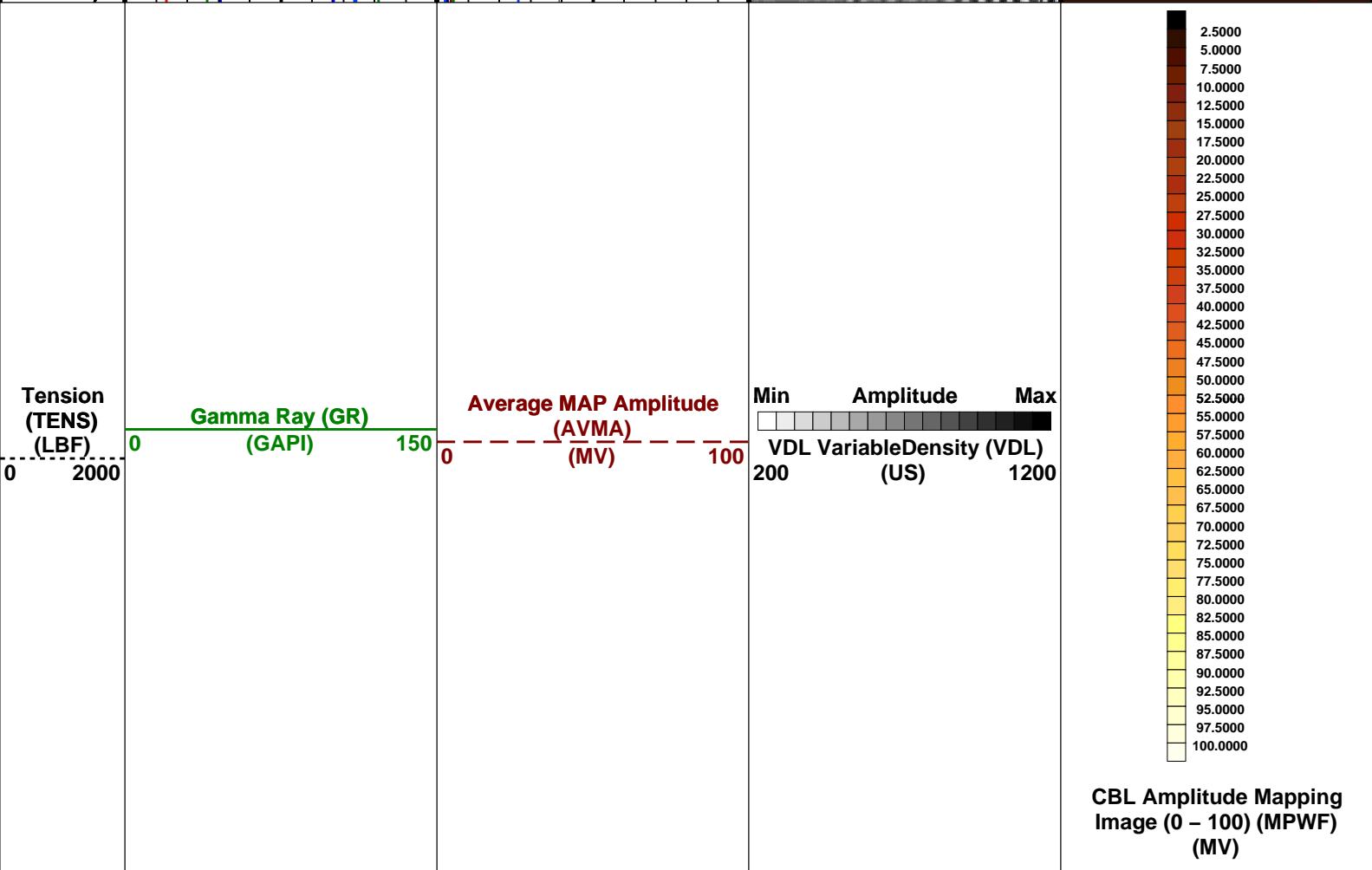
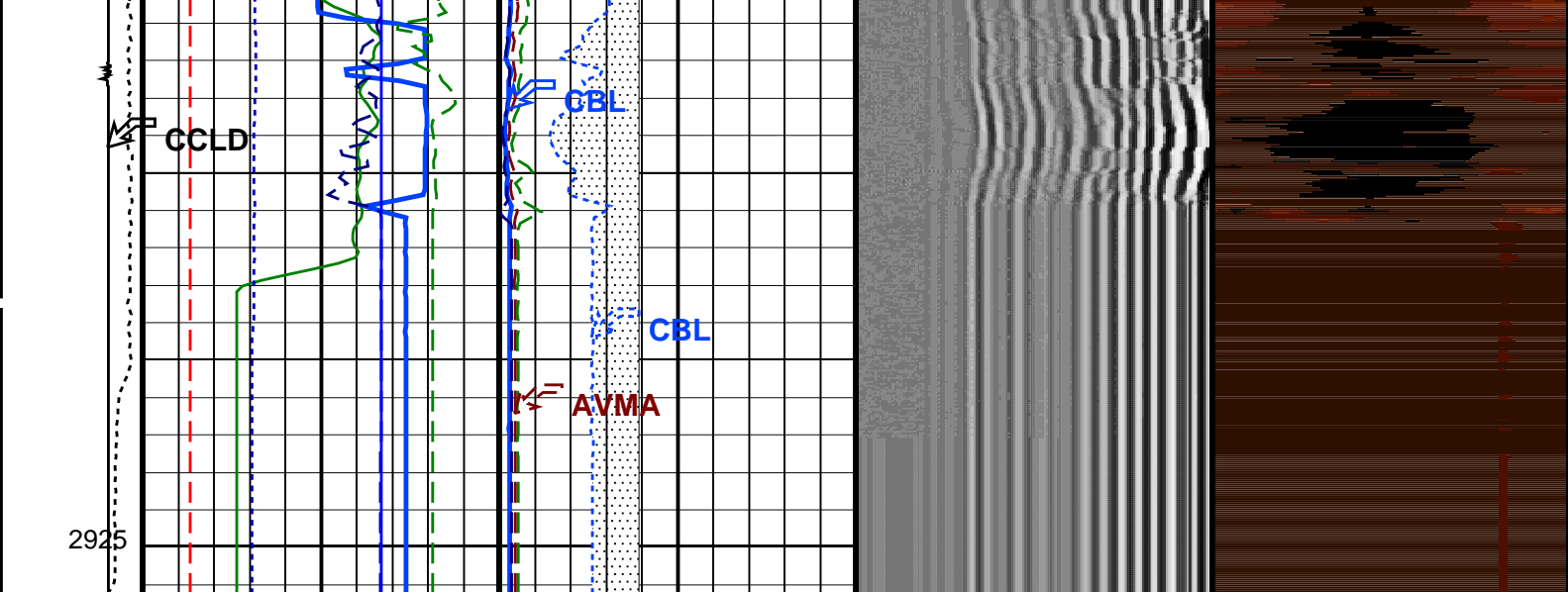
2800

2825

2850







100	(US)	300	0	(MV)	100
Maximum MAP Transit Time (MXTT)		Maximum MAP Amplitude (MXMA)			
100	(US)	300	0	(MV)	100

PIP SUMMARY					
Time Mark Every 60 S					

Format: Scmt_VDL_Image	Vertical Scale: 1:200	Graphics File Created: 09-Jul-2006 00:42
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OP System Version: 14C0-302			
MCM			
SCMT-CA	14C0-302	PSPT-A/B	14C0-302

<<<SCMT Cement Evaluation Information Summary>>>			
Sonde Serial Number	SCMS-CA 8117		
Current Casing Size	7.0 IN		
Casing Weight	26.0 LB/F		
Expected CBL Amplitude in Free Pipe Section	62 MV	Minimum Sonic Amplitude	1.94803 MV (100% Cement)
			3.89184 MV (80% Cement)
		MAP Minimum Sonic Amplitude	11.3304 MV (100% Cement)
			17.5144 MV (80% Cement)
Master Calibration (Normalization)	Before Calibration (Adjustment)		
Date of Master Calibration	20-APR-2004		
CBL Correction Factor	0.0706343	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.0930458	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0879021		
MAP 3 Correction Factor	0.102761		
MAP 4 Correction Factor	0.128061		
MAP 5 Correction Factor	0.105513		
MAP 6 Correction Factor	0.113724		
MAP 7 Correction Factor	0.130647		
MAP 8 Correction Factor	0.117759		

Parameters			
DLIS Name	Description	Value	
SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	258.768	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	372.768	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	62	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.366591	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	1.49	DB/M
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	3.89184	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	201.768	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	38.3264	DB/M
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	3.048	M
MMSA	MAP Minimum Sonic Amplitude	11.3304	MV
MSA	Minimum Sonic Amplitude	1.94803	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	

RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	26.00	LB/F
DFD	Drilling Fluid Density	1.04	G/C3
DO	Depth Offset for Playback	3.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	2919	M

Input DLIS Files						
DEFAULT	SCMT_PSP_035LUP	FN:46	PRODUCER	08-Jul-2006 22:21	2923.2 M	2737.6 M
Output DLIS Files						
DEFAULT	SCMT_PSP_052PUP	FN:74	PRODUCER	09-Jul-2006 00:42		
CUSTOMER	SCMT_PSP_052PUC	FN:75	CUSTOMER	09-Jul-2006 00:42		



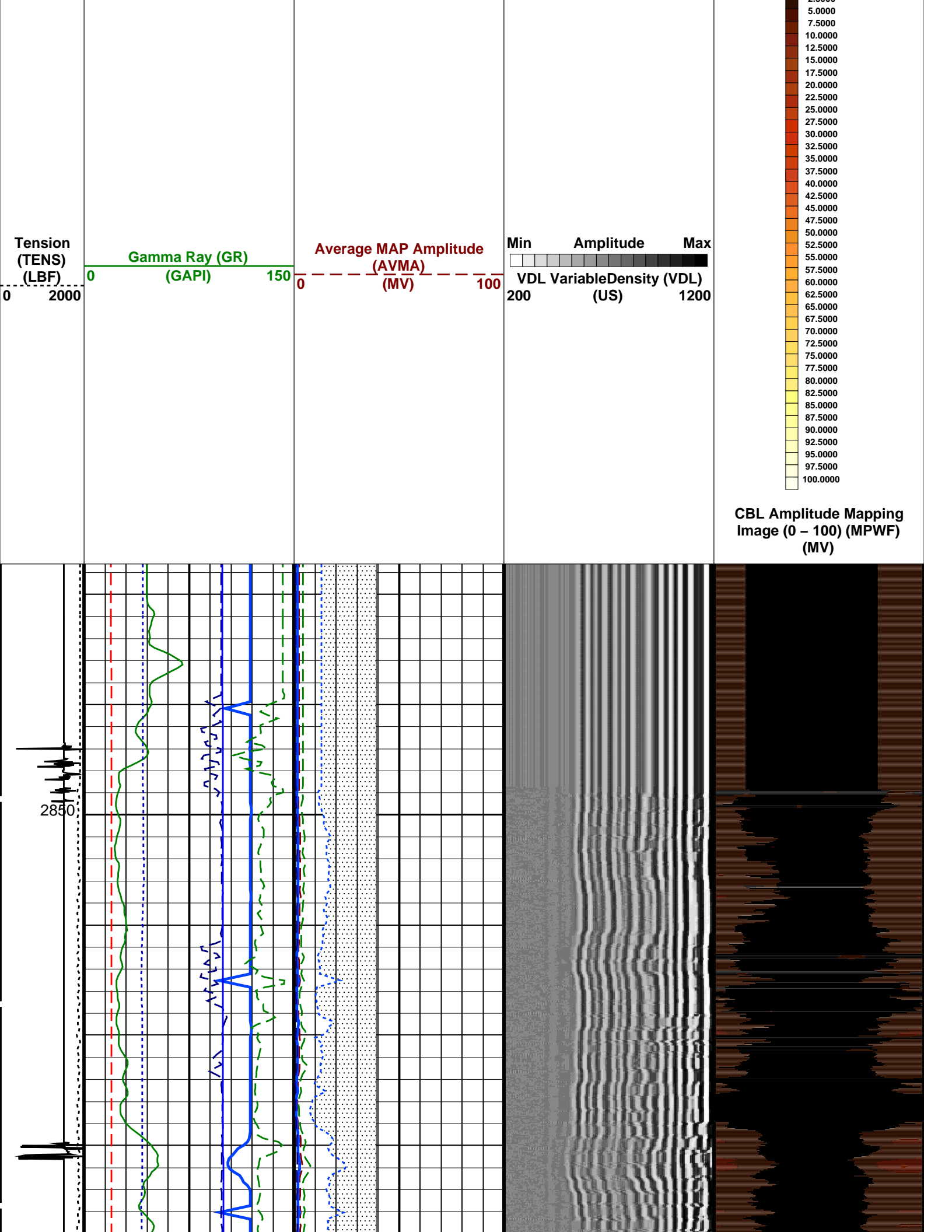
SCMT

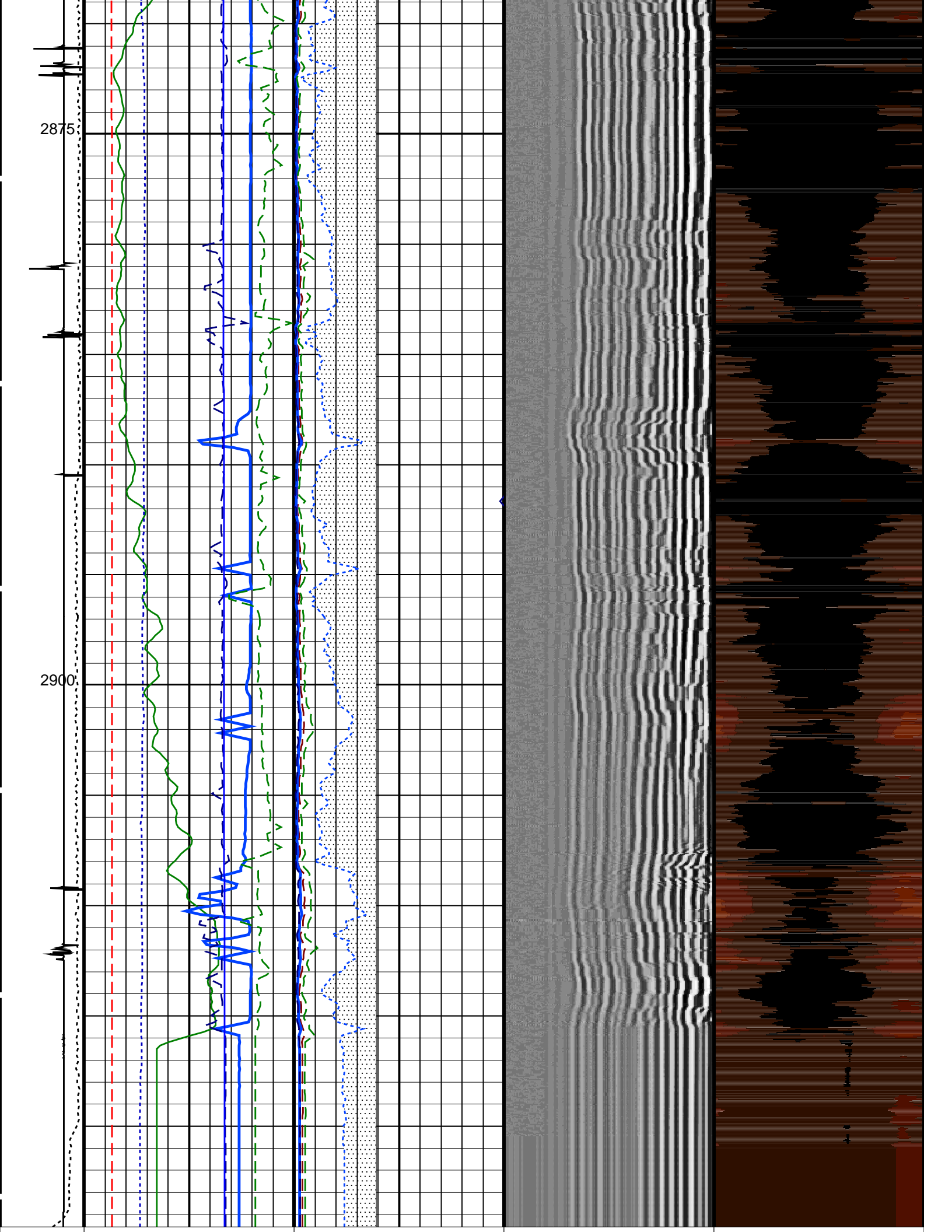
Main Log

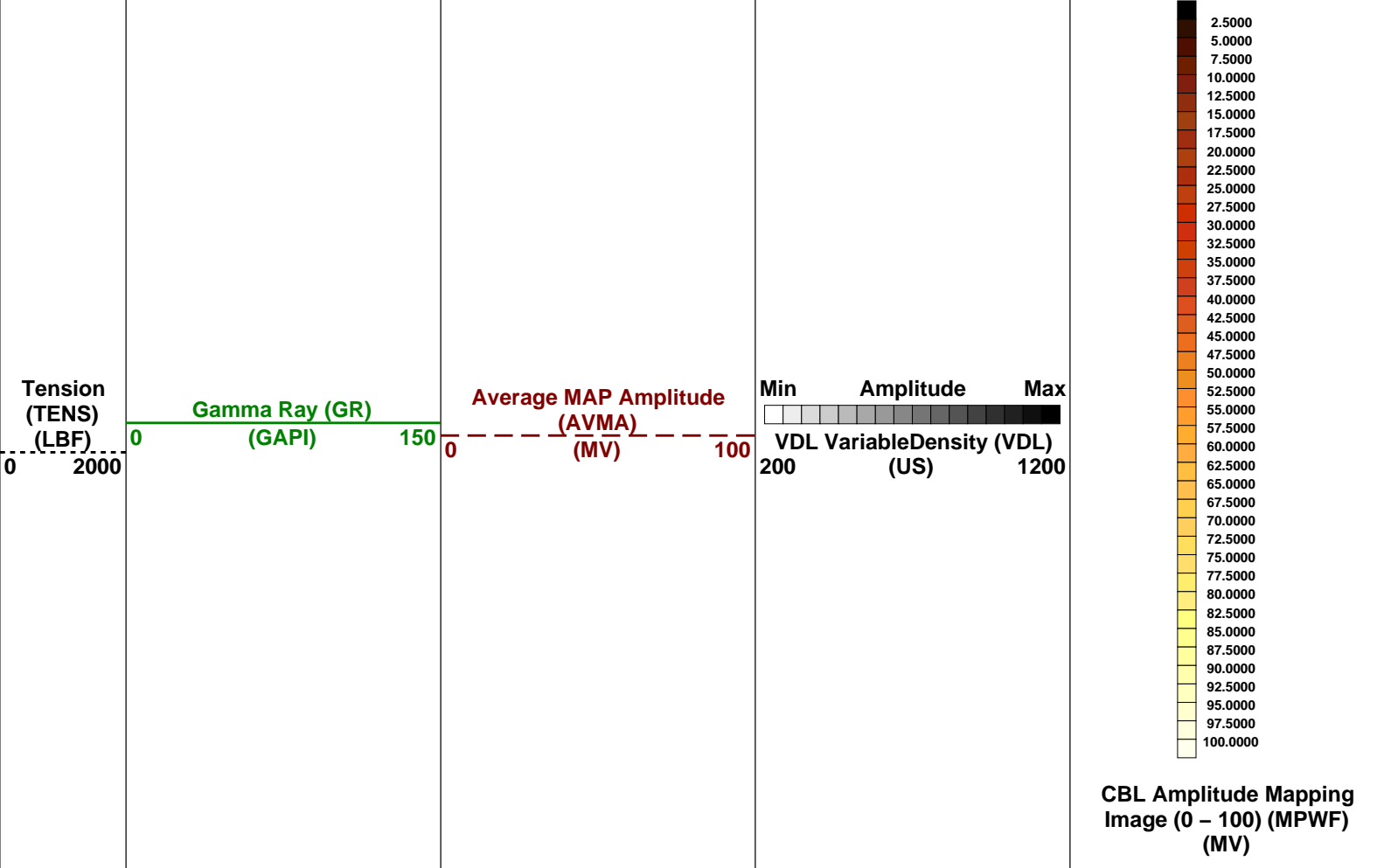
MAXIS Field Log

Company: Esso Australia pty Ltd.						Well: HLA A-1
Output DLIS Files						
DEFAULT	SCMT_PSP_051LUP	FN:72	PRODUCER	09-Jul-2006 00:30	2924.6 M	2838.6 M
CUSTOMER	SCMT_PSP_051LUC	FN:73	CUSTOMER	09-Jul-2006 00:30	2924.6 M	2838.6 M
OP System Version: 14C0-302						
MCM						
SCMT-CA	14C0-302	PSPT-A/B		14C0-302		

PIP SUMMARY			
Time Mark Every 60 S			
Discriminat ed CCL (CCLD)	Maximum MAP Transit Time (MXTT) (US)	Maximum MAP Amplitude (MXMA) (MV)	
	100 300	0 100	
	Minimum MAP Transit Time (MITT) (US)	Minimum MAP Amplitude (MIMA) (MV)	
	100 300	0 100	
	Cbl 3.ft Transit Time (TT) (US)	GoodBond From ACBL to GOBO	
	200 400		
	Well Pressure (WPRE) (PSIA)	Good Bond (GOBO) (MV)	
0 5000	0 10		
Well Temperature (WTEP) (DEGF)	CBL Amplitude (CBL) (MV)		
0 200	0 100		
Relative Bearing (RB_SCMT) (DEG)	CBL Amplitude (CBL) (MV)		
0 360	0 10		
3 (V) -1			







Discriminat ed CCL (CCLD)	Relative Bearing (RB_SCMT) (DEG)	CBL Amplitude (CBL) (MV)
	0 360	0 10
	Well Temperature (WTEP) (DEGF)	CBL Amplitude (CBL) (MV)
	0 200	0 100
	Well Pressure (WPRE) (PSIA)	Good Bond (GOBO) (MV)
	0 5000	0 10
	Cbl 3.ft Transit Time (TT) (US)	GoodBond From ACBL to GOBO
	200 400	
	Minimum MAP Transit Time (MITT) (US)	Minimum MAP Amplitude (MIMA) (MV)
	100 300	0 100
	Maximum MAP Transit Time (MXTT) (US)	Maximum MAP Amplitude (MXMA) (MV)
	100 300	0 100

PIP SUMMARY

Time Mark Every 60 S

Format: Scmt_VDL_Image Vertical Scale: 1:200 Graphics File Created: 09-Jul-2006 00:30

OP System Version: 14C0-302
MCM

SCMT-CA 14C0-302 PSPT-A/B 14C0-302

<<<SCMT Cement Evaluation Information Summary>>>	
Sonde Serial Number	SCMS-CA 8117
Current Casing Size	7.0 IN
Casing Weight	26.0 LB/FT

Casing Weight 26.0 LB/F

Expected CBL Amplitude in Free Pipe Section	62 MV	Minimum Sonic Amplitude	1.94803 MV (100% Cement)
			3.89184 MV (80% Cement)
		MAP Minimum Sonic Amplitude	11.3304 MV (100% Cement)
			17.5144 MV (80% Cement)

Master Calibration (Normalization)

Before Calibration (Adjustment)

Date of Master Calibration	20-APR-2004		
CBL Correction Factor	0.0706343	CBL Adjustment Factor (CBAF)	1.0
MAP 1 Correction Factor	0.0930458	MAP Adjustment Factor (MPAF)	1.0
MAP 2 Correction Factor	0.0879021		
MAP 3 Correction Factor	0.102761		
MAP 4 Correction Factor	0.128061		
MAP 5 Correction Factor	0.105513		
MAP 6 Correction Factor	0.113724		
MAP 7 Correction Factor	0.130647		
MAP 8 Correction Factor	0.117759		

Parameters

DLIS Name	Description	Value	
	SCMT-CA: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	258.768	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	372.768	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	62	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.366591	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	1.49	DB/M
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	3.89184	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	201.768	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	38.3264	DB/M
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	3.048	M
MMSA	MAP Minimum Sonic Amplitude	11.3304	MV
MSA	Minimum Sonic Amplitude	1.94803	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
	System and Miscellaneous		
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	26.00	LB/F
DFD	Drilling Fluid Density	1.04	G/C3
TD	Total Depth	2919	M

Output DLIS Files

DEFAULT	SCMT_PSP_051LUP	FN:72	PRODUCER	09-Jul-2006 00:30
CUSTOMER	SCMT_PSP_051LUC	FN:73	CUSTOMER	09-Jul-2006 00:30

Company: Esso Australia Pty Ltd.

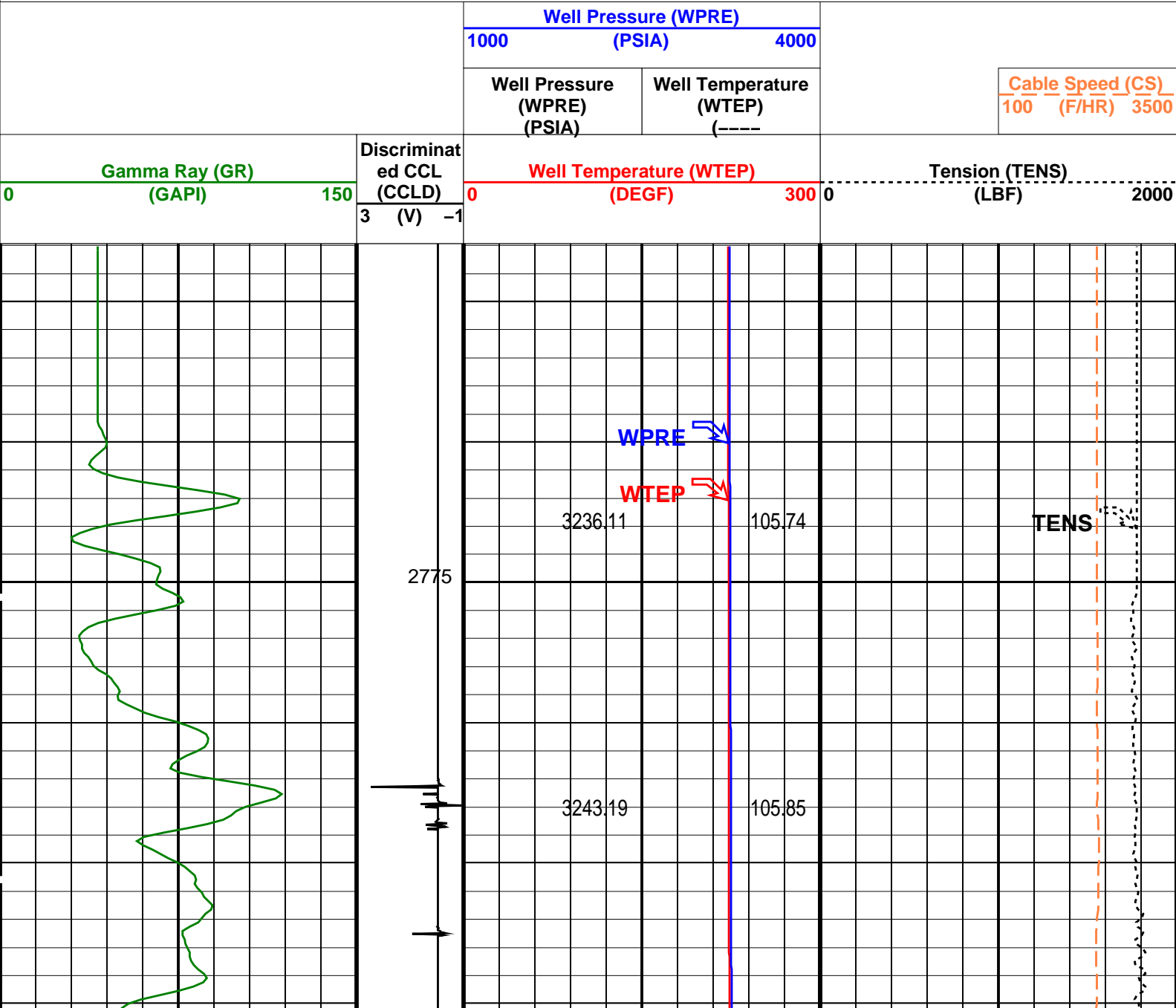
Well: HLA A-1

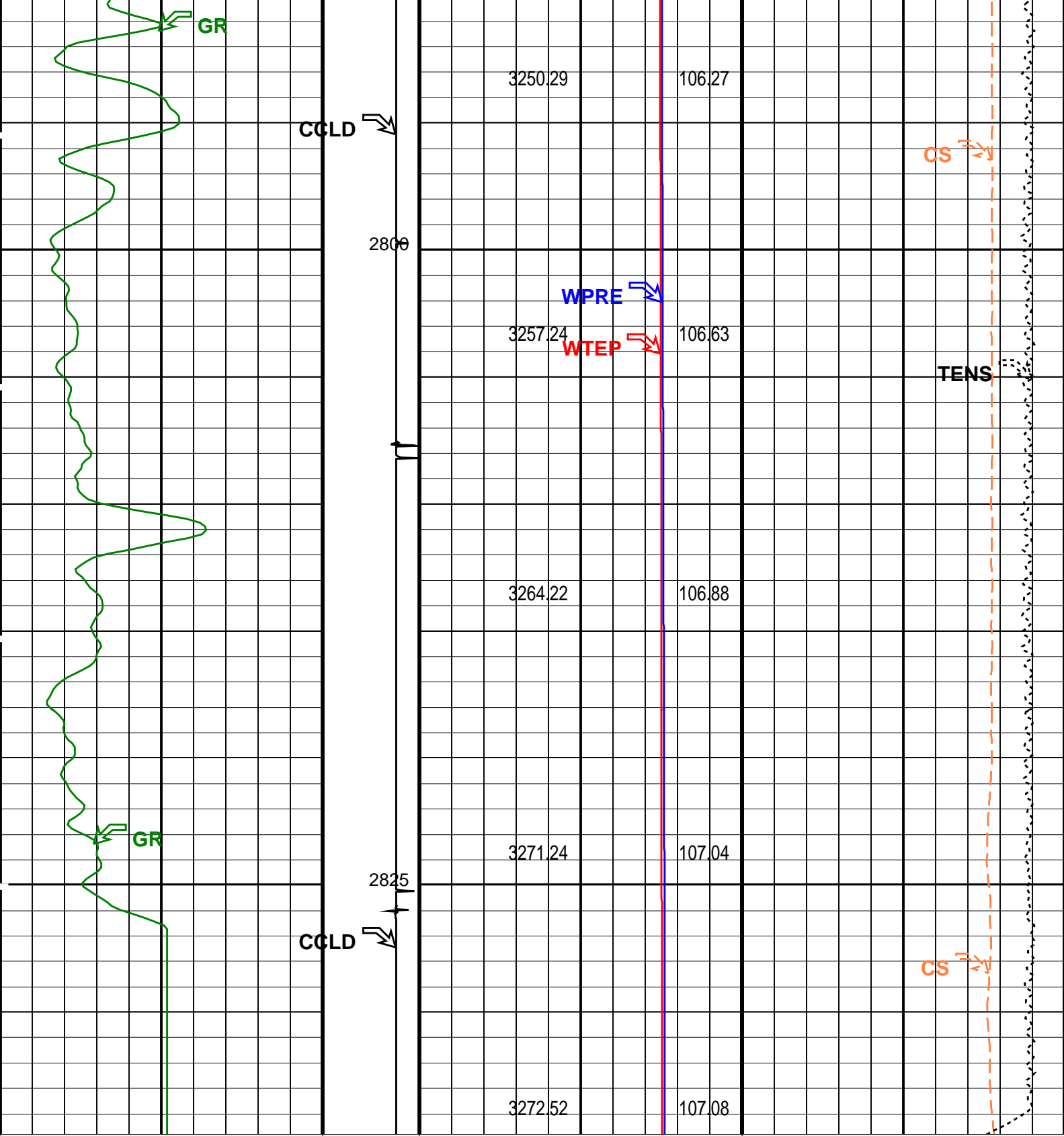
Input DLIS Files						
DEFAULT	SCMT_PSP_031LUP	FN:38	PRODUCER	08-Jul-2006 22:00	2831.9 M	2766.0 M
Output DLIS Files						
DEFAULT	SCMT_PSP_033PUP	FN:42	PRODUCER	08-Jul-2006 22:14	2834.8 M	2762.9 M
CUSTOMER	SCMT_PSP_033PUC	FN:43	CUSTOMER	08-Jul-2006 22:14	2834.8 M	2762.9 M

OP System Version: 14C0-302						
MCM						
SCMT-CA	14C0-302	PSPT-A/B		14C0-302		

PIP SUMMARY

Time Mark Every 60 S






Gamma Ray (GR) (GAPI)		Discriminat ed CCL (CCLD)	Well Temperature (WTEP) (DEGF)		Tension (TENS) (LBF)	
0	150	3 (V) -1	0	300	0	2000
			Well Pressure (WPRE) (PSIA)	Well Temperature (WTEP) (----)	Cable Speed (CS) 100 (F/HR) 3500	
			Well Pressure (WPRE) (PSIA)			
			1000	4000		

Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	2.9 M
	Playback Processing	NORMAL

Input DLIS Files					
DEFAULT	SCMT_PSP_031LUP	FN:38	PRODUCER	08-Jul-2006 22:00	2831.9 M 2766.0 M
Output DLIS Files					
DEFAULT	SCMT_PSP_033PUP	FN:42	PRODUCER	08-Jul-2006 22:14	
CUSTOMER	SCMT_PSP_033PUC	FN:43	CUSTOMER	08-Jul-2006 22:14	



SCMT-RST-WFL
PBMS Calibrations

MAXIS Field Log

Client:	Tool:	PSP
Field:	Sub Type:	PBMS
Well:	Sensor:	GR
Run date:		

PBMS Gamma Ray	
Sonde Serial NB	RESISTORS FOR GR SENSOR N.33384,TOOL PBMS-BA1747. SENSOR S/N:
Sensor Serial NB	33384
Calib Date ddmmyy	270901
Matrix Size	12
Coeff CRC	AF18
GR HV Rt	
	Rt**0Rt**1
Rt**0	<div><div>+.171000000000e+04</div><div>+.332000000000e+04</div></div>

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

WellTemp RTD

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB1747

Calib Date ddmmyy110102

Matrix Size16

Coeff CRC A4DD

WTemp Coeff

	Tt**0	Tt**1	Tt**2
Tt**0	−.777298048254E+03	+.569642900617E+03	−.182480948210E+03
	Tt**3	Tt**4	Tt**5
Tt**0	+.321784598980E+02	−.208928728839E+01	0.0

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

CQG

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB1747

Calib Date ddmmyy110102

Matrix Size66

Coeff CRC 434C

COEFFICIENTS FOR CQG PBMS−B.1747 S/N:

Pres Coeff

	Fb**0	Fb**1	Fb**2
Fc**0	+.647764750671E+04	+.119896464745E-01	-.353936954700E-06
Fc**1	-.102239101327E+01	-.123785731671E-04	-.973372887630E-10
Fc**2	+.951672344840E-06	+.449174438598E-10	+.113063327459E-14
Fc**3	+.291157488579E-11	+.249439751628E-15	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

	Fb**3	Fb**4	Fb**5
Fc**0	-.773897409502E-10	-.148024407711E-14	-.270868963806E-19
Fc**1	-.366028930670E-15	+.549586893354E-19	0.0
Fc**2	0.0	0.0	0.0
Fc**3	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0

PBMS Quartz Gauge type F

Sonde Serial NB :
 Sensor Serial NB 1747
 Calib Date ddmmyy 110102
 Matrix Size 66
 Coeff CRC A056

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+.111796853507E+03	-.322308147288E-03	+.742558022583E-08
Fb**1	-.601645685634E-02	+.179010045148E-07	-.313627690596E-13
Fb**2	-.314252314375E-07	+.341662245729E-12	-.892113641465E-18
Fb**3	-.386018687543E-12	+.134415616267E-16	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

	Fc**3	Fc**4	Fc**5
Fb**0	+.103641486045E-12	-.343818493373E-17	-.814551998440E-21
Fb**1	+.982950949630E-17	+.381959156185E-20	0.0
Fb**2	0.0	0.0	0.0
Fb**3	0.0	0.0	0.0
Fb**4	0.0	0.0	0.0
Fb**5	0.0	0.0	0.0

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 1747
Calib Date ddmmyy 110102
Matrix Size 16
Coeff CRC BA5A

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+310460984349E+05	+108821475826E-02	+971482753796E-06
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.557631270135E-10	-.141336694344E-14	+327835070494E-19

PBMS Quartz Gauge type F

Sonde Serial NB :
Sensor Serial NB 1747
Calib Date ddmmyy 110102
Matrix Size 16
Coeff CRC 6219

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+122634058782E+03	-.558504621580E-02	-.310953610161E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	+594304409353E-12	-.470611628850E-16	+135247971718E-20

Company: Esso Australia Pty Ltd.



Well: HLA A-1
Field: Bass Strait
Rig: Halibut / CWU
Country: Australia

SCMT-CA/RST-WFL/PSI
Cement bond log
Channel determintation