

Company: **Esso Australia Ltd.**

Well: **TNA A-17a**

Field: **Tuna**

Rig: **Prod 2 / ISS CWU** Country: **Australia**

PBMS-GR-CCl
PILS-PFCS
Spinner Survey

Field: Tuna
Location: Gippsland
Well: TNA A-17a
Company: Esso Australia Ltd.

LOCATION	
Gippsland	Elev.: K.B. 32.1 m
Basin	G.L. -59 m
Bass Strait	D.F. 32.1 m
Permanent Datum:	Mean Sea Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
State: Victoria	Max. Well Deviation 64 deg
	Longitude 148°25'05.29"E
	Latitude 38°10'16.00S

PVT DATA			
Oil Density	Run 1	Run 2	Run 3
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	64 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			

Logging Date	7-Feb-2006
Run Number	1-6
Depth Driller	3406 m
Schlumberger Depth	0 m
Bottom Log Interval	2300 m
Top Log Interval	2200 m
Casing Fluid Type	Salt water
Salinity	
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	8.500 in
From	729 m
To	3474 m
Casing/Tubing Size	3.500 in
Weight	9.2 lbn/ft
Grade	L-80
From	11 m
To	2779 m
Maximum Recorded Temperatures	82 degC
Logger On Bottom	7-Feb-2006
Unit Number	3827
Recorded By	Joel Hogan
Witnessed By	Bruce Woodward, Mark Wilson

DEPTH SUMMARY LISTING

Date Created: 3-FEB-2006 15:02:53

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	
Serial Number:	794	Serial Number:	1711	Serial Number:	2-32ZT
Calibration Date:	31-May-2005	Calibration Date:	22-SEP-2005	Length:	24031
Calibrator Serial Number:	1009	Calibrator Serial Number:	57144		6794.91 M
Calibration Cable Type:	2-32ZT	Calibration Gain:	0.974	Conveyance Method:	Wireline
Wheel Correction 1:	-6	Calibration Offset:	200.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	-5				

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	TUNA A17A CORRELATION LOGS
Reference Log Run Number:	
Reference Log Date:	no date available
Subsequent Trip Down Log Correction:	0 M













Depth Control Remarks

1. All Schlumberger Depth Control Procedures followed.
2. Log correlated to correlation log provided by Esso.
3. GR response used for correlation.
4. IDW used as Primary Depth Control.
5. Z-Chart used as Secondary Depth Control.

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OTHER SERVICES1		OTHER SERVICES2	
OS1: none		OS1:	
OS2:		OS2:	
OS3:		OS3:	
OS4:		OS4:	
OS5:		OS5:	
REMARKS: RUN NUMBER 1		REMARKS: RUN NUMBER 2	
Log Correlated to Solar Composite undated log Provided by client			
Purpose of log, To locate top of Tubing patch in relation to hole in tubing after pulling weakpoint on setting run.			
To locate top depth of patch to allow second patch to be set with tubing.			
And to confirm location of hole in tubing.			
Hole in tubing located at - 2249.9mMDKB			
Top of Owen Tubing Patch - 2255mMDKB			
Clearance - 5.1m between top of patch and hole in tubing.			

Second patch ran in and set with tubing at –Top seal at 2242.7mMDKB					
Lower seal at 2255mMDKB.					
Well not flowing but has a drink rate of 18brl/day					
Schlumberger crew : Brendan Glover– Crew cheif, Sean Mcgee (days)					
Lee Wright, Simon Kiss (nights)					
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
WITM–A 3248					
DOWNHOLE EQUIPMENT					
MH–22 MH–22		9.07			
AH–38		8.59			
EQF–43 EQF–43		8.51			
EQF–43 EQF–43		6.69			
PSPT–B PSC–A 818 PSPT–B 818 PSTC 818 PBMS–B 818 CQG_F_Mano 818 RTD_Thermometer 818 GR CCL 818 PBMS 818	       	4.86 4.86 3.73			
TelStatus CTEM					
GR					

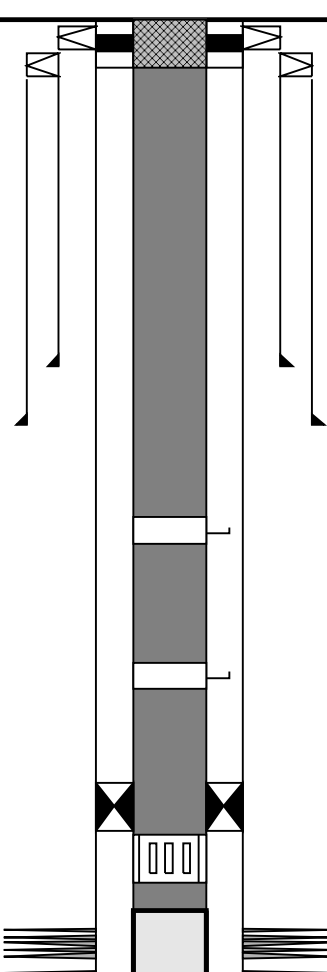
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 CQG Manom 2.69
 CCL 2.57
 PBMS PSTC 2.34

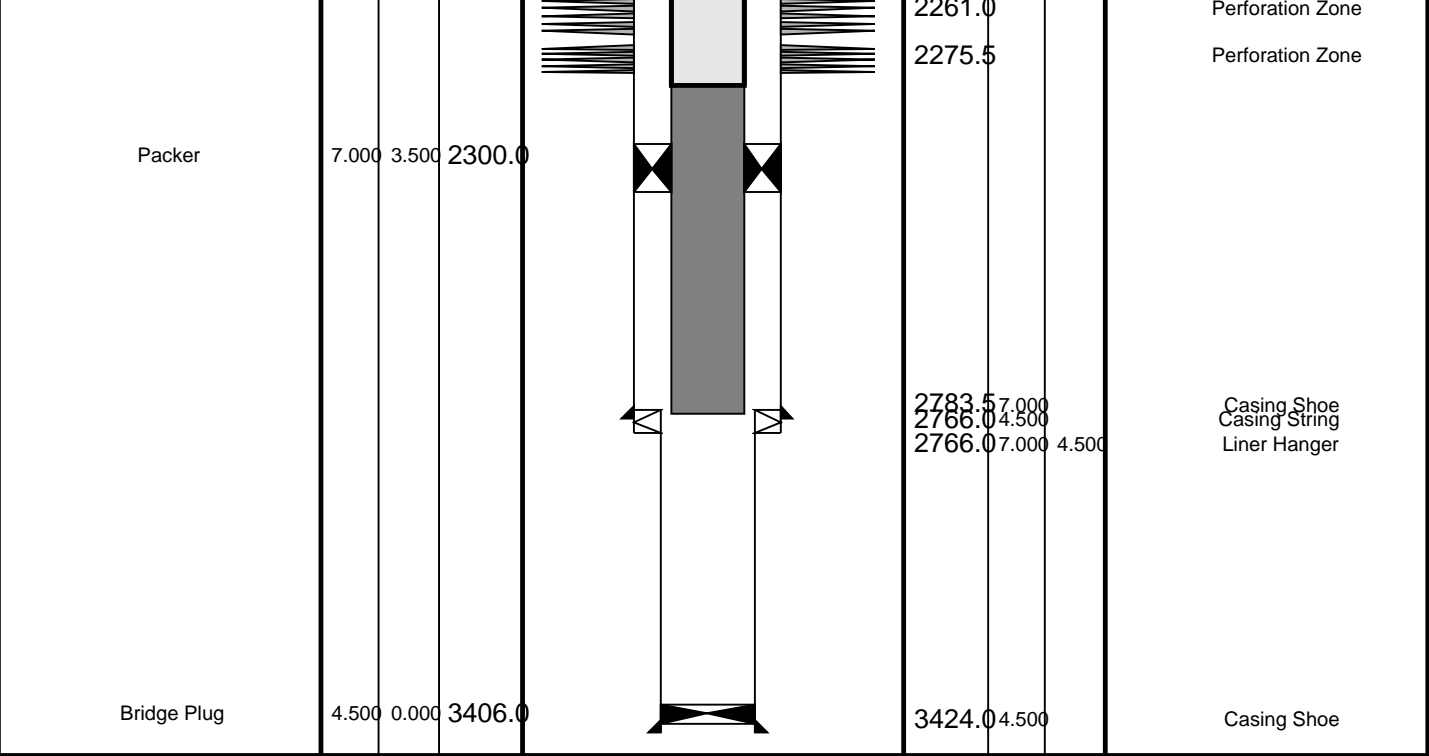
PILS-A 2.34
 PILS-A 839
 Spinner 1.84

PFCS-A 1.57
 Holdup Probes 1
 Spinner 3.5 1
 Relative Bearing 1
 Caliper 1
 PFCC-A 1
 PFCH-A 1
 PFCS Spin 0.57
 PFCS Cali 0.45
 PFCS Prob
 PFCS Wave HV
 PFCS Rela
 PFCS Cart
 Tension 0.00
 TOOL ZERO

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

Client: Esso Australia Ltd. Drawing Date: 26/2/2006
 Well: TNA A-17a API #:
 Field: Tuna Rig Name: Tuna
 State: Victoria Reference Datum: Kelly Bushing
 Country: Australia Elevation: 32.1 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	3.500	3.500	9.0		9.0	7.000		Casing String
					10.0	10.625	57.000	Casing String
					11.0	13.688	10.625	Casing String
					593.8	10.625		Casing Shoe
					715.5	13.688		Casing Shoe
Gas Lift Mandrel	3.500		1408.0					
Gas Lift Mandrel	3.500		1919.5					
Packer	7.000	3.500	2077.0					
Sliding Sleeve	3.500		2183.8					
Blast Joint	3.500		2250.2		2246.5			Perforation Zone

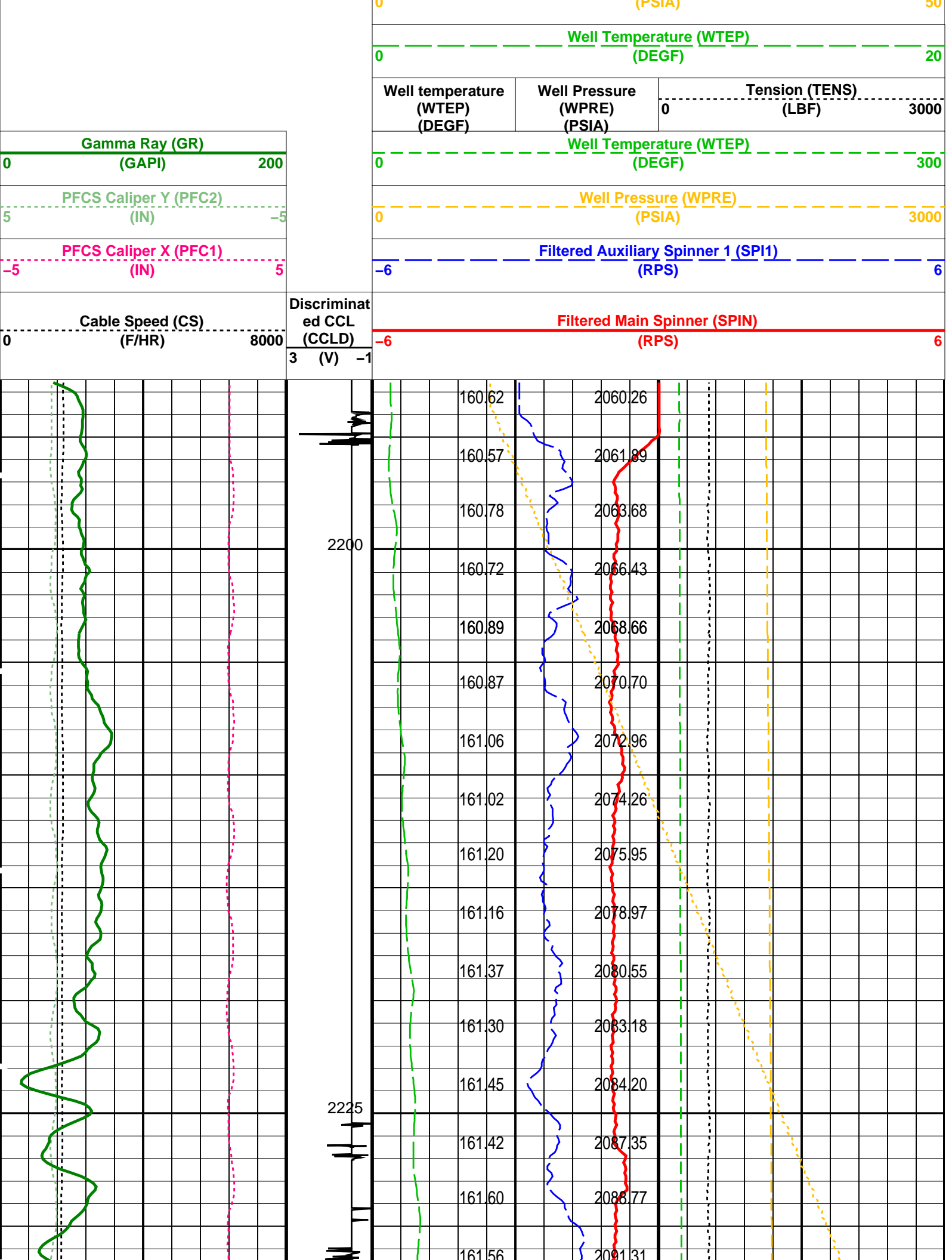


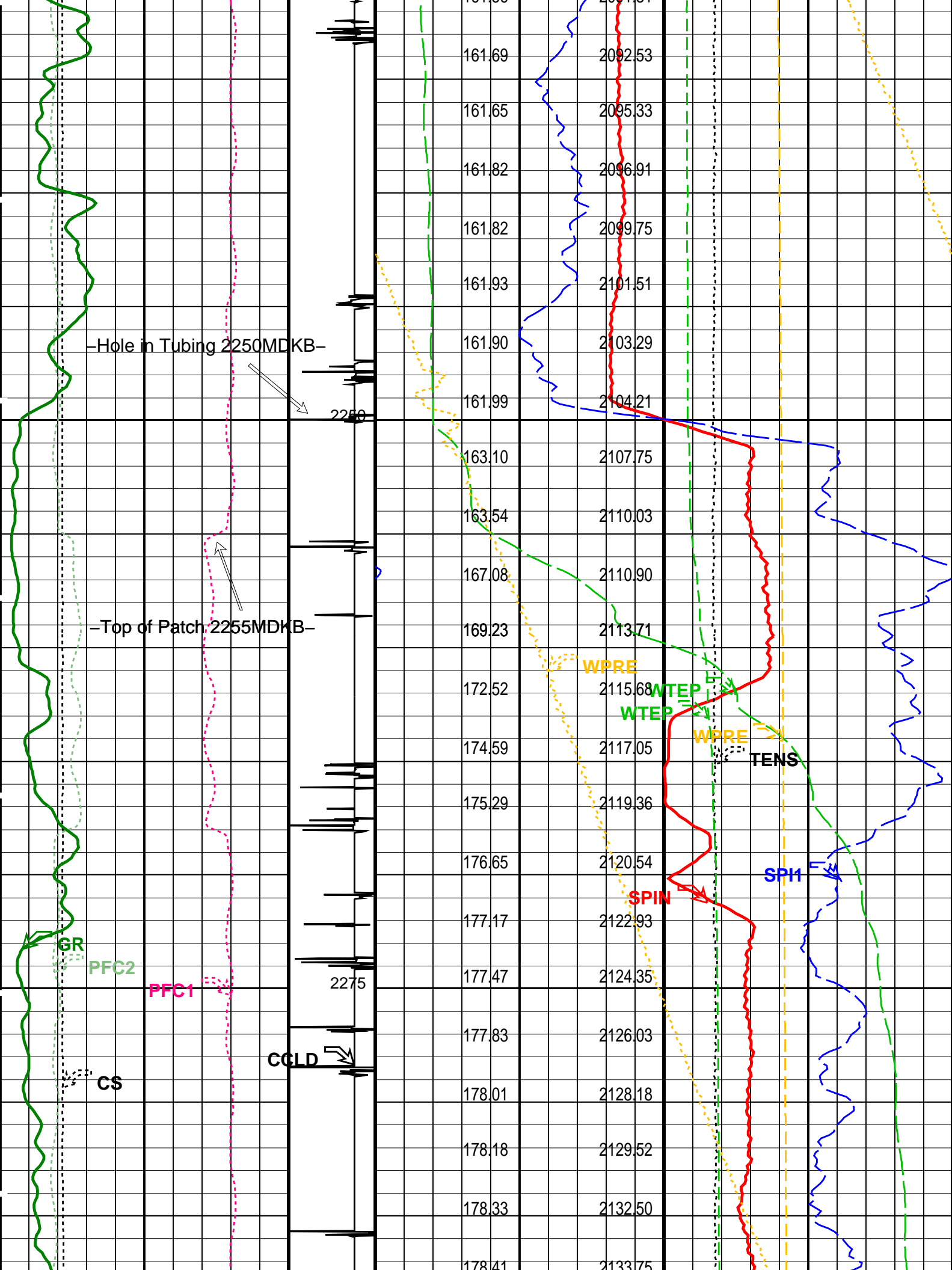
Log down
1800ft/h

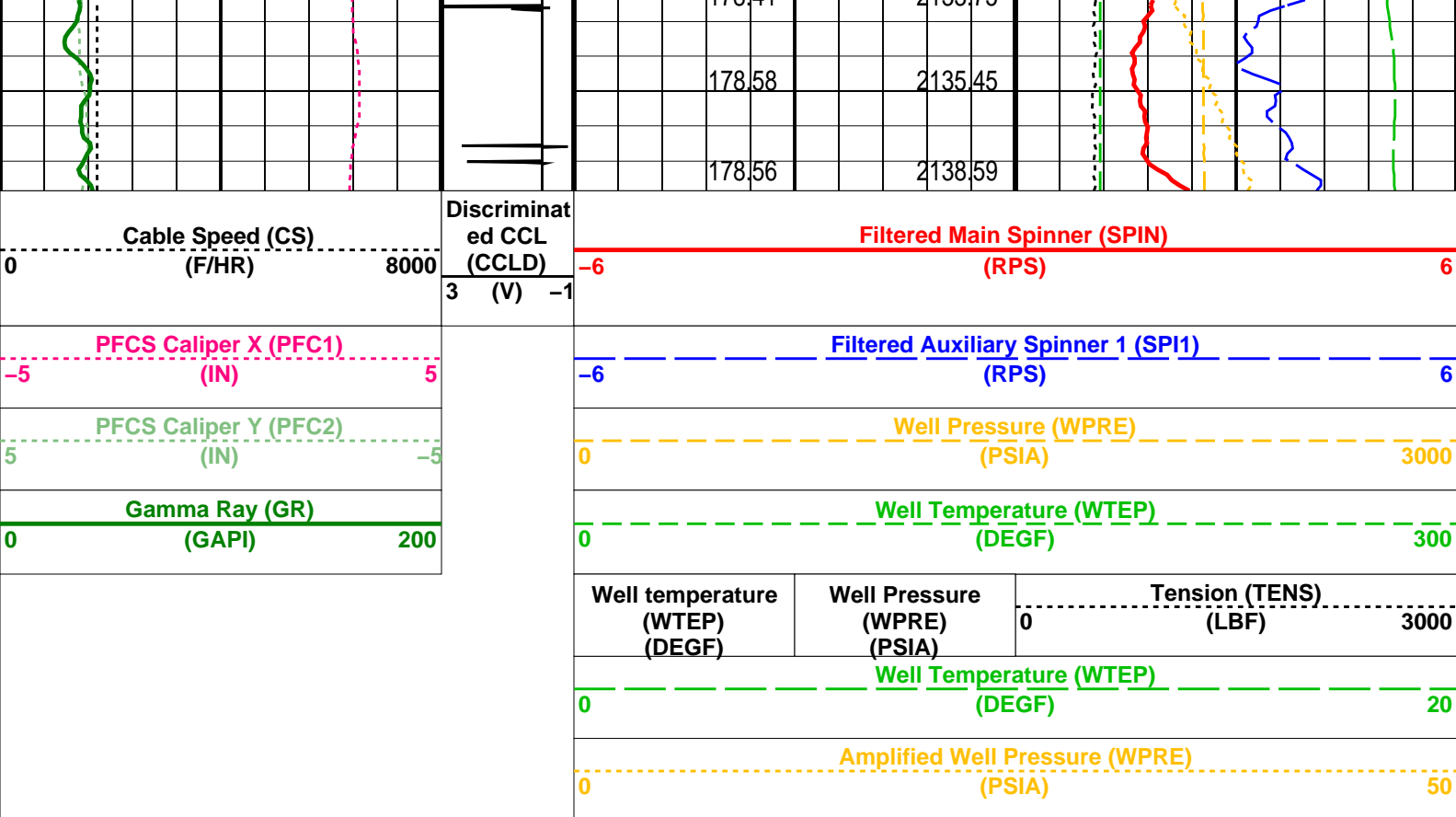
MAXIS Field Log

Company: Esso Australia Ltd.					Well: TNA A-17a	
Input DLIS Files						
DEFAULT	FCS_ILS_PSP_023PUP	FN:19	PRODUCER	07-Feb-2006 12:42	2293.3 M	2192.4 M
Output DLIS Files						
DEFAULT	FCS_ILS_PSP_046PUP	FN:42	PRODUCER	07-Feb-2006 20:26	2292.9 M	2192.4 M
OP System Version: 13C0-300						
MCM						
PFCS-A	13C0-300	PILS-A		13C0-300		
PSPT-B	13C0-300					
PIP SUMMARY						
Time Mark Every 60 S						









PIP SUMMARY

Time Mark Every 60 S

Format: PSP_SPIN Vertical Scale: 1:200

Graphics File Created: 07-Feb-2006 20:26

OP System Version: 13C0-300

MCM

PFCS-A	13C0-300	PILS-A	13C0-300
PSPT-B	13C0-300		

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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	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	FCS_ILS_PSP_023PUP	FN:19	PRODUCER	07-Feb-2006 12:42	2293.3 M	2192.4 M
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Output DLIS Files

DEFAULT	FCS_ILS_PSP_046PUP	FN:42	PRODUCER	07-Feb-2006 20:26
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MAXIS Field Log

Company: Esso Australia Ltd. Well: TNA A-17a

Input DLIS Files

DEFAULT FCS_ILS_PSP_024PUP FN:20 PRODUCER 07-Feb-2006 12:46 2295.3 M 2186.6 M

Output DLIS Files

DEFAULT FCS_ILS_PSP_044PUP FN:40 PRODUCER 07-Feb-2006 20:23 2294.7 M 2186.5 M

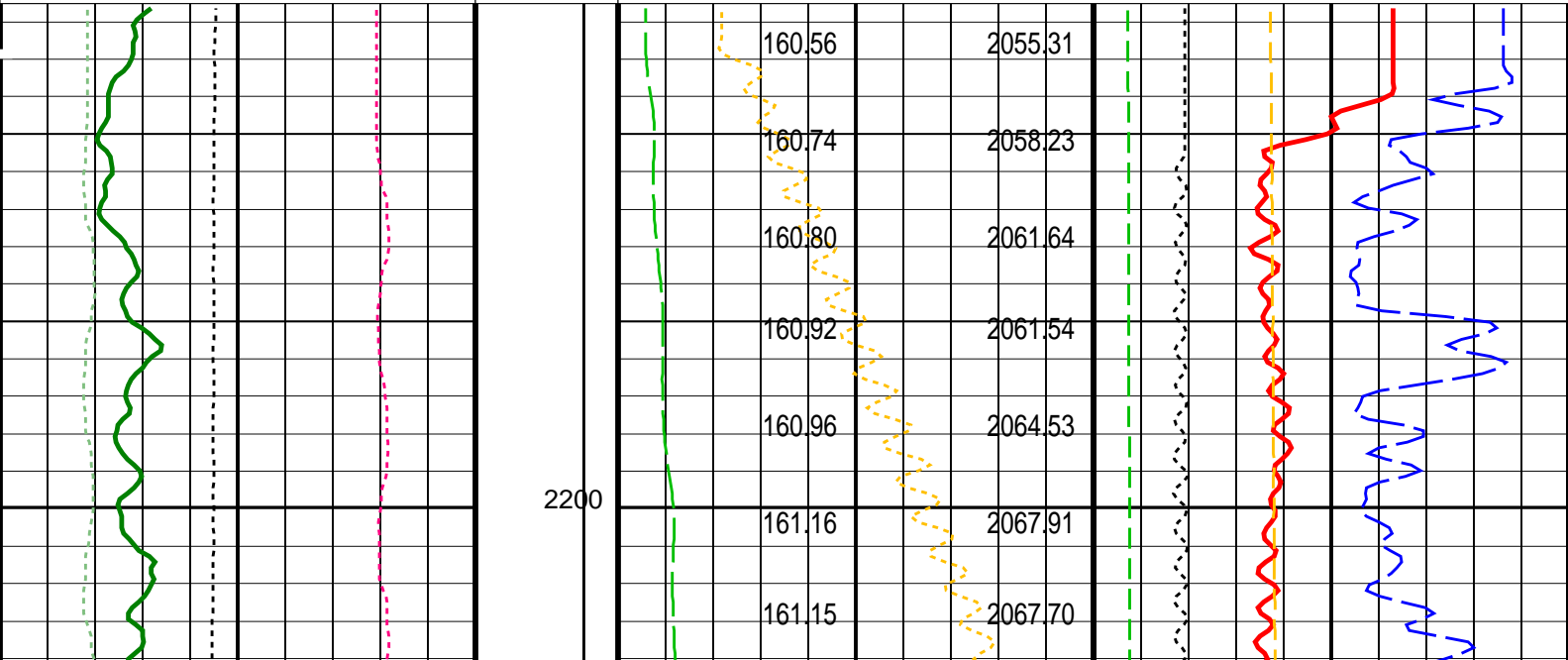
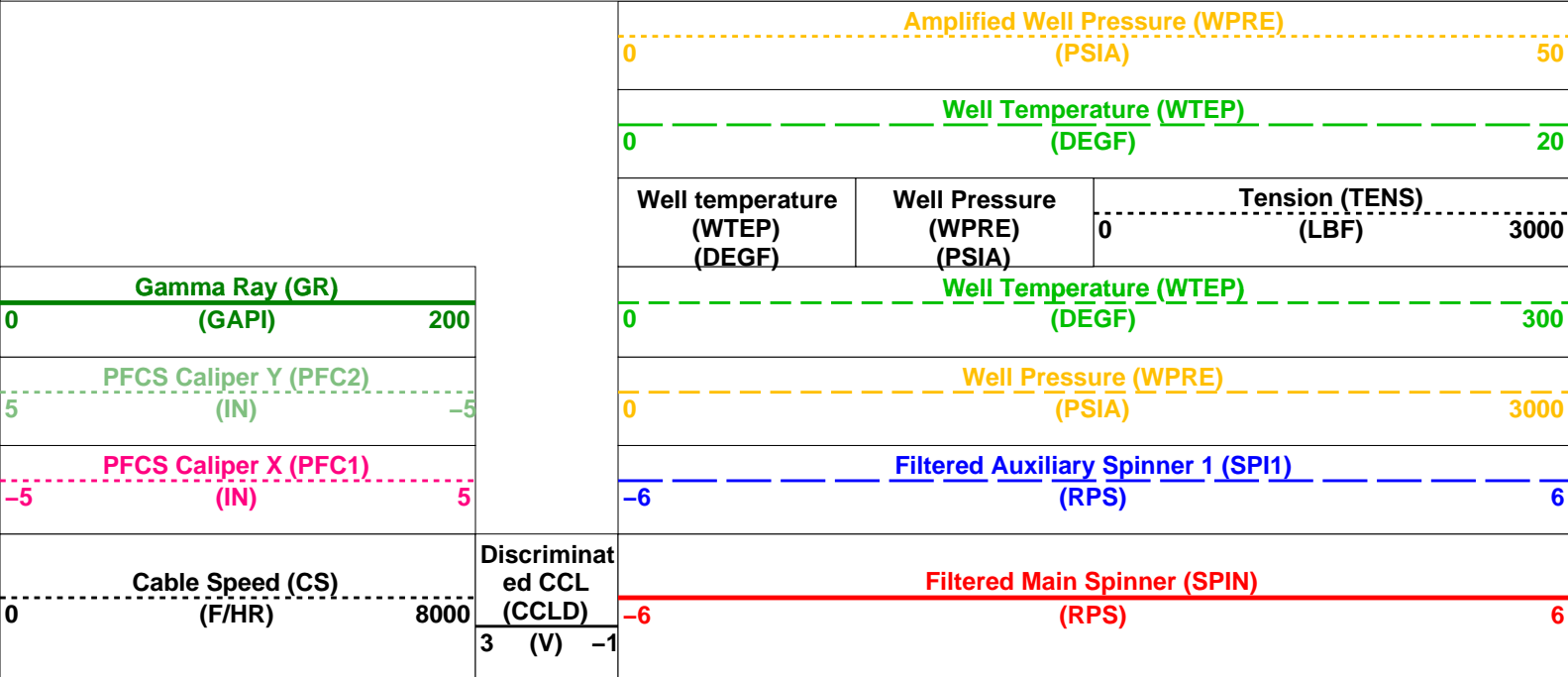
OP System Version: 13C0-300

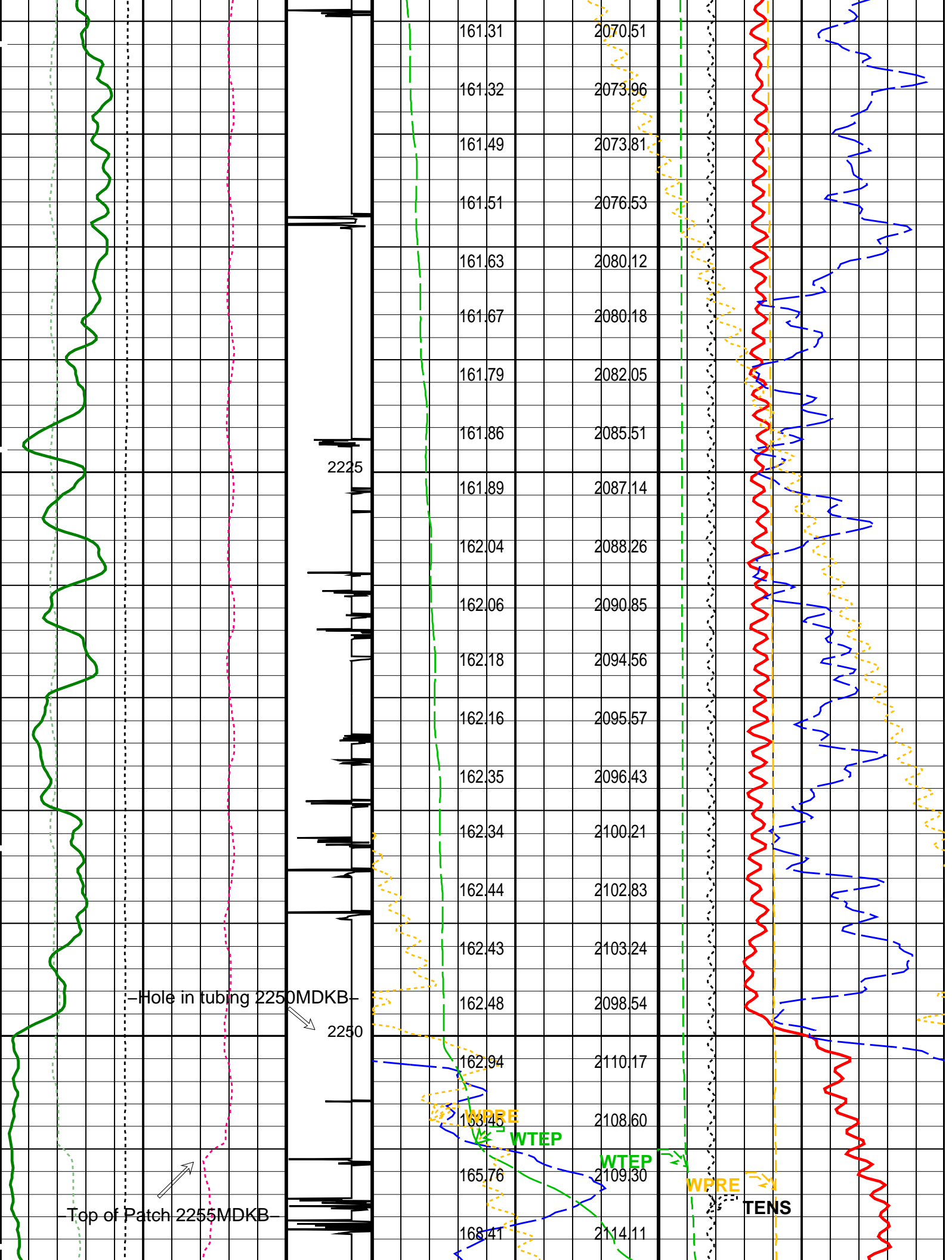
MCM

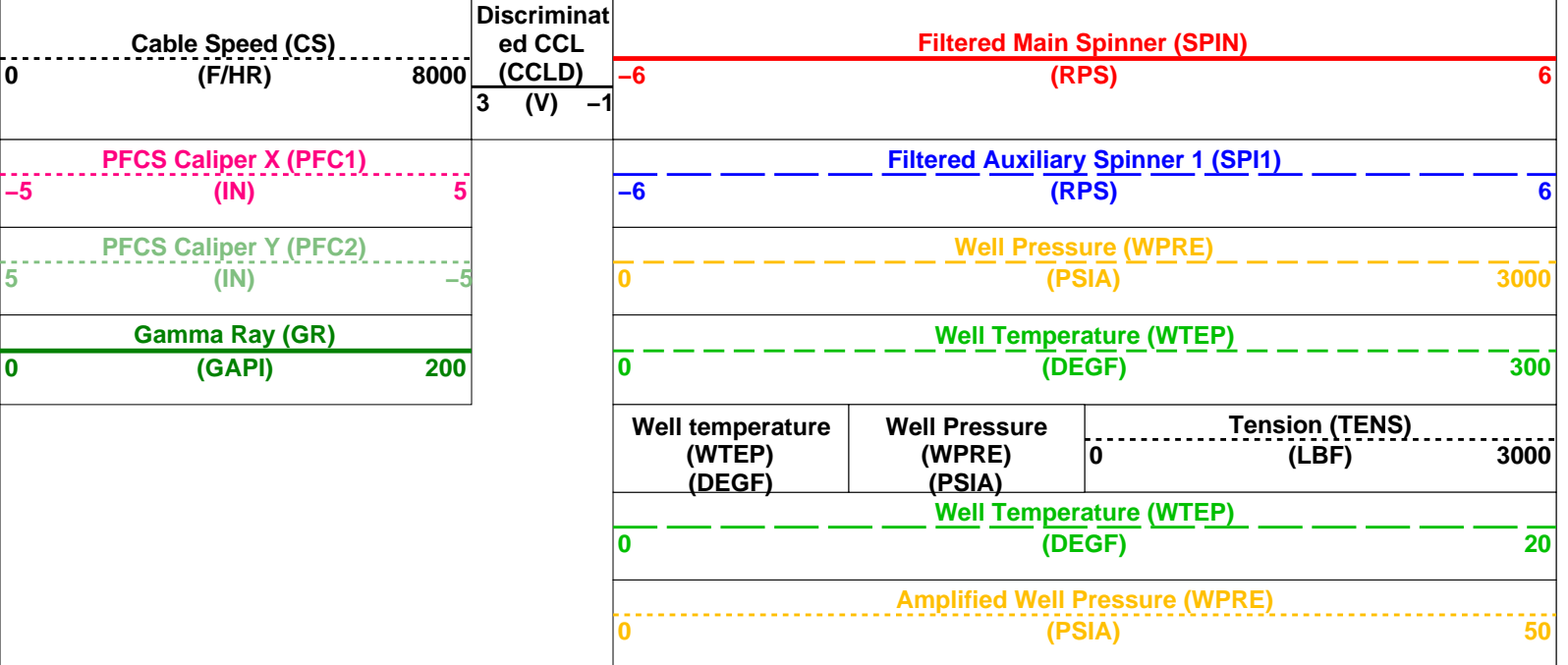
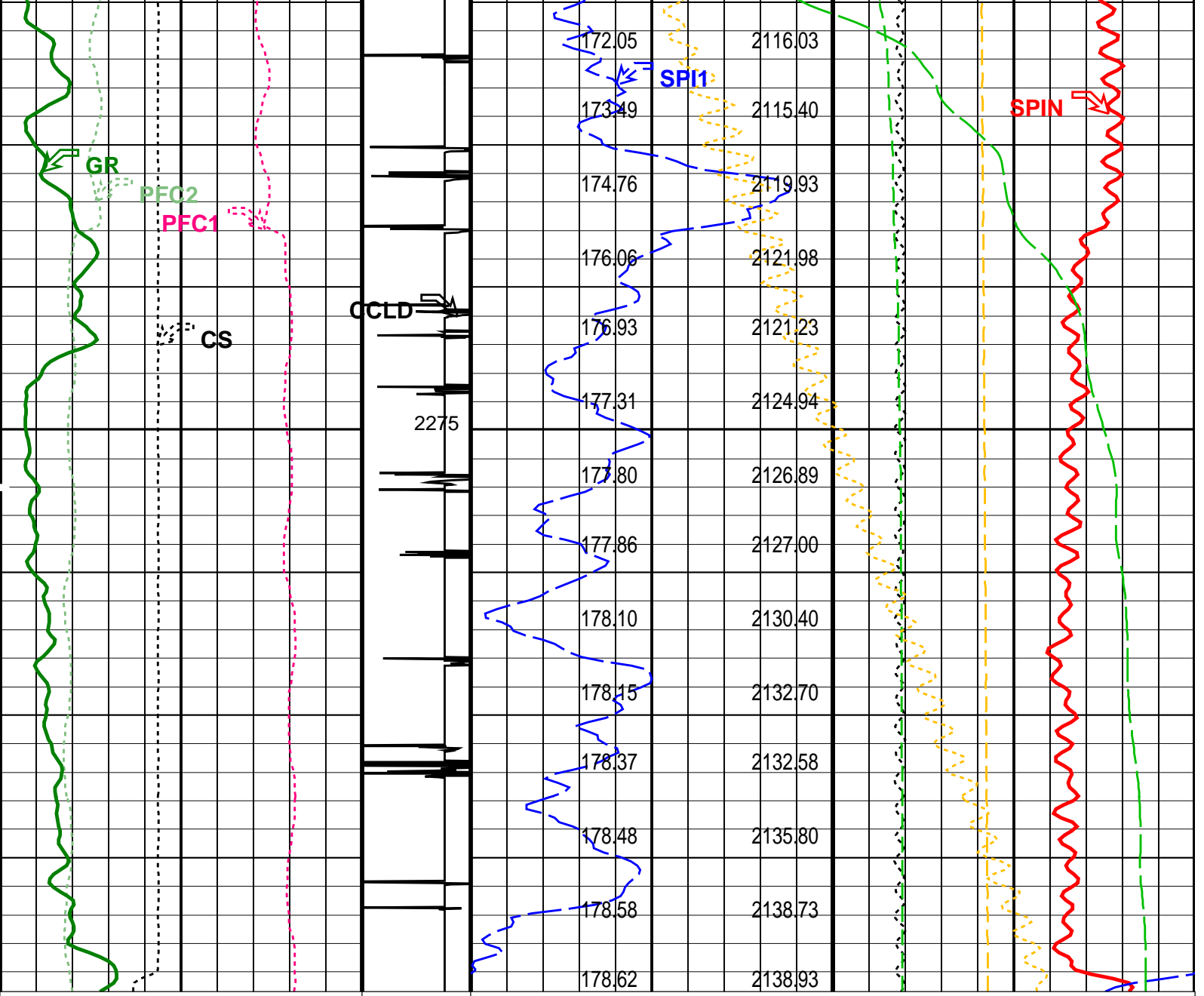
PFCS-A 13C0-300 PILS-A 13C0-300
PSPT-B 13C0-300

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

OP System Version: 13C0-300
MCM

PFCS-A 13C0-300 PILS-A 13C0-300
PSPT-B 13C0-300

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
	SPI1 Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
	SPIN Main Spinner Flowmeter Sonde	PFCS-A_3.5
	PILS-A: PSP In Line Spinner Flowmeter	LINEAR_AVERAGE
AMOD	SDCF Spinner Filter Averaging Mode	6
	SPI1 Spinner Depth Constant Filter	PILS-A
	SPIN Auxiliary Spinner 1 Flowmeter Sonde	PFCS-A_3.5
	System and Miscellaneous	
	DO Depth Offset for Playback	-0.6 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT FCS_ILS_PSP_024PUP FN:20 PRODUCER 07-Feb-2006 12:46 2295.3 M 2186.6 M

Output DLIS Files

DEFAULT FCS_ILS_PSP_044PUP FN:40 PRODUCER 07-Feb-2006 20:23

Schlumberger

Log down
5400ft/h

MAXIS Field Log

Company: Esso Australia Ltd. Well: TNA A-17a

Input DLIS Files

DEFAULT FCS_ILS_PSP_025PUP FN:21 PRODUCER 07-Feb-2006 12:49 2295.6 M 2194.6 M

Output DLIS Files

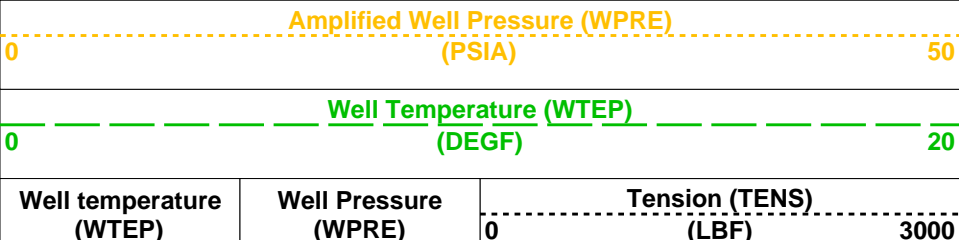
DEFAULT FCS_ILS_PSP_041PUP FN:37 PRODUCER 07-Feb-2006 20:17 2294.5 M 2194.0 M

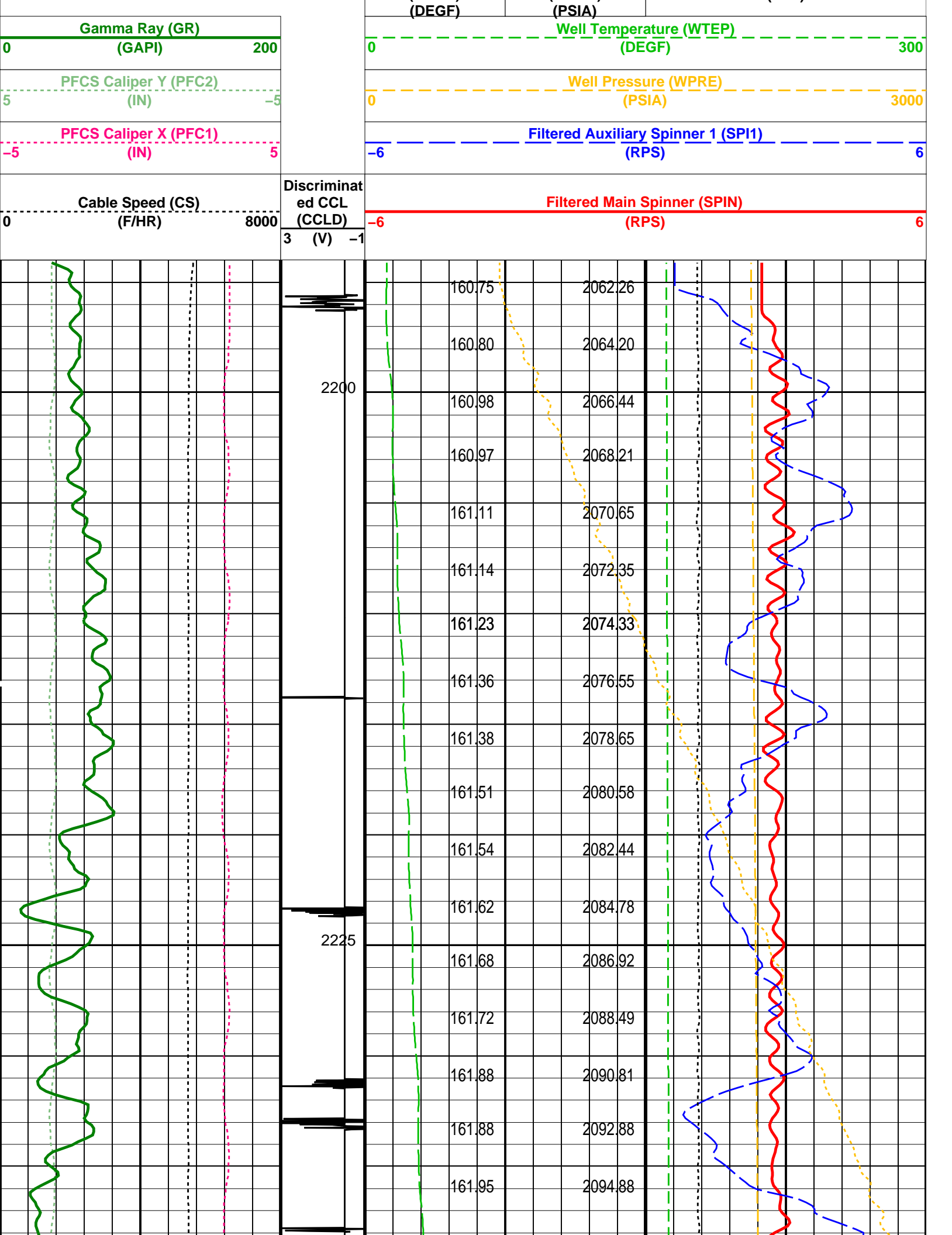
OP System Version: 13C0-300
MCM

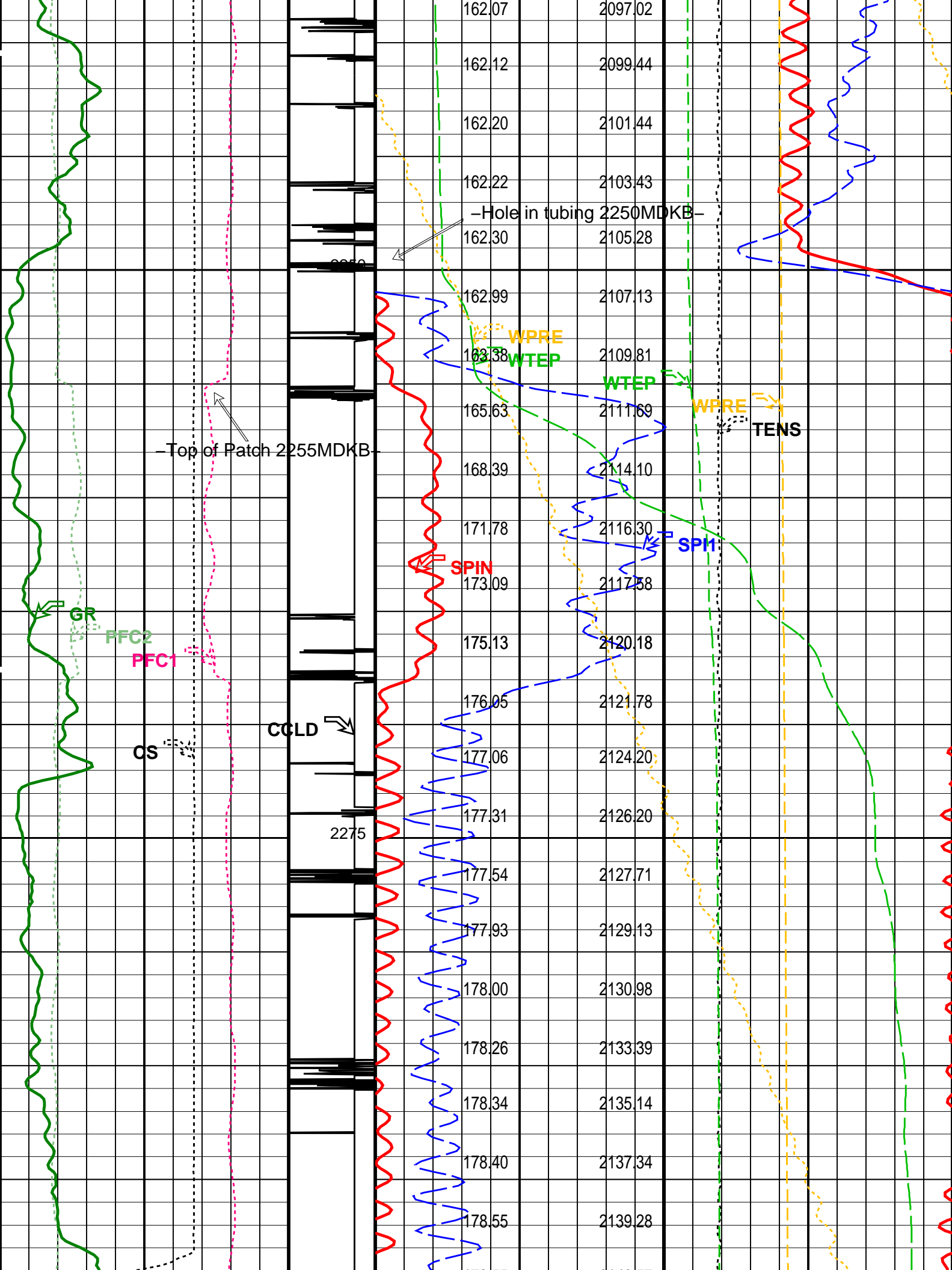
PFCS-A 13C0-300 PILS-A 13C0-300
PSPT-B 13C0-300

PIP SUMMARY

Time Mark Every 60 S







<div>Cable Speed (CS) (F/HR)</div> <div>08000</div>			<div>Discriminat ed CCL (CCLD)</div> <div>3 (V) -1</div>	<div>Filtered Main Spinner (SPIN)</div> <div>-6 (RPS) 6</div>		
<div>PFCS Caliper X (PFC1) (IN)</div> <div>-55</div>				<div>Filtered Auxiliary Spinner 1 (SPI1) (RPS)</div> <div>-66</div>		
<div>PFCS Caliper Y (PFC2) (IN)</div> <div>5-5</div>			<div>Well Pressure (WPRE) (PSIA)</div> <div>03000</div>			
<div>Gamma Ray (GR) (GAPI)</div> <div>0200</div>			<div>Well Temperature (WTEP) (DEGF)</div> <div>0300</div>			
			<div>Well temperature (WTEP) (DEGF)</div>	<div>Well Pressure (WPRE) (PSIA)</div>	<div>Tension (TENS) (LBF)</div> <div>03000</div>	
			<div>Well Temperature (WTEP) (DEGF)</div> <div>020</div>			
			<div>Amplified Well Pressure (WPRE) (PSIA)</div> <div>050</div>			

PIP SUMMARY	
 Time Mark Every 60 S	

Format: PSP_SPIN	Vertical Scale: 1:200	Graphics File Created: 07-Feb-2006 20:17
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OP System Version: 13C0-300			
MCM			
PFCS-A	13C0-300	PILS-A	13C0-300
PSPT-B	13C0-300		

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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5
System and Miscellaneous		
DO	Depth Offset for Playback	-1.0 M
PP	Playback Processing	NORMAL

Input DLIS Files						
DEFAULT	FCS_ILS_PSP_025PUP	FN:21	PRODUCER	07-Feb-2006 12:49	2295.6 M	2194.6 M
Output DLIS Files						
DEFAULT	FCS_ILS_PSP_041PUP	FN:37	PRODUCER	07-Feb-2006 20:17		



Log up

1800ft/h

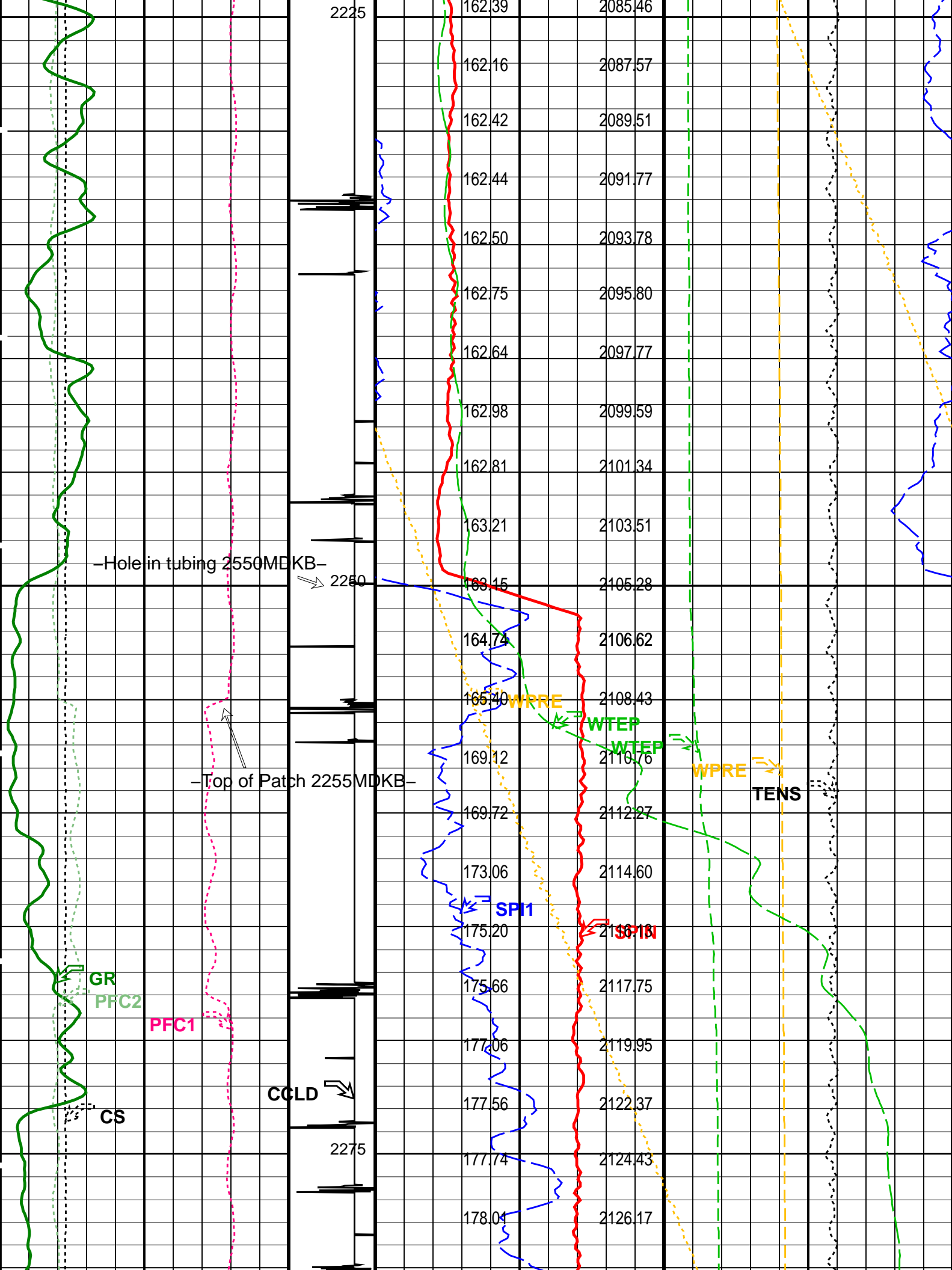
Output DLIS Files

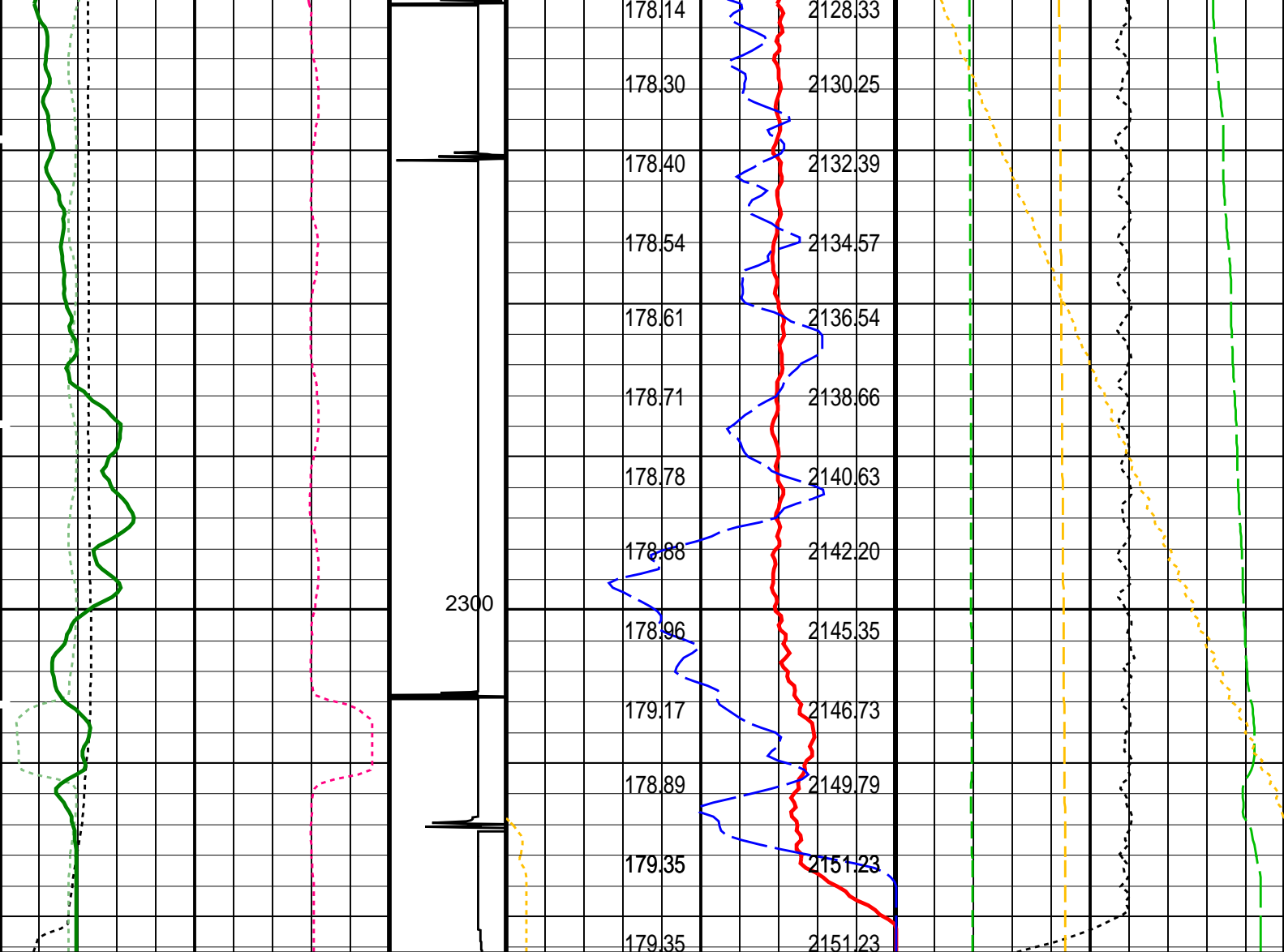
DEFAULT	FCS ILS PSP 039PUP	FN:35	PRODUCER	07-Feb-2006 20:13	2311.1 M	2201.7 M
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MCM

Time Mark Every 60 S

Gamma Ray (GR) (GAPI)		Discriminat ed CCL (CCLD) (V)		Amplified Well Pressure (WPRES) (PSIA)		Well Temperature (WTEMP) (DEGF)		Tension (TENS) (LBF)		Well Temperature (WTEMP) (DEGF)		Well Pressure (WPRES) (PSIA)		Filtered Auxiliary Spinner 1 (SPI1) (RPS)		Filtered Main Spinner (SPIN) (RPS)		Cable Speed (CS) (F/HR)	
0	200	3	-1	0	50	0	20	0	3000	0	300	0	3000	-6	6	-6	6	0	8000
PFCS Caliper Y (PFC2) (IN)				Well Temperature (WTEMP) (DEGF)						Well Temperature (WTEMP) (DEGF)		Well Pressure (WPRES) (PSIA)		Filtered Auxiliary Spinner 1 (SPI1) (RPS)		Filtered Main Spinner (SPIN) (RPS)		Cable Speed (CS) (F/HR)	
5	-5			0						0		0		-6		-6		0	
PFCS Caliper X (PFC1) (IN)				Well temperature (WTEMP) (DEGF)		Well Pressure (WPRES) (PSIA)		Tension (TENS) (LBF)		Well Temperature (WTEMP) (DEGF)		Well Pressure (WPRES) (PSIA)		Filtered Auxiliary Spinner 1 (SPI1) (RPS)		Filtered Main Spinner (SPIN) (RPS)		Cable Speed (CS) (F/HR)	
-5	5			0		0		0		0		0		-6		-6		0	





Cable Speed (CS) (F/HR)		Discriminat ed CCL (CCLD) 3 (V) -1	Filtered Main Spinner (SPIN) (RPS)		
0	8000		-6	6	
PFCS Caliper X (PFC1) (IN)			Filtered Auxiliary Spinner 1 (SPI1) (RPS)		
-5	5		-6	6	
PFCS Caliper Y (PFC2) (IN)			Well Pressure (WPRE) (PSIA)		
5	-5		0	3000	
Gamma Ray (GR) (GAPI)			Well Temperature (WTEP) (DEGF)		
0	200		0	300	
			Well temperature (WTEP) (DEGF)	Well Pressure (WPRE) (PSIA)	Tension (TENS) (LBF)
			0	3000	
			Well Temperature (WTEP) (DEGF)		
			0	20	
			Amplified Well Pressure (WPRE) (PSIA)		
			0	50	

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_SPIN Vertical Scale: 1:200

Graphics File Created: 07-Feb-2006 20:13

OP System Version: 13C0-300
MCM

PFCS-A

13C0-300


PILS-A

13C0-300

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	
SPI1		Auxiliary Spinner 1 Flowmeter Sonde			PILS-A	
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	
SPI1		Auxiliary Spinner 1 Flowmeter Sonde			PILS-A	
SPIN		Main Spinner Flowmeter Sonde			PFCS-A_3.5	
System and Miscellaneous						
DO		Depth Offset for Playback			0.0	M
PP		Playback Processing			NORMAL	

Input DLIS Files						
DEFAULT	FCS_ILS_PSP_031PUP	FN:27	PRODUCER	07-Feb-2006 13:17	2311.1 M	2201.3 M

Output DLIS Files						
DEFAULT	FCS_ILS_PSP_039PUP	FN:35	PRODUCER	07-Feb-2006 20:13		



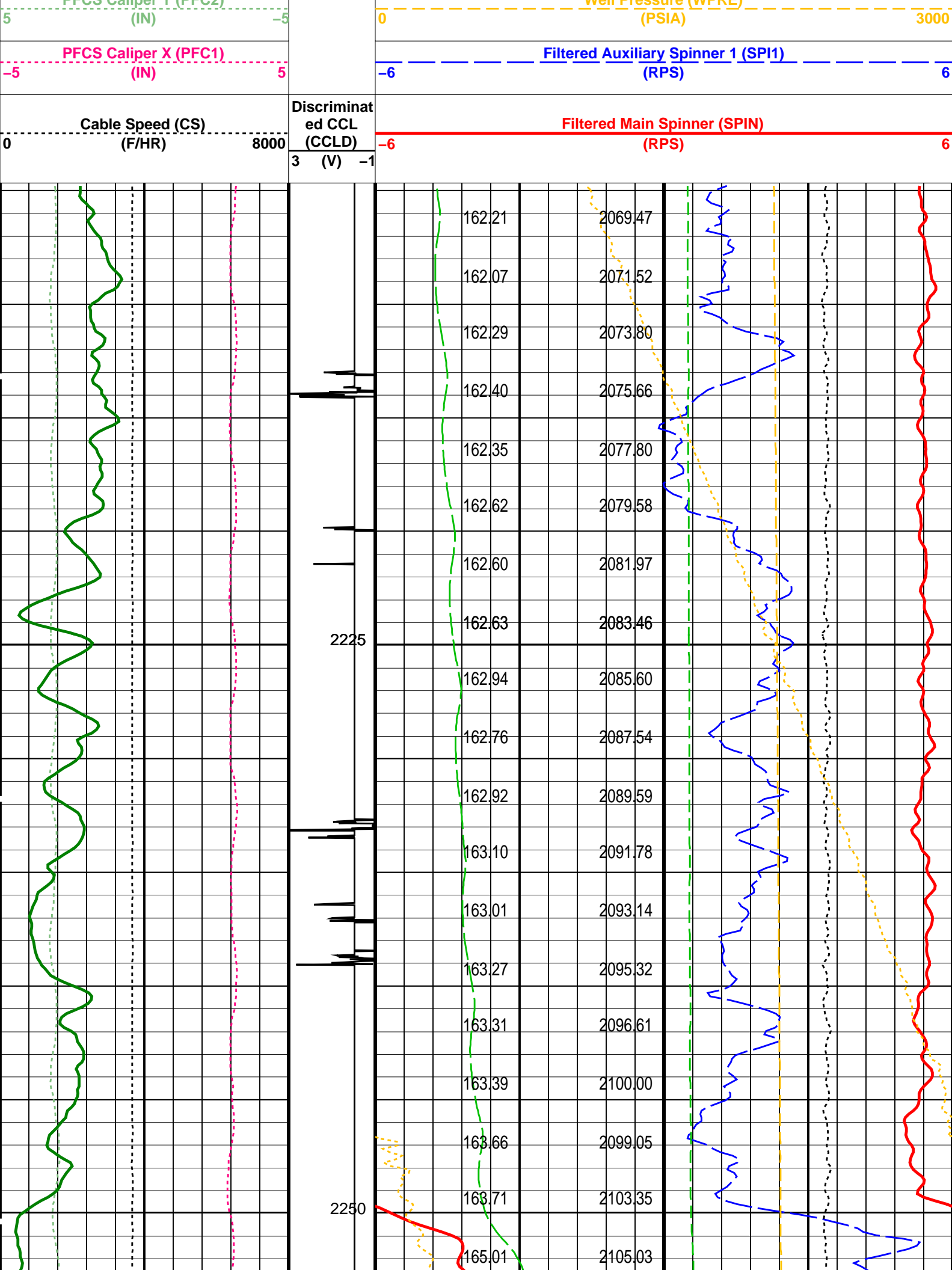
Log up

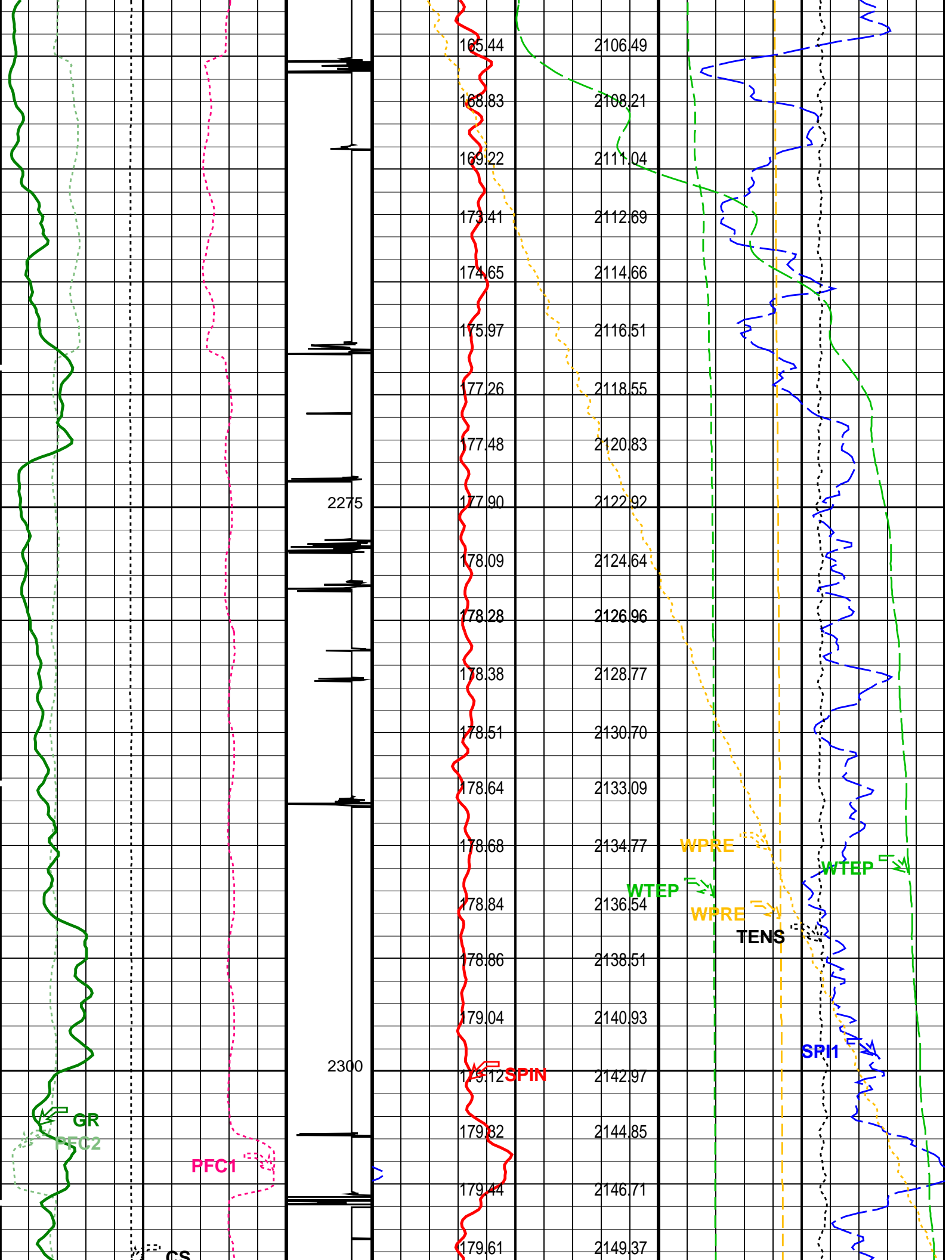
3600ft/h

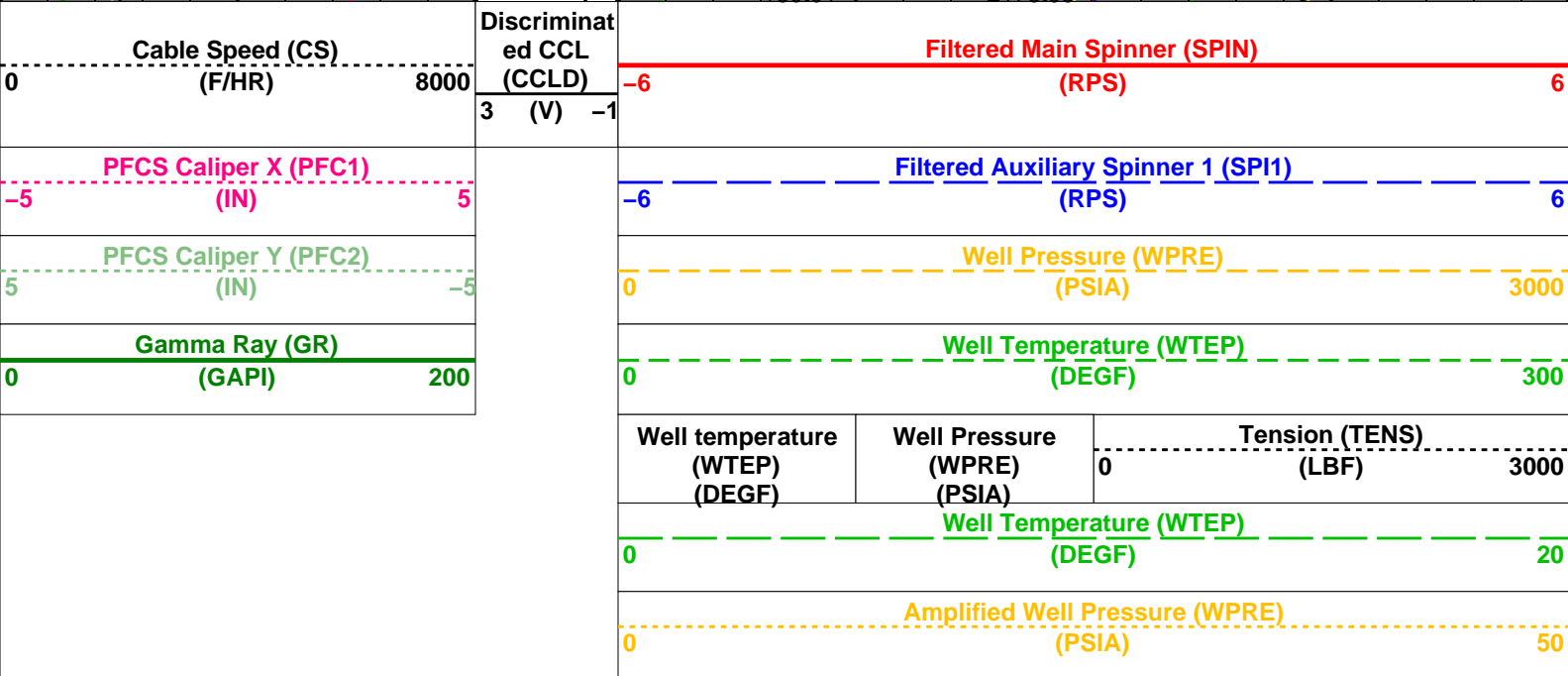
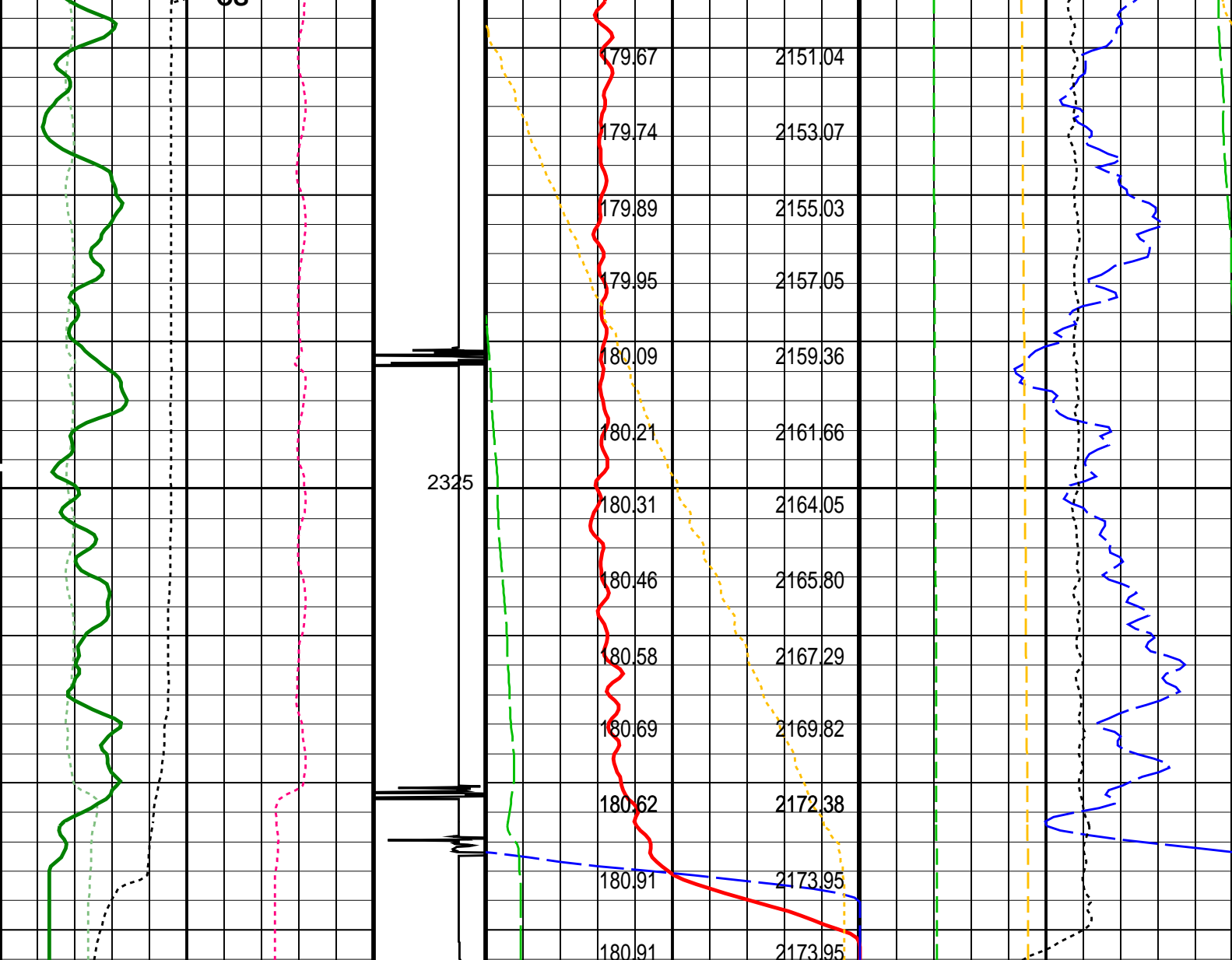
MAXIS Field Log

Company: Esso Australia Ltd.					Well: TNA A-17a	
Input DLIS Files						
DEFAULT	FCS_ILS_PSP_030PUP	FN:26	PRODUCER	07-Feb-2006 13:15	2341.0 M	2204.2 M
Output DLIS Files						
DEFAULT	FCS_ILS_PSP_038PUP	FN:34	PRODUCER	07-Feb-2006 20:11	2341.0 M	2204.6 M
OP System Version: 13C0-300						
MCM						
PFCS-A	13C0-300	PILS-A		13C0-300		
PSPT-B	13C0-300					

PIP SUMMARY						
Time Mark Every 60 S						
			Amplified Well Pressure (WPRE)			
			0-----50			
			(PSIA)			
			Well Temperature (WTEP)			
			0-----20			
			(DEGF)			
Well temperature (WTEP) (DEGF)		Well Pressure (WPRE) (PSIA)	Tension (TENS)			
			0-----3000			
			(LBF)			
Gamma Ray (GR)			Well Temperature (WTEP)			
			0-----300			
			(DEGF)			
0-----200						
(GAPI)						
PECS Caliper X (PEC2)			Well Pressure (WPRE)			







PIP SUMMARY

Time Mark Every 60 S


Format: PSP_SPIN Vertical Scale: 1:200

Graphics File Created: 07-Feb-2006 20:11

OP System Version: 13C0-300

MCM

PFCS–A		13C0–300	PILS–A		13C0–300	
PSPT–B		13C0–300				
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	
SPI1		Auxiliary Spinner 1 Flowmeter Sonde			PILS–A	
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	
SPI1		Auxiliary Spinner 1 Flowmeter Sonde			PILS–A	
SPIN		Main Spinner Flowmeter Sonde			PFCS–A_3.5	
System and Miscellaneous						
DO		Depth Offset for Playback			0.0	M
PP		Playback Processing			NORMAL	
Input DLIS Files						
DEFAULT	FCS_ILS_PSP_030PUP	FN:26	PRODUCER	07–Feb–2006 13:15	2341.0 M	2204.2 M
Output DLIS Files						
DEFAULT	FCS_ILS_PSP_038PUP	FN:34	PRODUCER	07–Feb–2006 20:11		



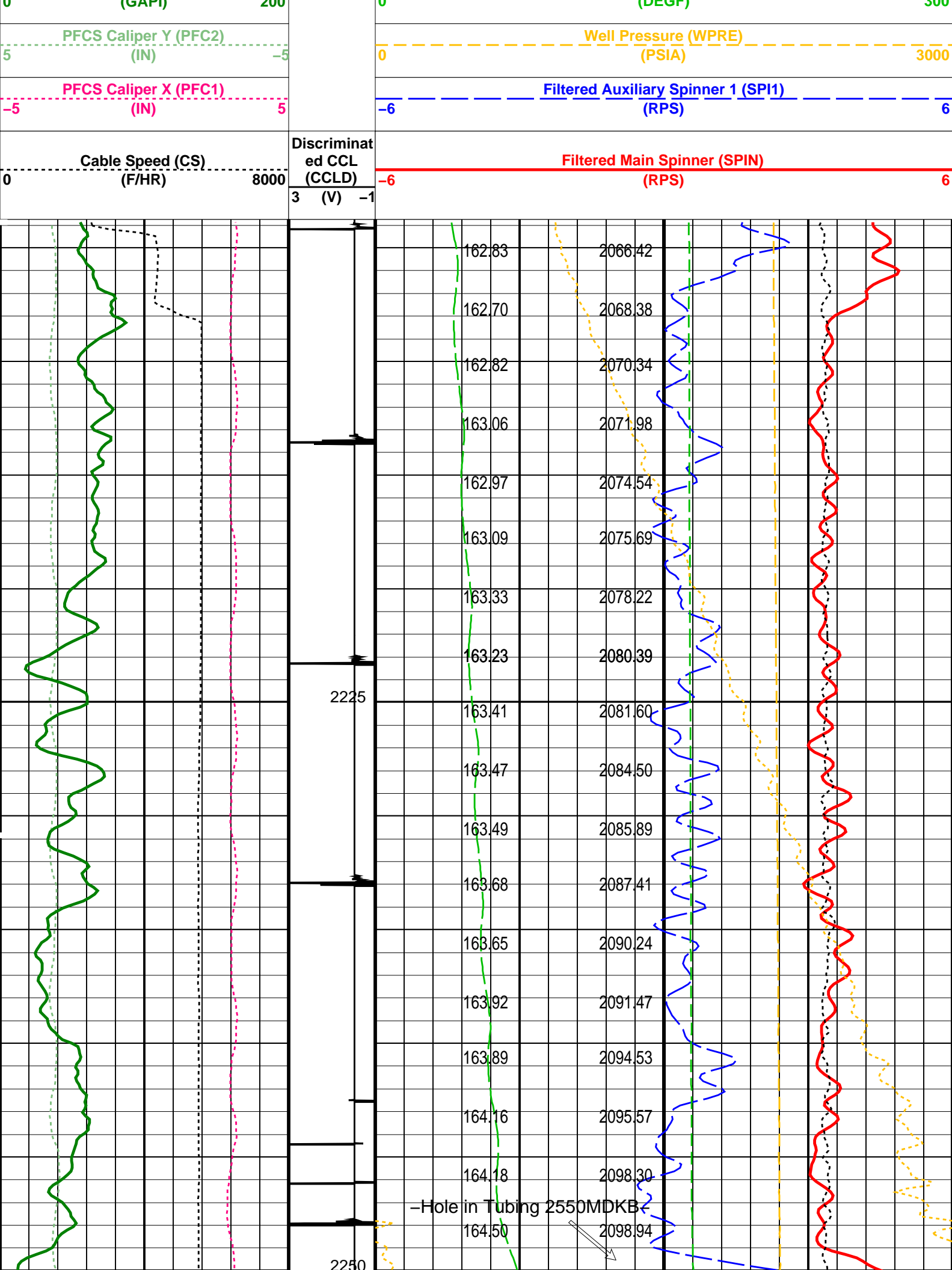
Log up

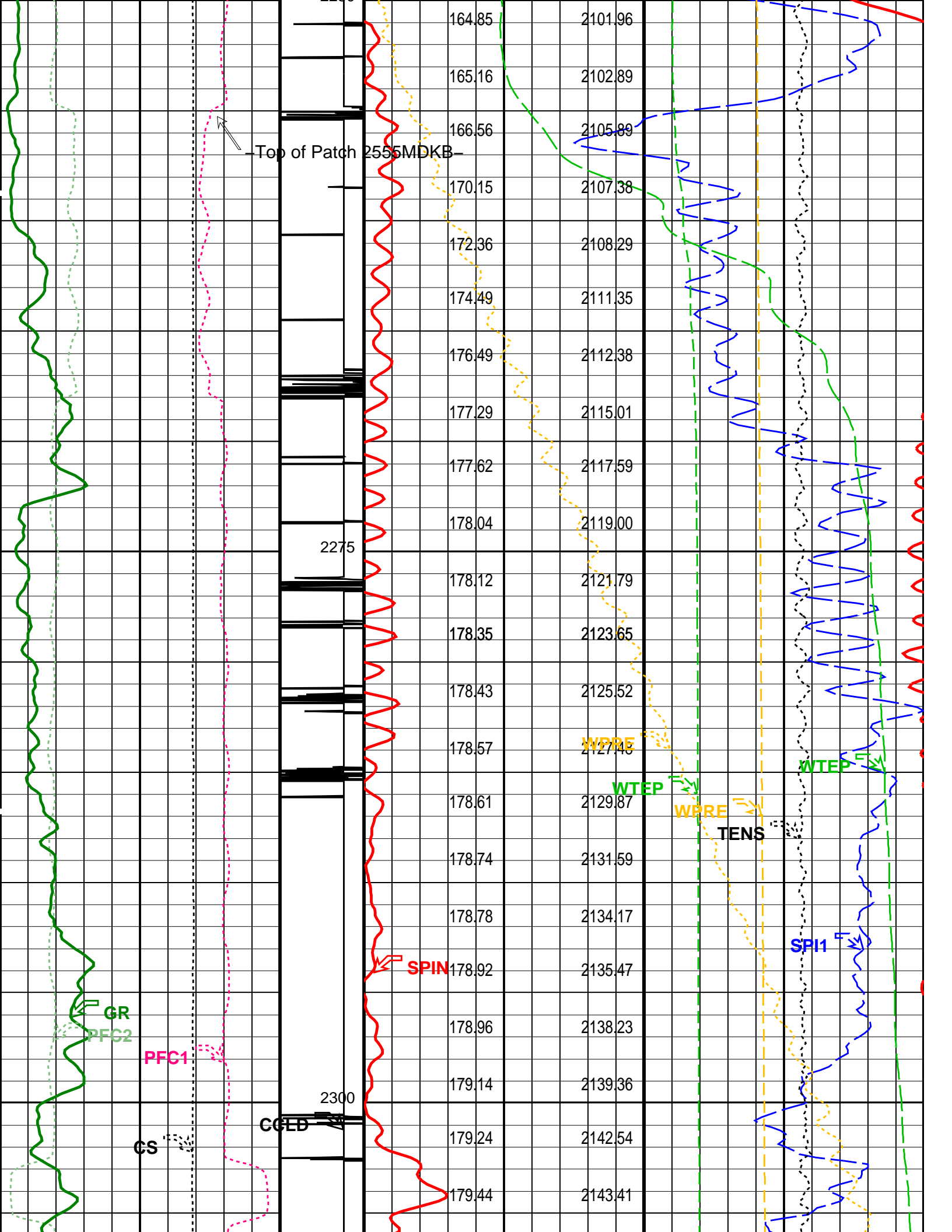
5400ft/h

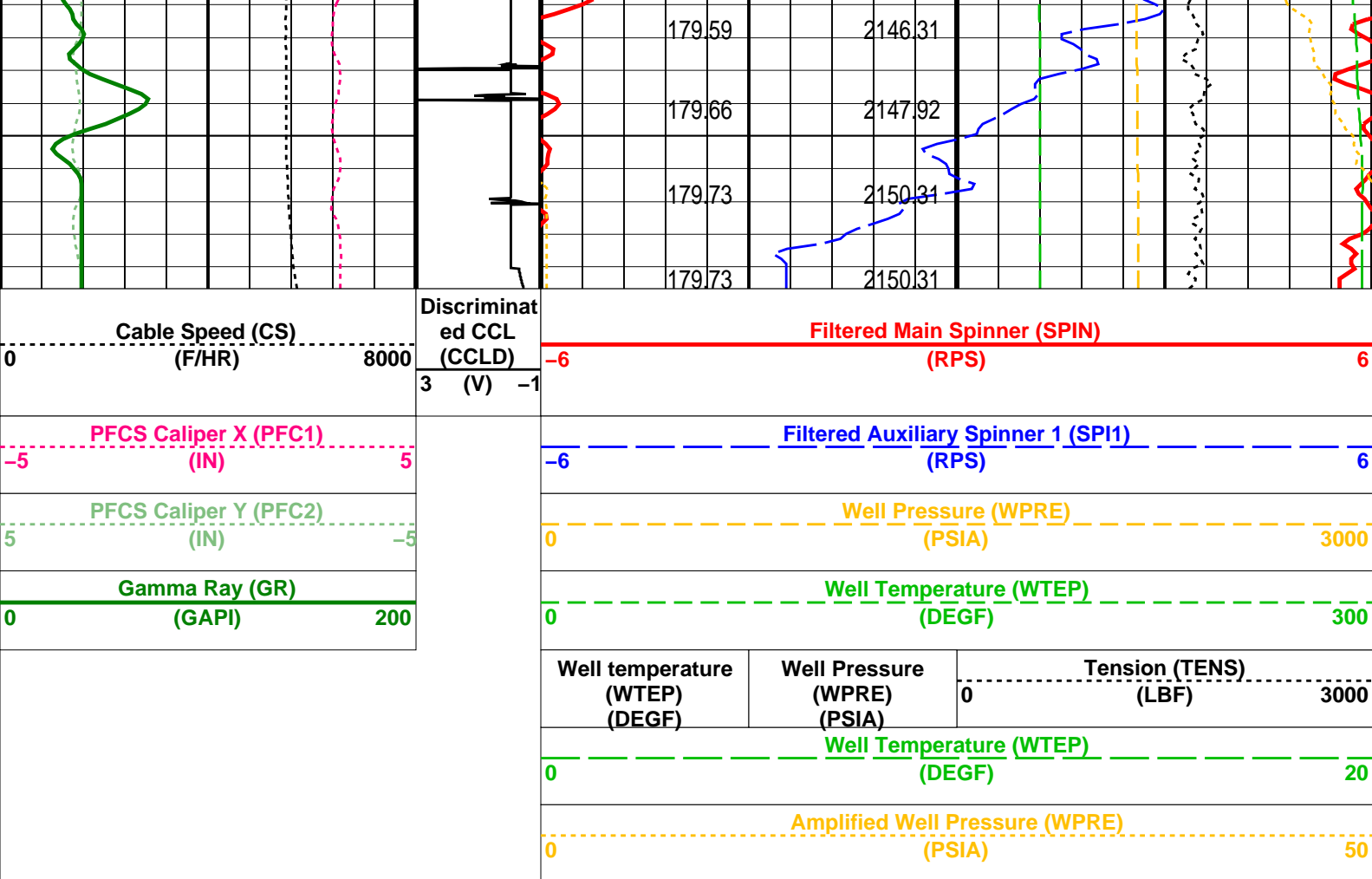
MAXIS Field Log

Company: Esso Australia Ltd.					Well: TNA A-17a	
Input DLIS Files						
DEFAULT	FCS_ILS_PSP_029PUP	FN:25	PRODUCER	07-Feb-2006 13:14	2314.7 M	2203.2 M
Output DLIS Files						
DEFAULT	FCS_ILS_PSP_037PUP	FN:33	PRODUCER	07-Feb-2006 20:08	2314.7 M	2203.7 M
OP System Version: 13C0-300						
MCM						
PFCS-A	13C0-300	PILS-A		13C0-300		
PSPT-B	13C0-300					

PIP SUMMARY									
Time Mark Every 60 S									
			Amplified Well Pressure (WPRES)						
			(PSIA)						
			0 50						
			Well Temperature (WTEP)						
			(DEGF)						
			0 20						
		Well temperature (WTEP) (DEGF)	Well Pressure (WPRES) (PSIA)	Tension (TENS)					
				0 (LBF) 3000					
Gamma Ray (GR)			Well Temperature (WTEP)						
			(DEGF)						
			0 200						







PIP SUMMARY

Time Mark Every 60 S

Format: PSP_SPIN Vertical Scale: 1:200

Graphics File Created: 07-Feb-2006 20:08

OP System Version: 13C0-300

MCM

PFCS-A 13C0-300 PILS-A 13C0-300
PSPT-B 13C0-300

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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
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
SPI1	Auxiliary Spinner 1 Flowmeter Sonde	PILS-A
SPIN	Main Spinner Flowmeter Sonde	PFCS-A_3.5
System and Miscellaneous		
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Input DLIS Files

DEFAULT FCS_ILS_PSP_029PUP FN:25 PRODUCER 07-Feb-2006 13:14 2314.7 M 2203.2 M

Output DLIS Files

DEFAULT FCS_ILS_PSP_037PUP FN:33 PRODUCER 07-Feb-2006 20:08

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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PSP Flow and caliper Tool Wellsite Calibration – PFCS Caliper Calibration

Before: 6–Feb–2006 16:50

PFCS CaliperX Small Ring	3.622	N/A	3.451	N/A	N/A	N/A	IN
PFCS CaliperX Large Ring	5.000	N/A	4.815	N/A	N/A	N/A	IN
PFCS CaliperY Small Ring	3.622	N/A	3.603	N/A	N/A	N/A	IN
PFCS CaliperY Large Ring	5.000	N/A	4.929	N/A	N/A	N/A	IN

Production Services Logging Platform Wellsite Calibration – Detector Calibration

Before: 6–Feb–2006 17:02

Gamma–Ray Jig–Bkg	125.0	N/A	115.4	N/A	N/A	N/A	GAPI
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PSP Flow and caliper Tool / Equipment Identification

Primary Equipment:





PFCS Cartridge	PFCC – A
PFCS Caliper	Cali –
PFCS Relative Bearing	Rela –
PFCS 3.5 Spinner Diameter	Spin –
PFCS Fluid Holdup Electric Probes	Hold –

Auxiliary Equipment:

PFCS Cartridge Housing	PFCH – A
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PSP Flow and caliper Tool Wellsite Calibration

PFCS Caliper Calibration

Phase	PFCS CaliperX Small Ring IN	Value	Phase	PFCS CaliperX Large Ring IN	Value	Phase	PFCS CaliperY Small Ring IN	Value
Before		3.451	Before		4.815	Before		3.603
N/A (Minimum)	3.622 (Nominal)	N/A (Maximum)	N/A (Minimum)	5.000 (Nominal)	N/A (Maximum)	N/A (Minimum)	3.622 (Nominal)	N/A (Maximum)
Phase	PFCS CaliperY Large Ring IN	Value						
Before		4.929						
N/A (Minimum)	5.000 (Nominal)	N/A (Maximum)						

Before: 6–Feb–2006 16:50

Production Services Logging Platform / Equipment Identification

Primary Equipment:

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

Auxiliary Equipment:

Production Services Logging Platform Wellsite Calibration							
Detector Calibration							
Phase	Gamma-Ray Background GAPI		Value	Phase	Gamma-Ray Jig-Bkg GAPI		Value
Before	<div><div></div></div>		6.431	Before	<div><div></div></div>		115.4
0 (Minimum)			30.00 (Nominal)	120.0 (Maximum)			
				110.0 (Minimum)			125.0 (Nominal)
				140.0 (Maximum)			
Before: 6-Feb-2006 17:02							

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

PBMS Gamma Ray

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

RESISTORS FOR GR SENSOR N.33066,TOOL PBMS-BA0818. SENSOR S/N:

33066

121198

12

6C7B

GR HV Rt	
	<div>Rt**0Rt**1</div>
Rt**0	<div><div>+.200000000000e+04+.332000000000e+04</div></div>

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

PBMS RTD Well Thermometer

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR RTD THERMOMETER PBMS-B.818 S/N:

818

200602

16

B5A6

WTemp Coeff

Tt**0

Tt**1

Tt**2

Tt**0

-.503480948665E+03

+.256945212560E+03

-.520657837297E+02

Tt**3

Tt**4

Tt**5

Tt**0

+.814992337556E+01

-.449846431124E+00

0.0

Client:

Field:

Well:

Run date:

Tool:

Sub Type:

Sensor:

PSP

PBMS

CQG

PBMS Quartz Gauge type F

Sonde Serial NB

Sensor Serial NB

Calib Date ddmmyy

Matrix Size

Coeff CRC

COEFFICIENTS FOR CQG PBMS-B.818 S/N:

818

200602

66

7A84

Pres Coeff

Fb**0

Fb**1

Fb**2

Fc**0

+.695938574212E+04

+.182539955930E-01

-.359154837704E-06

Fc**1

-.105291628187E+01

-.126401060299E-04

-.979406719269E-10

Fc**2

+.100753854959E-05

+.477049804669E-10

+.110335143312E-14

Fc**3

+.395382698806E-11

+.314778129978E-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

-.809245086181E-10

-.111835337565E-14

-.502462820660E-19

Fc**1

+.136628536954E-15

+.315291602467E-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 818
Calib Date ddmmyy 200602
Matrix Size 66
Coeff CRC 59A1

Temp Coeff

	Fc**0	Fc**1	Fc**2
Fb**0	+1.10839792701E+03	-.323005293728E-03	+7.55069993532E-08
Fb**1	-.600525206062E-02	+1.183884956997E-07	+9.33435560854E-13
Fb**2	-.308226156102E-07	+2.56346973103E-12	-.229411734336E-17
Fb**3	-.878098011596E-12	+8.91595282110E-17	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	+3.98844068662E-13	-.210661397195E-16	-.133520461817E-20
Fb**1	-.374426288501E-17	+3.85080947848E-22	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 818
Calib Date ddmmyy 200602
Matrix Size 16
Coeff CRC A86D

Clock Freq Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+3.10739038333E+05	+6.65122414534E-03	+1.101145789813E-05
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5

(Fb'-Fc')**0	-.631768498034E-10	-.360569040810E-15	-.206730577746E-20
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PBMS Quartz Gauge type F

Sonde Serial NB :

Sensor Serial NB 818

Calib Date ddmmyy 200602

Matrix Size 16

Coeff CRC FEC1

Clock Temp Coeff

	(Fb'-Fc')**0	(Fb'-Fc')**1	(Fb'-Fc')**2
(Fb'-Fc')**0	+.124223501726E+03	-.549836300657E-02	-.350397469299E-07
	(Fb'-Fc')**3	(Fb'-Fc')**4	(Fb'-Fc')**5
(Fb'-Fc')**0	-.140939369077E-11	+.252361415442E-15	-.100871810102E-19

Company: Esso Australia Ltd.



Well: TNA A-17a

Field: Tuna

Rig: Prod 2 / ISS CWU

Country: Australia

PBMS-GR-CCL

PILS-PFCS

Spinner Survey