

Company: Esso Australia Ltd.

Well: HLA A-6a

Field: Hailbut

Rig: Prod 2 / ISS CWU Country: Australia

2 1/8" Phased Enerjet
MWPT-Perforating record
PGT-Perforating record

Rig: Prod 2 / ISS CWU
Field: Halibut
Location: Gippsland
Well: HLA A-6a
Company: Esso Australia Ltd.

LOCATION			Elev.:	K.B. 29.45 m G.L. -73 m D.F. 29.45 m
Gippsland				
Basin				
Bass Strait				
Permanent Datum:	Mean Sea Level		Elev.:	0 m
Log Measured From:	Kelly Bushing		29.5 m	above Perm. Datum
Drilling Measured From:	Kelly Bushing			
State:	Max. Well Deviation	Longitude	Latitude	
Victoria	63 deg	148°19' 07.62"E	38°24' 20.36"S	

Logging Date	31-May-2006			
Run Number	1			
Depth Driller	3445 m			
Schlumberger Depth	Not tagged			
Bottom Log Interval	3338.5 m			
Top Log Interval	3329.5 m			
Casing Fluid Type	Production Fluids			
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size	8.500 in			
From	549.5 m			
To	3473.5 m			
Casing/Tubing Size	7.000 in			
Weight	26 lbm/ft			
Grade	L-80			
From	12.8 m			
To	3466.5 m			
Maximum Recorded Temperatures	108 degC			
Logger On Bottom	31-May-2006	Time	21:30	
Unit Number	3827	Location	AUSL	
Recorded By	J Hogan, O Tahmizic, S Gilbert			
Witnessed By	J Dean, D Broomfield			

PVT DATA					Run 1	Run 2	R
Oil Density							
Water Salinity							
Gas Gravity							
Bo							
Bw							
1/Bg							
Bubble Point Pressure							
Bubble Point Temperature							
Solution GOR							
Maximum Deviation					63 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	Time						
Unit Number	Location						
Recorded By							
Witnessed By							

Run 4 | Run 3

DEPTH SUMMARY LISTING

Depth System Equipment

Date Created: 31-MAY-2006 8:27:17

Depth Control Parameters

Depth Control Remarks

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

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OS1:    None
OS2:
OS3:
OS4:
OS5:
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OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

Log correlated to Solar composite log dated 26-Dec-03

Provided by client.


















Purpose of log- to perforate two intervals,

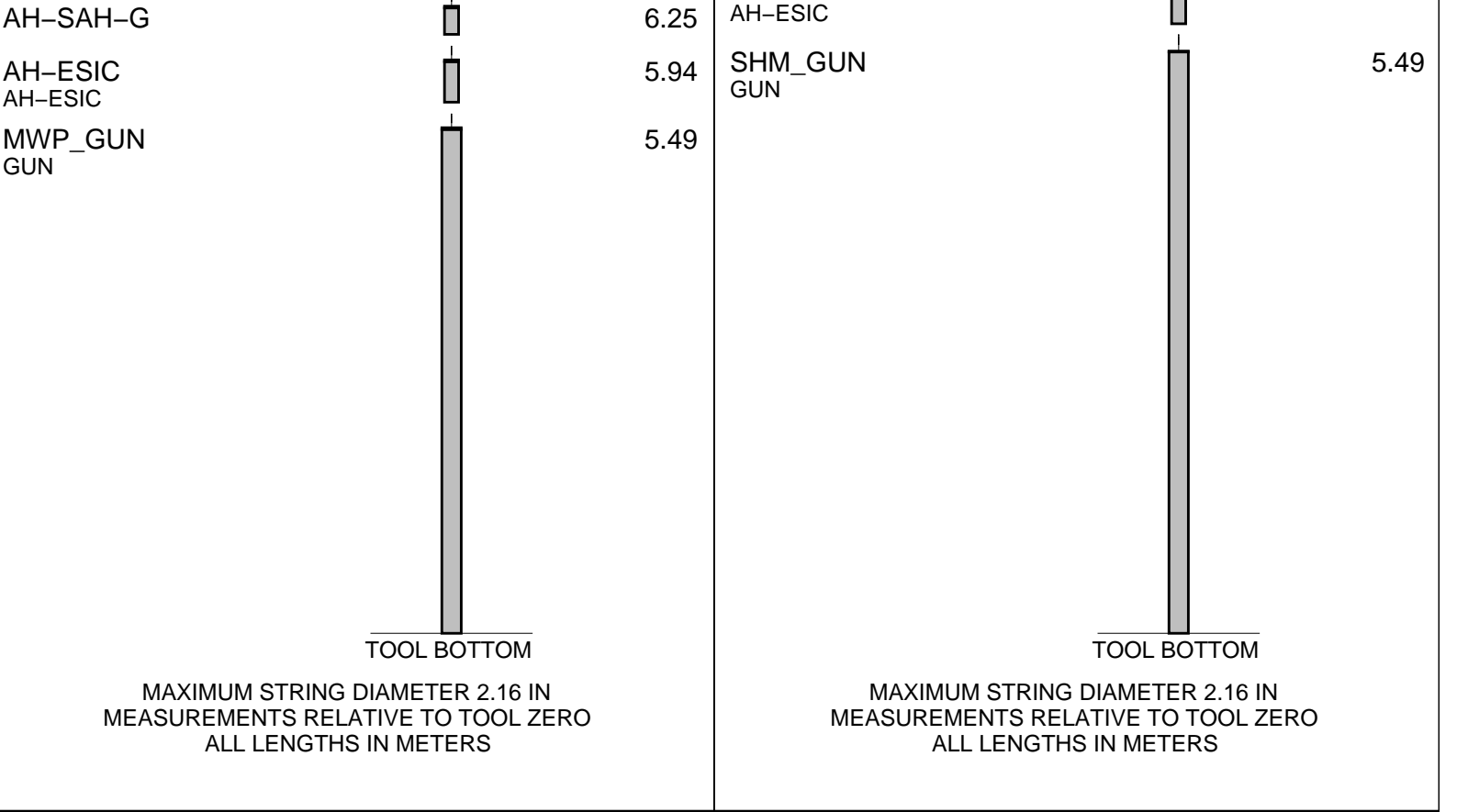
Interval one 3336.5MDKB to 3338.5MDKB using MWPT.

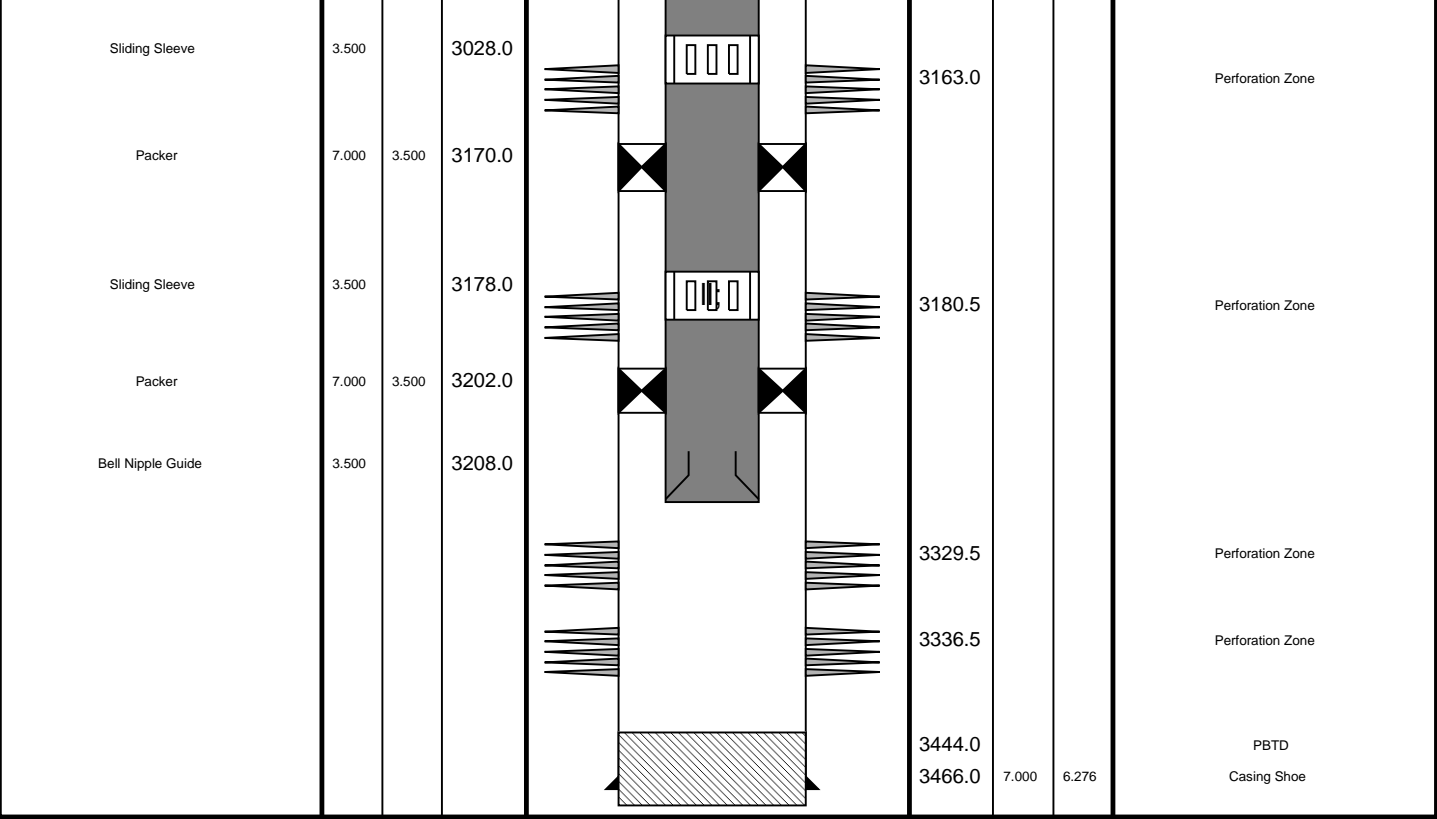
CCL to top shot-4.38m, CCL stop depth-3332.12MDKB.

SBHP=3370Psia SBHT=226degF

REMARKS: RUN NUMBER 2

FBHP=3270Psia FBHT=224degF					
Interval two 3329.5MDKB to 3333MDKB using PGGT.					
CCL to top shot-4.38m, CCL stop depth-3325.12MDKB.					
When RIH run one toolstring held-up at 3048MDKB,					
no issues were found on subsequent run.					
Unable to achieve 300psi underballance as no open perfs in well.					
Schlumberger crew- P Lawrence, B Flynn (days)					
D Stuckey, S Kiss (nights)					
Performed by Schlumberger.					
<div>RUN 1</div> <div>SERVICE ORDER #: L050-3G021</div> <div>PROGRAM VERSION: 14C0-302</div> <div>FLUID LEVEL:</div>			<div>RUN 2</div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div>		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
MWPM-AA			SHM-EA		
DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
MH-SWHS-A MH-SWHS-A 759		14.93	MH-SWHS-A MH-SWHS-A 759		13.08
EQF-46 EQF-46		14.45	EQF-46 EQF-46		12.60
EQF-46 EQF-46		12.62	EQF-46 EQF-46		10.77
AH-124		10.79			
MWGT-AA MWPG-AA MWGH-AA		10.48	AH-124		8.95
	MWPG GR — 2.41		PGGT-C PGGC PGGH-A		8.64
MWPT-CA MWPH-AA 10 MWPS-AA 93		9.50			
	CCL SMWP Pres SMWP Temp Tension — TOOL ZERO		Gamma Ray Casing Co Tension — 0.48 — TOOL ZERO		
AH-Flex Joint AH-122	 	6.69 6.55	AH-Flex Joint AH-122	 	6.69 6.55
			AH-SAH-G		6.25
			AH-ESIC		5.94





Operational Summary Listing

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
GUN1	Used	3329.5	3329.5	Thu Jun 01 03:24:09 2006



Perforation Run 2 PGGT
3329.5 to 3333 MDKB

Output DLIS Files

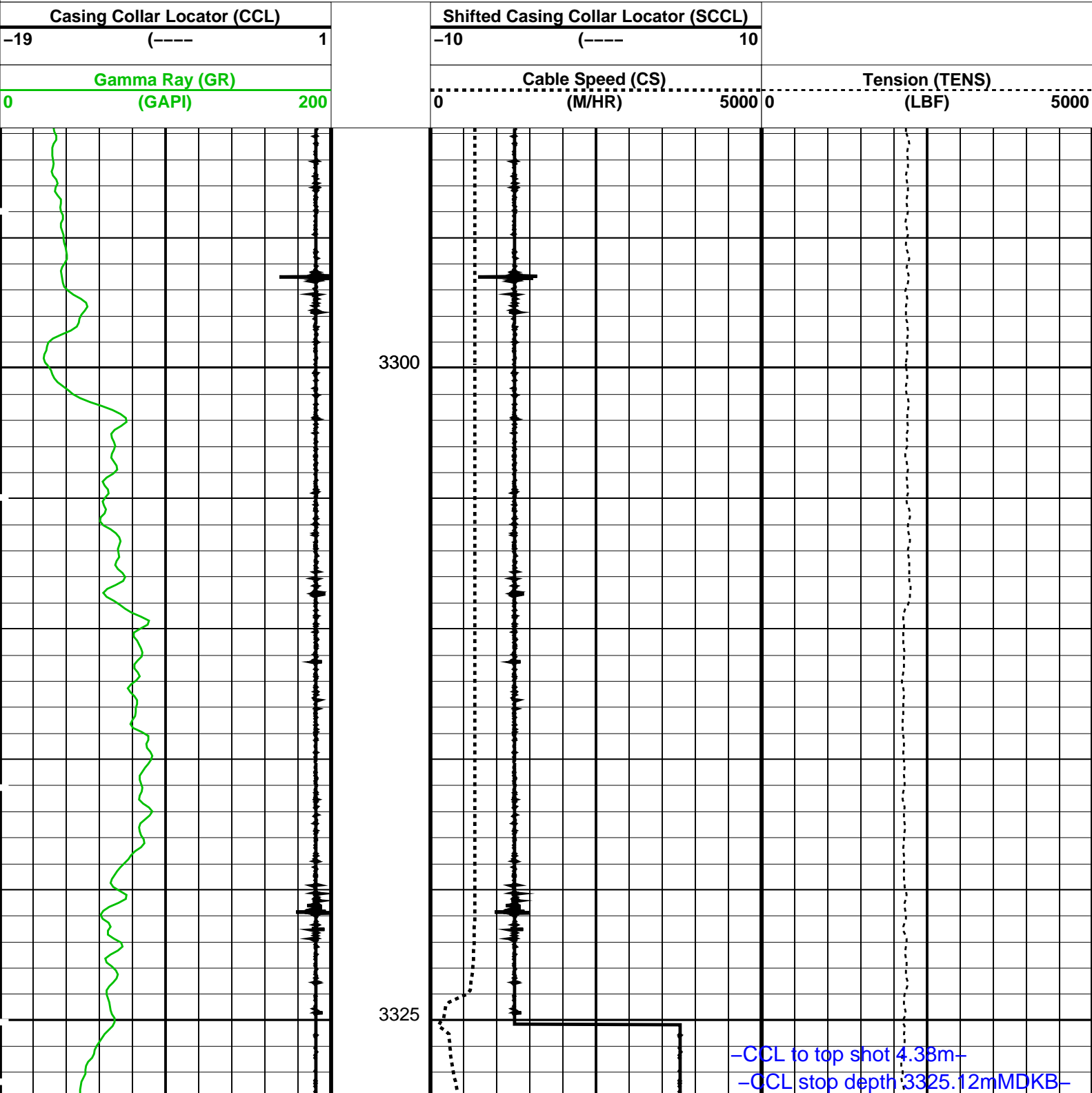
DEFAULT PERFO_072LUP FN:86 PRODUCER 01-Jun-2006 03:16 3379.9 M 3290.8 M

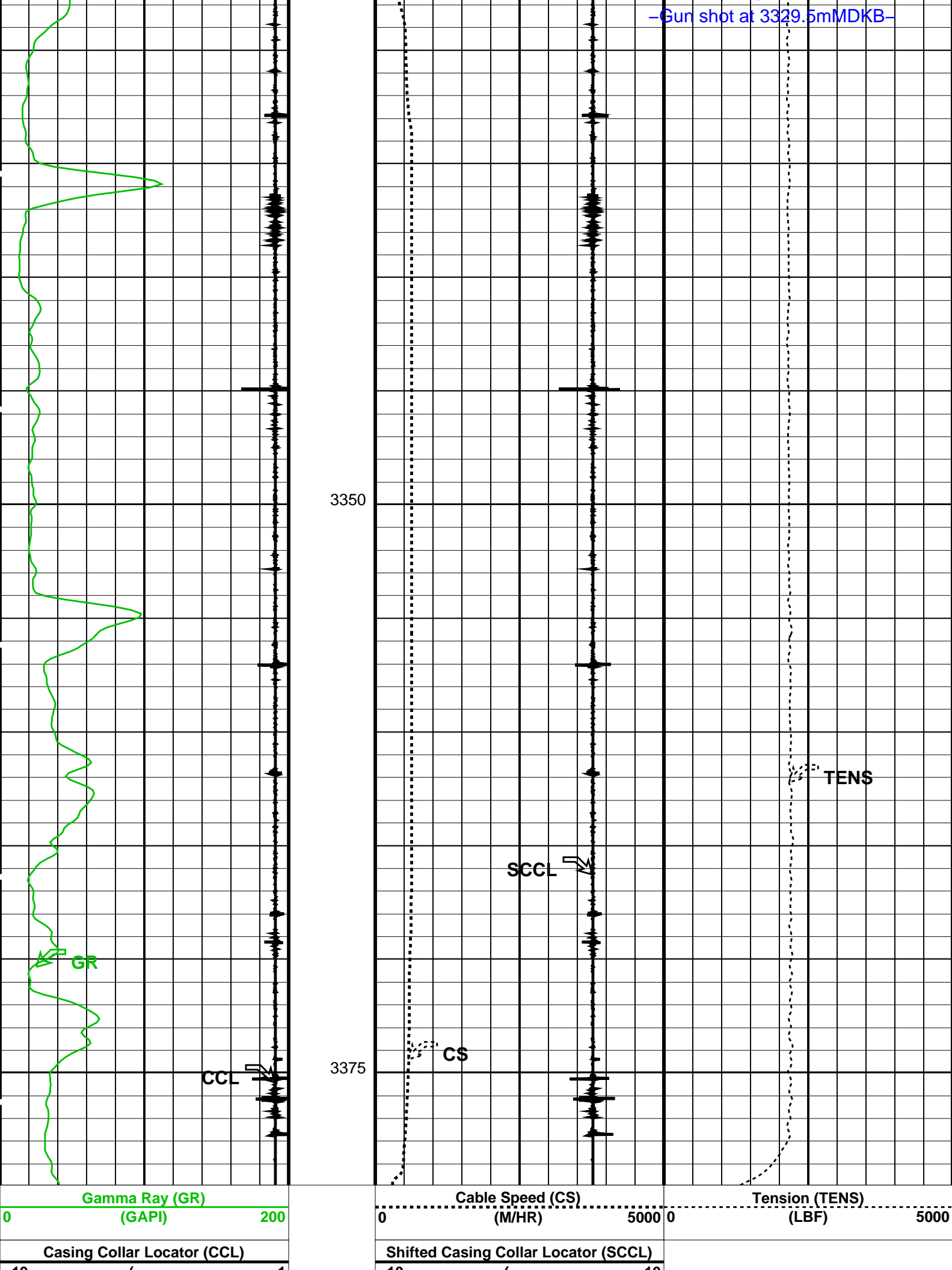
OP System Version: 14C0-302
MCM

SHM_GUN 14C0-302 PGGT-C 14C0-302

PIP SUMMARY

Time Mark Every 60 S





19

(----

1

-10

(----

10

PIP SUMMARY

Time Mark Every 60 S

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 01-Jun-2006 03:16


OP System Version: 14C0-302

MCM

SHM_GUN 14C0-302 PGGT-C 14C0-302

Output DLIS Files

DEFAULT PERFO_072LUP FN:86 PRODUCER 01-Jun-2006 03:16



Correlation Pass
Run 2

MAXIS Field Log

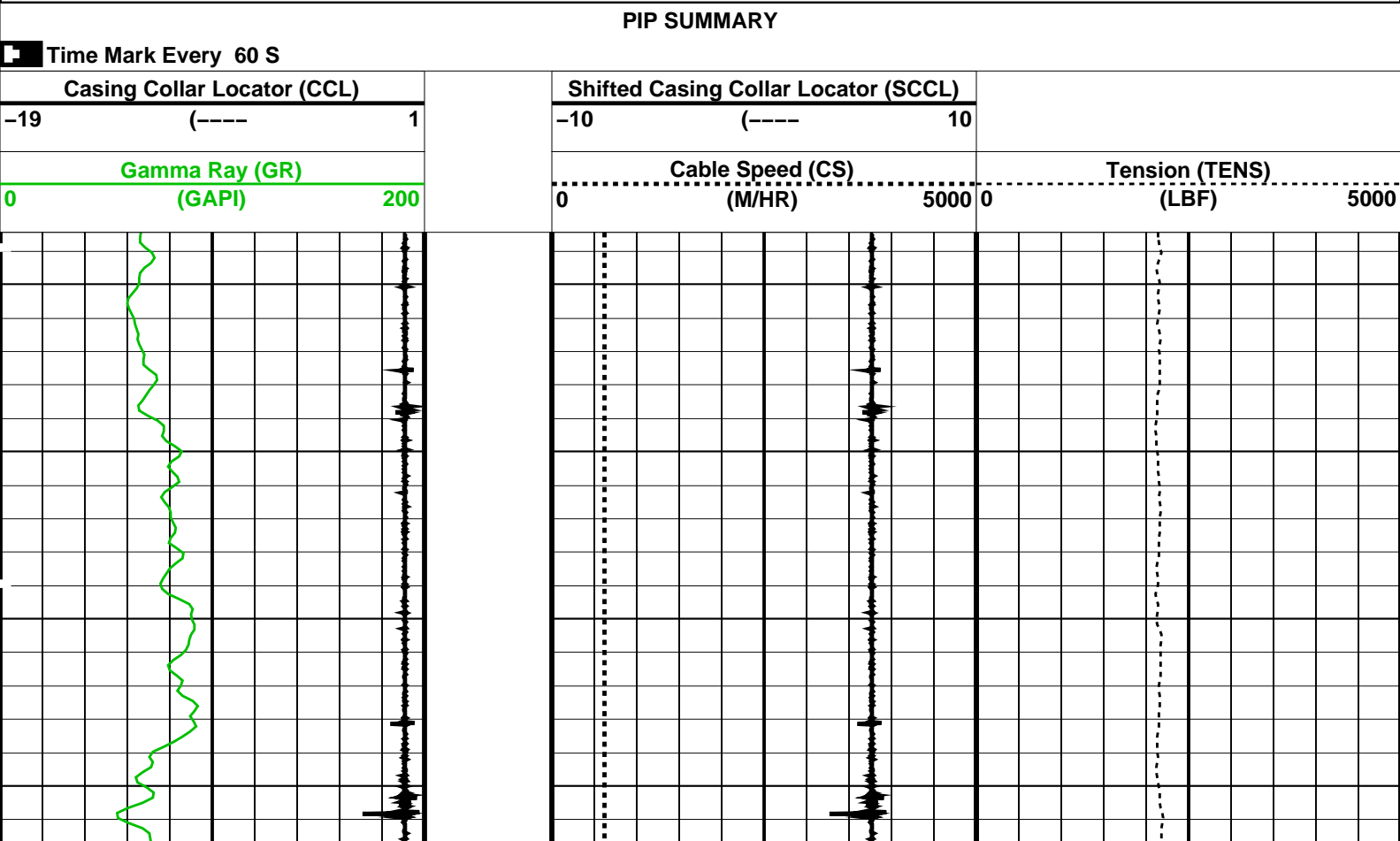
Output DLIS Files

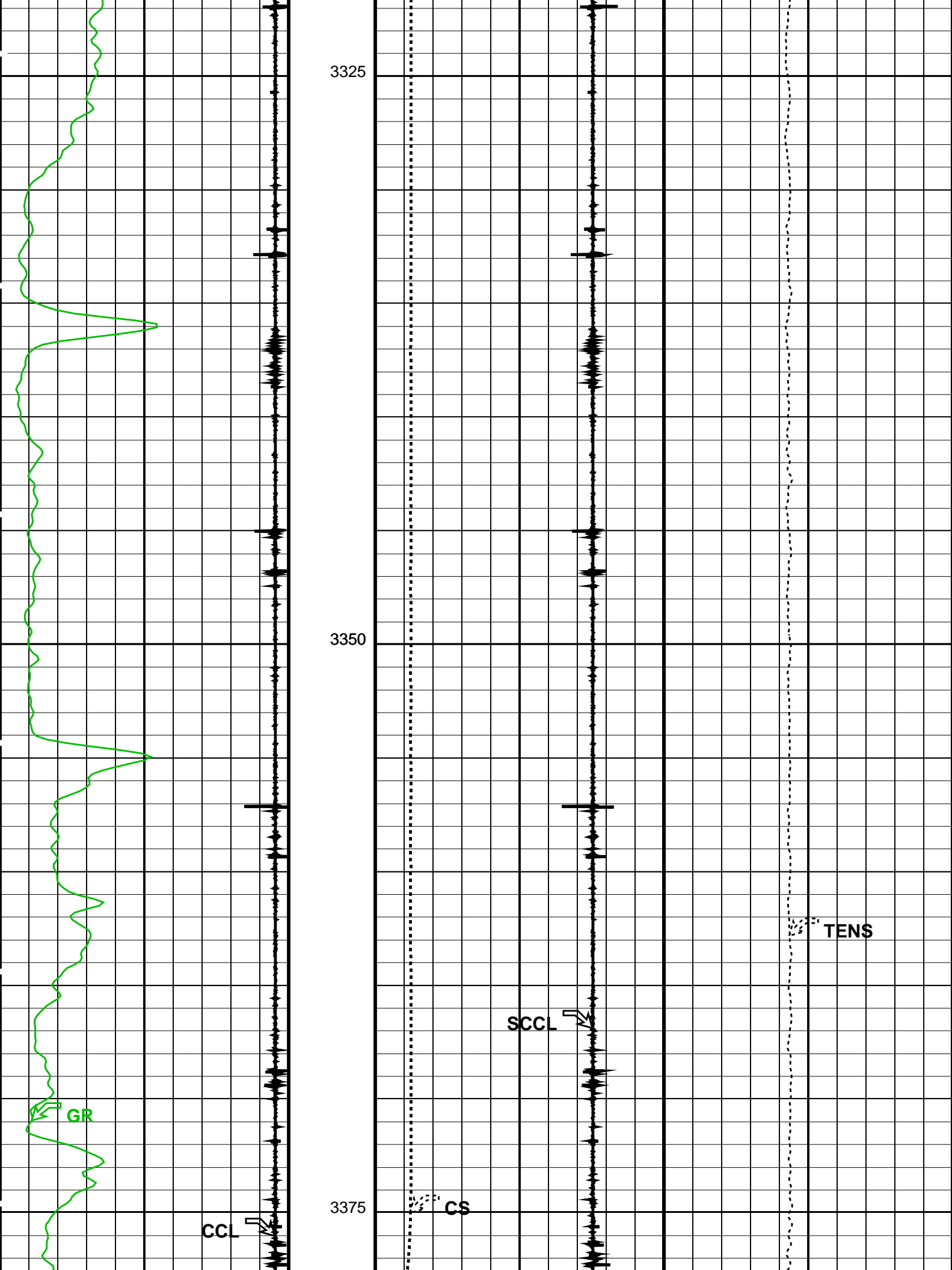
DEFAULT PERFO_070LUP FN:84 PRODUCER 01-Jun-2006 03:01 3379.5 M 3303.4 M

OP System Version: 14C0-302

MCM

SHM_GUN 14C0-302 PGGT-C 14C0-302





Gamma Ray (GR) (GAPI)		Cable Speed (CS) (M/HR)		Tension (TENS) (LBF)	
0	200	0	5000	0	5000
Casing Collar Locator (CCL)		Shifted Casing Collar Locator (SCCL)			
-19	1	-10	10		

PIP SUMMARY

Time Mark Every 60 S

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 01-Jun-2006 03:01

OP System Version: 14C0-302

MCM

SHM_GUN

14C0-302

PGGT-C

14C0-302

Output DLIS Files

DEFAULT

PERFO_070LUP

FN:84

PRODUCER

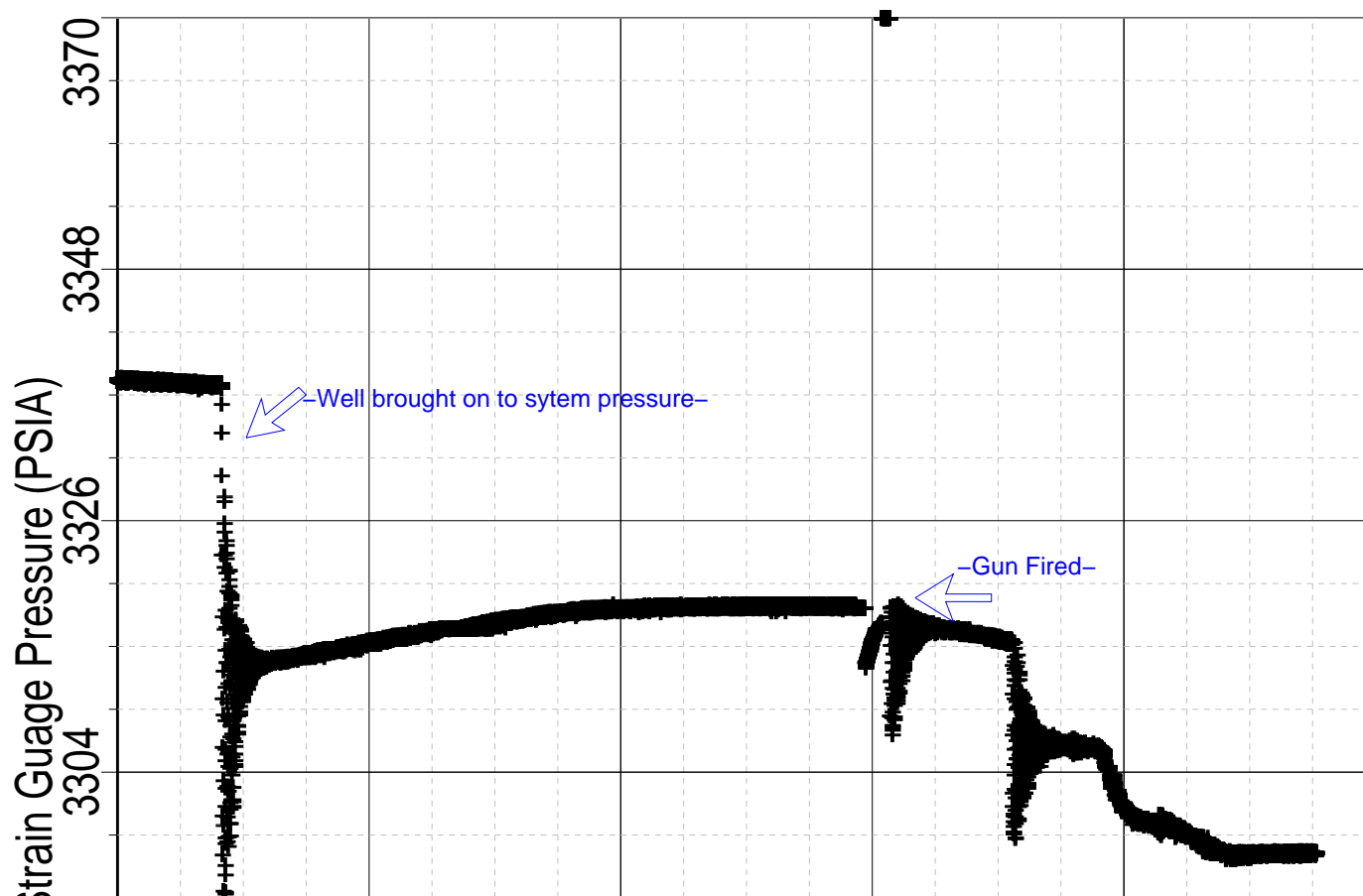
01-Jun-2006 03:01

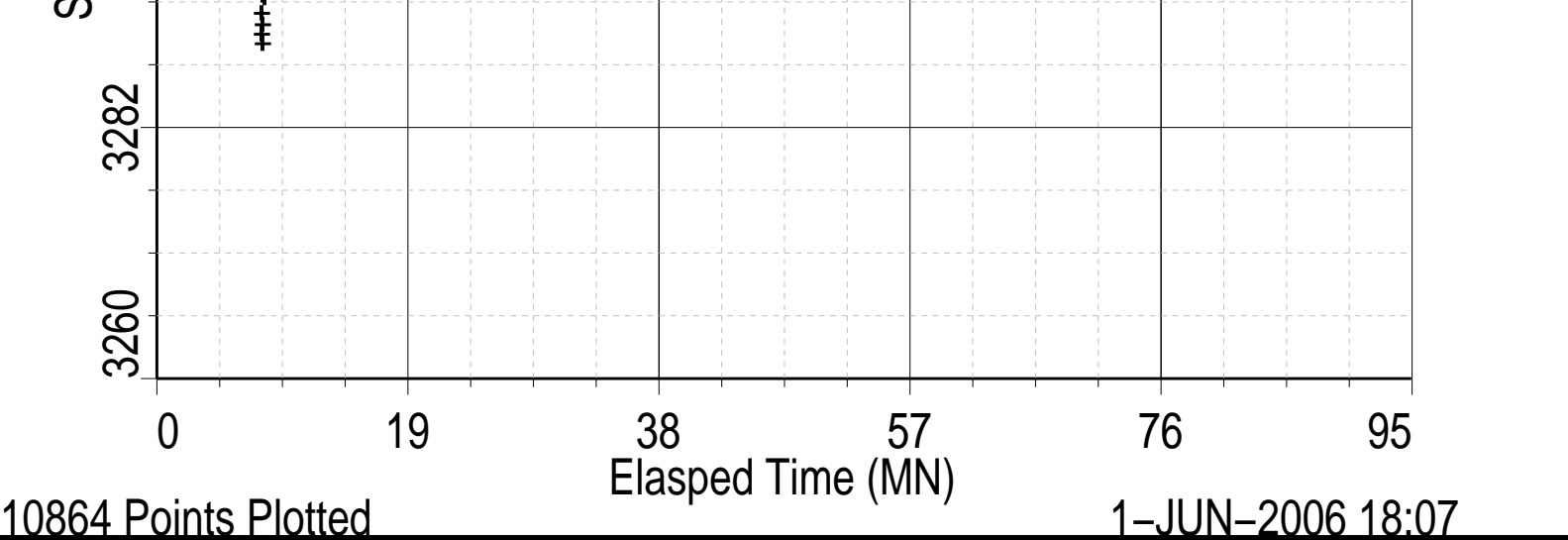
Schlumberger

Pressure vs. Time MWPT Station Log

MAXIS Field Log

Index: 16205.2 – 43797.2 M





Schlumberger

MWPT Station Log
3332.12 MDKB

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO_055LTP FN:69 PRODUCER 01-Jun-2006 17:19 3332.1 M 13.8 M

Output DLIS Files

DEFAULT PERFO_010PTP FN:9 PRODUCER 01-Jun-2006 18:06 3332.1 M 13.8 M

OP System Version: 14C0-302
MCM

MWP_GUN 14C0-302 MWPT-CA 14C0-302
MWGT-AA 14C0-302

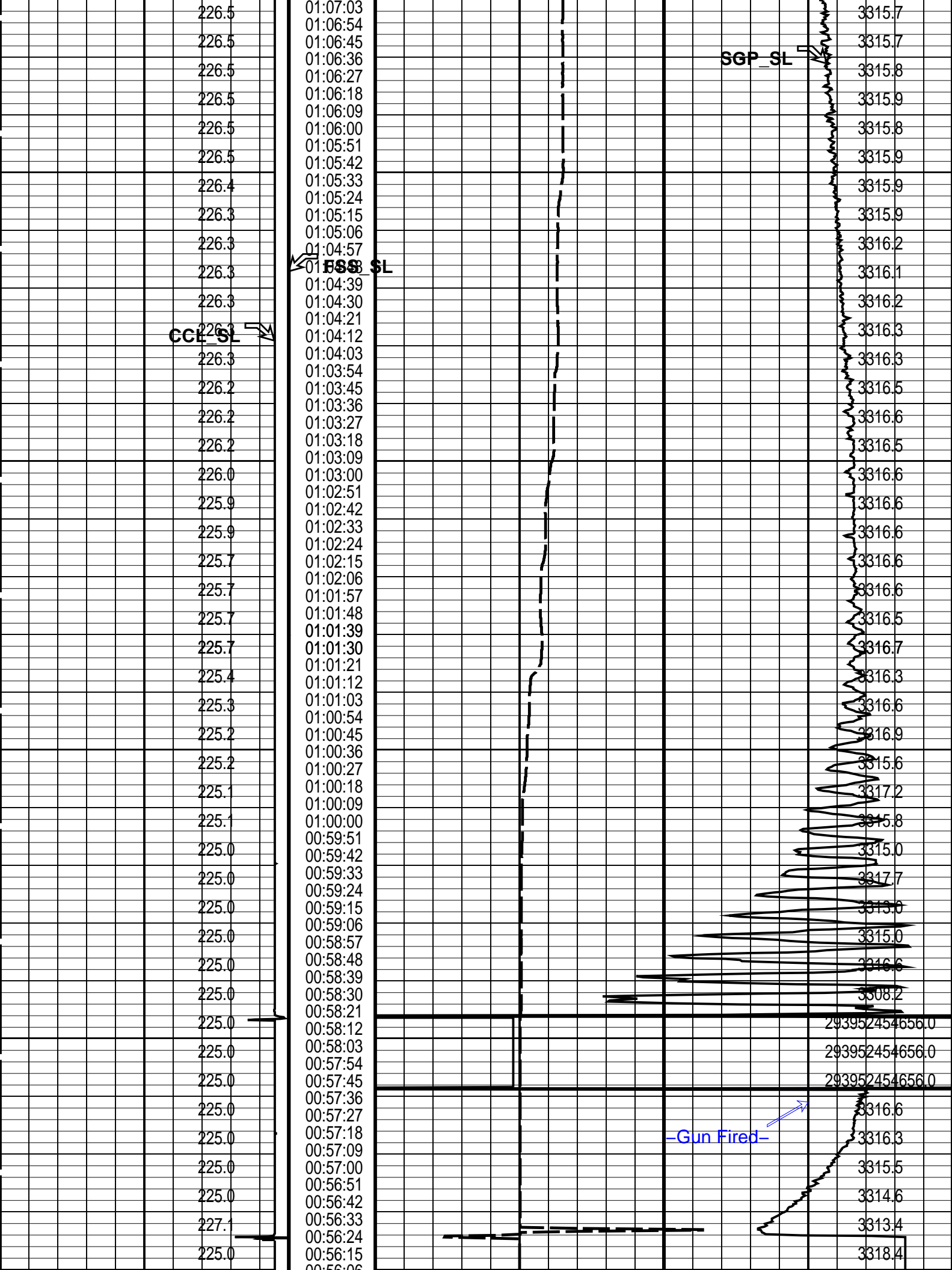
PIP SUMMARY

Time Mark Every 60 S

Temperature (TEMP_MWPT_SL) (DEGF)				Pressure (SGPA_SL) (PSIA)			
CCL From CCL to T1				Temperature (TEMP_MWPT_SL) (DEGF)			
				0 20			
				0 1024			
Casing Collar Locator (CCL_SL) -19 (----) 1				Strain Gauge Pressure (SGP_SL) 0 (PSIA) 20			
			01:30:27				3296.9
			01:30:18				3296.9
			01:30:09				3296.9
			01:30:00				3296.9
			01:29:51				3296.9
			01:29:42				3296.9
			01:29:33				3297.0
			01:29:24				3296.9
			01:29:15				3296.9
			01:29:06				3296.9

226.7	01:29:06	296.8
226.7	01:28:57	296.9
226.7	01:28:48	297.0
226.7	01:28:39	296.9
226.7	01:28:30	296.9
226.7	01:28:21	297.0
226.7	01:28:12	297.0
226.7	01:28:03	297.0
226.7	01:27:54	297.0
226.7	01:27:45	296.9
226.7	01:27:36	297.0
226.7	01:27:27	296.9
226.7	01:27:18	297.0
226.7	01:27:09	296.8
226.7	01:27:00	296.8
226.7	01:26:51	296.8
226.7	01:26:42	297.0
226.7	01:26:33	296.8
226.7	01:26:24	296.9
226.7	01:26:15	296.9
226.7	01:26:06	296.9
226.7	01:25:57	296.9
226.7	01:25:48	296.9
226.7	01:25:39	296.9
226.7	01:25:30	296.8
226.7	01:25:21	296.7
226.7	01:25:12	296.8
226.7	01:25:03	296.8
226.7	01:24:54	296.8
226.7	01:24:45	296.8
226.7	01:24:36	296.8
226.7	01:24:27	296.8
226.7	01:24:18	297.0
226.7	01:24:09	296.5
226.7	01:24:00	297.2
226.7	01:23:51	296.9
226.7	01:23:42	297.4
226.7	01:23:33	297.3
226.7	01:23:24	297.5
226.7	01:23:15	297.8
226.7	01:23:06	297.7
226.7	01:22:57	298.2
226.7	01:22:48	298.2
226.7	01:22:39	298.3
226.7	01:22:30	298.5
226.7	01:22:21	298.4
226.7	01:22:12	298.8
226.7	01:22:03	298.8
226.7	01:21:54	298.9
226.7	01:21:45	299.1
226.8	01:21:36	299.4
226.8	01:21:27	299.3
226.8	01:21:18	299.4
226.8	01:21:09	299.7
226.8	01:21:00	300.1
226.8	01:20:51	299.5
226.8	01:20:42	299.5
226.8	01:20:33	
226.8	01:20:24	
226.8	01:20:15	
226.8	01:20:06	
226.8	01:19:57	
226.7	01:19:48	
226.7	01:19:39	
226.7	01:19:30	
226.7	01:19:21	
226.7	01:19:12	
226.8	01:19:03	
226.8	01:18:54	
226.8	01:18:45	
226.8	01:18:36	
226.8	01:18:27	
226.8	01:18:18	
226.8	01:18:09	

226.8	01:18:00	3299.7
226.8	01:17:51	3300.0
226.8	01:17:42	3299.5
226.8	01:17:33	3299.8
226.8	01:17:24	3299.9
226.8	01:17:15	3300.2
226.8	01:17:06	3300.8
226.8	01:16:57	3300.4
226.8	01:16:48	3301.3
226.8	01:16:39	3301.4
226.8	01:16:30	3302.0
226.8	01:16:21	3303.8
226.7	01:16:12	3302.8
226.7	01:16:03	3304.5
226.8	01:15:54	3305.7
226.8	01:15:45	3306.2
226.8	01:15:36	3306.2
226.8	01:15:27	3306.2
226.7	01:15:18	3306.2
226.8	01:15:09	3306.2
226.8	01:15:00	3306.2
226.8	01:14:51	3306.3
226.8	01:14:42	3306.1
226.7	01:14:33	3306.2
226.7	01:14:24	3306.6
226.7	01:14:15	3306.2
226.7	01:14:06	3306.2
226.7	01:13:57	3306.2
226.8	01:13:48	3306.2
226.8	01:13:39	3306.2
226.8	01:13:30	3306.2
226.8	01:13:21	3306.2
226.8	01:13:12	3306.2
226.8	01:13:03	3306.2
226.8	01:12:54	3306.2
226.8	01:12:45	3306.2
226.8	01:12:36	3306.2
226.8	01:12:27	3306.2
226.7	01:12:18	3306.2
226.7	01:12:09	3306.2
226.7	01:12:00	3306.2
226.7	01:11:51	3306.2
226.7	01:11:42	3306.2
226.7	01:11:33	3306.2
226.7	01:11:24	3306.2
226.7	01:11:15	3306.2
226.7	01:11:06	3306.2
226.7	01:10:57	3306.2
226.7	01:10:48	3306.2
226.7	01:10:39	3306.2
226.7	01:10:30	3306.2
226.7	01:10:21	3306.2
226.7	01:10:12	3306.2
226.7	01:10:03	3306.2
226.7	01:09:54	3306.2
226.7	01:09:45	3306.2
226.7	01:09:36	3306.2
226.7	01:09:27	3306.2
226.6	01:09:18	3306.2
226.6	01:09:09	3306.2
226.6	01:09:00	3306.2
226.6	01:08:51	3306.2
226.6	01:08:42	3306.2
226.6	01:08:33	3306.2
226.6	01:08:24	3306.2
226.6	01:08:15	3306.2
226.6	01:08:06	3306.2
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226.5	01:07:48	3306.2
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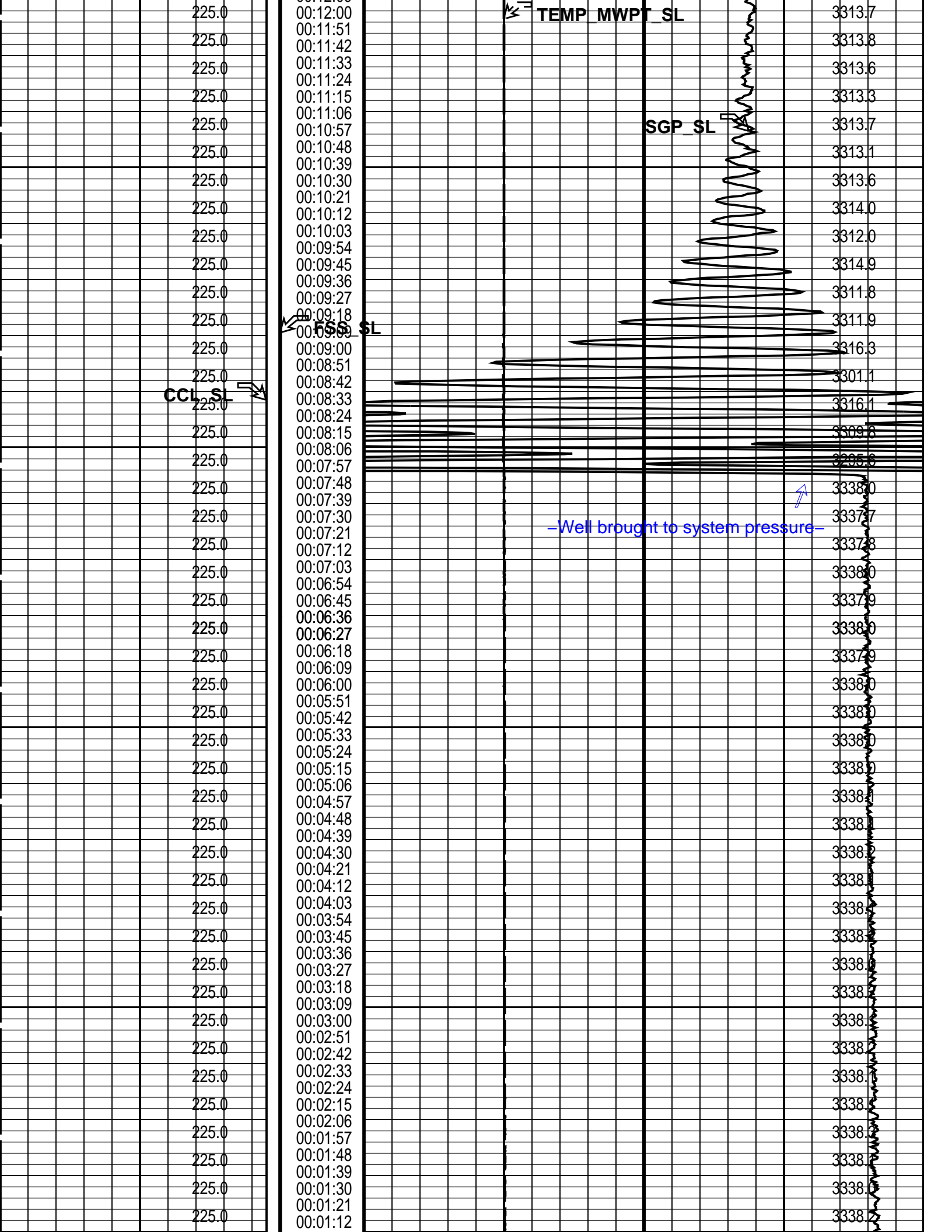


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225.0	00:39:00	3318.4
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225.0	00:38:42	3318.4
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225.0	00:38:24	3318.4
225.0	00:38:15	3318.4
225.0	00:38:06	3318.4
225.0	00:37:57	3318.3
225.0	00:37:48	3318.3
225.0	00:37:39	3318.3
225.0	00:37:30	3318.2
225.0	00:37:21	3318.4
225.0	00:37:12	3318.4
225.0	00:37:03	3318.4
225.0	00:36:54	3318.4
225.0	00:36:45	3318.4
225.0	00:36:36	3318.4
225.0	00:36:27	3318.3
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225.0	00:35:33	3318.3
225.0	00:35:24	3318.3
225.0	00:35:15	3318.3
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225.0	00:34:57	3318.3
225.0	00:34:48	3318.3
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225.0	00:33:00	3317.8
225.0	00:32:51	3317.9
225.0	00:32:42	3317.9
225.0	00:32:33	3317.9
225.0	00:32:24	3317.6
225.0	00:32:15	3317.6
225.0	00:32:06	3317.6
225.0	00:31:57	3317.5
225.0	00:31:48	3317.5
225.0	00:31:39	3317.5
225.0	00:31:30	3317.5
225.0	00:31:21	3317.5
225.0	00:31:12	3317.4
225.0	00:31:03	3317.4
225.0	00:30:54	3317.4
225.0	00:30:45	3317.4
225.0	00:30:36	3317.4
225.0	00:30:27	3317.3
225.0	00:30:18	3317.4
225.0	00:30:09	3317.4
225.0	00:30:00	3317.3
225.0	00:29:51	3317.4
225.0	00:29:42	3317.3
225.0	00:29:33	3317.4
225.0	00:29:24	3317.1
225.0	00:29:15	3317.2
225.0	00:29:06	3317.2
225.0	00:28:57	3317.3
225.0	00:28:48	3317.0
225.0	00:28:39	3316.7
225.0	00:28:30	3316.9
225.0	00:28:21	3316.6
225.0	00:28:12	3316.9
225.0	00:28:03	3316.7
225.0	00:27:54	3316.6
225.0	00:27:45	3316.6
225.0	00:27:36	3316.6
225.0	00:27:27	3316.5
225.0	00:27:18	3316.5
225.0	00:27:09	3316.7
225.0	00:27:00	3316.6
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225.0	00:26:42	3316.6
225.0	00:26:33	3316.6
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225.0	00:26:06	3316.5
225.0	00:25:57	3316.5
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225.0	00:25:39	3316.5
225.0	00:25:30	3316.6
225.0	00:25:21	3316.5
225.0	00:25:12	3316.5
225.0	00:25:03	3316.5
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225.0	00:24:45	3316.5
225.0	00:24:36	3316.5
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225.0	00:23:42	3316.2
225.0	00:23:33	
225.0	00:23:24	
225.0	00:23:15	
	00:23:06	

225.0	00:22:57	3316.2
225.0	00:22:48	3316.1
225.0	00:22:39	3316.1
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225.0	00:22:21	3316.0
225.0	00:22:12	3315.9
225.0	00:22:03	3315.9
225.0	00:21:54	3315.9
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225.0	00:21:36	3315.8
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225.0	00:20:51	3315.8
225.0	00:20:42	3315.5
225.0	00:20:33	3315.6
225.0	00:20:24	3315.5
225.0	00:20:15	3315.5
225.0	00:20:06	3315.5
225.0	00:19:57	3315.5
225.0	00:19:48	3315.5
225.0	00:19:39	3315.5
225.0	00:19:30	3315.5
225.0	00:19:21	3315.3
225.0	00:19:12	3315.3
225.0	00:19:03	3315.3
225.0	00:18:54	3315.3
225.0	00:18:45	3315.2
225.0	00:18:36	3315.1
225.0	00:18:27	3314.9
225.0	00:18:18	3314.8
225.0	00:18:09	3315.0
225.0	00:18:00	3314.9
225.0	00:17:51	3314.9
225.0	00:17:42	3314.8
225.0	00:17:33	3314.9
225.0	00:17:24	3314.9
225.0	00:17:15	3314.9
225.0	00:17:06	3314.8
225.0	00:16:57	3314.7
225.0	00:16:48	3314.8
225.0	00:16:39	3314.8
225.0	00:16:30	3314.8
225.0	00:16:21	3314.6
225.0	00:16:12	3314.6
225.0	00:16:03	3314.5
225.0	00:15:54	3314.5
225.0	00:15:45	3314.5
225.0	00:15:36	3314.6
225.0	00:15:27	3314.6
225.0	00:15:18	3314.4
225.0	00:15:09	3314.2
225.0	00:15:00	3314.3
225.0	00:14:51	3314.1
225.0	00:14:42	3314.2
225.0	00:14:33	3314.2
225.0	00:14:24	3314.2
225.0	00:14:15	3313.9
225.0	00:14:06	3314.0
225.0	00:13:57	3313.9
225.0	00:13:48	3313.8
225.0	00:13:39	3313.8
225.0	00:13:30	
225.0	00:13:21	
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225.0	00:13:03	
225.0	00:12:54	
225.0	00:12:45	
225.0	00:12:36	
225.0	00:12:27	
225.0	00:12:18	
225.0	00:12:09	



[illegible]

PIP SUMMARY

Parameters

Format: MWP_SL Vertical Scale: 1" per 60S Graphics File Created: 01-Jun-2006 18:06

MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

DEFAULT	PERFO 055LTP	FN:69	PRODUCER	01-Jun-2006 17:19	3332.1 M	13.8 M
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DEFAULT	PERFO 010PTP	FN:9	PRODUCER	01-Jun-2006 18:06
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Perforation Run 1 MWPT 3336.5 to 3338.5 MDKB

MAXIS Field Log

Output DLIS Files

DEFAULT	PERFO 054LUP	FN:68	PRODUCER	31-May-2006 21:08	3380.2 M	3293.8 M
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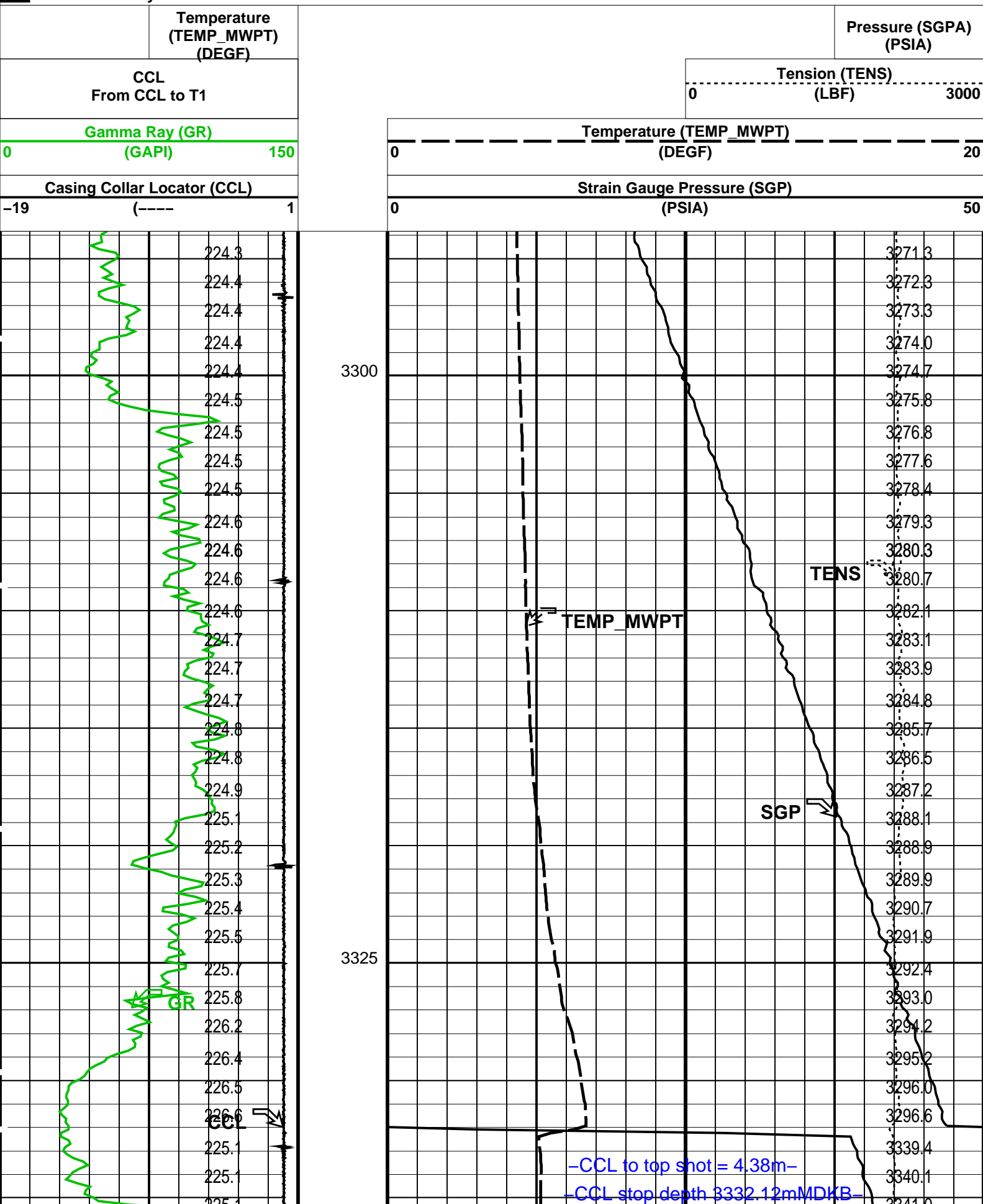
OP System Version: 14C0-302

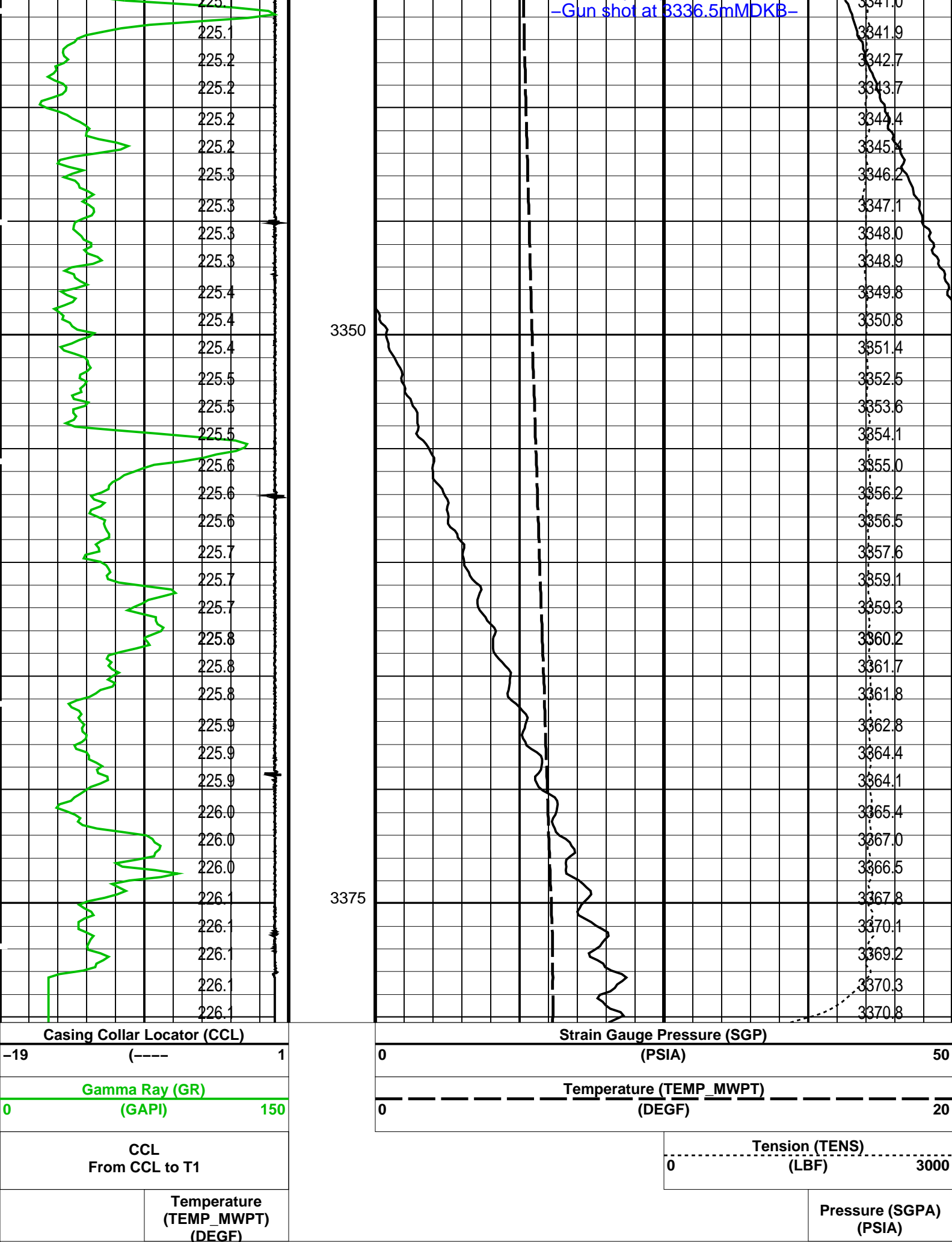
MWP_GUN 14C0-302
MWGT-AA 14C0-302

MWPT-CA 14C0-302

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: 31-May-2006 21:08

OP System Version: 14C0-302

MCM

MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Output DLIS Files

DEFAULT	PERFO_054LUP	FN:68	PRODUCER	31-May-2006 21:08
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Schlumberger

Correlation Pass
Run 1

MAXIS Field Log

Output DLIS Files

DEFAULT	PERFO_053LUP	FN:67	PRODUCER	31-May-2006 20:53	3379.0 M	3303.3 M
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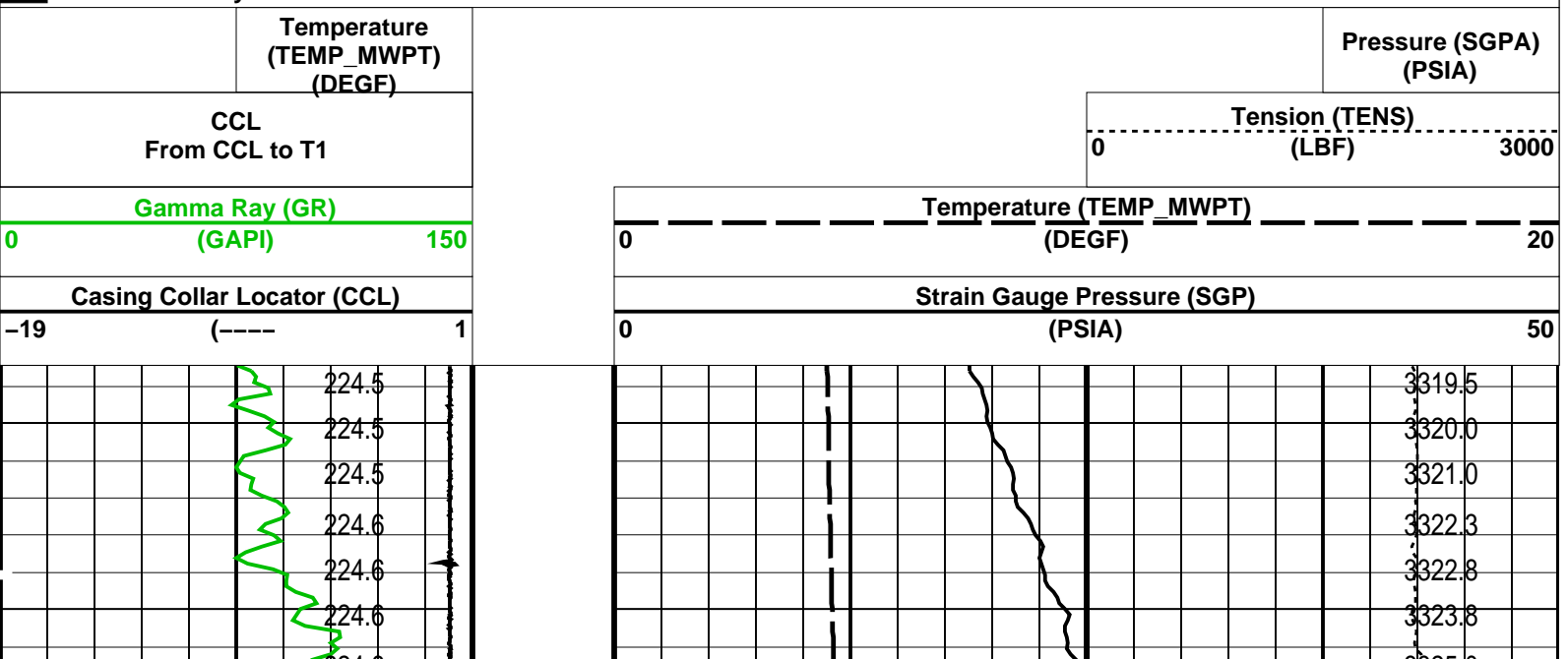
OP System Version: 14C0-302

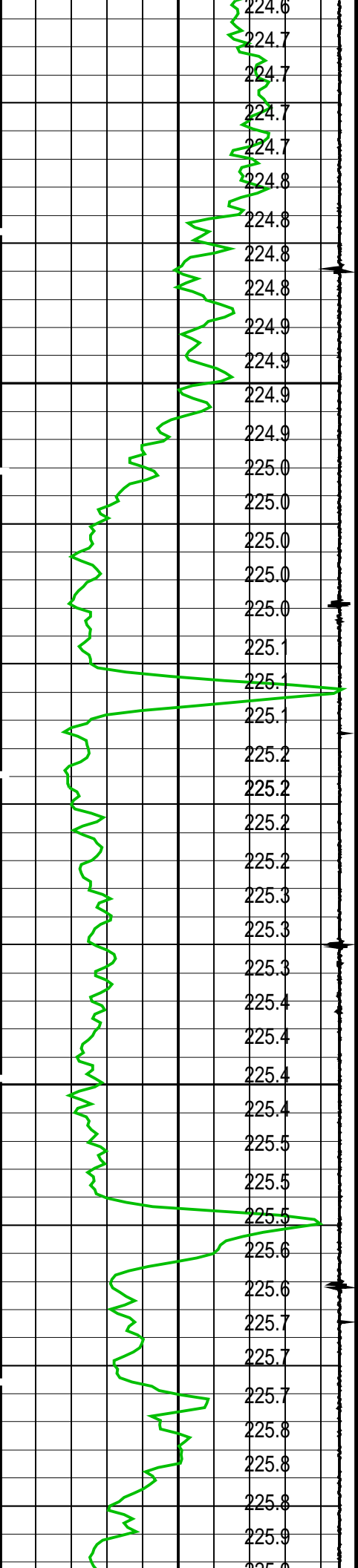
MCM

MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

PIP SUMMARY

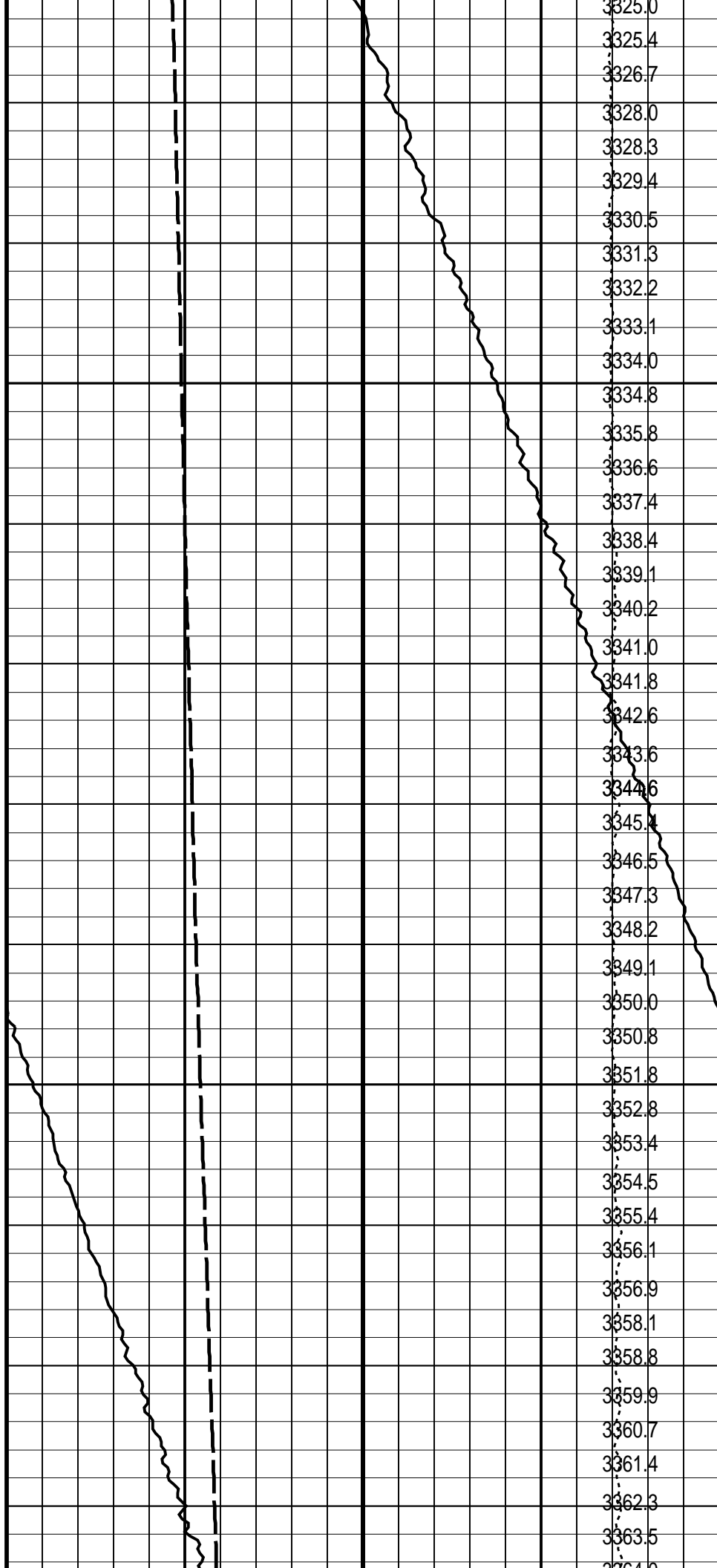
Time Mark Every 60 S

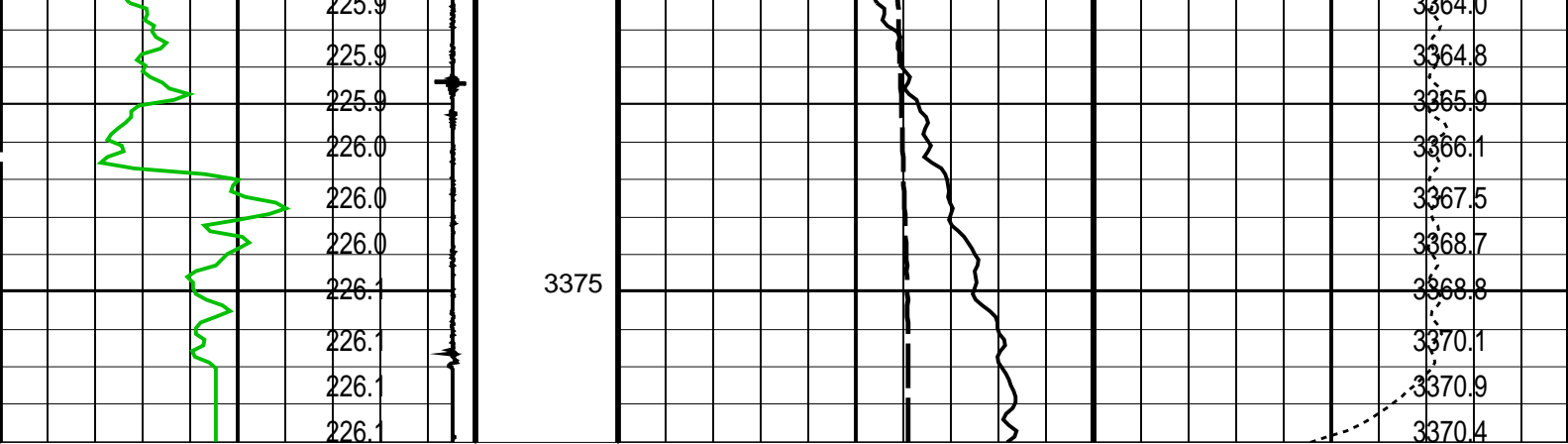




3325

3350





Casing Collar Locator (CCL)		Strain Gauge Pressure (SGP)	
-19 (----) 1		0 (PSIA) 50	
Gamma Ray (GR) (GAPI) 150		Temperature (TEMP_MWPT) (DEGF) 20	
CCL From CCL to T1		Tension (TENS) (LBF) 3000	
Temperature (TEMP_MWPT) (DEGF)		Pressure (SGPA) (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: 31-May-2006 20:53

OP System Version: 14C0-302

MCM

MWP_GUN	14C0-302	MWPT-CA	14C0-302
MWGT-AA	14C0-302		

Output DLIS Files

DEFAULT PERFO_053LUP FN:67 PRODUCER 31-May-2006 20:53

Schlumberger

Calibration

MAXIS Field Log

MWPT Strain Gauge

Serial Number: 189247

Range: 10K

Calibration Date: 15Jun2004
Mean Quadratic Deviation: 0.5800
Offset: 0.0000 PSIA
Calibration Pressure Unit: PSIG
Calibration Temperature Unit: DEGF

	G	H	I	J
0	−3.607234e+002	1.002727e+000	−1.309187e−006	7.627285e−011
1	−2.395652e−001	6.163362e−005	9.912567e−009	−1.112715e−012
2	1.942439e−003	−8.628448e−007	−5.196764e−012	4.177484e−015
3	−4.279148e−006	2.485721e−009	−1.370665e−013	0.000000e+000

Company: **Esso Australia Ltd.**

Schlumberger

Well: **HLA A−6a**
Field: **Halibut**
Rig: **Prod 2 / ISS CWU**
Country: **Austrlalia**

2 1/8" Phased Enerjet
MWPT−Perforating record
PGGT−Perforating record