

Company: Esso Australia Pty Ltd.

Well: A-8

Field: Flounder

Rig: Crane / Prod4

Country: Australia

2-1/8" Phased Powerjet MWPT
Perforation Record
7 5/8" Posiset Plug Setting Record

Rig: Crane / Prod4
Field: Flounder
Location: Gippsland
Well: A-8
Company: Esso Australia Pty Ltd.

LOCATION			
Gippsland	Elev.:	K.B.	40.80 m
Basin		G.L.	-93.00 m
Bass Strait		D.F.	40.80 m
Permanent Datum:	M.S.L	Elev.:	0.00 m
Log Measured From:	K.B	40.80 m	above Perm. Datum
Drilling Measured From:	K.B		

State: Victoria	Max. Well Deviation 29 deg	Longitude 148° 26' 21.748"E	Latitude 38° 18' 39.245"S
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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

PVT DATA

Oil Density	
Water Salinity	
Gas Gravity	
Bo	
Bw	
1/Bg	
Bubble Point Pressure	
Bubble Point Temperature	
Solution GOR	
Maximum Deviation	29 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

Maximum Recorded Temperatures

Logger On Bottom

Unit Number

Recorded By

Witnessed By

Date Created: 10-SEP-2009 16:19:58

Logging Cable

Type:	2-32ZT
Serial Number:	207505
Length:	6421 M
<hr/>	
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	ExxonMobil Petrophysical Analysis
Reference Log Run Number:	
Reference Log Date:	8-sep-2008
Subsequent Trip Down Log Correction:	

1. IDW used as primary depth control
2. Z-Chart used as back-up
- 3.
- 4.
5. All depths are drillers depths
- 6.

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 SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2


















After firing the gun 3261 psia, 234 DegF.

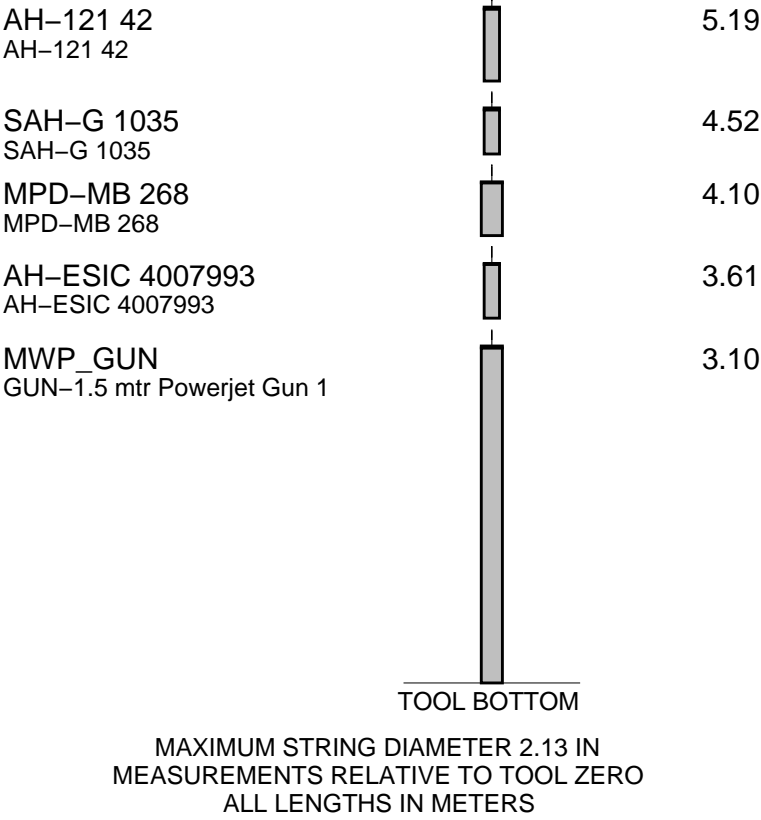
7 5/8" Mpbt plug was then set at 2656m MDKB, followed by water and cement dump runs.

HUD = 2674.6m MDKB.

Crew : Gary Martin & Chris Shiells.

RUN 1			RUN 2		
SERVICE ORDER #:		AUSL08602233	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		1195 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MWPM-3000			MPBM		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
AH-SWBS 784		13.05	AH-SWBS 784		14.38
AH-SWBS 784			AH-SWBS 784		
AH-SWBS 785		12.36	AH-SWBS 785		13.70
AH-SWBS 785			AH-SWBS 785		
AH-SWBS 786		11.68	AH-SWBS 786		13.01
AH-SWBS 786			AH-SWBS 786		
AH-SWBS 787		10.99	AH-SWBS 787		12.33
AH-SWBS 787			AH-SWBS 787		
AH-SWBS 788		10.31	AH-SWBS 788		11.64
AH-SWBS 788			AH-SWBS 788		
MH-SWHS 759		9.62	MH-SWHS 759		10.96
MH-SWHS 759			MH-SWHS 759		
AH-124 7002		9.14	CCL-L 9851		10.47
MWGT-AA		8.99	CCL-L 9851		
MWPG-AA 24029			MPSU-CA 1102		10.02
MWGH-AA 69		2.41	MPSU-CA 1102		
MWPT-CA BLK2		8.01			
MWPH-AA 74					
MWPS-AA 74					
<div><div>CCL</div><div>SMWP Pres</div><div>SMWP Temp</div><div>Tension</div></div> <div>TOOL ZERO</div>			<div><div>CCL</div><div>Cable Cur</div><div>Head Volt</div><div>Tension</div></div> <div>TOOL ZERO</div>		



Client: Esss Australia Pty Ltd

Well: FLA A8

Field: Bass Strait

State: Victoria

Country: Australia

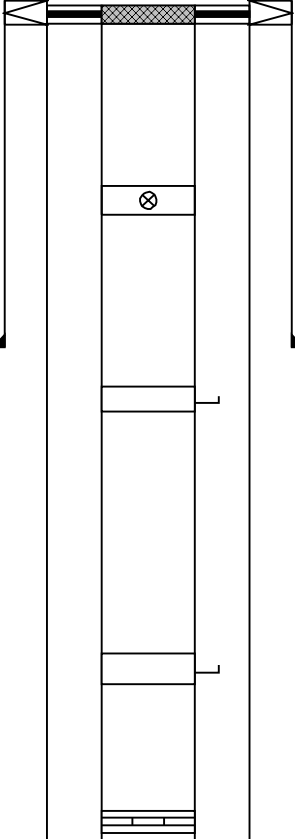
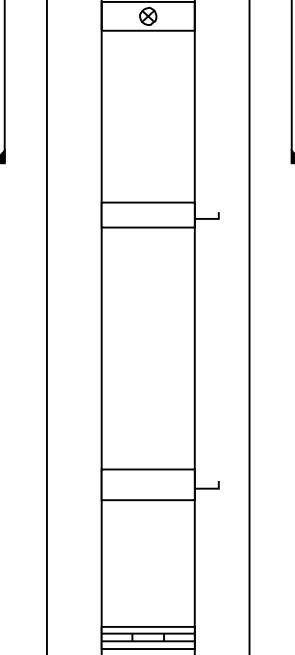
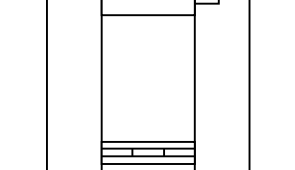
Rig Name: Prod 4 / Crane

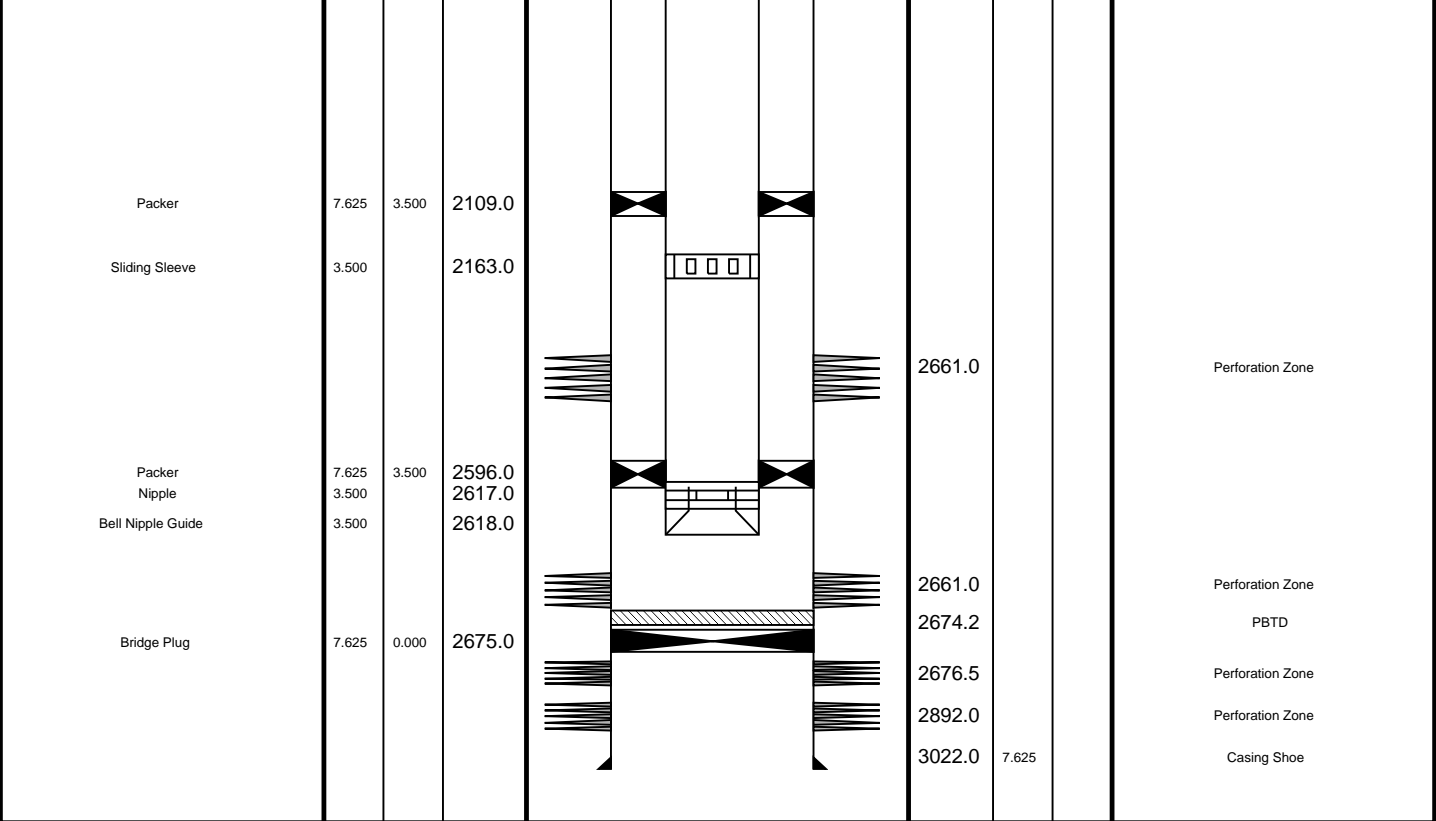
Reference Datum: Mean Sea Level

Elevation: -304.5 m

Drawing Date:

API #:

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Tubing	3.500		21.7		19.6	10.750	7.625	Casing String
Tubing Hanger	7.625	3.500	20.0		19.6	10.750	7.625	Liner Hanger
Shutin Valve	3.500		443.0		649.0	10.750		Casing Shoe
Gas Lift Mandrel	3.500		808.0					
Gas Lift Mandrel	3.500		1319.0					
Nipple	3.500		1615.0					

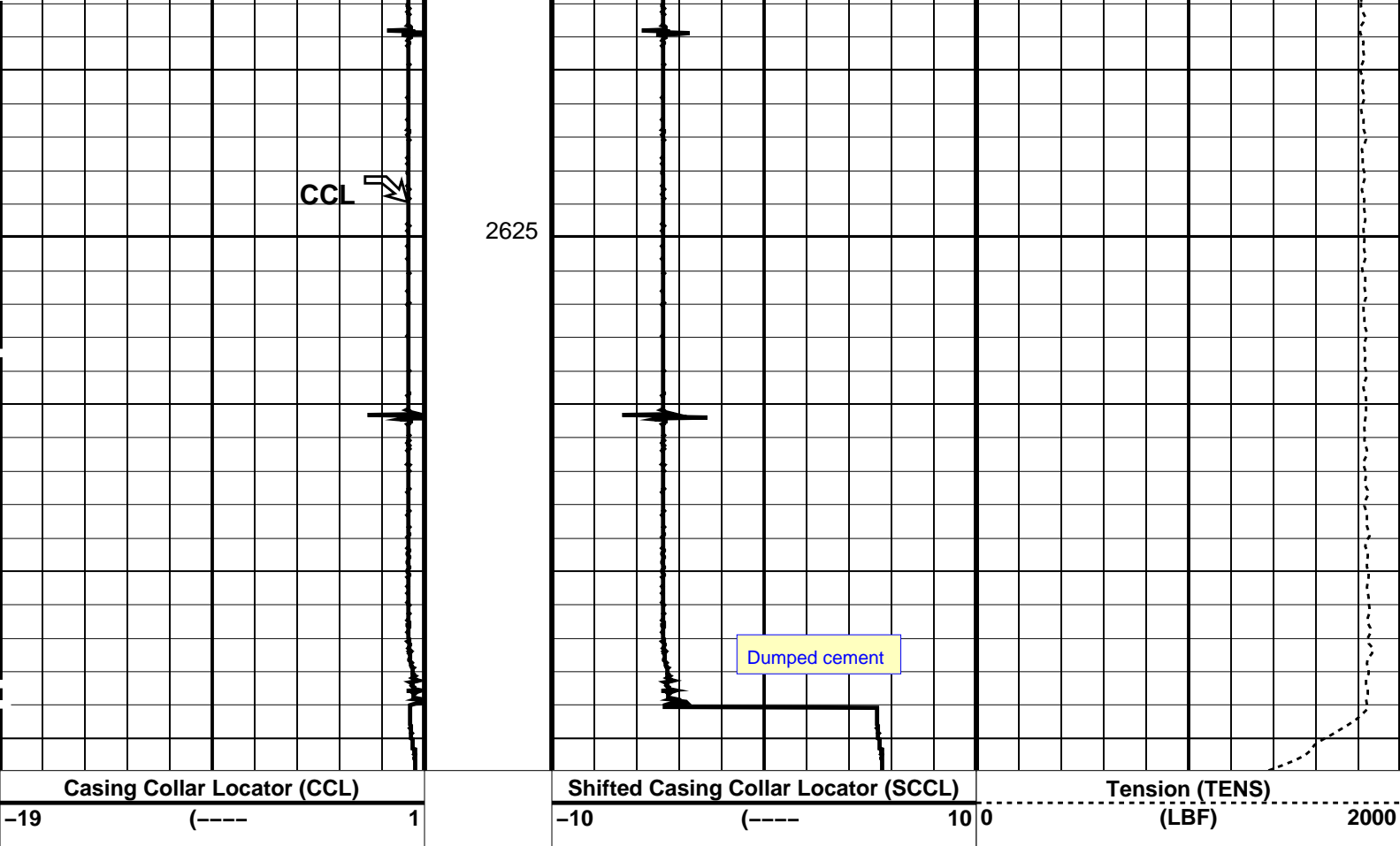


Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Before Calibration Completed	8-Sep-2009 13:53			
MWPT cal				
After Calibration Completed	8-Sep-2009 13:57			
MWPT cal				
Log Pass (up)	9-Sep-2009 17:57	000:08	2665.3 - 2613.5	PERFO_039LUP
Gun Correlation pass				
Log Pass (up)	9-Sep-2009 18:16	000:44	2664.9 - 2608.5	PERFO_041LUP
Gun Shooting pass				
Station Log	9-Sep-2009 18:20	000:37	2639.5	PERFO_042LTP
Gun Draw down station log				
Log Pass (up)	10-Sep-2009 15:13	000:07	2672.8 - 2608.5	PERFO_052LUP
Dummy plug Correlation				
Simulated Log	11-Sep-2009 6:47	000:01		CCL_063LUP
OP checked MPBT				



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	
CCLT	CCL reset delay	12 IN
	CCL Detection Level	0.3 V
	System and Miscellaneous	
DO	Depth Offset for Playback	-0.2 M
PP	Playback Processing	NORMAL

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 11-Sep-2009 14:58

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Input DLIS Files

DEFAULT PERFO_092LUP FN:91 PRODUCER 11-Sep-2009 14:12 2641.1 M 2597.2 M

Output DLIS Files

DEFAULT PERFO_094PUP FN:93 PRODUCER 11-Sep-2009 14:58

Schlumberger

**2 1/8" Dump Bailer
Water dumping**

Input DLIS Files

DEFAULT PERFO_080LUP FN:79 PRODUCER 11-Sep-2009 12:01 2646.7 M 2602.1 M

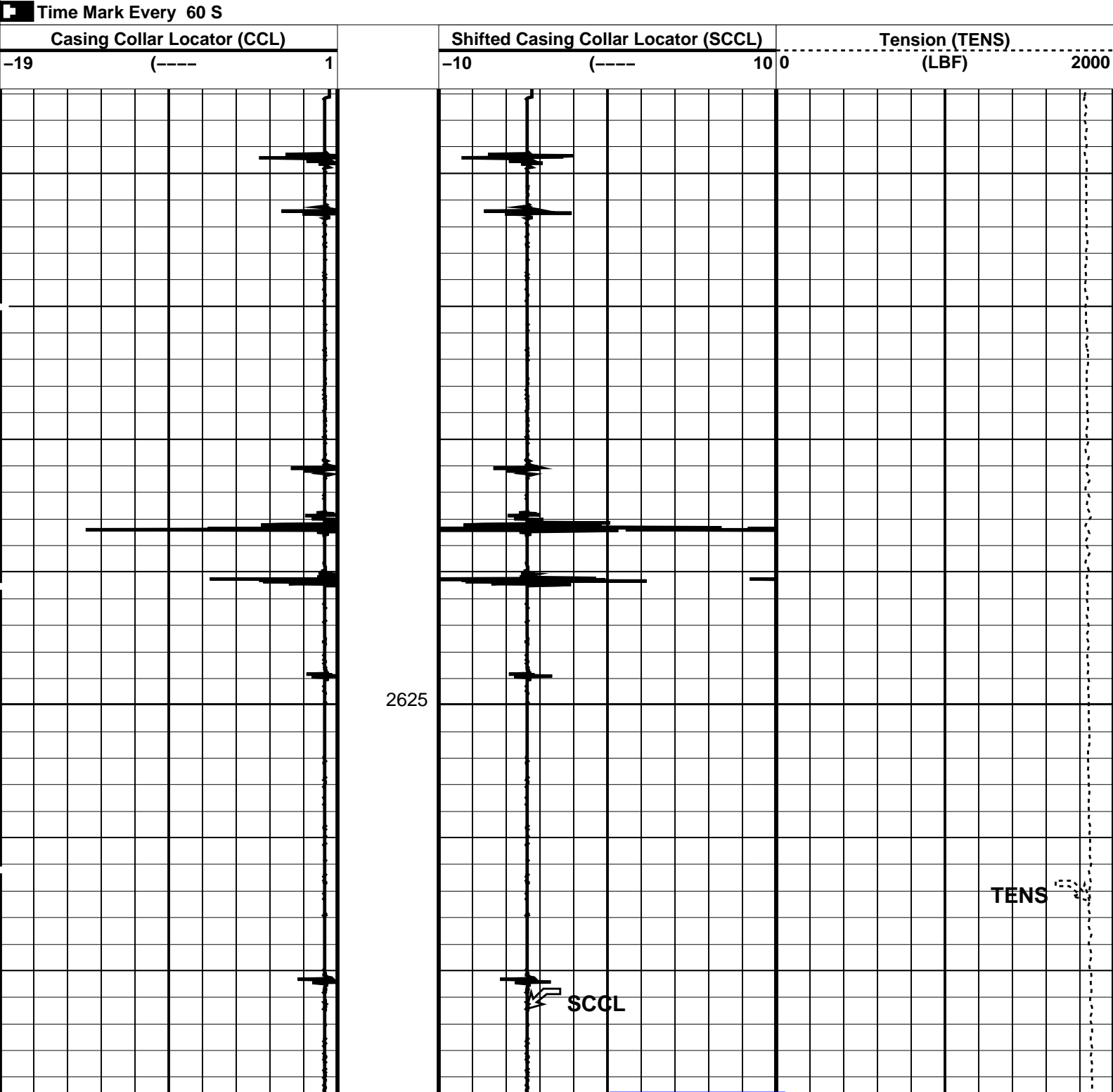
Output DLIS Files

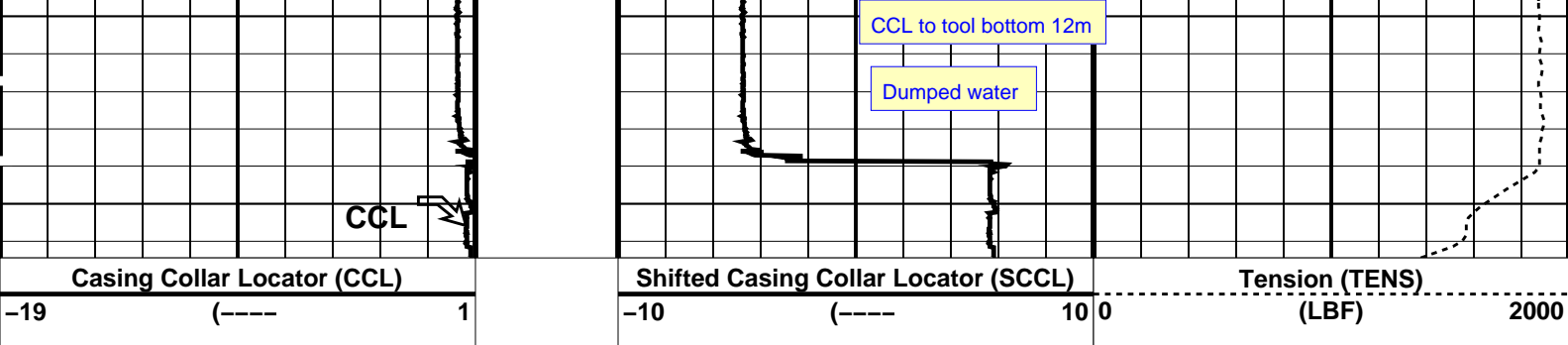
DEFAULT PERFO_085PUP FN:84 PRODUCER 11-Sep-2009 12:11 2646.4 M 2601.8 M

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	
DO	System and Miscellaneous	-0.3 M
PP	Depth Offset for Playback	NORMAL
	Playback Processing	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 11-Sep-2009 12:11

OP System Version: 17C0-154

SHM_GUN	17C0-154	CCL-L	17C0-154
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Input DLIS Files

DEFAULT	PERFO_080LUP	FN:79	PRODUCER	11-Sep-2009 12:01	2646.7 M	2602.1 M
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Output DLIS Files

DEFAULT	PERFO_085PUP	FN:84	PRODUCER	11-Sep-2009 12:11		
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Schlumberger

7 5/8" MPBT Posiset Plug
Log off setting depth

MAXIS Field Log

Output DLIS Files

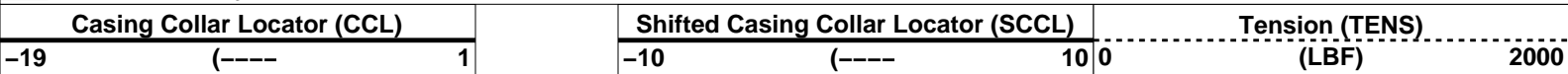
DEFAULT	CCL_072LUP	FN:71	PRODUCER	11-Sep-2009 09:26	2648.9 M	2605.1 M
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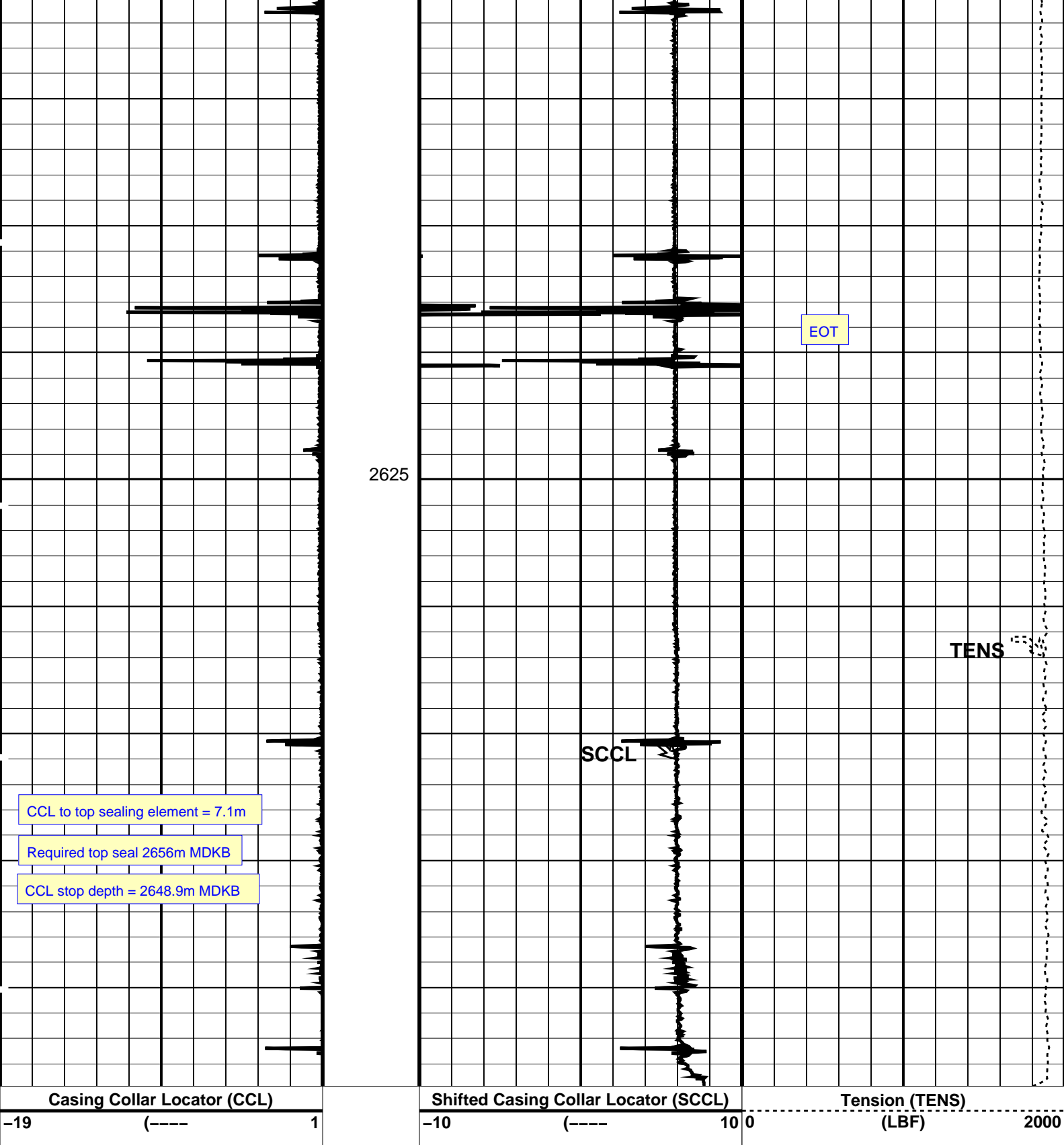
OP System Version: 17C0-154

MPEX-CA	17C0-154	MPSU-CA	17C0-154
CCL-L	17C0-154		

PIP SUMMARY

Time Mark Every 60 S





PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
CCL-L: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 11-Sep-2009 09:26

Schlumberger

7 5/8" MBPT Posiset Plug
Setting Record

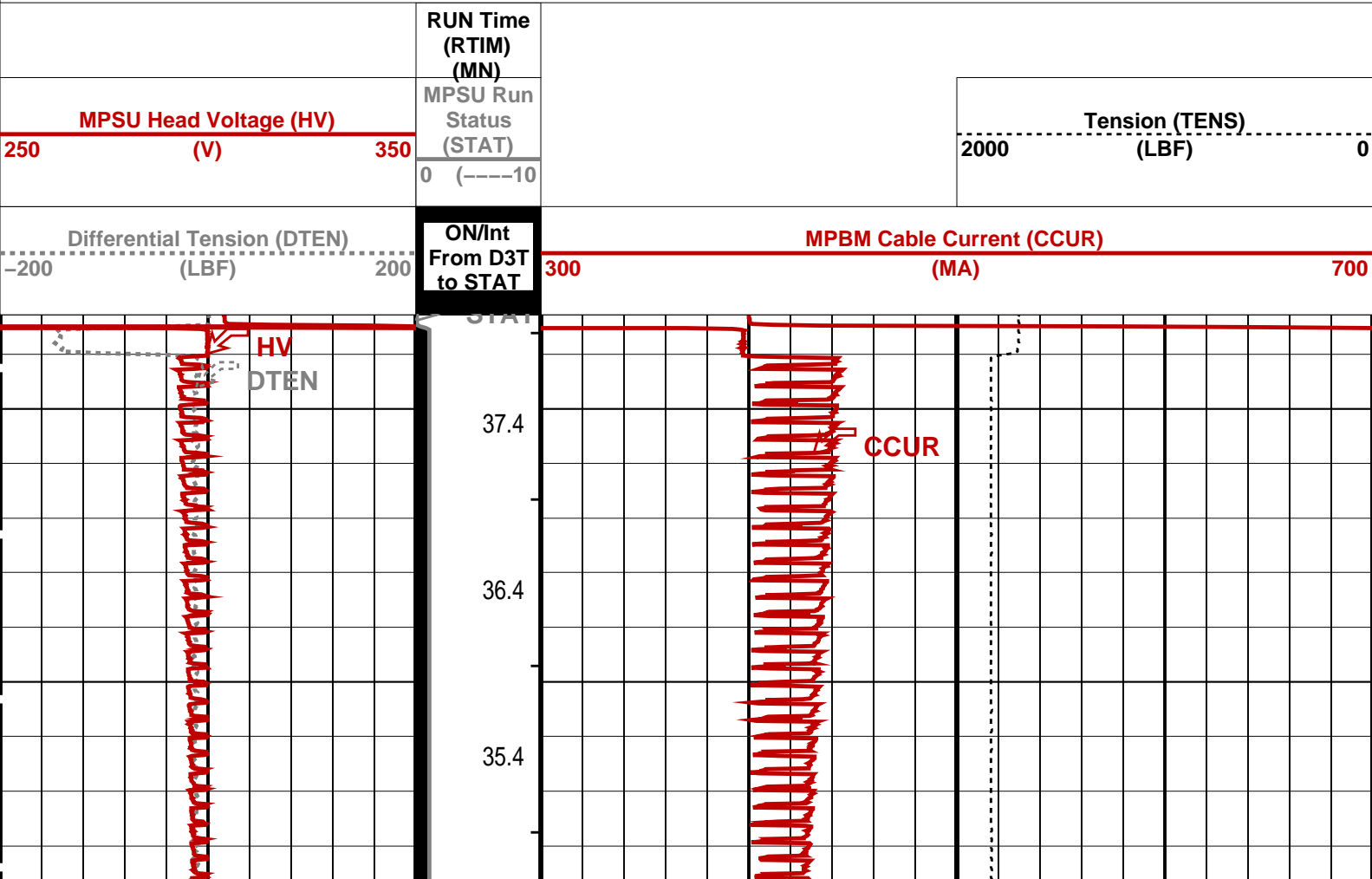
MAXIS Field Log

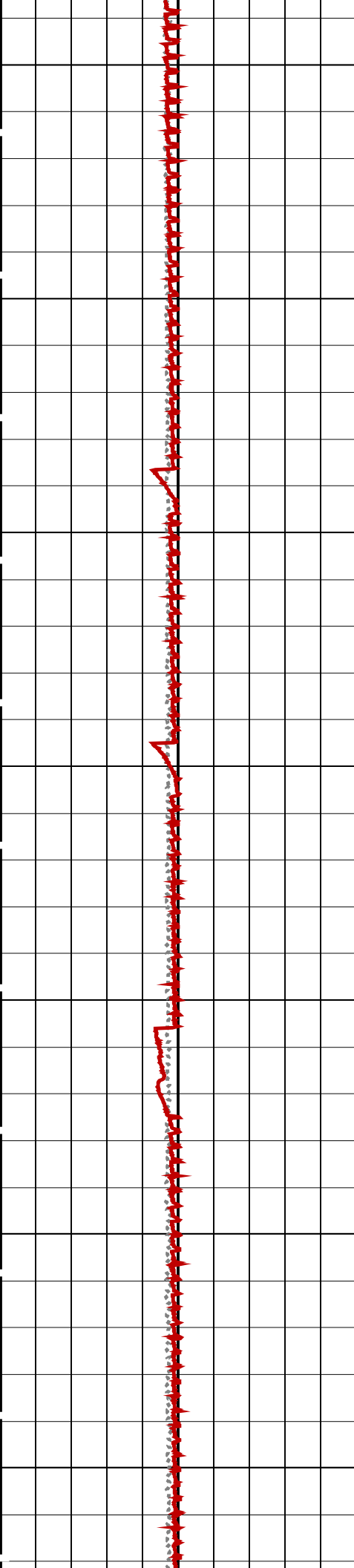
PIP SUMMARY

→ MPSU Run Time Every 1 MN

→ MPSU Run Time Every 10 MN

Time Mark Every 60 S





34.4

33.4

32.4

31.4

30.4

29.4

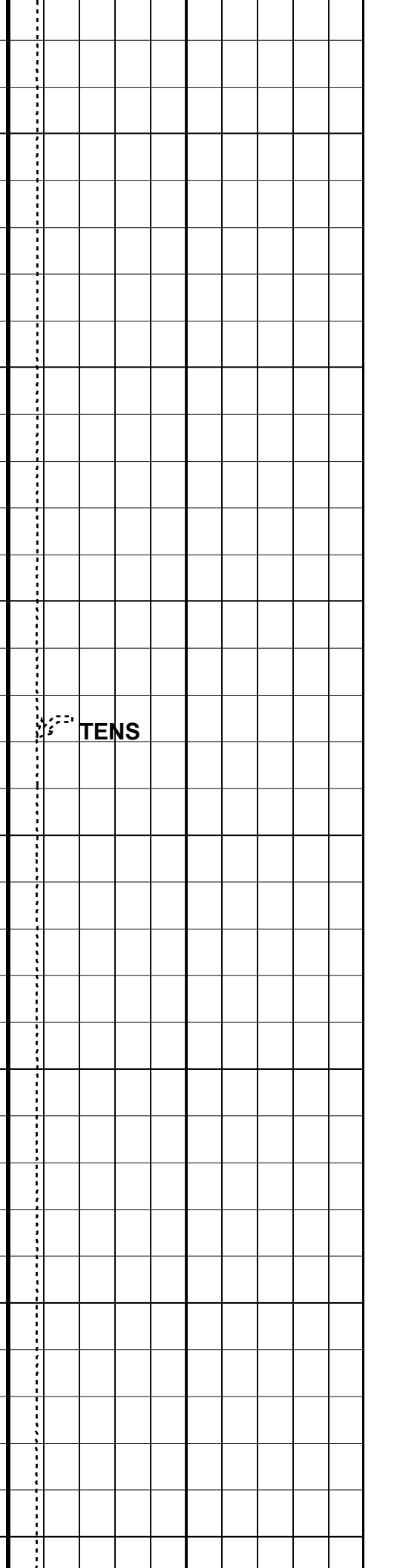
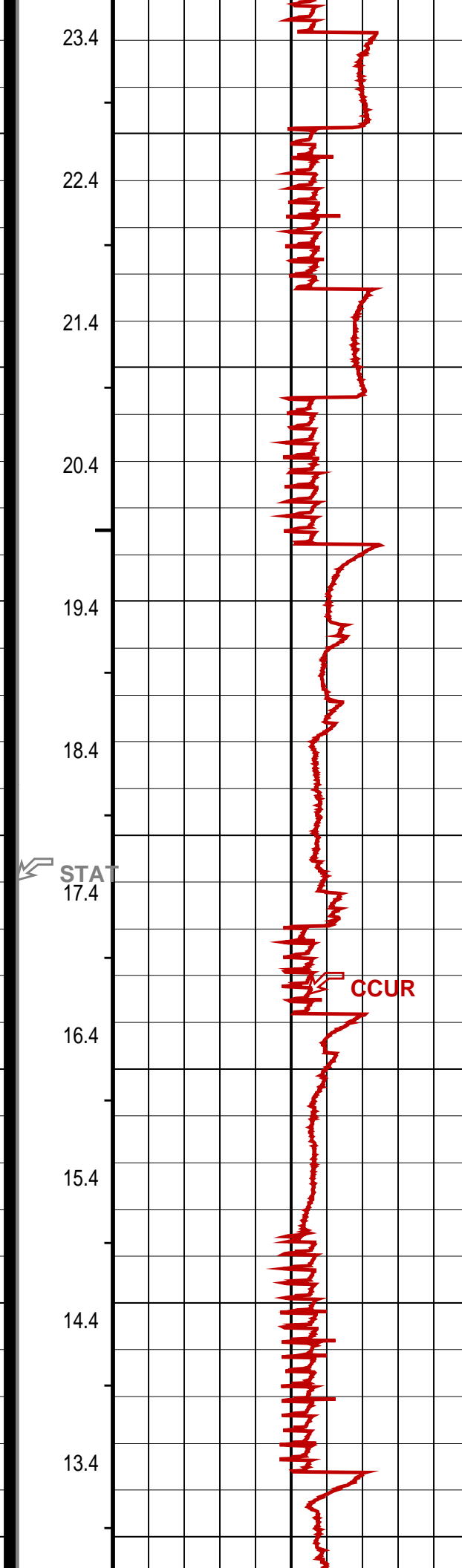
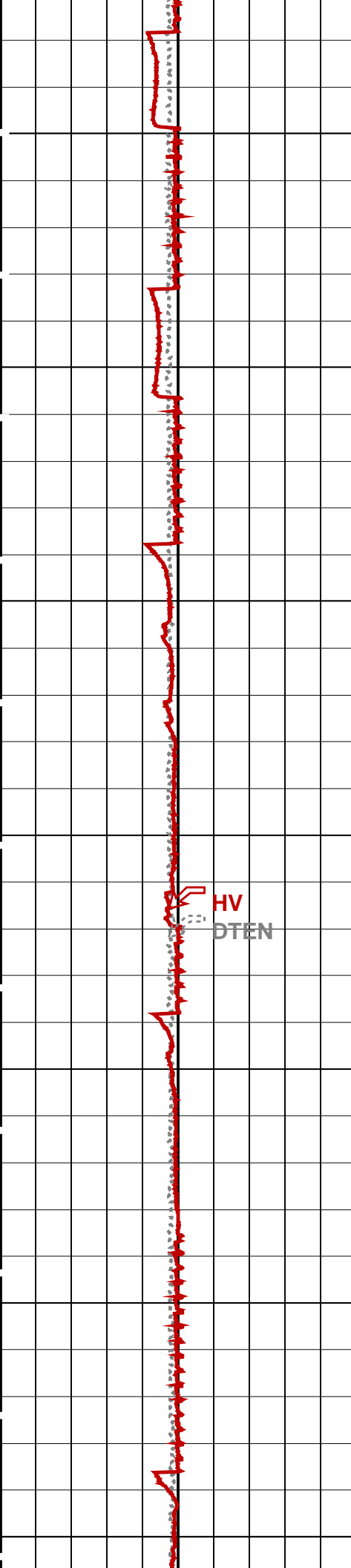
28.4

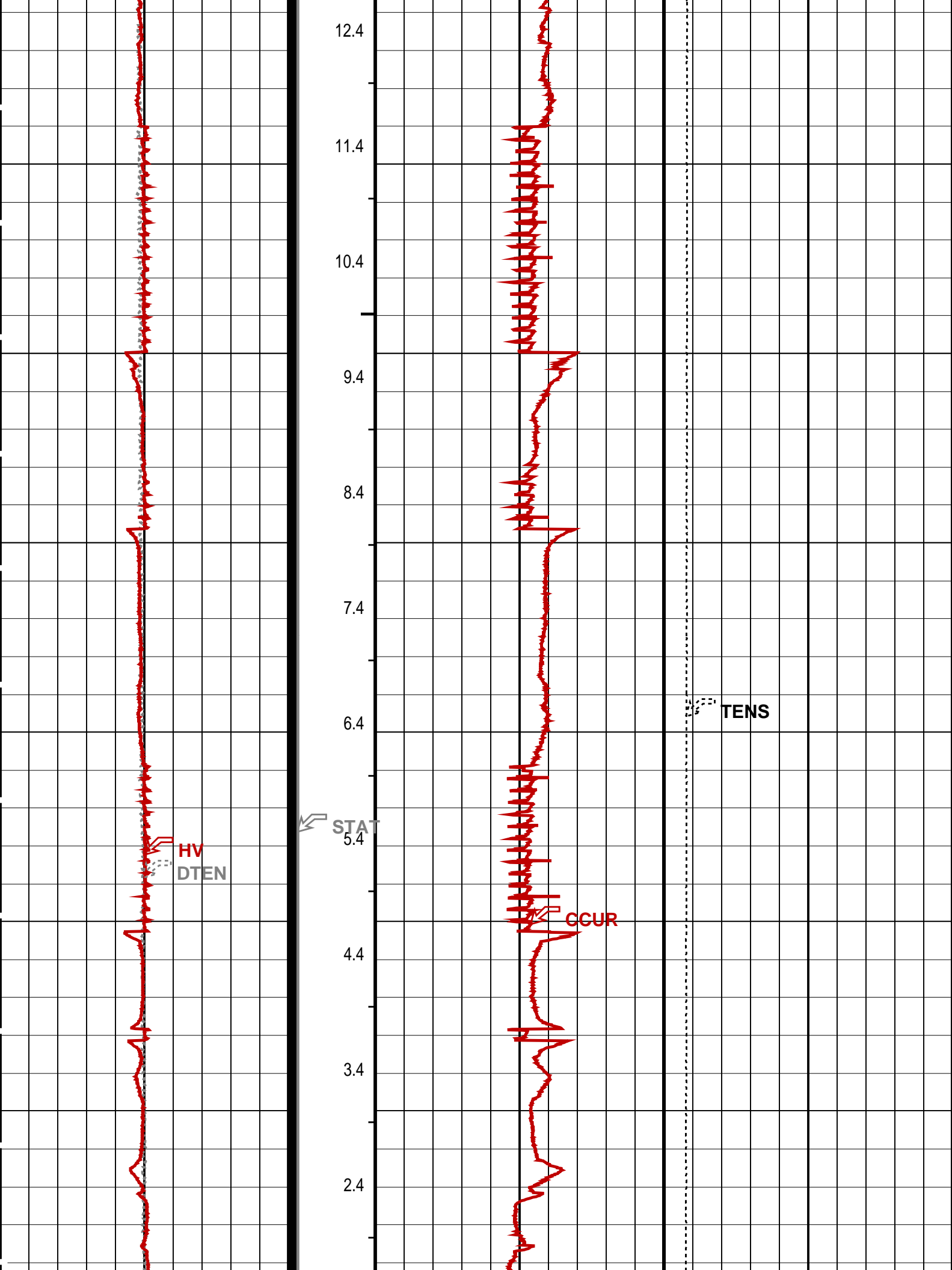
27.4

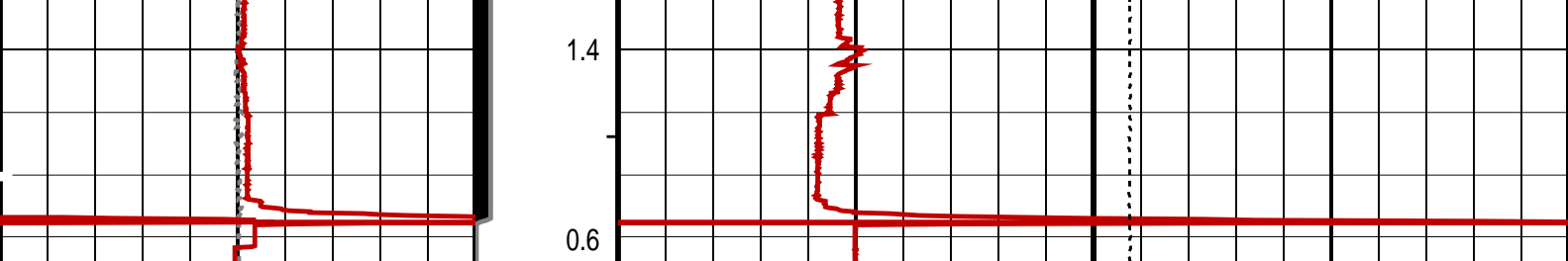
26.4

25.4

24.4







Differential Tension (DTEN) (LBF)	ON/Int From D3T to STAT	MPBM Cable Current (CCUR) (MA)
-200 200	300 700	
MPSU Head Voltage (HV) (V)	MPSU Run Status (STAT)	Tension (TENS) (LBF)
250 350	0 (----10)	2000 0
	RUN Time (RTIM) (MN)	

PIP SUMMARY

→ MPSU Run Time Every 1 MN

→ MPSU Run Time Every 10 MN

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
IPUMP	MPSU-CA: MECHANICAL PLUGBACK SETTING UNIT Intensifier Pump	TRUE
Format: MPBT Vertical Scale: 1:600		Graphics File Created: 11-Sep-2009 08:48

OP System Version: 17C0-154			
MPEX-CA	17C0-154	MPSU-CA	17C0-154
CCL-L	17C0-154		

Output DLIS Files			
DEFAULT	CCL_071LUP	FN:70 PRODUCER	11-Sep-2009 08:48

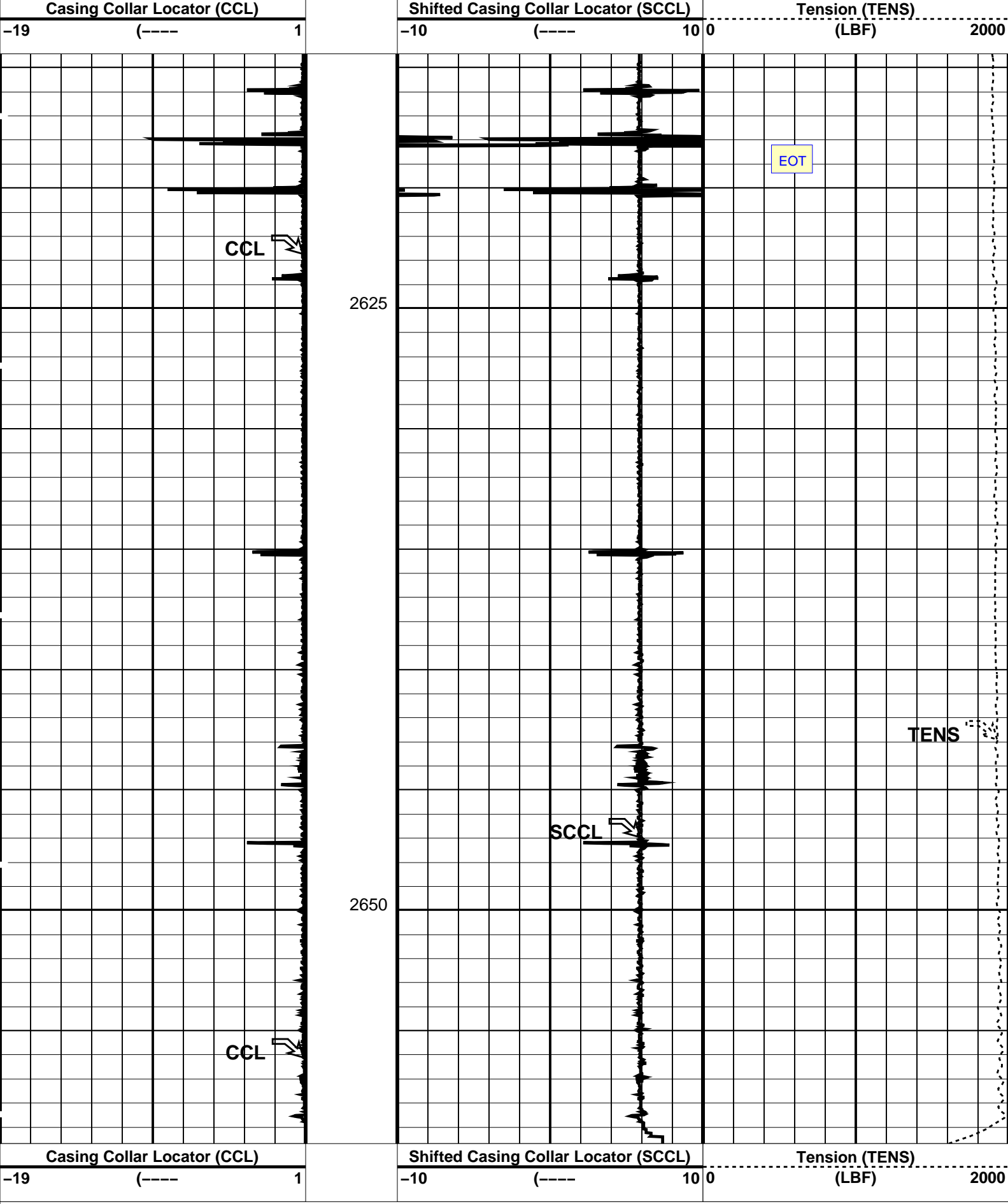
7 5/8" MBPT Posiset Plug
Correlation Pass

MAXIS Field Log

Output DLIS Files			
DEFAULT	CCL_069LUP	FN:68 PRODUCER	11-Sep-2009 08:37
OP System Version: 17C0-154			
MPEX-CA	17C0-154	MPSU-CA	17C0-154
CCL-L	17C0-154		

PIP SUMMARY

Time Mark Every 60 S



PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
CCL	Casing Collar Locator	

CCLD
CCLT

CCL-L: Casing Collar Locator
CCL reset delay
CCL Detection Level

12
0.3

IN
V

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 11-Sep-2009 08:37

OP System Version: 17C0-154

MPEX-CA 17C0-154 MPSU-CA 17C0-154
CCL-L 17C0-154

Output DLIS Files

DEFAULT CCL_069LUP FN:68 PRODUCER 11-Sep-2009 08:37

Schlumberger

MPBT Dummy Run
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: A-8

Input DLIS Files

DEFAULT PERFO_052LUP FN:51 PRODUCER 10-Sep-2009 15:13 2672.8 M 2608.5 M

Output DLIS Files

DEFAULT PERFO_056PUP FN:55 PRODUCER 10-Sep-2009 15:51 2672.5 M 2605.7 M

OP System Version: 17C0-154

MWPT-CA 17C0-154 MWGT-AA 17C0-154

PIP SUMMARY

Time Mark Every 60 S

Temperature (TEMP_MWPT) (DEGF)

CCL From CCL to T1

Gamma Ray (GR) (GAPI)

Casing Collar Locator (CCL)

Pressure (SGP) (PSIA)

Tension (TENS) (LBF)

Temperature (TEMP_MWPT) (DEGF)

Strain Gauge Pressure (SGP) (PSIA)

Temperature (TEMP_MWPT) (DEGF)

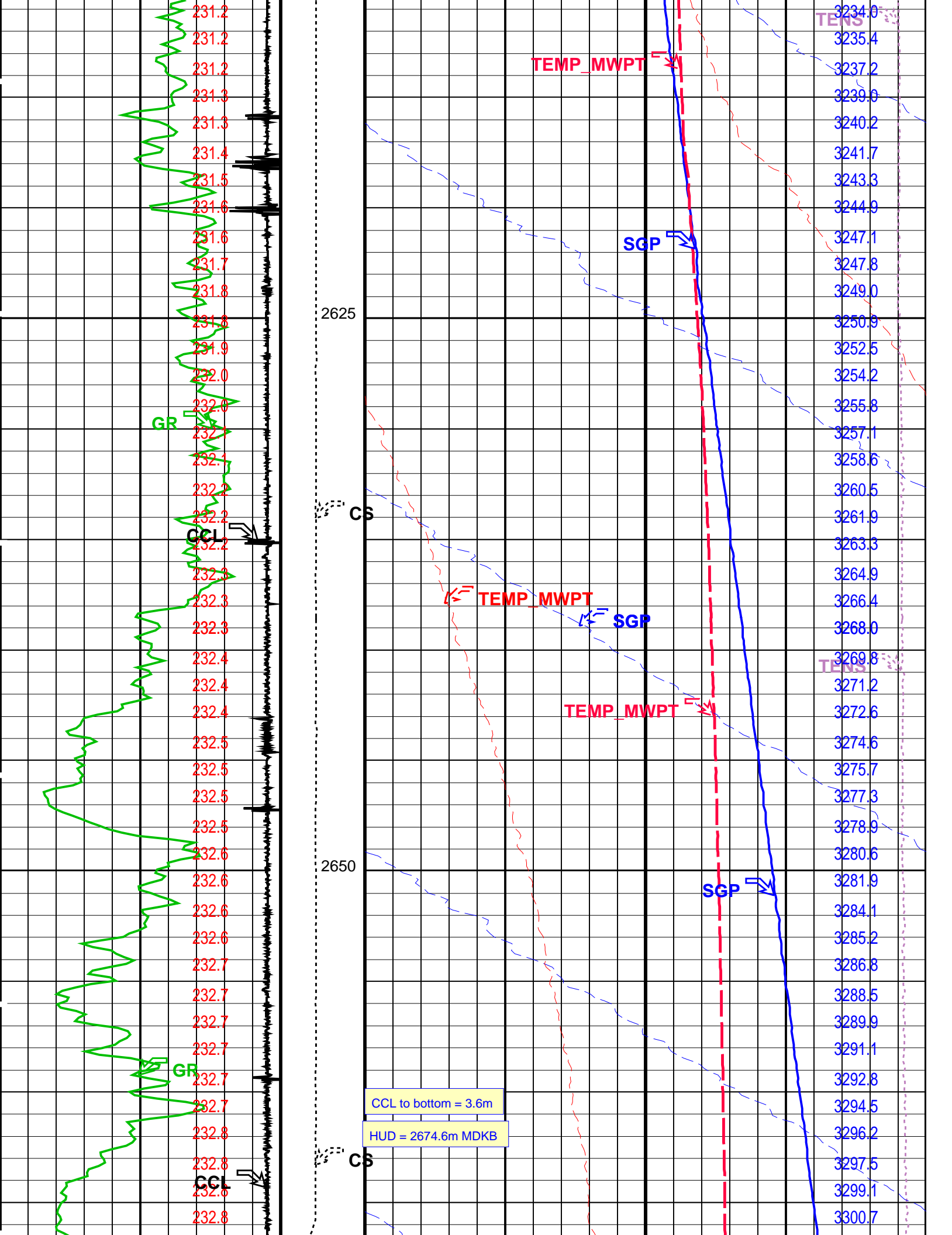
Strain Gauge Pressure (SGP) (PSIA)

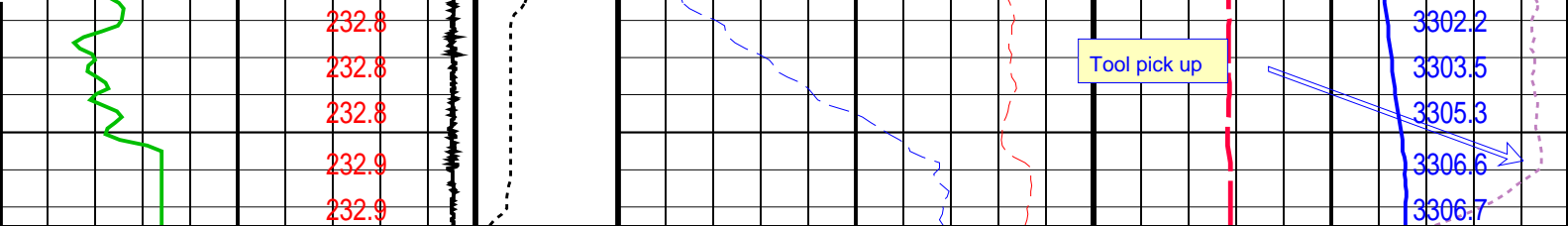
Cable Speed (CS) (F/HR)

TEMP_MWPT

SGP

0	150	200	220	3100	3350
231.2					3233.2
231.2					3233.2
231.2					3233.2
231.2					3233.2





Casing Collar Locator (CCL)		Cable Speed (CS) (F/HR)	Strain Gauge Pressure (SGP)	
-19	(----		3100	(PSIA)
1				3350
0			0	20
Gamma Ray (GR)		Cable Speed (CS) (F/HR)	Temperature (TEMP_MWPT)	
0	(GAPI)		200	(DEGF)
150				220
			0	2
CCL From CCL to T1		Cable Speed (CS) (F/HR)	Strain Gauge Pressure (SGP)	
			0	(PSIA)
				20
			0	2
Temperature (TEMP_MWPT) (DEGF)		Cable Speed (CS) (F/HR)	Temperature (TEMP_MWPT)	
			0	(DEGF)
				2
			0	2
		Cable Speed (CS) (F/HR)	Tension (TENS)	
			0	(LBF)
				2000
				2000
		Cable Speed (CS) (F/HR)	Pressure (SGP)	
				(PSIA)
				2000
				2000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL		
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0 DEG
FLD	Flow Line Density	1 G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0 DEGC
System and Miscellaneous		
DO	Depth Offset for Playback	-0.3 M
PP	Playback Processing	NORMAL

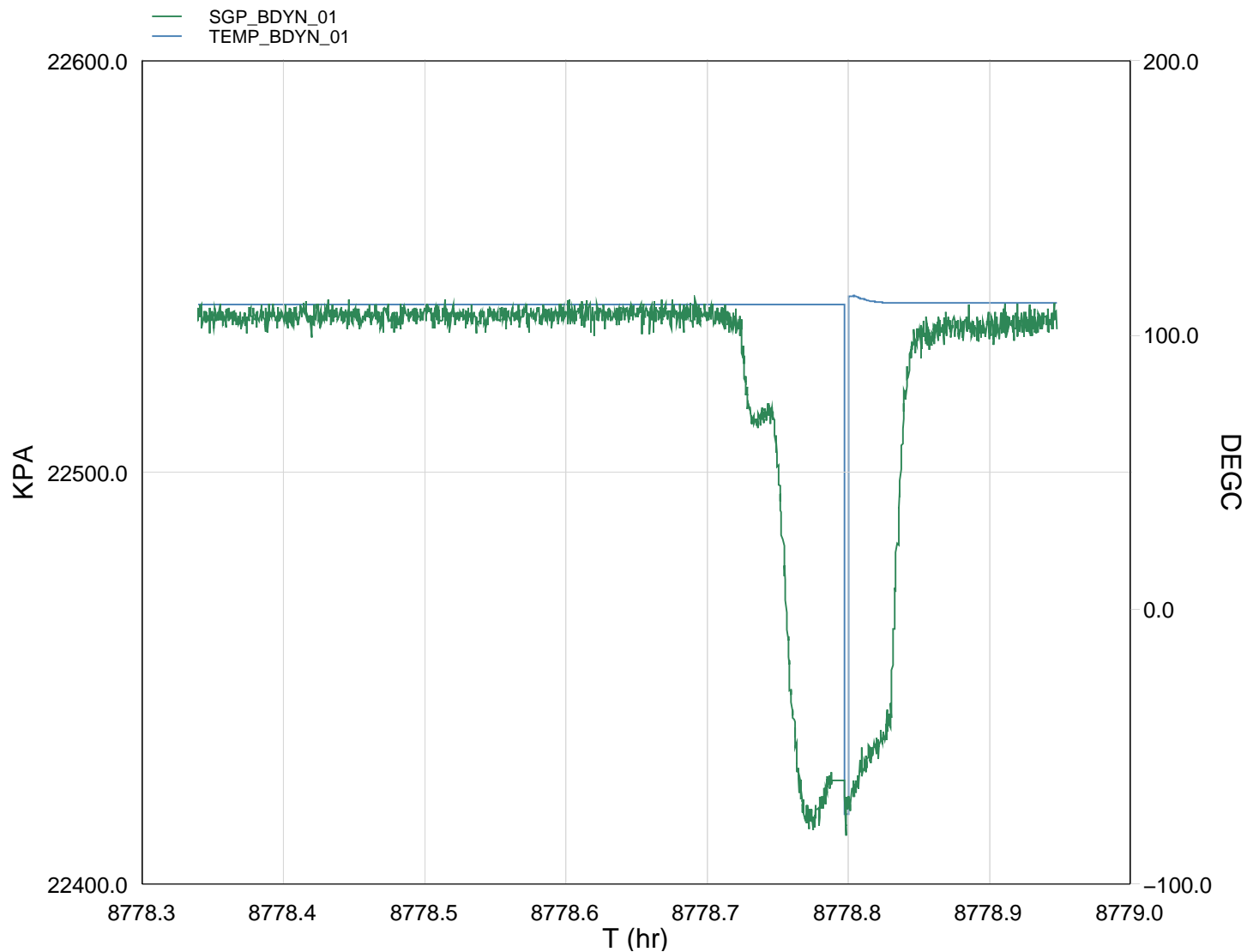
Format: MWP Vertical Scale: 1:200 Graphics File Created: 10-Sep-2009 15:51

OP System Version: 17C0-154			
MWPT-CA	17C0-154	MWGT-AA	17C0-154

Input DLIS Files						
DEFAULT	PERFO_052LUP	FN:51	PRODUCER	10-Sep-2009 15:13	2672.8 M	2608.5 M
Output DLIS Files						
DEFAULT	PERFO_056PUP	FN:55	PRODUCER	10-Sep-2009 15:51		



Bordyn Station Log



TIME	SGPA_SL	TEMP_MWPT_SL
4980.0	3268.8644	232.1200
5040.0	3268.9852	232.1168
5100.0	3268.8706	232.1122
5160.0	3268.9568	232.1314
5220.0	3268.7193	232.1117
5280.0	3268.8644	232.1366
5340.0	3268.8780	232.1378
5400.0	3268.9005	232.1175
5460.0	3268.9192	232.1133
5520.0	3268.8345	232.1189
5580.0	3268.6714	232.1164
5640.0	3269.2528	232.1256
5700.0	3268.8154	232.1170
5760.0	3269.0721	232.1349
5820.0	3268.9477	232.1365
5880.0	3268.9005	232.1269
5940.0	3268.9117	232.1215
6000.0	3269.1303	232.1405
6060.0	3268.9306	232.1269
6120.0	3269.0468	232.1459
6180.0	3268.7766	232.1339

6100.0	3268.7700	232.1253
6240.0	3268.8631	232.1253
6300.0	3268.8719	232.1362
6360.0	3265.7891	232.1247
6420.0	3265.3001	232.1637
6480.0	3253.8783	232.1867
6540.0	3251.4833	232.3125
6600.0	3252.4961	232.3937
6660.0	3252.9043	235.1494
6720.0	3254.5433	233.2163
6780.0	3268.4744	233.1218
6840.0	3268.6667	233.1104
6900.0	3268.6366	233.1004
6960.0	3268.4926	233.1019
7020.0	3268.4850	233.0900
7080.0	3268.4178	233.1009
7140.0	3268.7089	233.0734

Schlumberger

2 1/8" Phased PowerJet, MWPT Shooting Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.

Well: A-8

Output DLIS Files

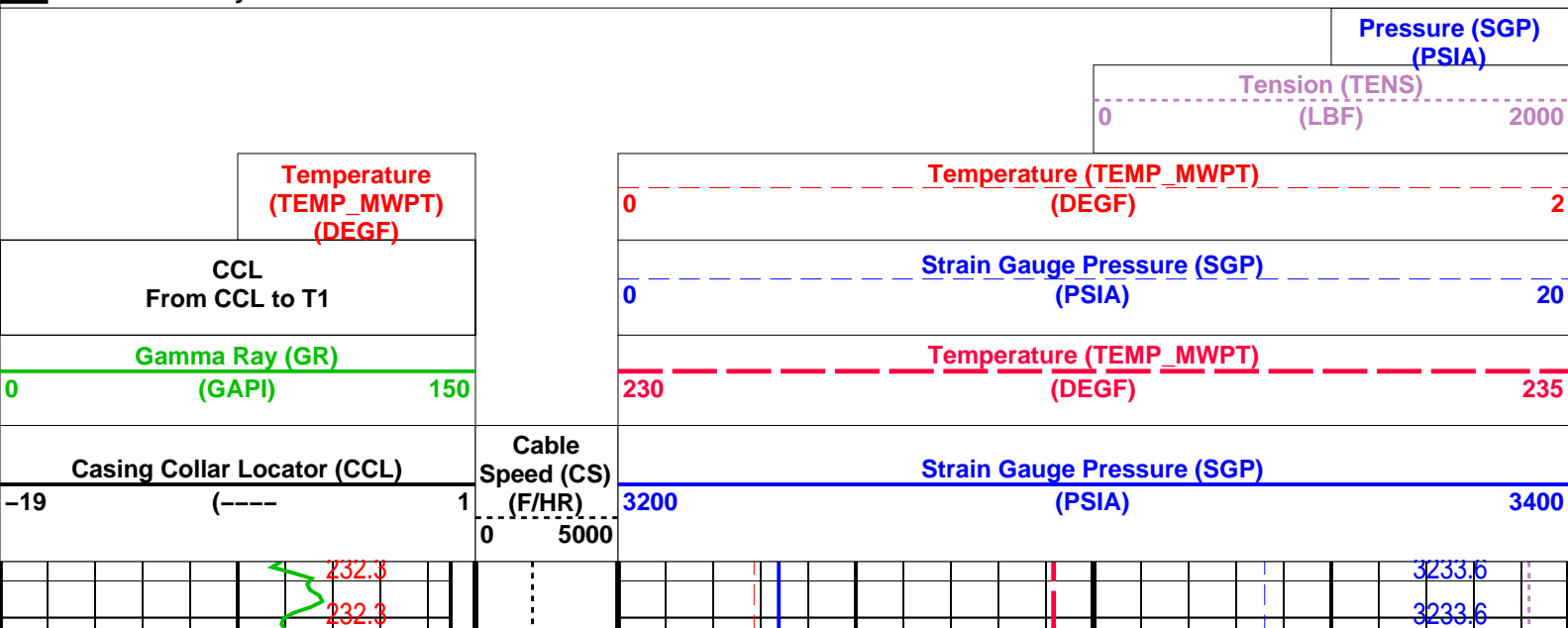
DEFAULT PERFO_041LUP FN:40 PRODUCER 09-Sep-2009 18:16 2664.9 M 2608.5 M

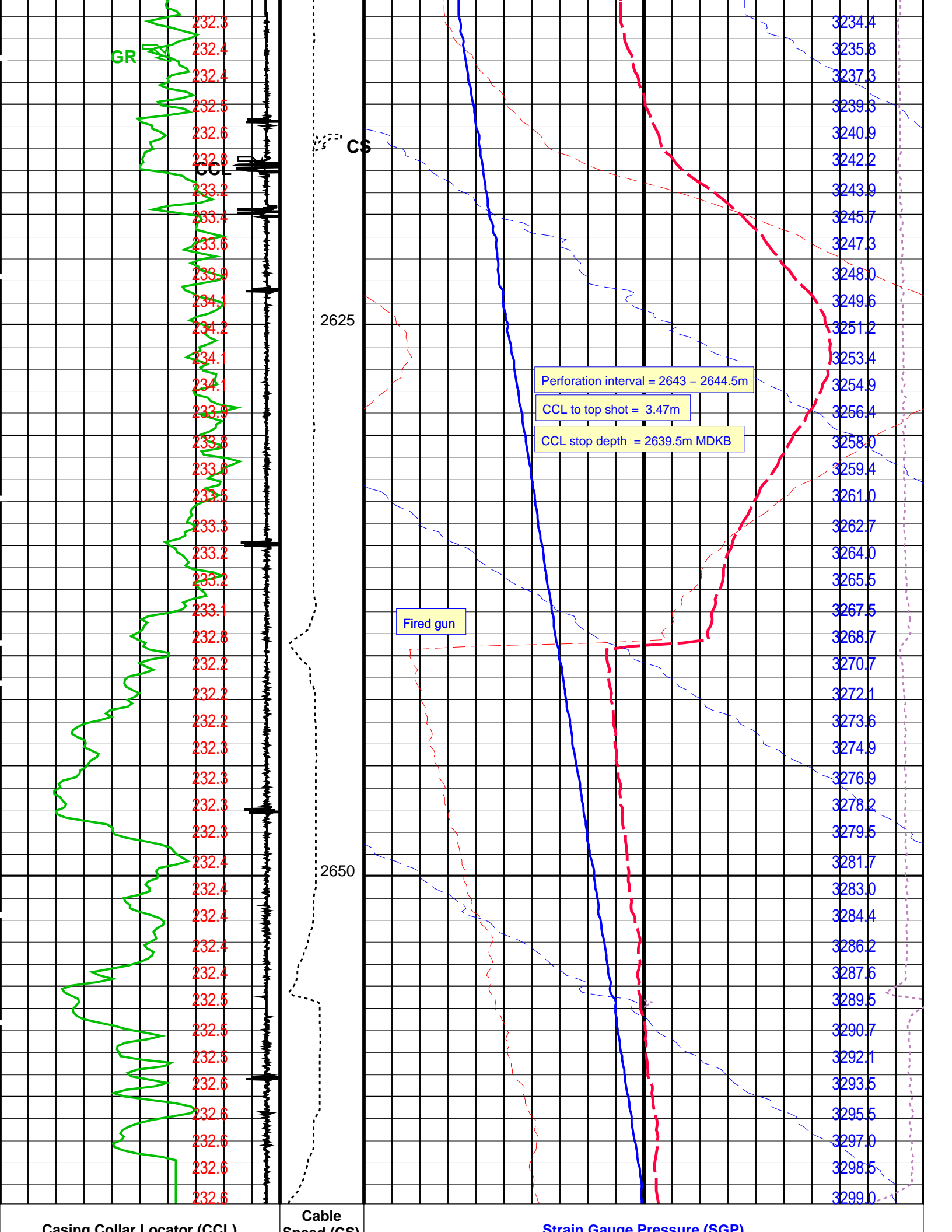
OP System Version: 17C0-154

MWP_GUN 17C0-154 MWPT-CA 17C0-154
MWGT-AA 17C0-154

PIP SUMMARY

Time Mark Every 60 S





Casing Solar Locator (CSL)	Speed (CS)	Strain Gauge Pressure (SGP)
-19 (----) 1	(F/HR) 3200	(PSIA) 3400
0 5000		
Gamma Ray (GR)	Temperature (TEMP_MWPT)	
(GAPI) 150	(DEGF) 230	235
CCL From CCL to T1	Strain Gauge Pressure (SGP)	
	(PSIA) 0	20
Temperature (TEMP_MWPT)	Temperature (TEMP_MWPT)	
(DEGF)	(DEGF) 0	2
	Tension (TENS)	
	(LBF) 0	2000
	Pressure (SGP)	
	(PSIA)	


PIP SUMMARY
Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL		
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0 DEG
FLD	Flow Line Density	1 G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0 DEGC

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 09-Sep-2009 18:16
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OP System Version: 17C0-154			
MWP_GUN	17C0-154	MWPT-CA	17C0-154
MWGT-AA	17C0-154		

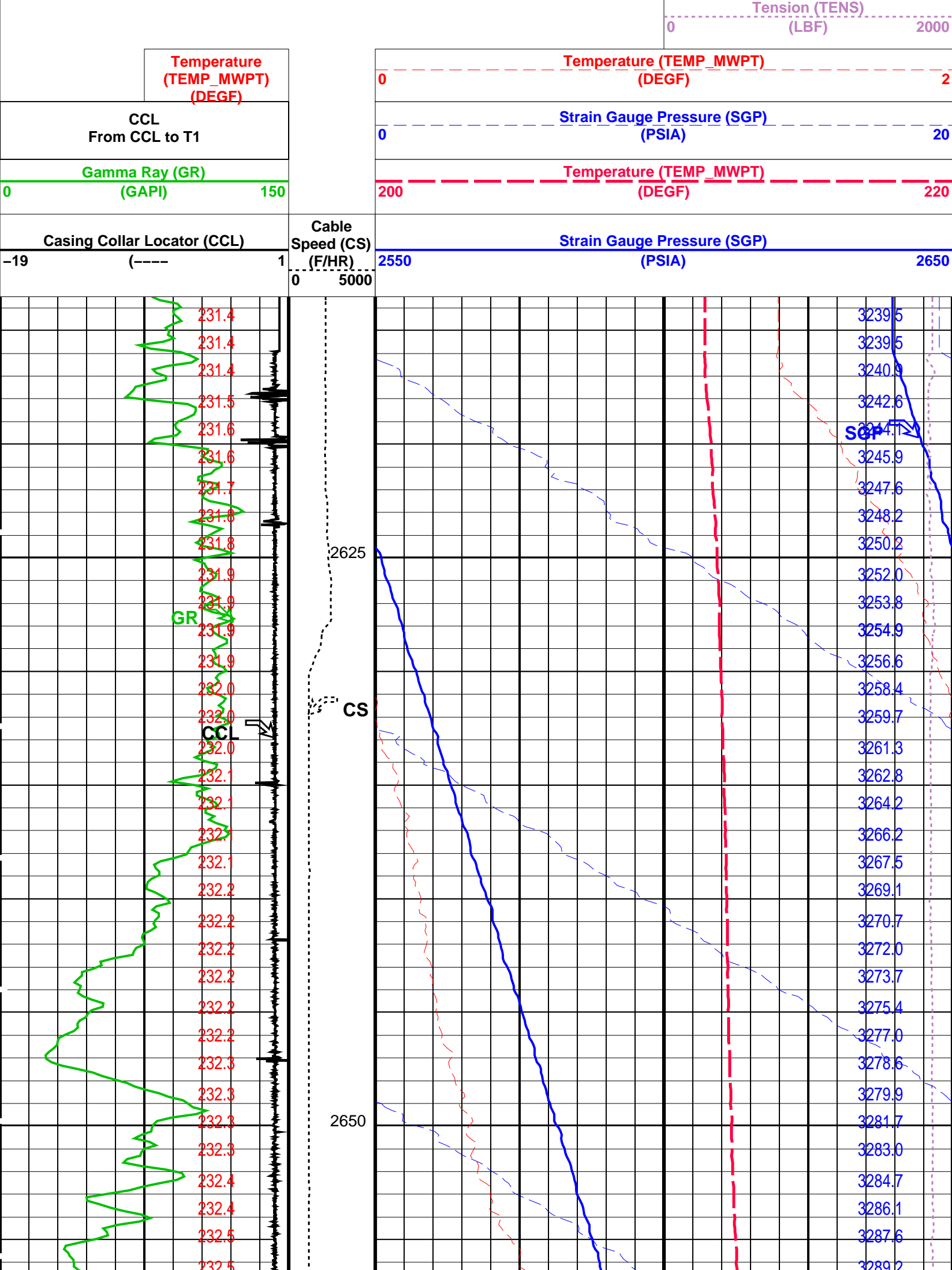
Output DLIS Files			
DEFAULT	PERFO_041LUP	FN:40	PRODUCER 09-Sep-2009 18:16

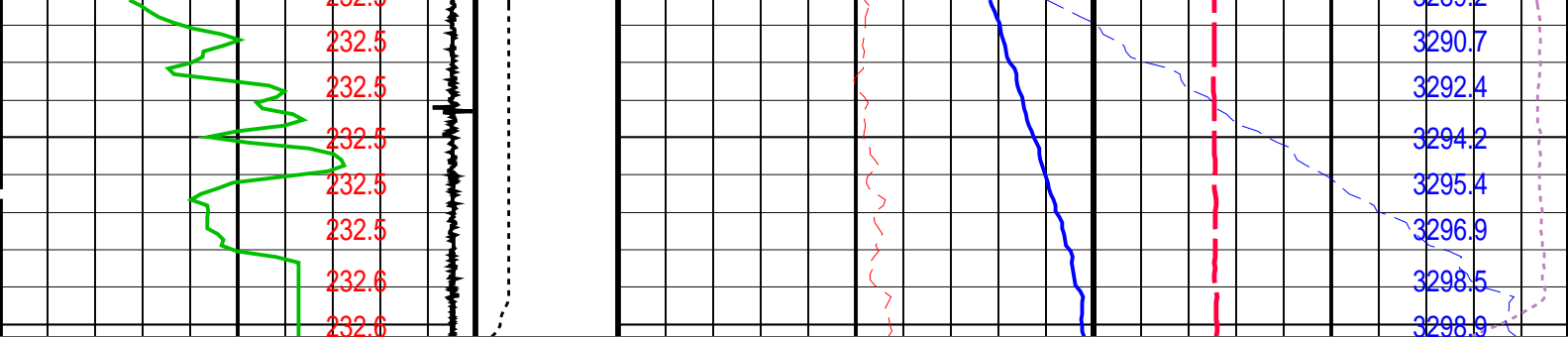


2 1/8" Phased PowerJet, MWPT
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd.					Well: A-8
Output DLIS Files					
DEFAULT	PERFO_039LUP	FN:38	PRODUCER	09-Sep-2009 17:57	2665.3 M 2613.5 M
OP System Version: 17C0-154					
MWP_GUN	17C0-154	MWPT-CA	17C0-154		
MWGT-AA	17C0-154				
PIP SUMMARY					
<div><div></div>Time Mark Every 60 S</div>					
					Pressure (SGP) (PSIA)





Casing Collar Locator (CCL) -19 (----) 1		Cable Speed (CS) (F/HR) 0 5000	Strain Gauge Pressure (SGP) (PSIA) 2550 2650	
Gamma Ray (GR) (GAPI) 0 150			Temperature (TEMP_MWPT) (DEGF) 200 220	
CCL From CCL to T1			Strain Gauge Pressure (SGP) (PSIA) 0 20	
Temperature (TEMP_MWPT) (DEGF)			Temperature (TEMP_MWPT) (DEGF) 0 2	
			Tension (TENS) (LBF) 0 2000	
			Pressure (SGP) (PSIA)	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL		
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0 DEG
FLD	Flow Line Density	1 G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0 DEGC

Format: MWP Vertical Scale: 1:200 Graphics File Created: 09-Sep-2009 17:57

OP System Version: 17C0-154

MWP_GUN	17C0-154	MWPT-CA	17C0-154
MWGT-AA	17C0-154		

Output DLIS Files

DEFAULT PERFO_039LUP FN:38 PRODUCER 09-Sep-2009 17:57

Schlumberger

MWPT GR Calibration Summary

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration – Detector Calibration							
Before: 8-Sep-2009 13:52 After: 8-Sep-2009 13:55							
Gamma Ray (Signal) Background	30.00	N/A	3.936	4.254	0.3177	N/A	GAPI
Gamma Ray (Jig – Background)	99.74	N/A	99.74	106.2	6.487	9.067	GAPI
Gamma Ray (Calibrated)	125.0	N/A	125.0	133.1	8.130	15.00	GAPI

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL / Equipment Identification

Primary Equipment:

GAMMA RAY CARTRIDGE

MWPG – AA

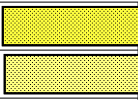
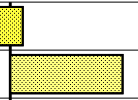
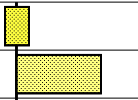
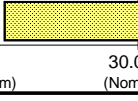
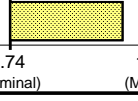
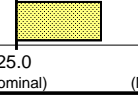
24029

Auxiliary Equipment:

GAMMA RAY HOUSING

MWGH – AA

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MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray (Signal) Background	GAPI	Value	Phase	Gamma Ray (Jig – Background)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			3.936	Before			99.74	Before			125.0
After			4.254	After			106.2	After			133.1
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		90.67 (Minimum)	99.74 (Nominal)	108.8 (Maximum)		110.0 (Minimum)	125.0 (Nominal)	140.0 (Maximum)
Before: 8-Sep-2009 13:52				After: 8-Sep-2009 13:55							

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **A-8**

Field: **Flounder**

Rig: **Crane / Prod4**

Country: **Australia**

2-1/8" Phased Powerjet MWPT
Perforation Record
7 5/8" Posiset Plug Setting Record