

Company: Esso Australia Pty. Ltd.

Well: FORTESCUE A6A

Field: FORTESCUE

Rig: FORTESCUE

Country: Australia

RST-E Static & Flowing
Sigma Survey
07-May-2010

Rig: FORTESCUE
Field: FORTESCUE
Location: Gippsland
Well: FORTESCUE A6A
Company: Esso Australia Pty. Ltd.

LOCATION			
Gippsland Basin Bass Strait	Permanent Datum:		Elev.: K.B. 34.50 m
	Log Measured From:		G.L. -69.00 m
	Drilling Measured From:		D.F. 34.50 m

State: Victoria	Max. Well Deviation 65.3 deg	Longitude 148° 16' 41.407" E	Latitude 38° 24' 25.448" S
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Logging Date 7-May-2010

Run Number 1

Depth Driller 3935 m

Schlumberger Depth 3874.5 m

Bottom Log Interval 3869 m

Top Log Interval 3800 m

Casing Fluid Type Production Fluids

Salinity

Density

Fluid Level 831 m

BIT/CASING/TUBING STRING

Bit Size 8.500 in

From 848.8 m

To 3935 m

Casing/Tubing Size 7.000 in

Weight 26 lbm/ft

Grade L-80

From 20.45 m

To 3929.5 m

Maximum Recorded Temperatures 223 degF

Logger On Bottom 7-May-2010 7:52

Unit Number 889 AUSL / Prod4

Recorded By S. Gilbert / W. Mackenzie

Witnessed By B. White

Run 1

PVT DATA

Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	65.3 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 7-May-2010 7:52

Unit Number 889 AUSL / Prod4

Recorded By S. Gilbert / W. Mackenzie

Witnessed By B. White

DEPTH SUMMARY LISTING

Date Created: 7-MAY-2010 15:44:09

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-EB	Type:	PSDS/OSDS	Type:	2-32ZT
Serial Number:	6373	Serial Number:	325357	Serial Number:	208558
Calibration Date:	22 April 2010	Calibration Date:	6 May 2010	Length:	5800 M
Calibrator Serial Number:	31	Calibrator Serial Number:	1170	Conveyance Method: Wireline Rig Type: Offshore Fixed	
Calibration Cable Type:	2-32ZT	Number of Calibration Points:	10		
Wheel Correction 1:	1	Calibration RMS:	18		
Wheel Correction 2:	0	Calibration Peak Error:	38		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Composite Log
Reference Log Run Number:	UNKNOWN
Reference Log Date:	UNKNOWN
Subsequent Trip Down Log Correction:	

Depth Control Remarks

1. Rigged up on main deck using platform crane
2. Log correlated to Solar Composite Log provided by client
3. IDW used as primary depth control, Z-chart as secondary
4. Depth correction correlation pass -1.0m

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
OS1: None

REMARKS: RUN NUMBER 1
1. Log objective: Conduct RST Sigma Survey 1 x shut-in and 2 x flowing over interval 3869 - 3800m
2. Log correlated to Solar Composite log provided by client
3. Log speed 900ft/hr as per program
4. Maximum deviation: 65.3deg @ 895.4m, Average deviation: 35.4deg
5. STHP: 732psia, STHT: 60.8degF
6. SBHP: 3202psia, SBHT: 222.7degF @ 3874.5m

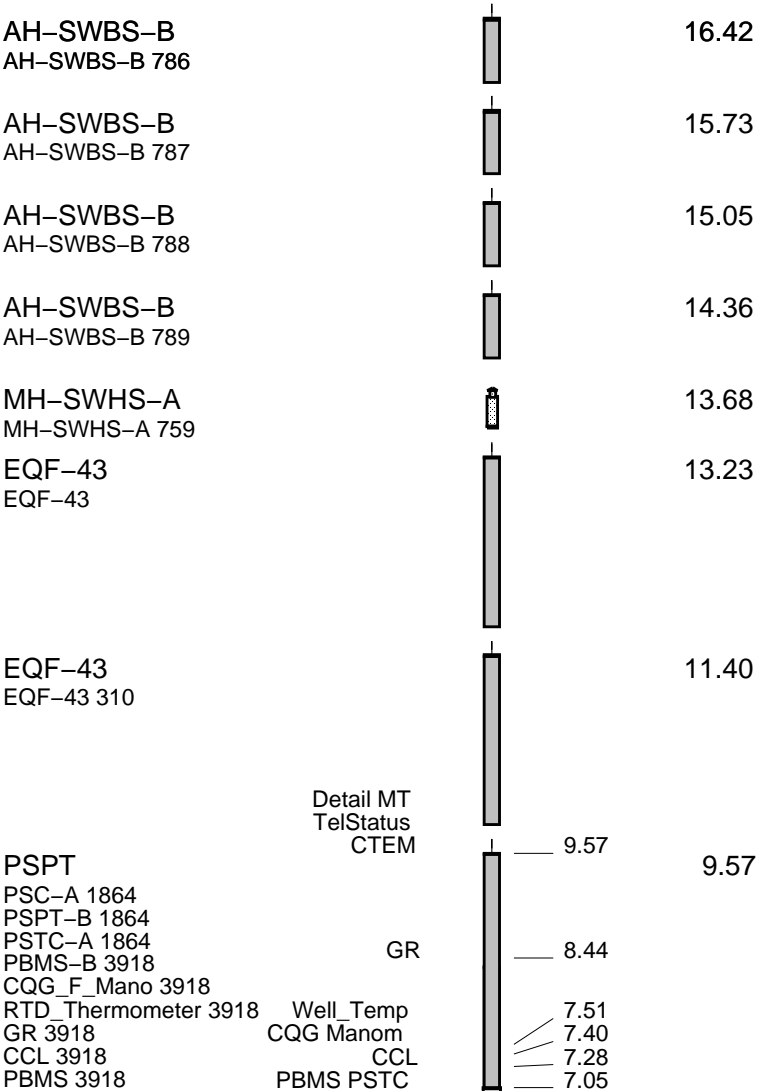
7. FBHP: 3070psia, FBHT: 222degF @ 3874m
8. Sticky bottom resulted in varying tags
9. GR Correlation interval between 3827 – 3814m
All depths are MDKB unless otherwise specified
Schlumberger Crew:
B. Glover, G. Blandford

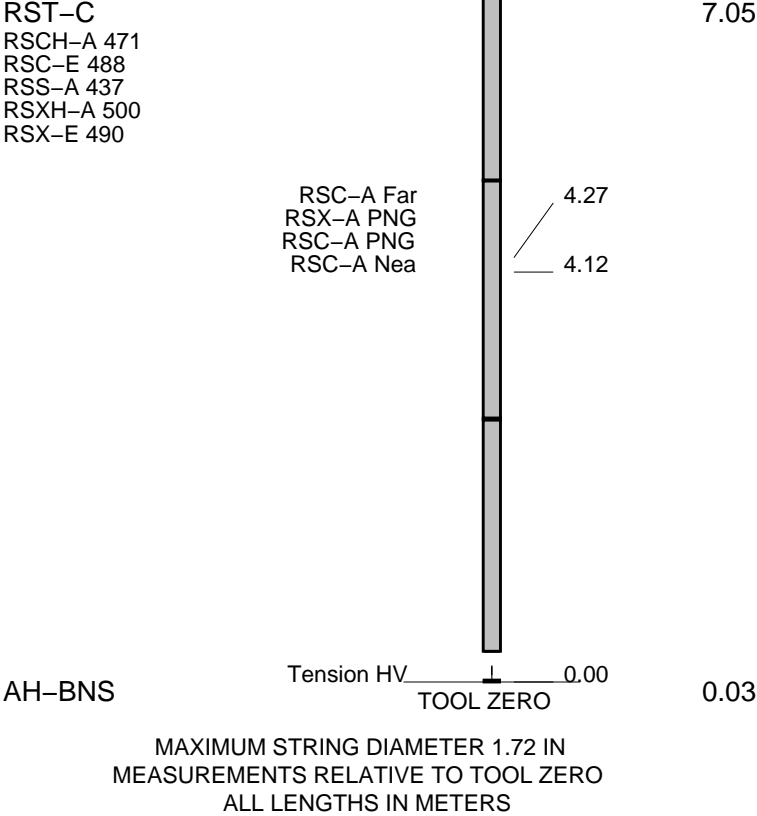
RUN 1					
SERVICE ORDER #:		4500640992			
PROGRAM VERSION:		17C0-154			
FLUID LEVEL:		831 m			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
WITM-A 3576	
PSC_16MHZ 3576	

DOWNHOLE EQUIPMENT	
AH-SWBS-B	16.42
AH-SWBS-B 786	
AH-SWBS-B	15.73
AH-SWBS-B 787	
AH-SWBS-B	15.05
AH-SWBS-B 788	
AH-SWBS-B	14.36
AH-SWBS-B 789	
MH-SWHS-A	13.68
MH-SWHS-A 759	
EQF-43	13.23
EQF-43	
EQF-43	11.40
EQF-43 310	
PSPT	9.57
PSC-A 1864	
PSPT-B 1864	
PSTC-A 1864	
PBMS-B 3918	
CQG_F_Mano 3918	
RTD_Thermometer 3918	
GR 3918	
CCL 3918	
PBMS 3918	





Client:

Esso Australia Pty. Ltd.

Drawing Date:

5/2/2010

Well:

FORTESCUE A6A

Field:

FORTESCUE

Rig Name:

FORTESCUE

State:

VICTORIA

Reference Datum:

Mean Sea Level

Country:

AUSTRALIA

Elevation:

0.0

m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Tubing Hanger	7.000	3.500	20.9		1.3	7.000	6.276	Production Casing
Tubing	3.500	2.992	20.9		22.6	10.750		Surface Casing
SSSV	3.500	2.750	437.2					
Side Pocket Mandrel	3.500	2.867	784.3					
					1369.2	10.750		Casing Shoe
Side Pocket Mandrel	3.500	2.867	1652.8					
Side Pocket Mandrel	3.500	2.867	1980.0					
Landing Nipple	3.500	2.750	1996.2					
Packer	7.000	3.500	3728.1					
Sliding Sleeve	3.500	2.750	3743.5					

Schlumberger

MAXIS Field Log

Input DLIS Files

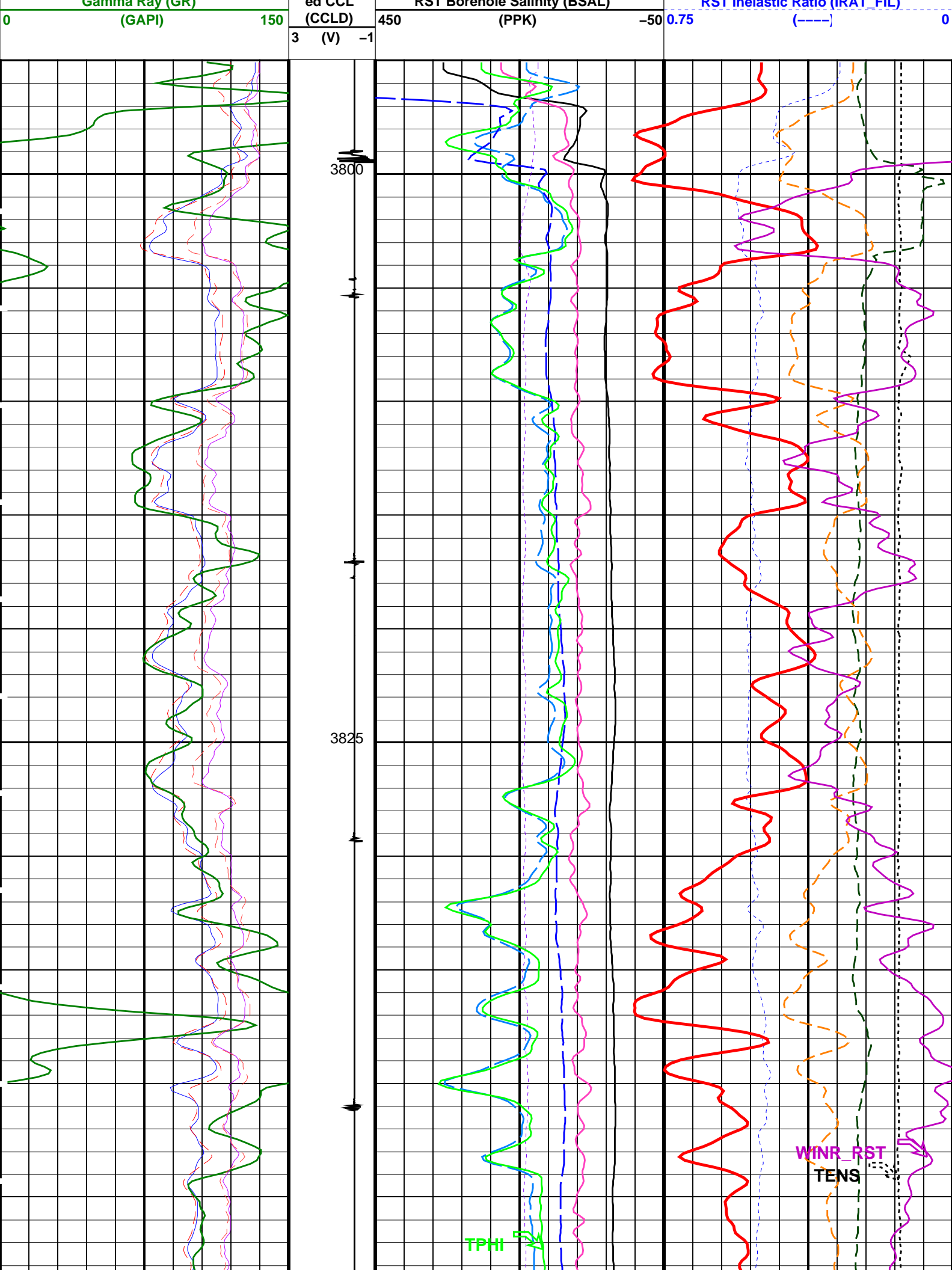
Output DLIS Files

OP System Version: 17C0-154

PIP SUMMARY

RST Sigma (SIGM)

		60 (CU)		0	
		RST Weighted Inelastic Ratio (WINR_RST)			
		0.4 (----) 0			
		RST Porosity (TPHI)			
		0.6 (V/V) 0			
RST Far Effective Capture CR (RSCF_RST)		RST Sigma Borehole Fluid (SIBF)			
45 (----) 0		100 (CU) 0			
RST Near Effective Capture CR (RSCN_RST)		Sigma Borehole Far Apparent (SBFA_FIL)		Tension (TENS)	
45 (----) 0		150 (CU) 0		0 (LBF) 3000	
RST Capture to Inelastic Ratio Far (CIRF_FIL)		RST Capture Ratio (TRAT_FIL)		Sigma Formation Far Apparent (SFFA_FIL)	
5 (----) 0		1.5 (----) 0.5		60 (CU) 0	
RST Capture to Inelastic Ratio Near (CIRN_FIL)		RST Sigma Difference (DSIG)		MCS Far Background (filtered) (FBAC)	
2.5 (----) 0		-30 (CU) 30		0 (CPS) 5000	
		0 (----) 5			
Gamma Ray (GR)		Discriminat ed GCI		RST Inelastic Ratio (IRAT_FIL)	
		RST Borehole Salinity (BSAL)			



DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
DO	Depth Offset for Playback	-0.2	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW Vertical Scale: 1:200 Graphics File Created: 07-May-2010 15:24

OP System Version: 17C0-154

RST-C SRPC-3971-Q1_2010_OP17 PSPT SRPC-3971-Q1_2010_OP17

Input DLIS Files

DEFAULT	RST_PSP_018LUP	FN:24	PRODUCER	07-May-2010 13:03	3876.9 M	3794.3 M
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Output DLIS Files

DEFAULT	RST_PSP_029PUP	FN:45	PRODUCER	07-May-2010 15:24		
CUSTOMER	RST_PSP_029PUC	FN:46	CUSTOMER	07-May-2010 15:24		

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RST Sigma Survey Flowing Pass 1

MAXIS Field Log

Company: Esso Australia Pty. Ltd.

Well: FORTESCUE A6A

Input DLIS Files

DEFAULT	RST_PSP_016LUP	FN:20	PRODUCER	07-May-2010 12:42	3873.9 M	3794.3 M
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Output DLIS Files

DEFAULT	RST_PSP_028PUP	FN:43	PRODUCER	07-May-2010 14:52	3870.0 M	3794.9 M
CUSTOMER	RST_PSP_028PUC	FN:44	CUSTOMER	07-May-2010 14:52	3870.0 M	3794.9 M

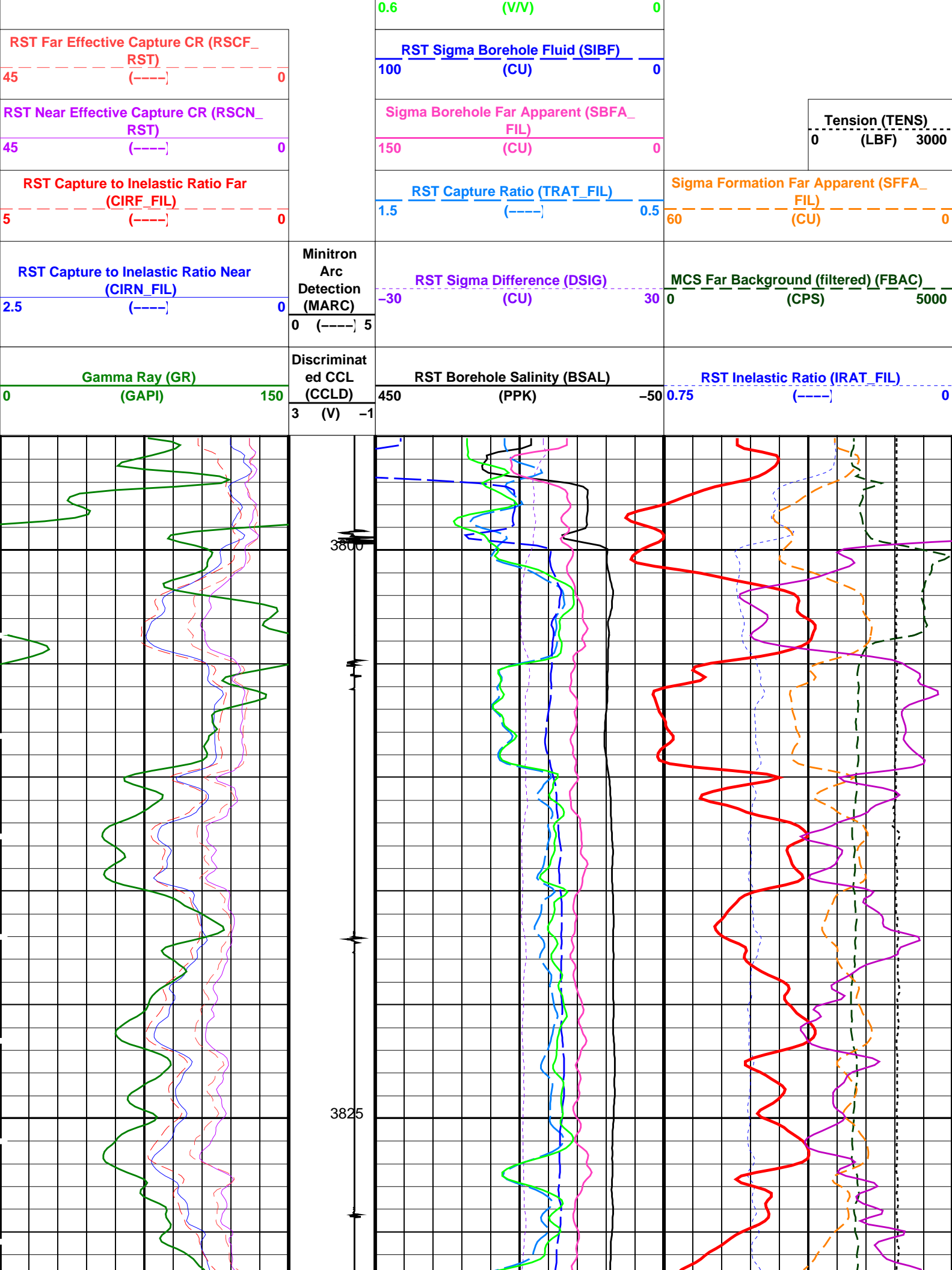
OP System Version: 17C0-154

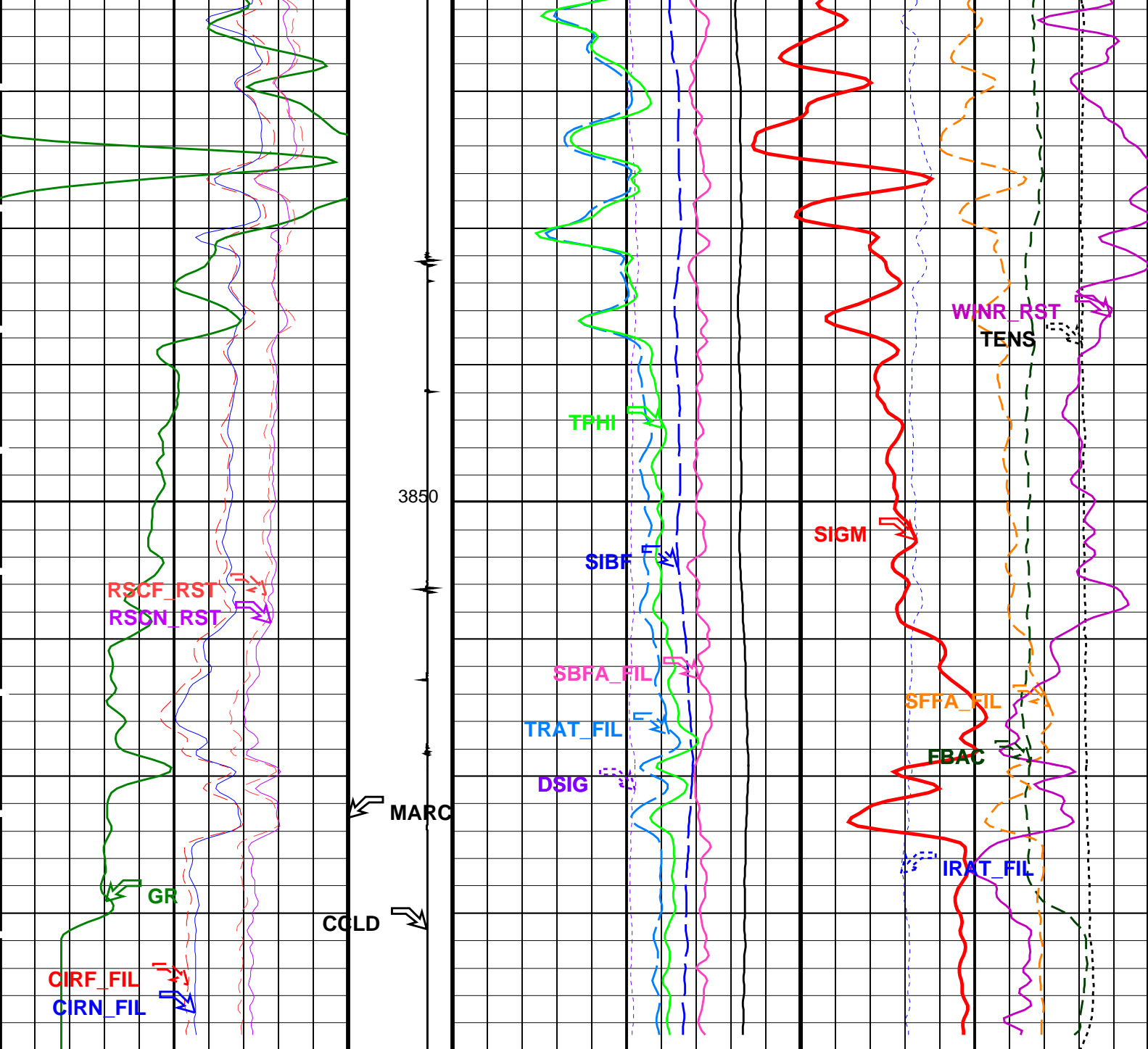
RST-C SRPC-3971-Q1_2010_OP17 PSPT SRPC-3971-Q1_2010_OP17

PIP SUMMARY

Time Mark Every 60 S

RST Sigma (SIGM)		
60	(CU)	0
RST Weighted Inelastic Ratio (WINR_RST)		
0.4	(----	0
RST Porosity (TPHI)		





<div>Gamma Ray (GR) (GAPI)</div> <div>0150</div>	<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>	<div>RST Borehole Salinity (BSAL) (PPK)</div> <div>450-50</div>	<div>RST Inelastic Ratio (IRAT_FIL) (----)</div> <div>0.750</div>
<div>RST Capture to Inelastic Ratio Near (CIRN_FIL)</div> <div>2.50 (----)</div>	<div>Minitron Arc Detection (MARC)</div> <div>0 (----) 5</div>	<div>RST Sigma Difference (DSIG) (CU)</div> <div>-3030</div>	<div>MCS Far Background (filtered) (FBAC) (CPS)</div> <div>05000</div>
<div>RST Capture to Inelastic Ratio Far (CIRF_FIL)</div> <div>50 (----)</div>		<div>RST Capture Ratio (TRAT_FIL) (----)</div> <div>1.50.5</div>	<div>Sigma Formation Far Apparent (SFFA_ FIL) (CU)</div> <div>600</div>
<div>RST Near Effective Capture CR (RSCN_ RST)</div> <div>450 (----)</div>		<div>Sigma Borehole Far Apparent (SBFA_ FIL) (CU)</div> <div>1500</div>	<div>Tension (TENS) (LBF)</div> <div>03000</div>
<div>RST Far Effective Capture CR (RSCF_ RST)</div> <div>450 (----)</div>		<div>RST Sigma Borehole Fluid (SIBF) (CU)</div> <div>1000</div>	

RST Porosity (TPHI)		
0.6	(V/V)	0
RST Weighted Inelastic Ratio (WINR_RST)		
0.4	(----)	0
RST Sigma (SIGM)		
60	(CU)	0

PIP SUMMARY		
Time Mark Every 60 S		

Parameters		
DLIS Name	Description	Value
RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No
BHS	Borehole Status	CASED
BSALOPT	RST Borehole Salinity Option	Unknown
BSFL	RST Borehole Salinity Filter Length	51
DFPC	RST Depth Filter Processing Constant	One
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48
NORM_SIGM_RST	RST Normalized Sigma	30 CU
RGAI	Near/Far Gain Calibration Ratio	1
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma
PSPT: Production Services Logging Platform		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
System and Miscellaneous		
BS	Bit Size	8.500 IN
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	7.000 IN
DO	Depth Offset for Playback	-0.2 M
PP	Playback Processing	NORMAL

Format: RST_SIG_ANSW	Vertical Scale: 1:200	Graphics File Created: 07-May-2010 14:52
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OP System Version: 17C0-154			
RST-C	SRPC-3971-Q1_2010_OP17	PSPT	SRPC-3971-Q1_2010_OP17

Input DLIS Files						
DEFAULT	RST_PSP_016LUP	FN:20	PRODUCER	07-May-2010 12:42	3873.9 M	3794.3 M
Output DLIS Files						
DEFAULT	RST_PSP_028PUP	FN:43	PRODUCER	07-May-2010 14:52		
CUSTOMER	RST_PSP_028PUC	FN:44	CUSTOMER	07-May-2010 14:52		

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RST Sigma Survey

Shut-In Pass

MAXIS Field Log

Company: Esso Australia Pty. Ltd.	Well: FORTESCUE A6A
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Input DLIS Files						
DEFAULT	RST_PSP_014LUP	FN:16	PRODUCER	07-May-2010 08:31	3875.2 M	3792.3 M

Output DLIS Files

DEFAULT	RST_PSP_026PUP	FN:39	PRODUCER	07-May-2010 14:08	3870.0 M	3794.9 M
CUSTOMER	RST_PSP_026PUC	FN:40	CUSTOMER	07-May-2010 14:08	3870.0 M	3794.9 M

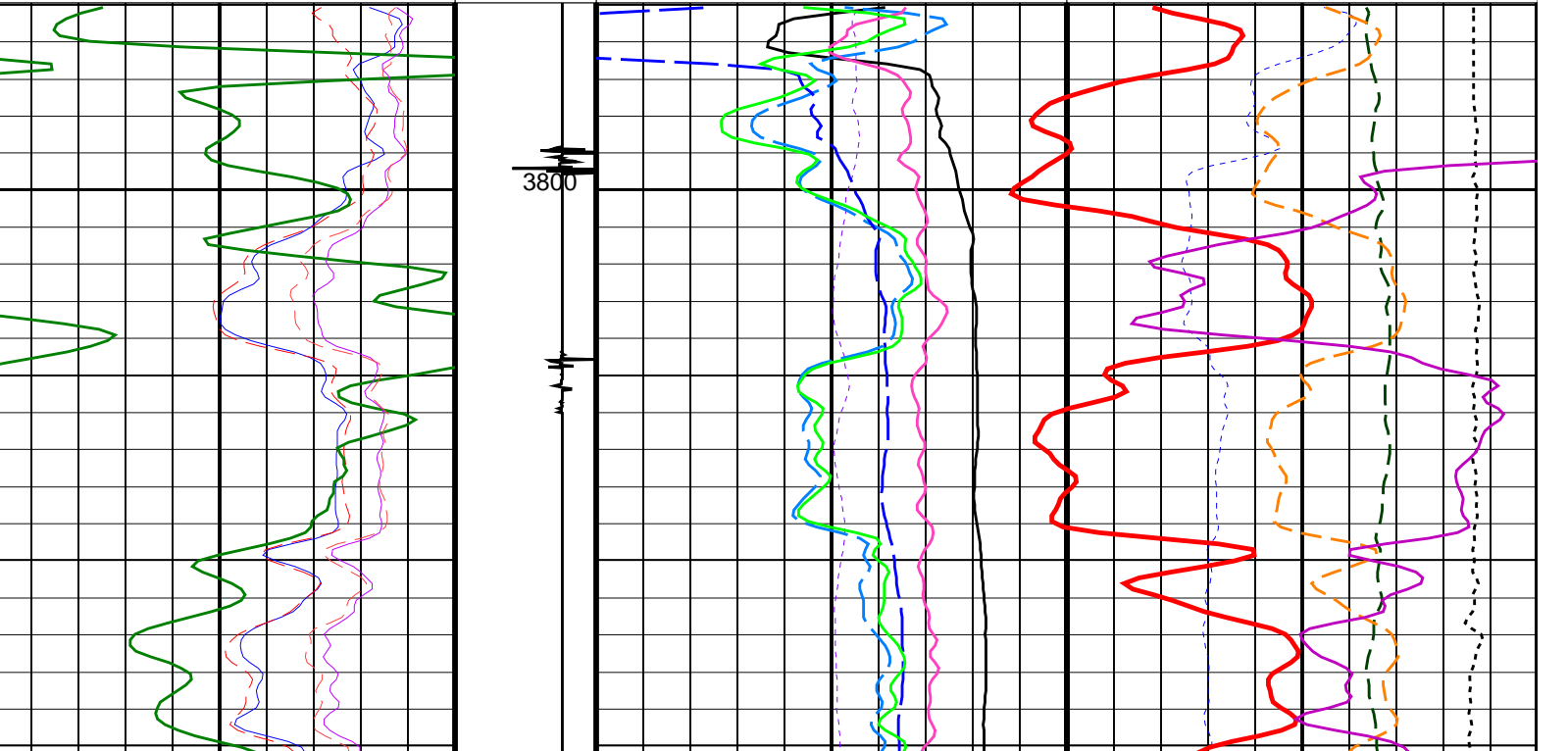
OP System Version: 17C0-154

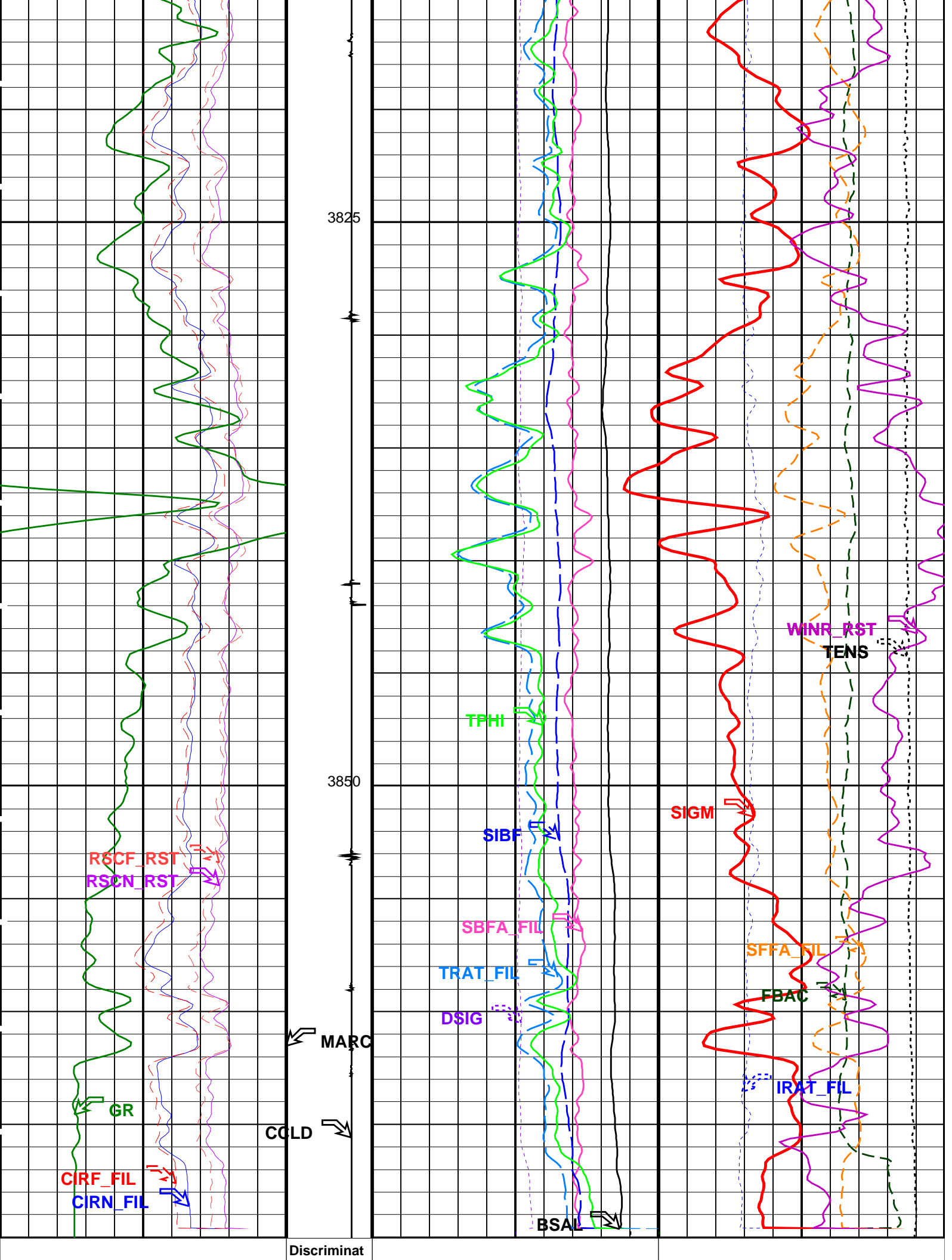
RST-C	SRPC-3971-Q1_2010_OP17	PSPT	SRPC-3971-Q1_2010_OP17
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PIP SUMMARY

Time Mark Every 60 S

		RST Sigma (SIGM)	
		60 (CU)	0
		RST Weighted Inelastic Ratio (WINR_RST)	
		0.4 (----)	0
		RST Porosity (TPHI)	
		0.6 (V/V)	0
RST Far Effective Capture CR (RSCF_RST)	45 (----) 0	RST Sigma Borehole Fluid (SIBF)	100 (CU) 0
RST Near Effective Capture CR (RSCN_RST)	45 (----) 0	Sigma Borehole Far Apparent (SBFA_FIL)	150 (CU) 0
RST Capture to Inelastic Ratio Far (CIRF_FIL)	5 (----) 0	RST Capture Ratio (TRAT_FIL)	1.5 (----) 0.5
RST Capture to Inelastic Ratio Near (CIRN_FIL)	2.5 (----) 0	Sigma Formation Far Apparent (SFFA_FIL)	60 (CU) 0
Gamma Ray (GR)	0 (GAPI) 150	RST Sigma Difference (DSIG)	-30 (CU) 30
		MCS Far Background (filtered) (FBAC)	0 (CPS) 5000
		RST Borehole Salinity (BSAL)	450 (PPK) -50
		RST Inelastic Ratio (IRAT_FIL)	0.75 (----) 0





Gamma Ray (GR) (GAPI)	150	ed CCL (CCLD)	450	RST Borehole Salinity (BSAL) (PPK)	-50	RST Inelastic Ratio (IRAT_FIL) (----)		0
		3 (V) -1						
RST Capture to Inelastic Ratio Near (CIRN_FIL)	0	Minitron Arc Detection (MARC)		RST Sigma Difference (DSIG) (CU)	30	MCS Far Background (filtered) (FBAC) (CPS)		5000
2.5 (----)	0	0 (----) 5						
RST Capture to Inelastic Ratio Far (CIRF_FIL)	0			RST Capture Ratio (TRAT_FIL) (----)	0.5	Sigma Formation Far Apparent (SFFA_ FIL) (CU)		0
5 (----)	0					60		
RST Near Effective Capture CR (RSCN_ RST)	0			Sigma Borehole Far Apparent (SBFA_ FIL)	0		Tension (TENS) (LBF)	3000
45 (----)	0							
RST Far Effective Capture CR (RSCF_ RST)	0			RST Sigma Borehole Fluid (SIBF) (CU)	0			
45 (----)	0							
				RST Porosity (TPHI) (V/V)	0			
				RST Weighted Inelastic Ratio (WINR_RST) (----)	0			
				RST Sigma (SIGM) (CU)	0			

PIP SUMMARY								
Time Mark Every 60 S								

Parameters			
DLIS Name	Description	Value	
RST-C: Reservoir Saturation Pro Tool C			
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
RGAI	Near/Far Gain Calibration Ratio	1	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	7.000	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: RST_SIG_ANSW	Vertical Scale: 1:200	Graphics File Created: 07-May-2010 14:08						
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OP System Version: 17C0-154								
RST-C	SRPC-3971-Q1_2010_OP17			PSPT	SRPC-3971-Q1_2010_OP17			

Input DLIS Files						
DEFAULT	RST_PSP_014LUP	FN:16	PRODUCER	07-May-2010 08:31	3875.2 M	3792.3 M
Output DLIS Files						
DEFAULT	RST_PSP_026PUP	FN:39	PRODUCER	07-May-2010 14:08		
CUSTOMER	RST_PSP_000PUC	FN:40	CUSTOMER	07-May-2010 14:08		

Schlumberger

Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty. Ltd.

Well: FORTESCUE A6A

Input DLIS Files

DEFAULT	RST_PSP_012LUP	FN:12	PRODUCER	07-May-2010 07:51	3882.7 M	3768.9 M
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Output DLIS Files

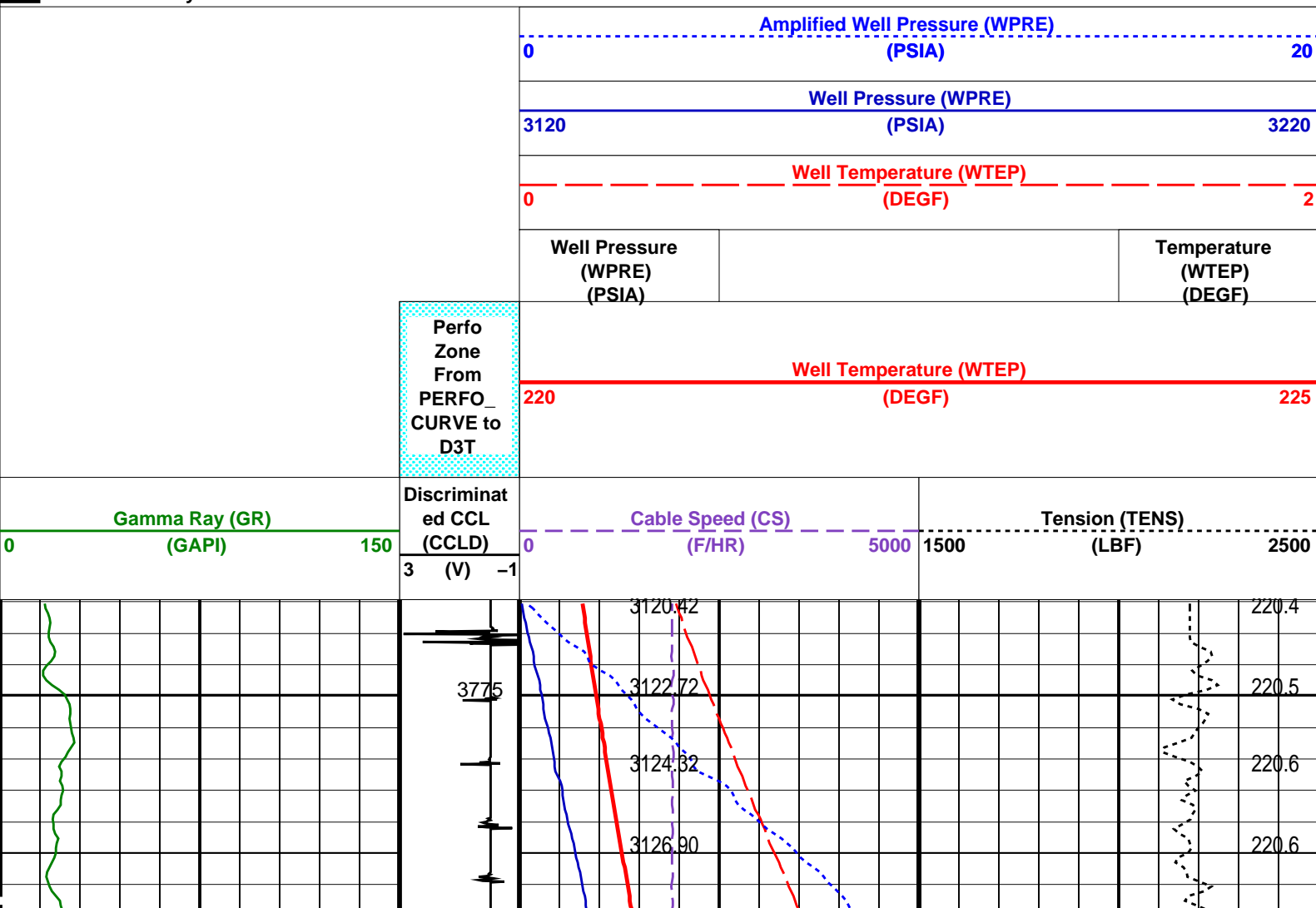
DEFAULT	RST_PSP_023PUP	FN:33	PRODUCER	07-May-2010 13:50	3881.6 M	3771.9 M
CUSTOMER	RST_PSP_023PUC	FN:34	CUSTOMER	07-May-2010 13:50	3881.6 M	3771.9 M

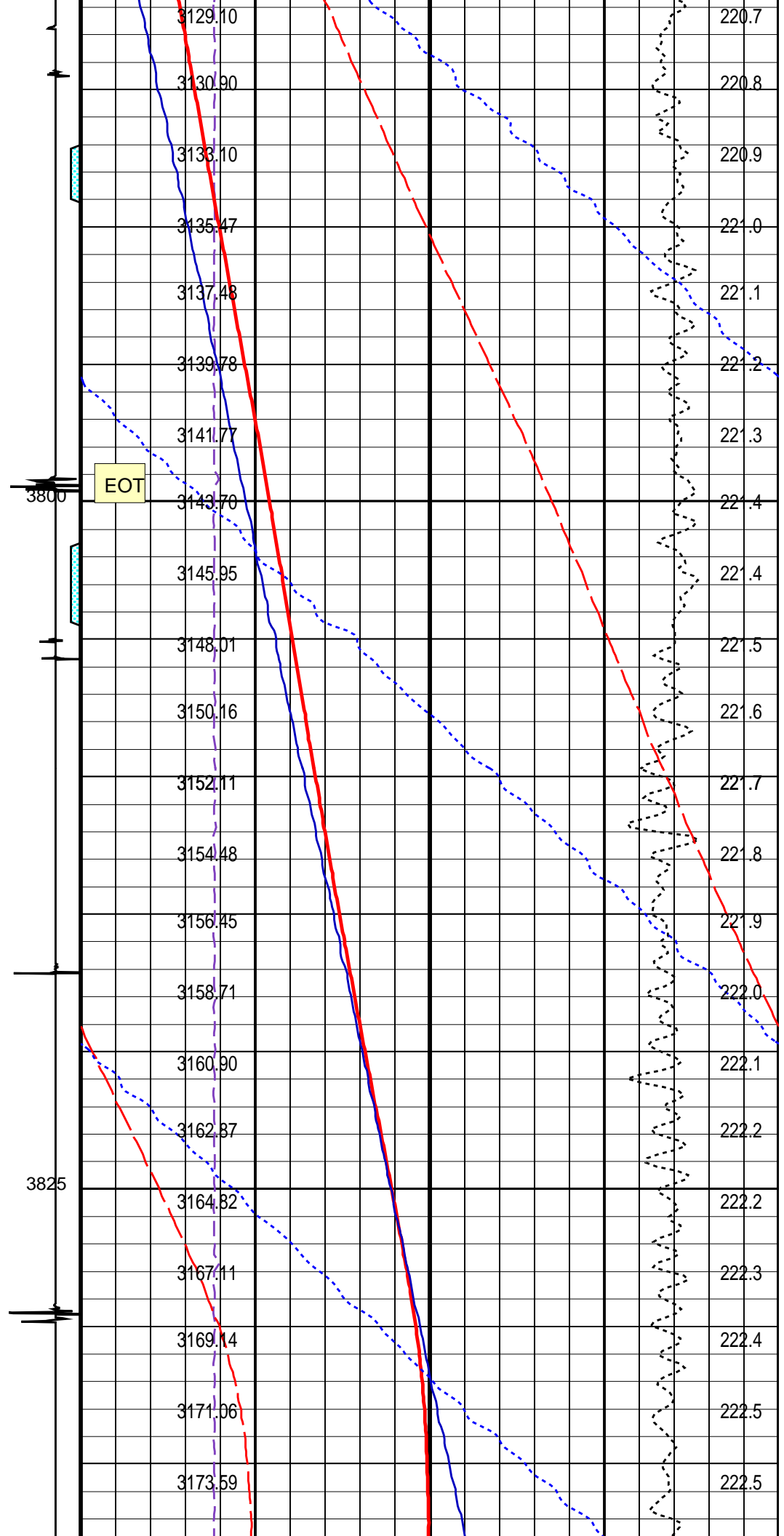
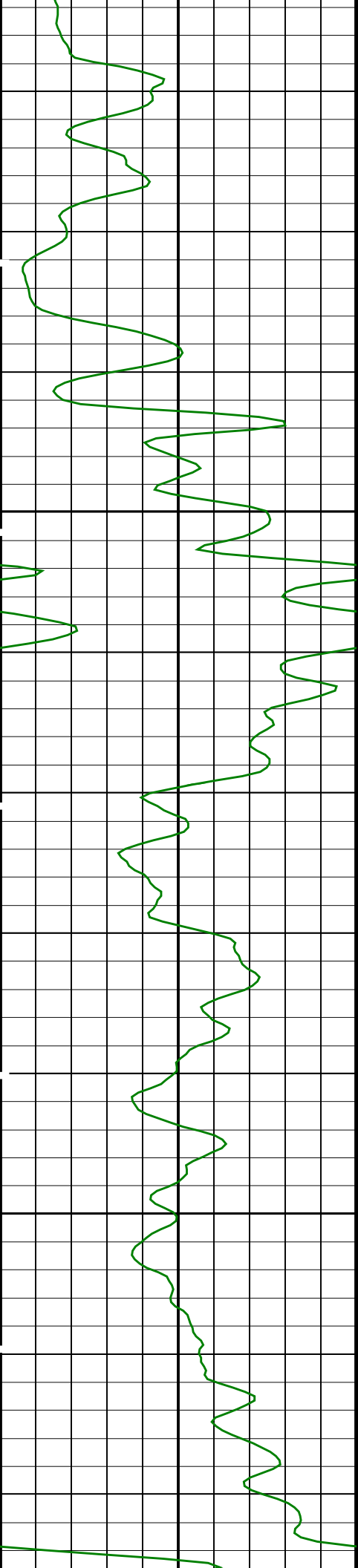
OP System Version: 17C0-154

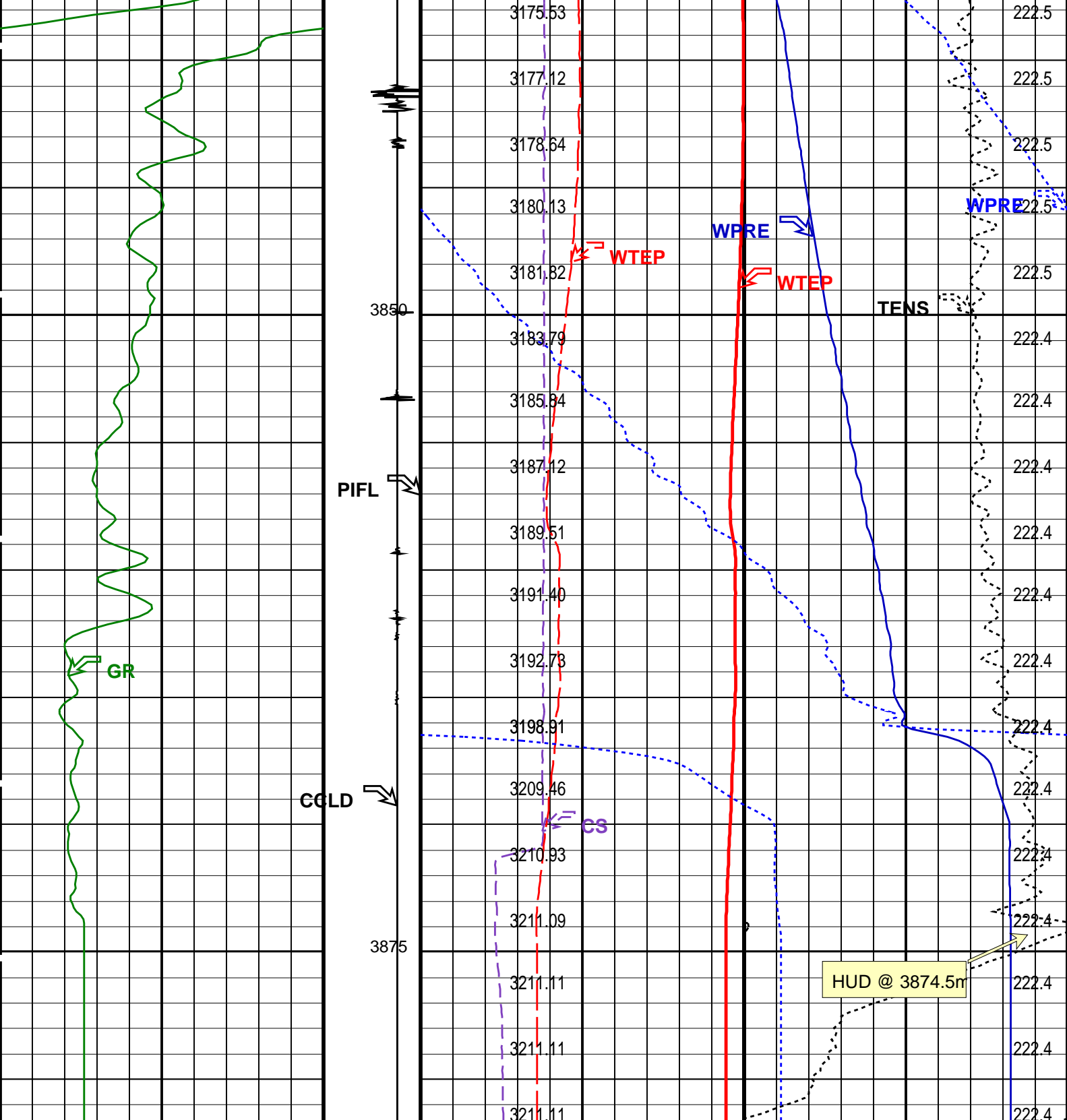
RST-C	SRPC-3971-Q1_2010_OP17	PSPT	SRPC-3971-Q1_2010_OP17
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PIP SUMMARY

Time Mark Every 60 S







<p>Gamma Ray (GR) (GAPI)</p>	<p>Discriminat ed CCL (CCLD) (V)</p>	<p>Cable Speed (CS) (F/HR)</p>	<p>Tension (TENS) (LBF)</p>
<p>3</p>	<p>-1</p>	<p>0 5000 1500</p>	<p>2500</p>
<p>Perfo Zone From PERFO_ CURVE to D3T</p>	<p>Well Temperature (WTEP) (DEGF)</p>	<p>Well Pressure (WP) (PSIA)</p>	<p>Temperature (WTEP) (DEGF)</p>

	Well Temperature (WTEP) (DEGF)					2
	Well Pressure (WPRESS) (PSIA)					3220
	Amplified Well Pressure (WPRESS) (PSIA)					20


PIP SUMMARY						
Time Mark Every 60 S						

Format: PSP_1			Vertical Scale: 1:200		Graphics File Created: 07-May-2010 13:50	
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OP System Version: 17C0-154						
RST-C	SRPC-3971-Q1_2010_OP17		PSPT	SRPC-3971-Q1_2010_OP17		

Parameters				
DLIS Name		Description	Value	
System and Miscellaneous				
DO		Depth Offset for Playback	-1.0	M
PP		Playback Processing	NORMAL	

Input DLIS Files						
DEFAULT	RST_PSP_012LUP	FN:12	PRODUCER	07-May-2010 07:51	3882.7 M	3768.9 M
Output DLIS Files						
DEFAULT	RST_PSP_023PUP	FN:33	PRODUCER	07-May-2010 13:50		
CUSTOMER	RST_PSP_023PUC	FN:34	CUSTOMER	07-May-2010 13:50		



RST Sigma Survey

Repeat Analysis

MAXIS Field Log

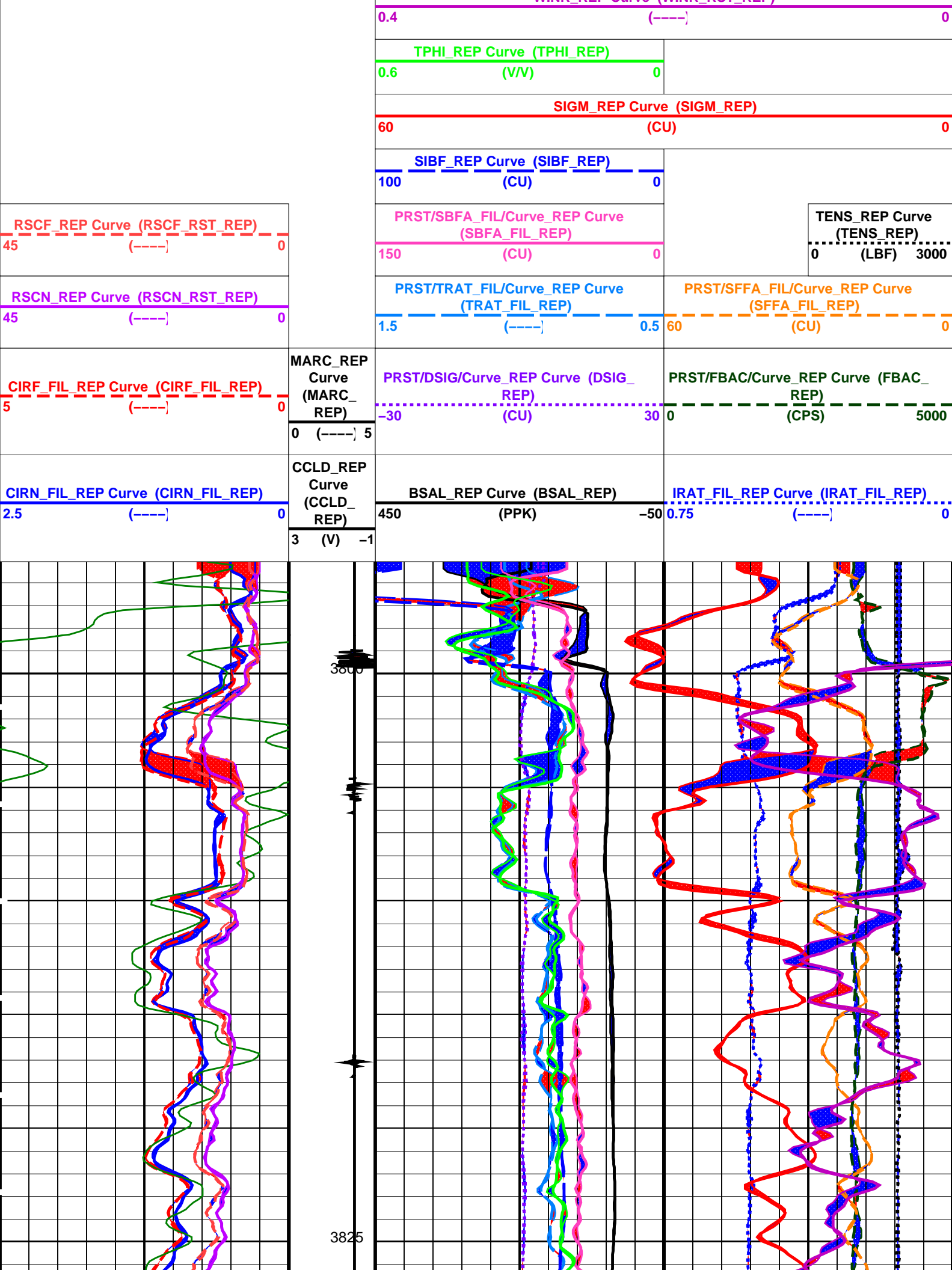
Company: Esso Australia Pty. Ltd.				Well: FORTESCUE A6A		
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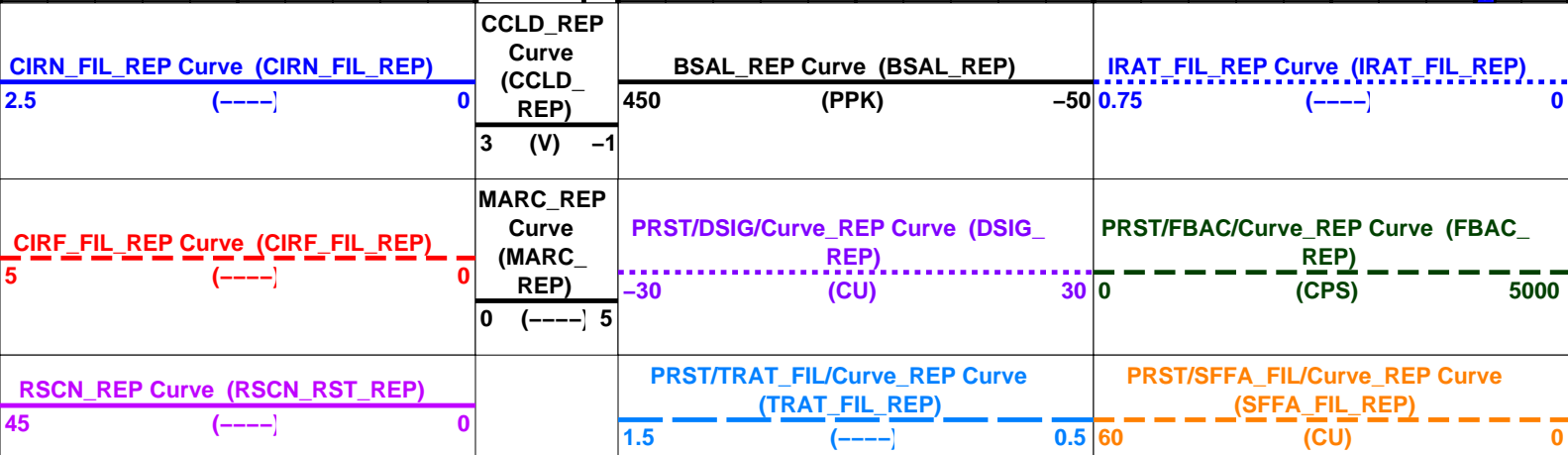
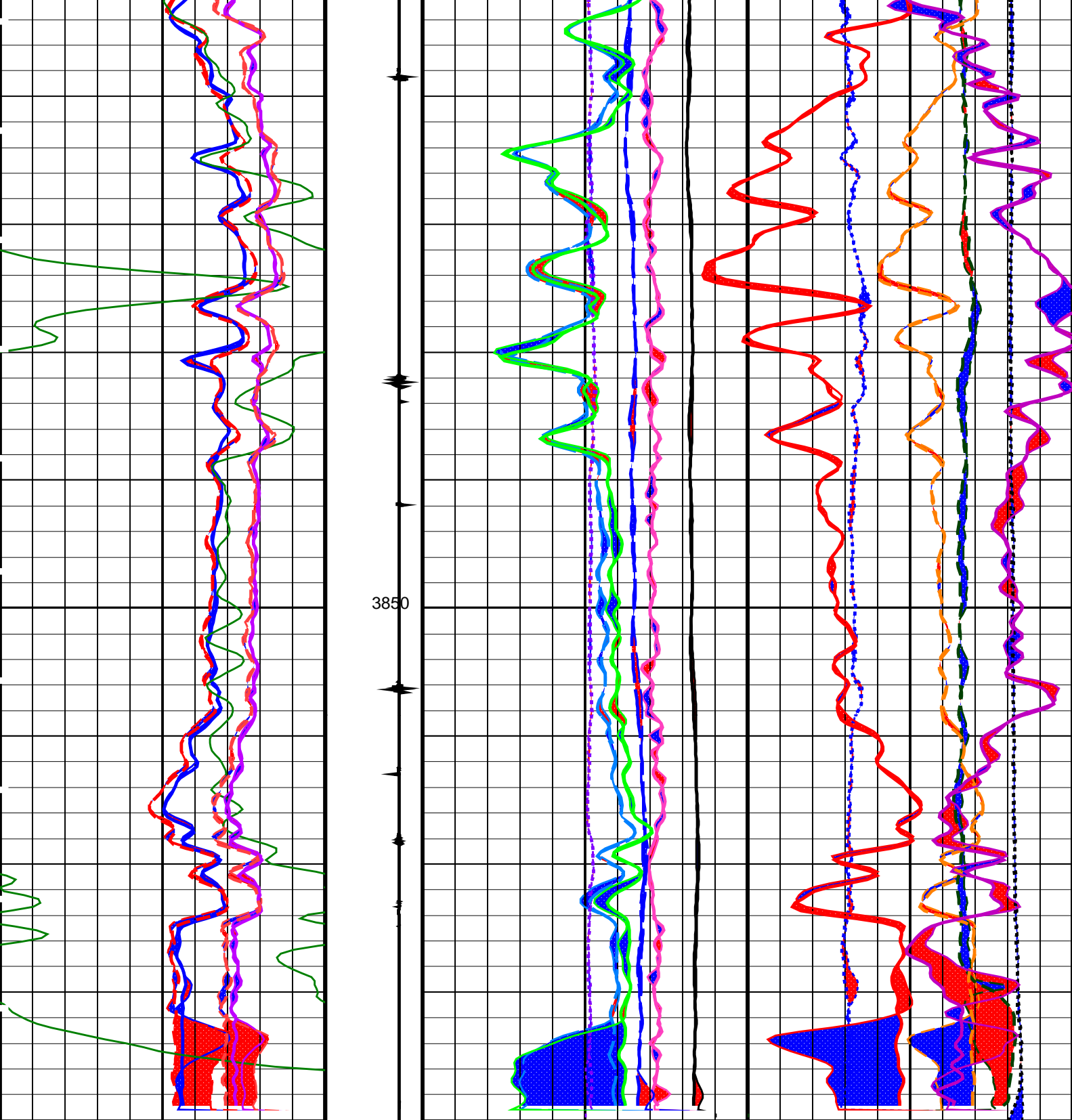
Input DLIS Files						
DEFAULT	RST_PSP_029PUP	FN:45	PRODUCER	07-May-2010 15:24	3870.0 M	3794.9 M
DEFAULT	RST_PSP_028PUP	FN:43	PRODUCER	07-May-2010 14:52	3870.0 M	3794.9 M
Output DLIS Files						
DEFAULT	RST_PSP_034PUP	FN:52	PRODUCER	07-May-2010 16:30	3870.0 M	3794.9 M
CUSTOMER	RST_PSP_034PUC	FN:53	CUSTOMER	07-May-2010 16:30	3870.0 M	3794.9 M

OP System Version: 17C0-154						
RST-C	SRPC-3971-Q1_2010_OP17		PSPT	SRPC-3971-Q1_2010_OP17		

PIP SUMMARY						
Time Mark Every 60 S						

				WINR REP Curve (WINR RST REP)		
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<u>RSCF_REP Curve (RSCF_RST_REP)</u> 45 (----) 0	<u>PRST/SBFA_FIL/Curve_REP Curve (SBFA_FIL_REP)</u> 150 (CU) 0	<u>TENS_REP Curve (TENS_REP)</u> 0 (LBF) 3000
	<u>SIBF_REP Curve (SIBF_REP)</u> 100 (CU) 0	
	<u>SIGM_REP Curve (SIGM_REP)</u> 60 (CU) 0	
	<u>TPHI_REP Curve (TPHI_REP)</u> 0.6 (V/V) 0	
	<u>WINR_REP Curve (WINR_RST_REP)</u> 0.4 (----) 0	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
RST-C: Reservoir Saturation Pro Tool C		
AIRB	RST Air Borehole	No
BHS	Borehole Status	CASED
BSALOPT	RST Borehole Salinity Option	Unknown
BSFL	RST Borehole Salinity Filter Length	51
DFPC	RST Depth Filter Processing Constant	One
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48
NORM_SIGM_RST	RST Normalized Sigma	30 CU
RGAI	Near/Far Gain Calibration Ratio	1
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma
PSPT: Production Services Logging Platform		
BHS	Borehole Status	CASED
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
System and Miscellaneous		
BS	Bit Size	8.500 IN
BSAL	Borehole Salinity	-50000.00 PPM
CSIZ	Current Casing Size	7.000 IN
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL

Format: RST_SIG_ANSW_REP Vertical Scale: 1:200 Graphics File Created: 07-May-2010 16:30

OP System Version: 17C0-154

RST-C	SRPC-3971-Q1_2010_OP17	PSPT	SRPC-3971-Q1_2010_OP17
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Input DLIS Files

DEFAULT	RST_PSP_029PUP	FN:45	PRODUCER	07-May-2010 15:24	3870.0 M	3794.9 M
DEFAULT	RST_PSP_028PUP	FN:43	PRODUCER	07-May-2010 14:52	3870.0 M	3794.9 M

Output DLIS Files

DEFAULT	RST_PSP_034PUP	FN:52	PRODUCER	07-May-2010 16:30
CUSTOMER	RST_PSP_034PUC	FN:53	CUSTOMER	07-May-2010 16:30

Schlumberger

Before Calibration

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Production Services Logging Platform Wellsite Calibration – Detector Calibration

Before: 6–May–2010 15:35

Gamma–Ray Jig–Bkg	125.0	N/A	129.7	N/A	N/A	N/A	GAPI
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Production Services Logging Platform / Equipment Identification



Primary Equipment:

Production Logging Platform (CQG–F)	PSPT – B	1864
PSP Basic Measurement Sonde (CQG_F)	PBMS – B	3918
PSP Basic measurement module	PBMS –	3918
PSP CCL	CCL –	3918
PSP GR	GR –	3918
PSP RTD Well Temperature	RTD_ –	3918
PSP Crystal Quartz Gauge Type F	CQG_ –	3918
PSP Telemetry and bus master cartridge	PSTC – A	1864

Auxiliary Equipment:

Production Services Logging Platform Wellsite Calibration

Detector Calibration

Phase	Gamma–Ray Background	GAPI	Value	Phase	Gamma–Ray Jig–Bkg	GAPI	Value
Before			3.148	Before			129.7
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		110.0 (Minimum)	125.0 (Nominal)	140.0 (Maximum)

Before: 6–May–2010 15:35

Company: **Esso Australia Pty. Ltd.****Schlumberger**Well: **FORTESCUE A6A**Field: **FORTESCUE**Rig: **FORTESCUE**Country: **Australia**

RST–E Static & Flowing

Sigma Survey

07–May–2010