

Company: Esso Australia Pty Ltd.

Well: FLA A17A

Field: Flounder

Rig: Prod 3 / Flounder Country: Australia

2-1/8" Phased Powerjet
Perforating Record
10-Sep-2007

Rig: Prod 3 / Flounder
Field: Flounder
Location: Bass Strait
Well: FLA A17A
Company: Esso Australia Pty Ltd.

LOCATION			
Bass Strait		Elev.:	K.B. 33.85 m
Gippsland			G.L. -94 m
Basin			D.F. 32.2 m
Permanent Datum:	Mean Sea Level	Elev.:	32.2 m
Log Measured From:	Drill Floor	-32.2 m above Perm. Datum	
Drilling Measured From:	Drill Floor		
State:	Max. Well Deviation	Longitude	Latitude
Victoria	46.03 deg	148° 06' 15.1"E	38° 18'45.24"S

Logging Date	10-Sep-2007
Run Number	1
Depth Driller	3660 m
Schlumberger Depth	3225 m
Bottom Log Interval	3212 m
Top Log Interval	3210 m
Casing Fluid Type	Produced Fluids
Salinity	
Density	1.06 g/cm3
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	6.000 in
From	2896 m
To	3660 m
Casing/Tubing Size	4.500 in
Weight	12.6 lbm/ft
Grade	N-80
From	2610 m
To	3656 m
Maximum Recorded Temperatures	233 degF
Logger On Bottom	10-Sep-2007
Unit Number	93
Recorded By	C.Rowand, B.Donahoe
Witnessed By	Mr B. Davis

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		46.03 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				

Run 4

Date Created: 10-SEP-2007 14:56:50

Logging Cable

Type:	2-32ZT
Serial Number:	24016
Length:	5149.90 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Solar Composite
Reference Log Run Number:	
Reference Log Date:	17-Mar-2005

1. Log correlated to Solar Composite Log provided by Esso.
2. Referenced to RST-C Sigma Log
- 3.
- 4.
- 5.
6. Tool zeroed in the Toolcatcher at -6.5 M.

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

BHT before firing: 229.5 DegE. BHT after firing: 233.1 DegE

ENH Service Logging: 2000 Deg. F ENH and Logging: 2000 Deg.
HUD not Tagged.

Schlumberger Crew:








Peter Lawrence, Paul Flood

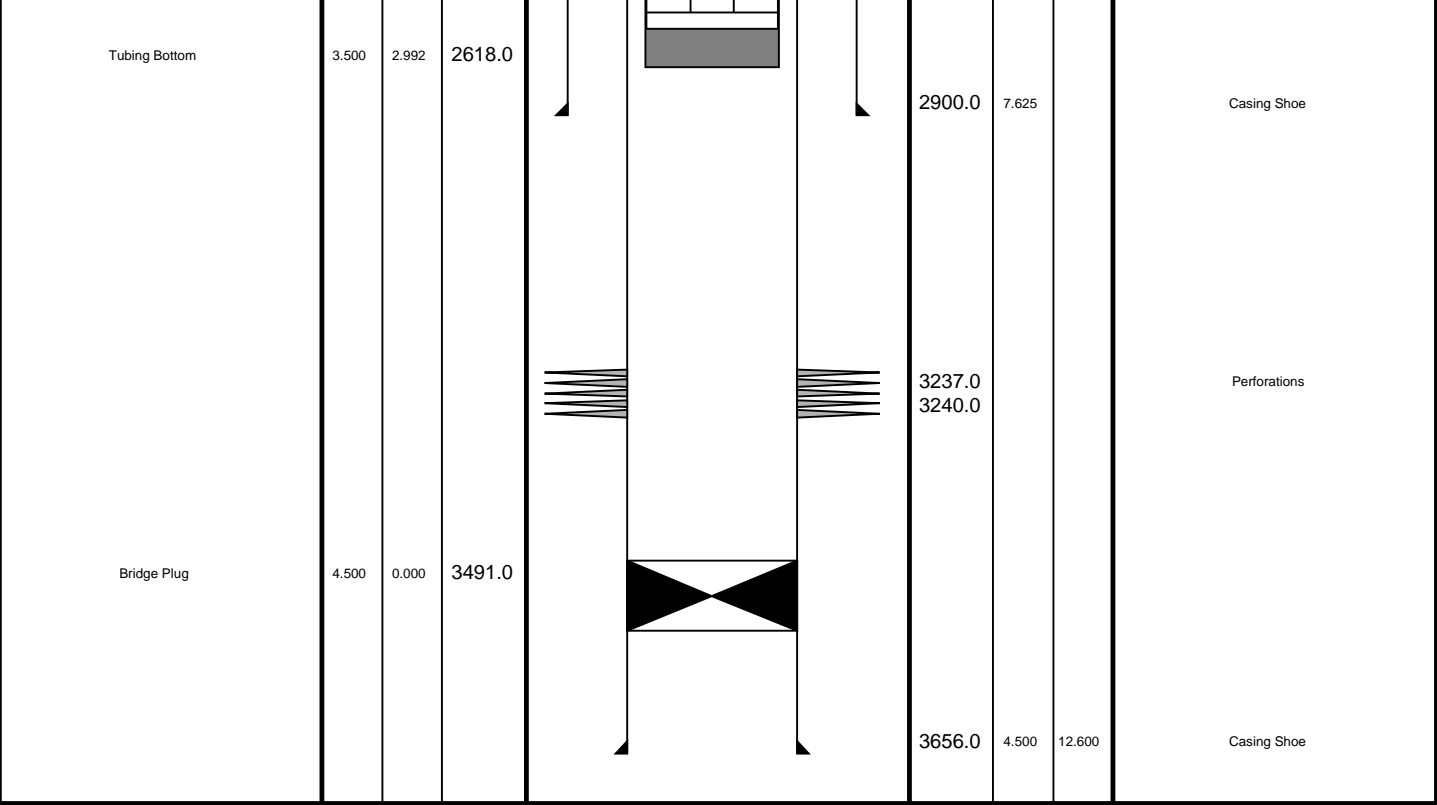
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT					
MWPM-AA 37					
DOWNHOLE EQUIPMENT					
MH-22		13.65			
MH-22					
EQF-46		13.17			
EQF-46 3001					
EQF-46		11.34			
EQF-46					
AH-124		9.51			
MWGT-AA		9.28			
MWPG-AA 19					
MWGH-AA 19	MWPG GR	2.41			
MWPT-DA		8.31			
MWPH-BA 90					
MWPS-AA 121					
	CCL SMWP Pres SMWP Temp Tension	TOOL ZERO			
AH-121		5.49			



Shooting Pass Station Log

MAXIS Field Log

Company: Esso Australia Pty Ltd. Well: FLA A6

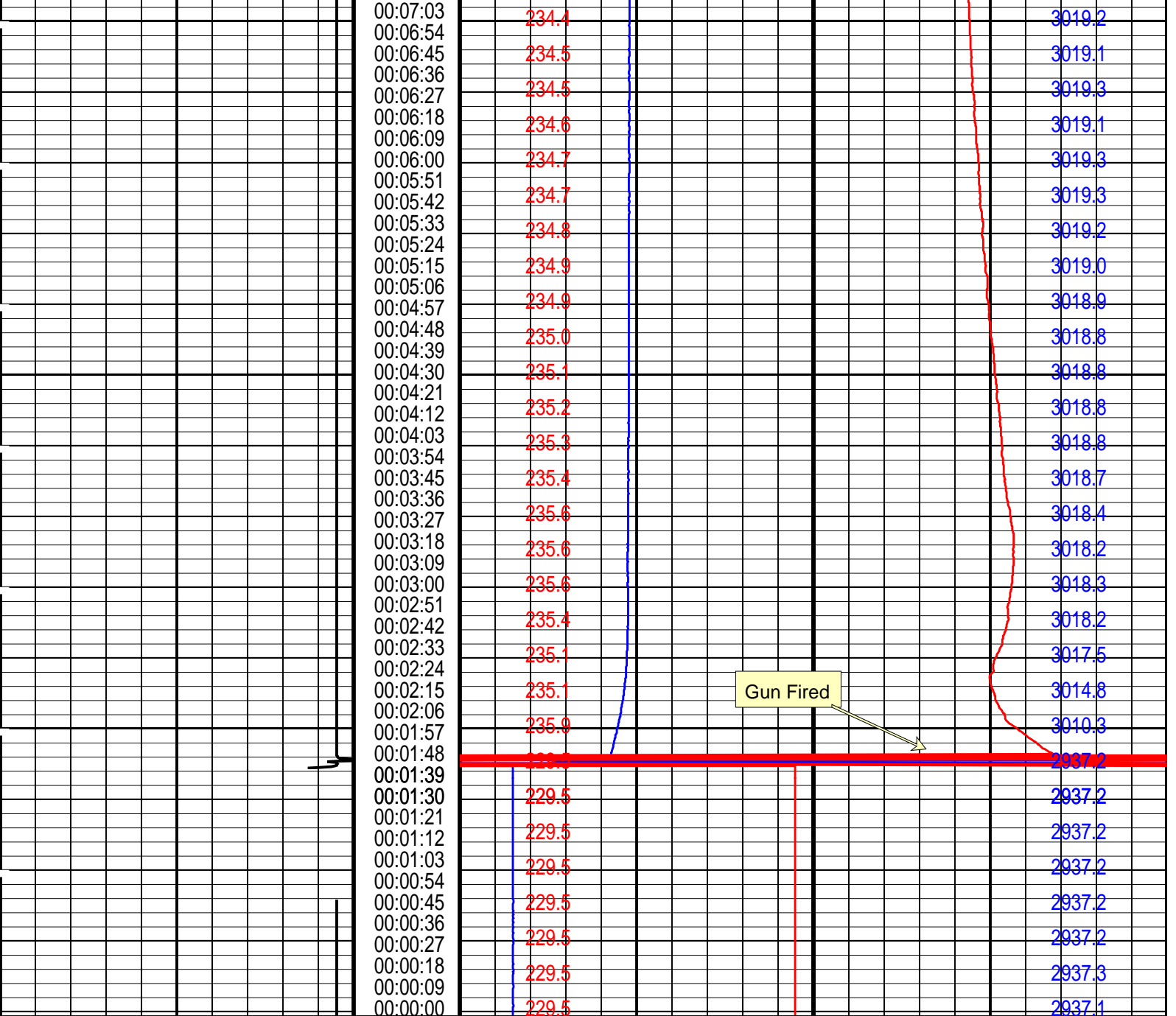
Output DLIS Files						
DEFAULT	PERFO_077LTP	FN:35	PRODUCER	10-Sep-2007 10:45	3207.0 M	2.6 M
OP System Version: 15C0-309						
MCM						
MWP_GUN	SRPC-3357-Q2_2007	MWPT-DA		SRPC-3357-Q2_2007		
MWGT-AA	SRPC-3357-Q2_2007					

PIP SUMMARY

Time Mark Every 60 S

Temperature (TEMP_MWPT_SL)		
220	(DEGF)	240
Temperature		Pressure (SGP_SL)

Casing Collar Locator (CCL_SL)										Elapsed Time (ETIM) (S)	(TEMP_MWPT_SL) (DEGF)	Strain Gauge Pressure (SGP_SL) (PSIG)										Pressure (SGP_SL) (PSIG)
-19 (-----) 1											2900											3400
										00:17:15	233.1							3019.7				
										00:17:06	233.1							3019.7				
										00:16:57	233.1							3019.7				
										00:16:48	233.1							3019.7				
										00:16:39	233.2							3019.7				
										00:16:30	233.2							3019.7				
										00:16:21	233.2							3019.7				
										00:16:12	233.2							3019.7				
										00:16:03	233.2							3019.6				
										00:15:54	233.2							3019.7				
										00:15:45	233.2							3019.7				
										00:15:36	233.2							3019.7				
										00:15:27	233.2							3019.7				
										00:15:18	233.3							3019.8				
										00:15:09	233.3							3019.7				
										00:15:00	233.3							3019.7				
										00:14:51	233.3							3019.8				
										00:14:42	233.3							3019.7				
										00:14:33	233.3							3019.7				
										00:14:24	233.4							3019.7				
										00:14:15	233.4							3019.7				
										00:14:06	233.4							3019.6				
										00:13:57	233.4							3019.7				
										00:13:48	233.4							3019.7				
										00:13:39	233.4							3019.7				
										00:13:30	233.4							3019.6				
										00:13:21	233.4							3019.7				
										00:13:12	233.5							3019.6				
										00:13:03	233.5							3019.7				
										00:12:54	233.5							3019.6				
										00:12:45	233.5							3019.7				
										00:12:36	233.5							3019.8				
										00:12:27	233.6							3019.7				
										00:12:18	233.6							3019.7				
										00:12:09	233.6							3019.7				
										00:12:00	233.6							3019.7				
										00:11:51	233.6							3019.7				
										00:11:42	233.7							3019.7				
										00:11:33	233.7							3019.7				
										00:11:24	233.7							3019.5				
										00:11:15	233.7							3019.6				
										00:11:06	233.7							3019.5				
										00:10:57	233.8							3019.6				
										00:10:48	233.8							3019.5				
										00:10:39	233.8							3019.6				
										00:10:30	233.8							3019.6				
										00:10:21	233.8							3019.6				
										00:10:12	233.9							3019.6				
										00:10:03	233.9							3019.6				
										00:09:54	233.9							3019.6				
										00:09:45	233.9							3019.7				
										00:09:36	233.9							3019.7				
										00:09:27	234.0							3019.7				
										00:09:18	234.0							3019.6				
										00:09:09	234.0							3019.5				
										00:09:00	234.1							3019.6				
										00:08:51	234.1							3019.5				
										00:08:42	234.1							3019.6				
										00:08:33	234.1							3019.5				
										00:08:24	234.2							3019.5				
										00:08:15	234.2							3019.4				
										00:08:06	234.2							3019.4				
										00:07:57	234.3							3019.5				
										00:07:48	234.3							3019.4				
										00:07:39	234.4							3019.4				
										00:07:30	234.4							3019.5				
										00:07:21												
										00:07:12												



Casing Collar Locator (CCL_SL) (-----) 1	Elapsed Time (ETIM) (S)	Strain Gauge Pressure (SGP_SL) (PSIG)	
		2900	3400
	Temperature (TEMP_MWPT_SL) (DEGF)	Pressure (SGP_SL) (PSIG)	
	220	Temperature (TEMP_MWPT_SL) (DEGF)	240

PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
MWPT-DA: 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_SL Vertical Scale: 1" per 60S		Graphics File Created: 10-Sep-2007 10:45	

Output DLIS Files

DEFAULT PERFO_077LTP FN:35 PRODUCER 10-Sep-2007 10:45

Schlumberger

Shooting Pass

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth (M)	Obs Depth (M)	Time Used
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Gun1  Used      3210.0    3210.0 Mon Sep 10 10:47:43 2007
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Company: Esso Australia Pty Ltd.

Well: FLA A6

Output DLIS Files

DEFAULT	PERFO_076LUP	FN:34	PRODUCER	10-Sep-2007 10:40	3222.0 M	3164.7 M
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OP System Version: 15C0-309

MCM

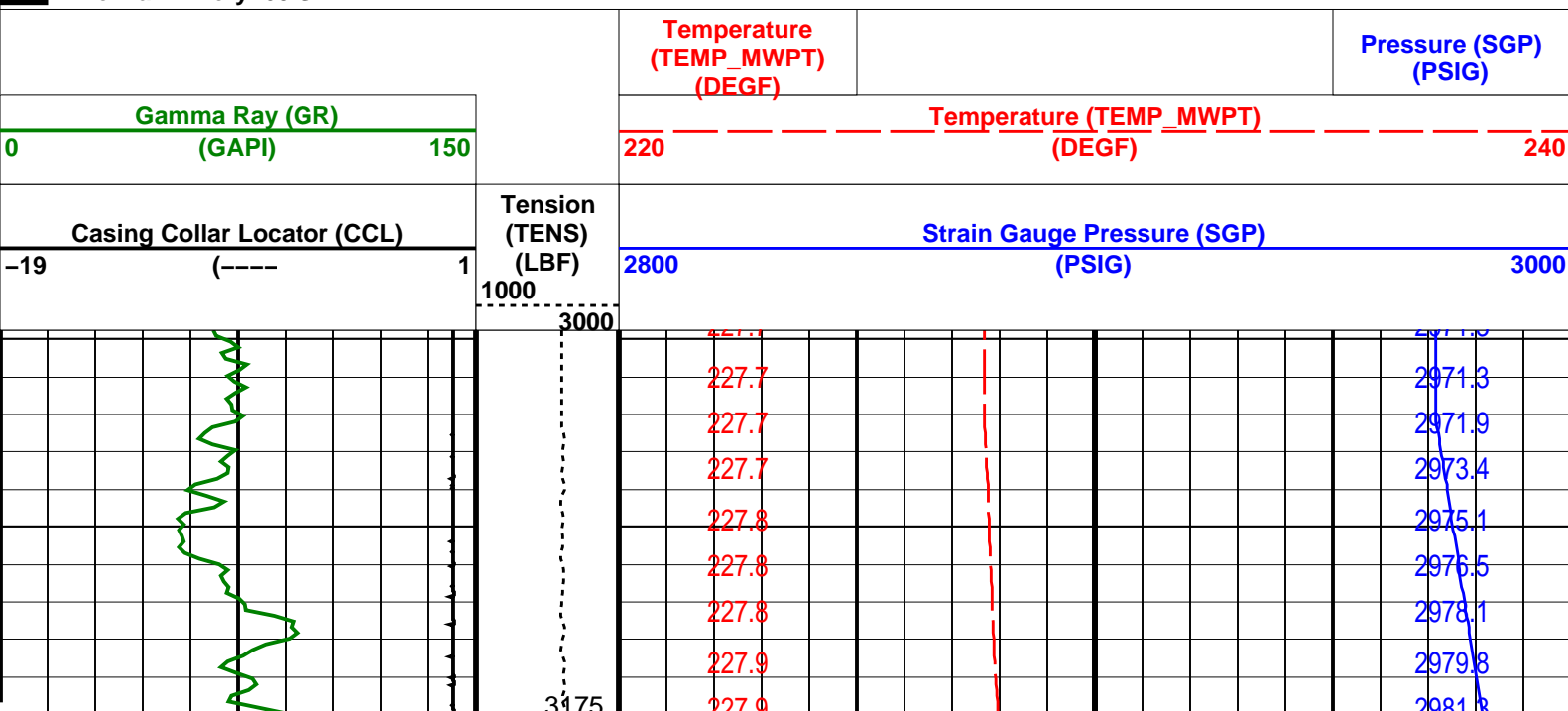
MWP_GUN	SRPC-3357-Q2_2007
MWGT-AA	SRPC-3357-Q2 2007

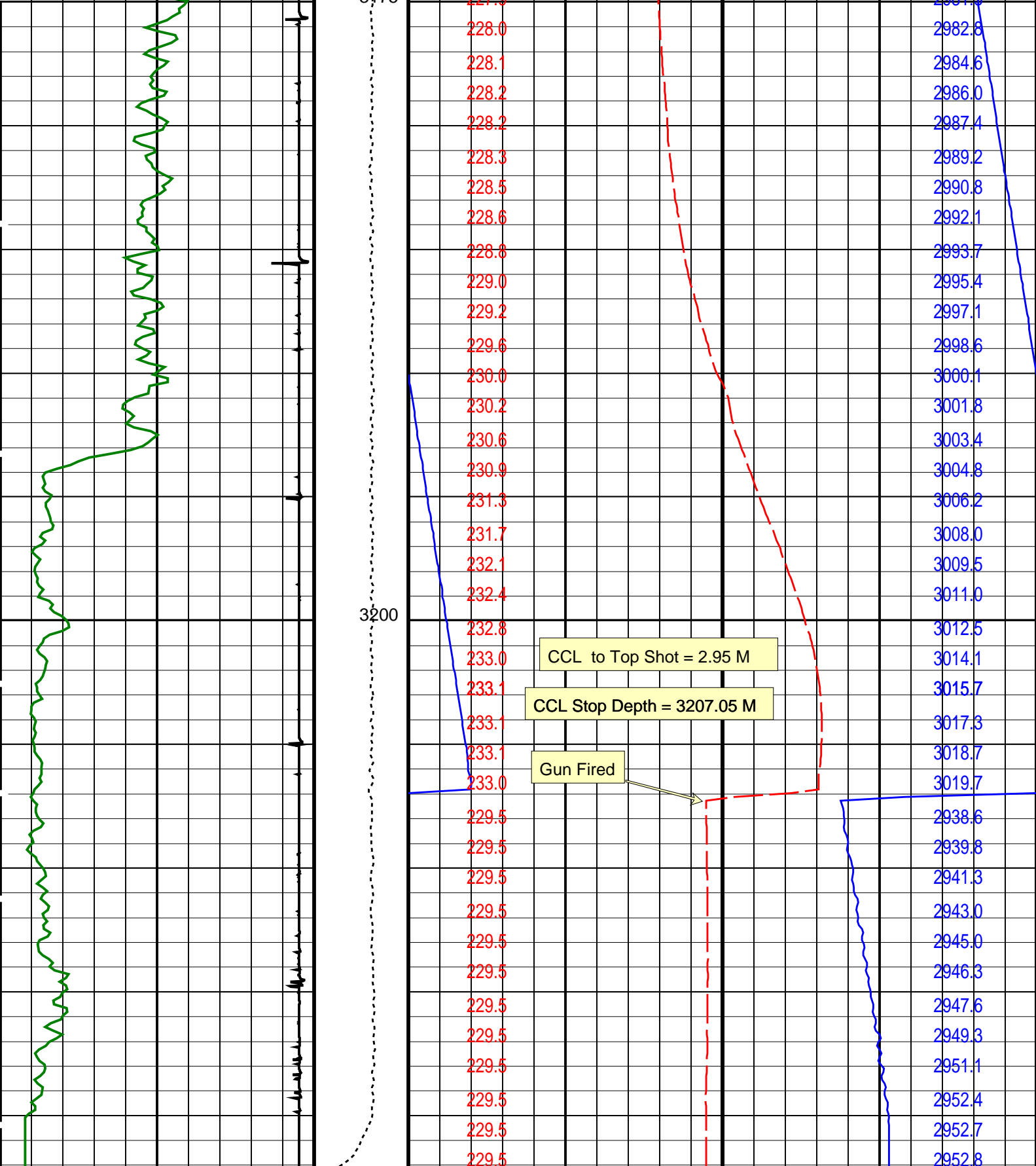
MWPT-DA

SRPC-3357-Q2 2007

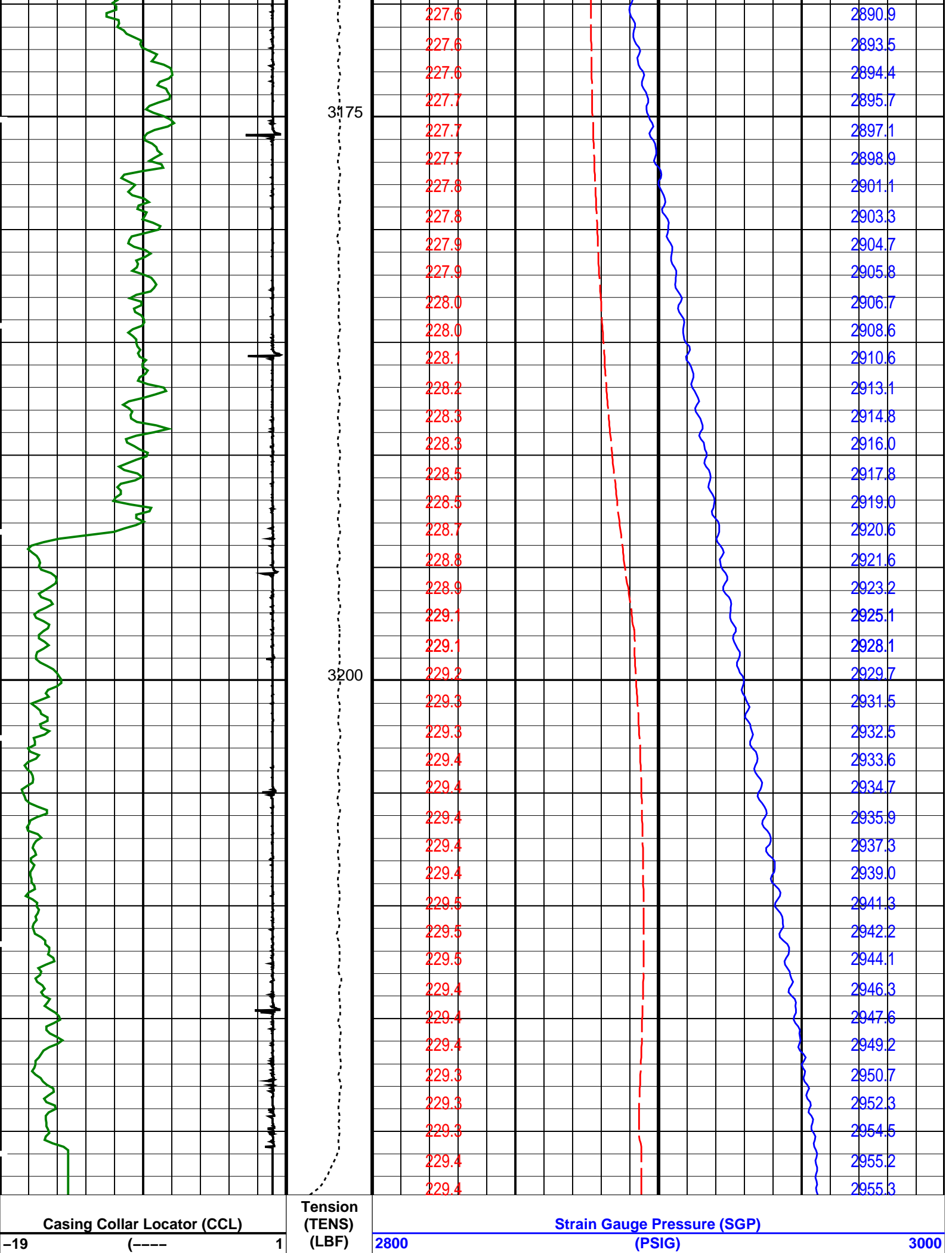
PIP SUMMARY

Time Mark Every 60 S






Casing Collar Locator (CCL)		Tension (TENS) (LBF)	Strain Gauge Pressure (SGP)	
-19	(----) 1		2800	3000
Gamma Ray (GR) (GAPI)		1000	Temperature (TEMP_MWPT)	
0	150	3000	220	240
			Temperature (TEMP_MWPT) (DEGF)	Pressure (SGP) (PSIG)



Gamma Ray (GR) (GAPI)		150	3000	Temperature (TEMP_MWPT) (DEGF)				240
				Temperature (TEMP_MWPT) (DEGF)			Pressure (SGP) (PSIG)	
PIP SUMMARY								
Time Mark Every 60 S								
Parameters								
DLIS Name		Description			Value			
MWPT-DA: 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: 10-Sep-2007 10:11		
OP System Version: 15C0-309								
MCM								
MWP_GUN		SRPC-3357-Q2_2007		MWPT-DA		SRPC-3357-Q2_2007		
MWGT-AA		SRPC-3357-Q2_2007						
Output DLIS Files								
DEFAULT		PERFO_073LUP		FN:31	PRODUCER	10-Sep-2007 10:11		



Before Survey Calibration

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: 9-Sep-2007 13:43								
Gamma Ray (Signal) Background	30.00	N/A	3.209	N/A	N/A	N/A	GAPI	
Gamma Ray (Jig – Background)	174.2	N/A	174.2	N/A	N/A	15.84	GAPI	
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI	

MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL / Equipment Identification

Primary Equipment:
GAMMA RAY CARTRIDGE
MWPG – AA
19

Auxiliary Equipment:
GAMMA RAY HOUSING
MWGH – AA
19

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					

Phase	Summary (Signal) (Log) (Background) (Off)	Value	Phase	Summary (Signal) (Log) (Background) (Off)	Value	Phase	Summary (Signal) (Log) (Background) (Off)	Value
Before		3.209	Before		174.2	Before		165.0
	0 (Minimum)	30.00 (Nominal)		158.4 (Minimum)	174.2 (Nominal)		150.0 (Minimum)	180.0 (Maximum)
Before: 9-Sep-2007 13:43								

Company: **Esso Australia Pty Ltd.**

Schlumberger

Well: **FLA A17A**

Field: **Flounder**

Rig: **Prod 3 / Flounder**

Country: **Australia**

2-1/8" Phased Powerjet
Perforating Record
10-Sep-2007