



Company: **Esso Australia Pty Ltd**

Well: **CBA A28**

Field: **Cobia**

Rig: **175**Country: **Australia**

Junk Basket with 6" Gauge Ring

4 1/2" HSD Powerjet Omega

Perforation Record 19–July–09

LOCATION	Bass Strait Gippsland		Elev.:	K.B.
			G.L.	–79.00 m
			D.F.	41.00 m
	Permanent Datum: <u>MSL</u>		Elev.:	<u>–79.00 m</u>
	Log Measured From: <u>Drill Floor</u>		120.00 m	above Perm. Datum
	Drilling Measured From: <u>Drill Floor</u>			
	State: Victoria	Max. Well Deviation 60.22 deg	Longitude 148° 18' 32.995" E	Latitude 28° 26' 57.465" S

Logging Date		19–Jul–2009	
Run Number		1,2 & 3	
Depth Driller		3995 m	
Schlumberger Depth		3948 m	
Bottom Log Interval		3958 m	
Top Log Interval		3470 m	
Casing Fluid Type		Brine	
Salinity			
Density		8.55 g/cm3	
Fluid Level		0 m	
BIT/CASING/TUBING STRING			
Bit Size		9.875 in	
From		587 m	
To		3995 m	
Casing/Tubing Size		7.000 in	
Weight		26 lbm/ft	
Grade			
From		20 m	
To		3992 m	
Maximum Recorded Temperatures			
Logger On Bottom	Time	19–Jul–2009	16:20
Unit Number	Location	3829	AUSL
Recorded By		M. Pratt, B. Jones	
Witnessed By		M. Culicut, S. Faulkner	

			Run 1	Run 2	Run 3
PVT DATA	Oil Density				
	Water Salinity				
	Gas Gravity				
	Bo				
	Bw				
	1/Bg				
	Bubble Point Pressure				
	Bubble Point Temperature				
	Solution GOR				
Maximum Deviation		60.22 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					

## DEPTH SUMMARY LISTING

Date Created: 20-JUL-2009 5:42:47

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	796	Serial Number:	2268	Serial Number:	708145
Calibration Date:	8-May-2009	Calibration Date:	2-Jul-2009	Length:	7010 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1173		
Calibration Cable Type:	7-46ZV XS	Number of Calibration Points:	9	Conveyance Method:	Wireline
Wheel Correction 1:	-1	Calibration RMS:	41	Rig Type:	Offshore Fixed
Wheel Correction 2:	0	Calibration Peak Error:	51		

## Depth Control Parameters

Log Sequence: First Log In the Well

### Depth Control Remarks

1. Schlumberger Depth Control Policy followed
2. Primary Depth Control Device : IDW
3. Secondary Depth Control Device : Z Chart
4. Primary Tension Control Device : CMTD
- 5.
- 6.

## DISCLAIMER

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## OTHER SERVICES1

OS1: Tubing Correlation  
OS2: GR, CCL  
OS3:  
OS4:  
OS5:

## REMARKS: RUN NUMBER 1















Log correlated to Schlumberger LWD log provided by client  
Objective: RIH with Junk Basket & 6" Gauge ring to HUD, ensure access for HSD run  
Perforate Interval 3772m – 3776.5m with 4–1/2" HSD 12spf, 135/45 deg phased  
performing gun using 4512 Powerjet Omega charges. Secure initiated.  
Correlate Production string on depth using PGGT–C.

HUD tagged @ 3950.7m MDKB @ bottom of Junk Basket
CCL to Bottom Of Junk Basket = 2.52m
Gun 1: Top shot 3772m~3776.5m MDKB
CCL to Top Shot= 3.72m
CCL stop Depth = 3768.28m MDKB
Schlumberger crew:
Days: B. Glover, M. Hancock, Nights: K. Kerr, G. Brady

RUN 1			RUN 2		
SERVICE ORDER #:		4500578305	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		0 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

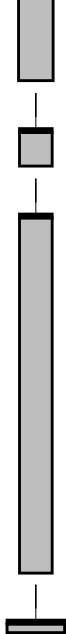
SURFACE EQUIPMENT			SURFACE EQUIPMENT		
WITM (SHM)			WITM (SHM)		

DOWNHOLE EQUIPMENT			DOWNHOLE EQUIPMENT		
<div> <div>PEH-A PEH-A</div> <div>4.47</div> <div>  </div> </div>	<div> <div>AH-64 AH-64</div> <div>3.92</div> <div>  </div> </div>	<div> <div>PGGT-D PGGC PGGH-D</div> <div>3.52</div> <div>  </div> </div>	<div> <div>Gamma Ray</div> <div>1.07</div> <div>  </div> </div>	<div> <div>Casing Co Tension</div> <div>TOOL ZERO</div> <div>  </div> </div>	
			<div> <div>PEH-A PEH-A</div> <div>10.21</div> <div>  </div> </div>		
			<div> <div>AH-64 AH-64</div> <div>9.66</div> <div>  </div> </div>		
			<div> <div>PGGT-D PGGC PGGH-D</div> <div>9.26</div> <div>  </div> </div>	<div> <div>Gamma Ray</div> <div>1.07</div> <div>  </div> </div>	
			<div> <div>Casing Co Tension</div> <div>TOOL ZERO</div> <div>  </div> </div>		
			<div> <div>AH-283</div> <div>7.48</div> <div>  </div> </div>		
			<div> <div>WPSA</div> <div>7.32</div> <div>  </div> </div>		
			<div> <div>Firing Head</div> <div>6.41</div> <div>  </div> </div>		
			<div> <div>4-1/2" HSD PJ Omega 4-1/2" HSD PJ Omega 12spf</div> <div>6.10</div> <div>  </div> </div>		

CCL to Top Shot 3.72m

4.5m Perforation Interval

AH-283  
AH-283  
Junk Basket



1.73  
1.57

6" Gauge Ring

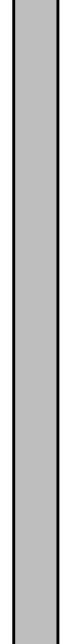
SHM\_GUN

TOOL BOTTOM

0.05  
0.00

MAXIMUM STRING DIAMETER 6.00 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Normal Orientation Interval



SHM\_GUN

TOOL BOTTOM

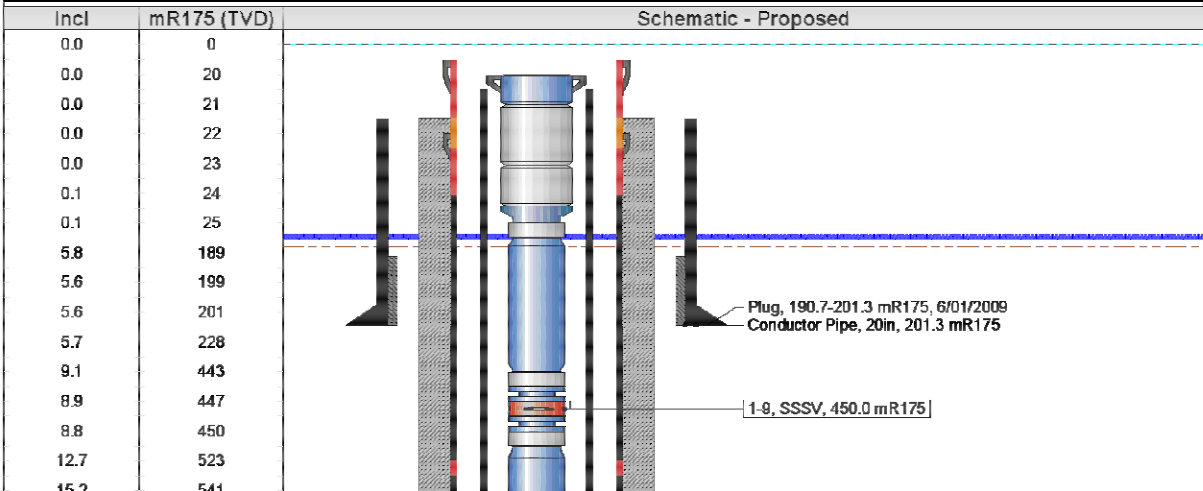
0.00

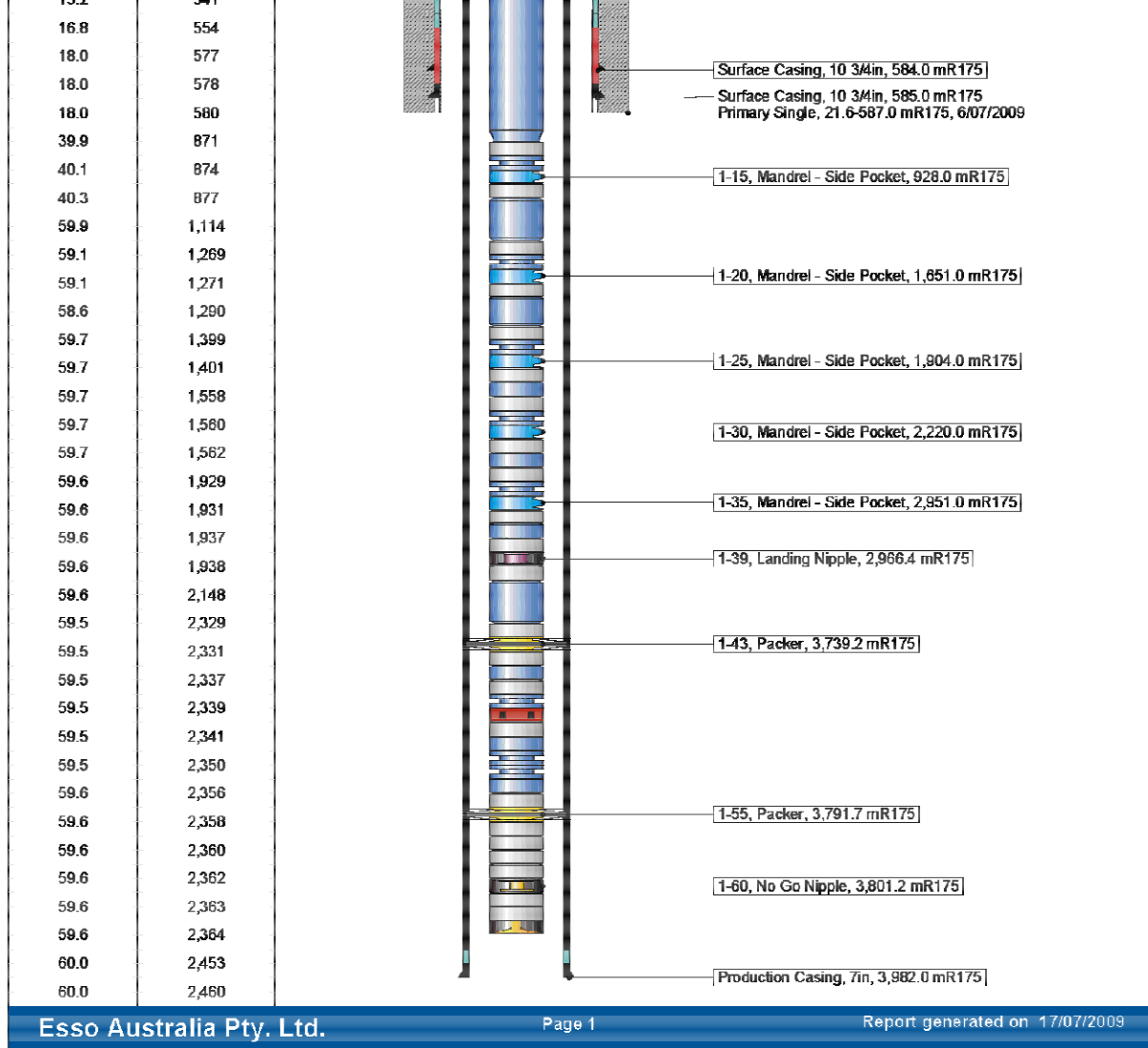
MAXIMUM STRING DIAMETER 4.50 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

COBIA A28: Proposed Schematic

Original KB = 40.99 m  
COBIA A28 Wibr KB: Check UDB Data in Excel

Working KB = 40.99 m  
Current KB selected = 40.99 m





**Schlumberger**

## Job Events Summary

MAXIS Field Log

### Schlumberger Job Event Summary

	Time	Elapsed Time	Depth (M)	File
Log Pass (up)	19-Jul-2009 16:49	000:22	3963.8 - 3467.4	PERFO_016LUP
Log Pass (up)	20-Jul-2009 20:43	000:10	3850.1 - 3750.0	PERFO_042LUP
Log Pass (up)	20-Jul-2009 20:56	000:53	3850.1 - 3719.5	PERFO_043LUP
Log Pass (up)	22-Jul-2009 13:36	000:07	3801.9 - 3724.2	PERFO_113LUP

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: CBA A28

## Input DLIS Files

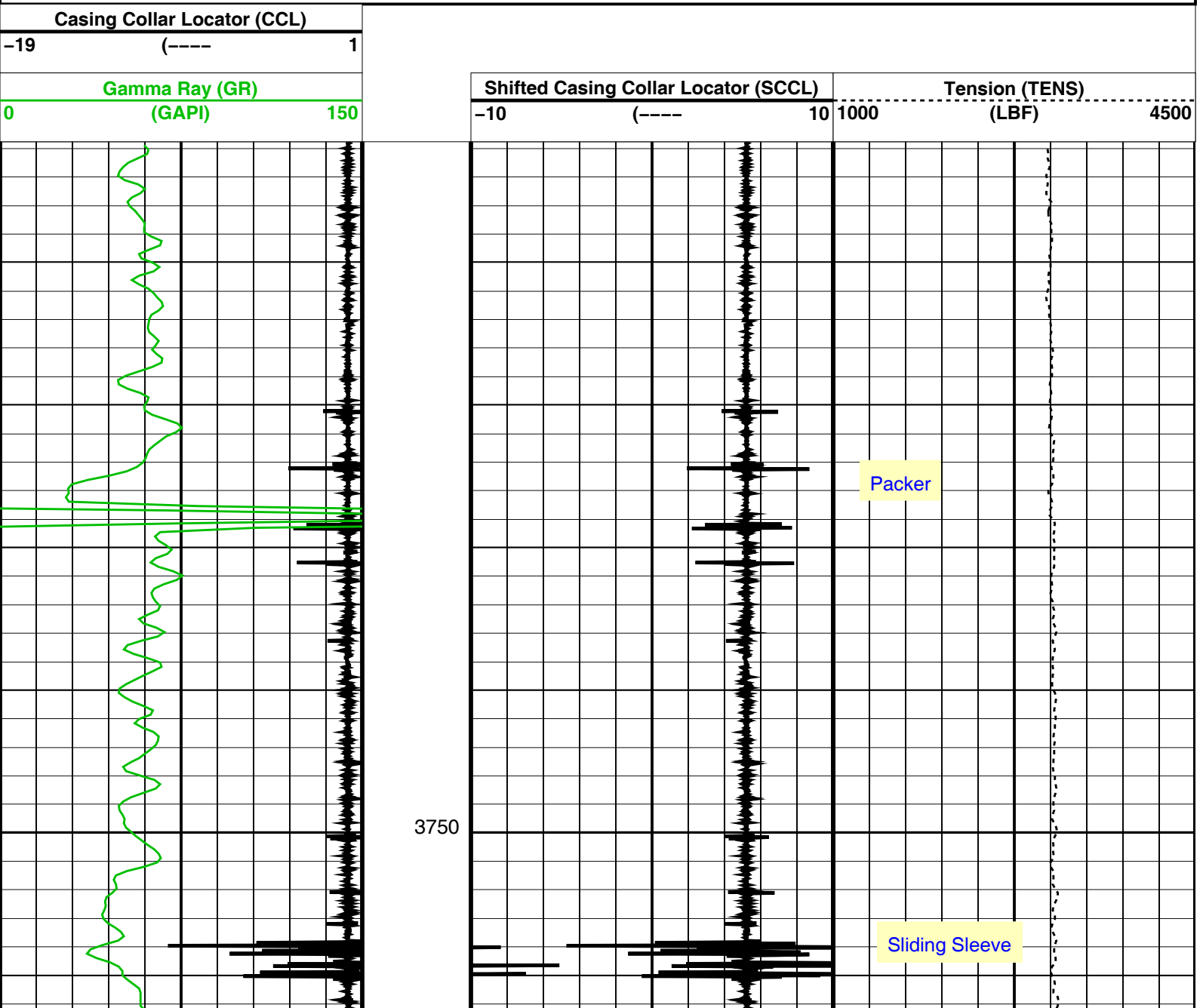
DEFAULT	PERFO_113LUP	FN:83	PRODUCER	22-Jul-2009 13:36	3801.9 M	3724.2 M
---------	--------------	-------	----------	-------------------	----------	----------

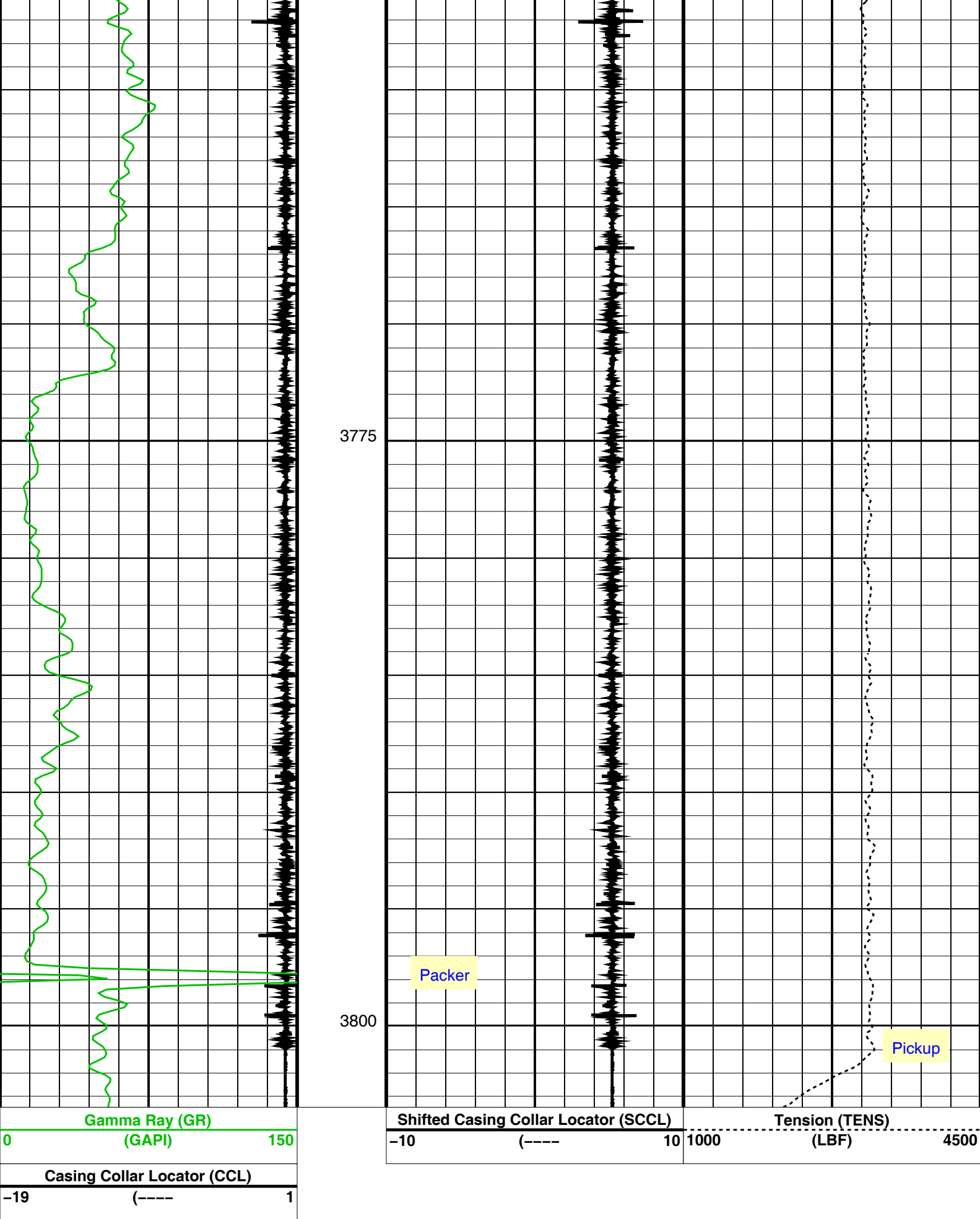
## Output DLIS Files

DEFAULT	PERFO_114PUP	FN:84	PRODUCER	22-Jul-2009 13:47	3803.4 M	3725.7 M
---------	--------------	-------	----------	-------------------	----------	----------

## OP System Version: 17C0-154

SHM_GUN	17C0-154	PGGT-CC	17C0-154
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Parameters		
DLIS Name	Description	Value

DO  
PP

System and Miscellaneous  
Depth Offset for Playback  
Playback Processing

1.5  
M  
NORMAL

Format: CORRELATION    Vertical Scale: 1:200    Graphics File Created: 22-Jul-2009 13:47

OP System Version: 17C0-154

SHM\_GUN    17C0-154    PGGT-CC    17C0-154

Input DLIS Files

DEFAULT    PERFO\_113LUP    FN:83    PRODUCER    22-Jul-2009 13:36    3801.9 M    3724.2 M

Output DLIS Files

DEFAULT    PERFO\_114PUP    FN:84    PRODUCER    22-Jul-2009 13:47

Schlumberger

Junk Basket # 2 with 6" Gauge Ring  
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd    Well: CBA A28

Input DLIS Files

DEFAULT    PERFO\_051LUP    FN:55    PRODUCER    21-Jul-2009 02:37    3820.5 M    3489.8 M

Output DLIS Files

DEFAULT    PERFO\_055PUP    FN:59    PRODUCER    21-Jul-2009 05:08    3816.1 M    3485.5 M

CUSTOMER    PERFO\_055PUC    FN:60    CUSTOMER    21-Jul-2009 05:08    3816.1 M    3485.5 M

OP System Version: 17C0-154

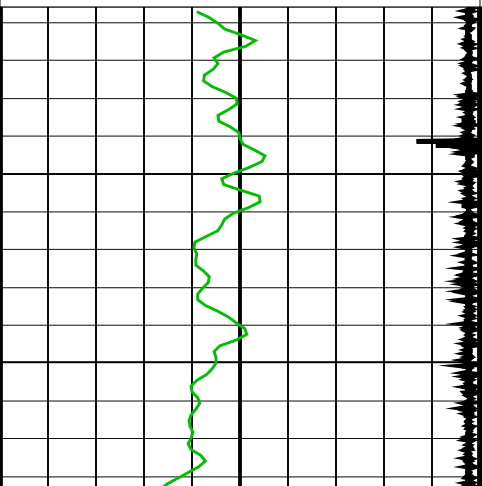
SHM\_GUN    17C0-154    PGGT-D    17C0-154

Casing Collar Locator (CCL)

-19    (----)    1

Gamma Ray (GR)  
(GAPI)

0    150

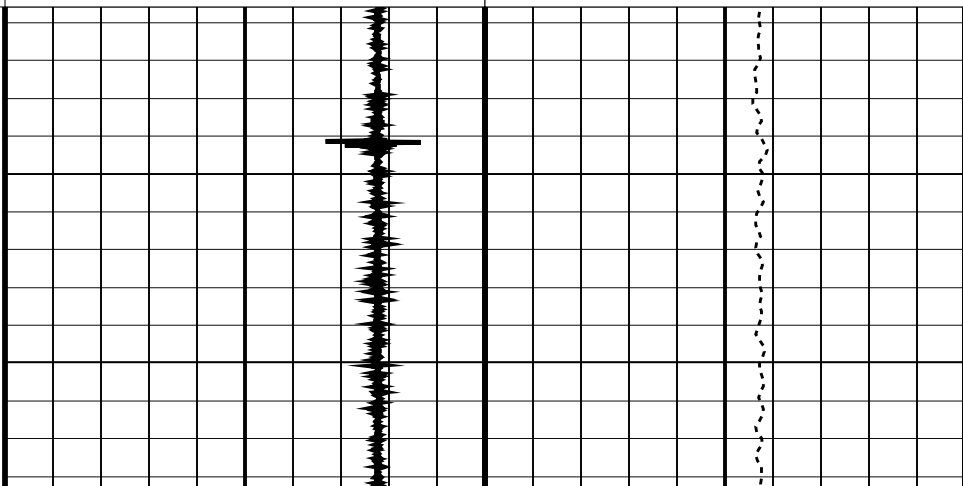


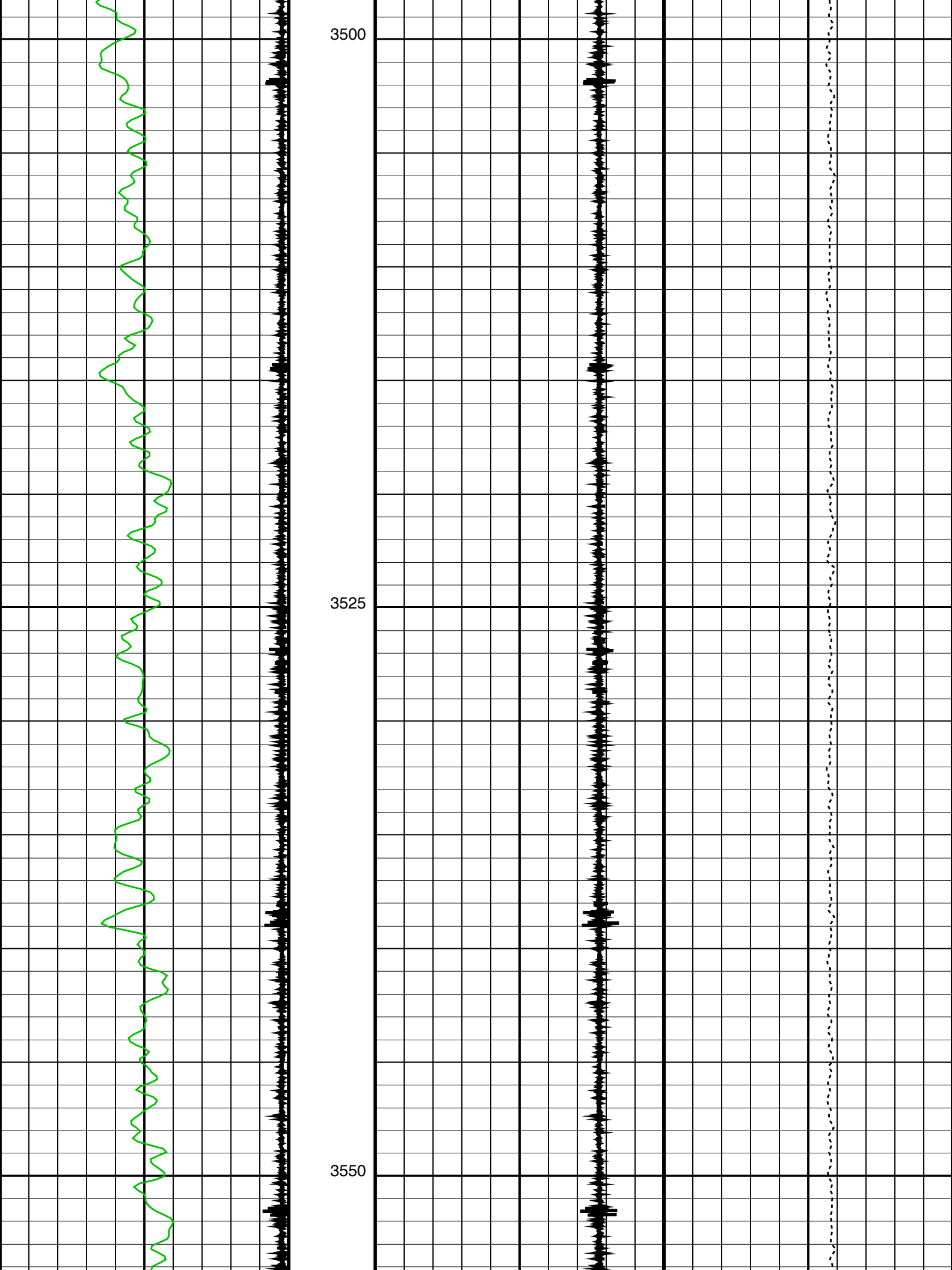
Shifted Casing Collar Locator (SCCL)

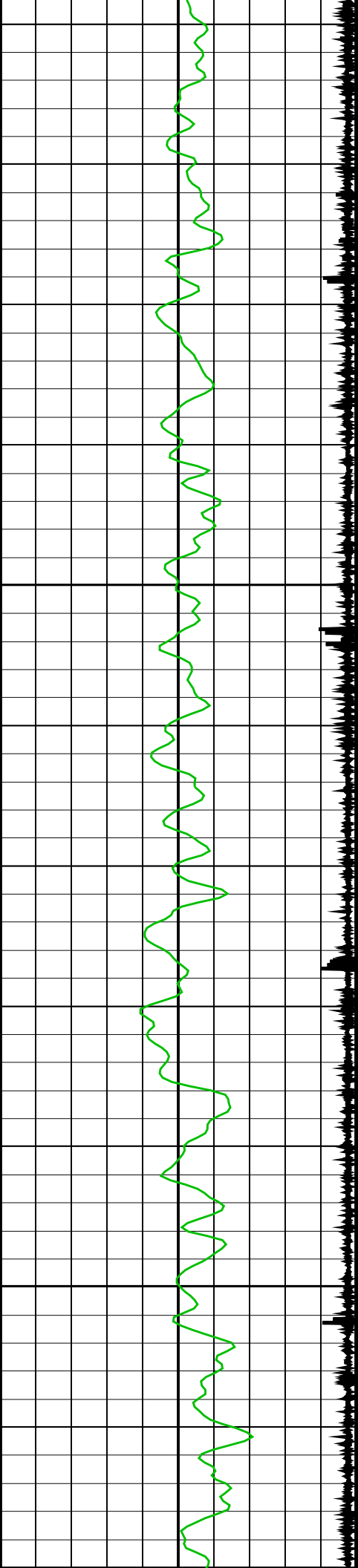
-10    (----)    10

Tension (TENS)  
(LBF)

1000    4500

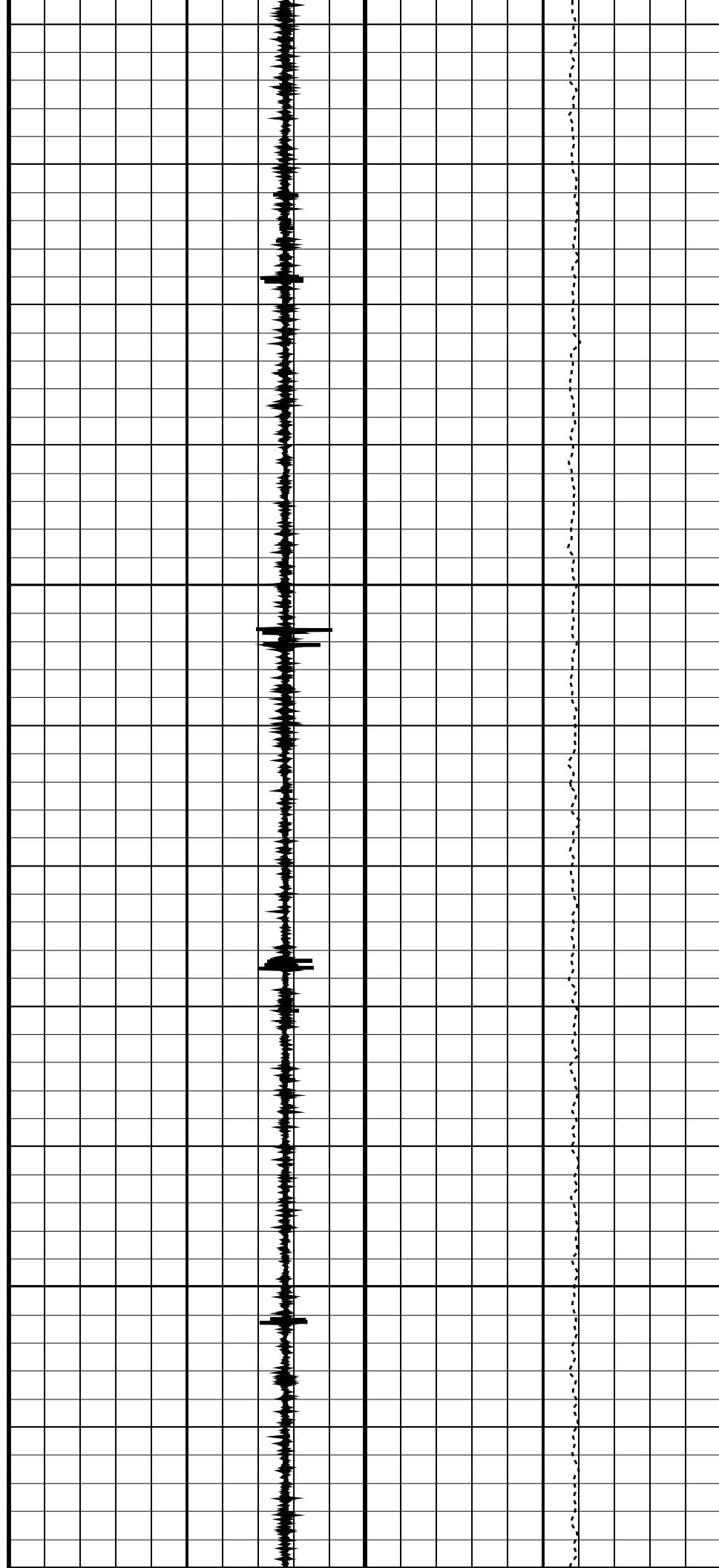


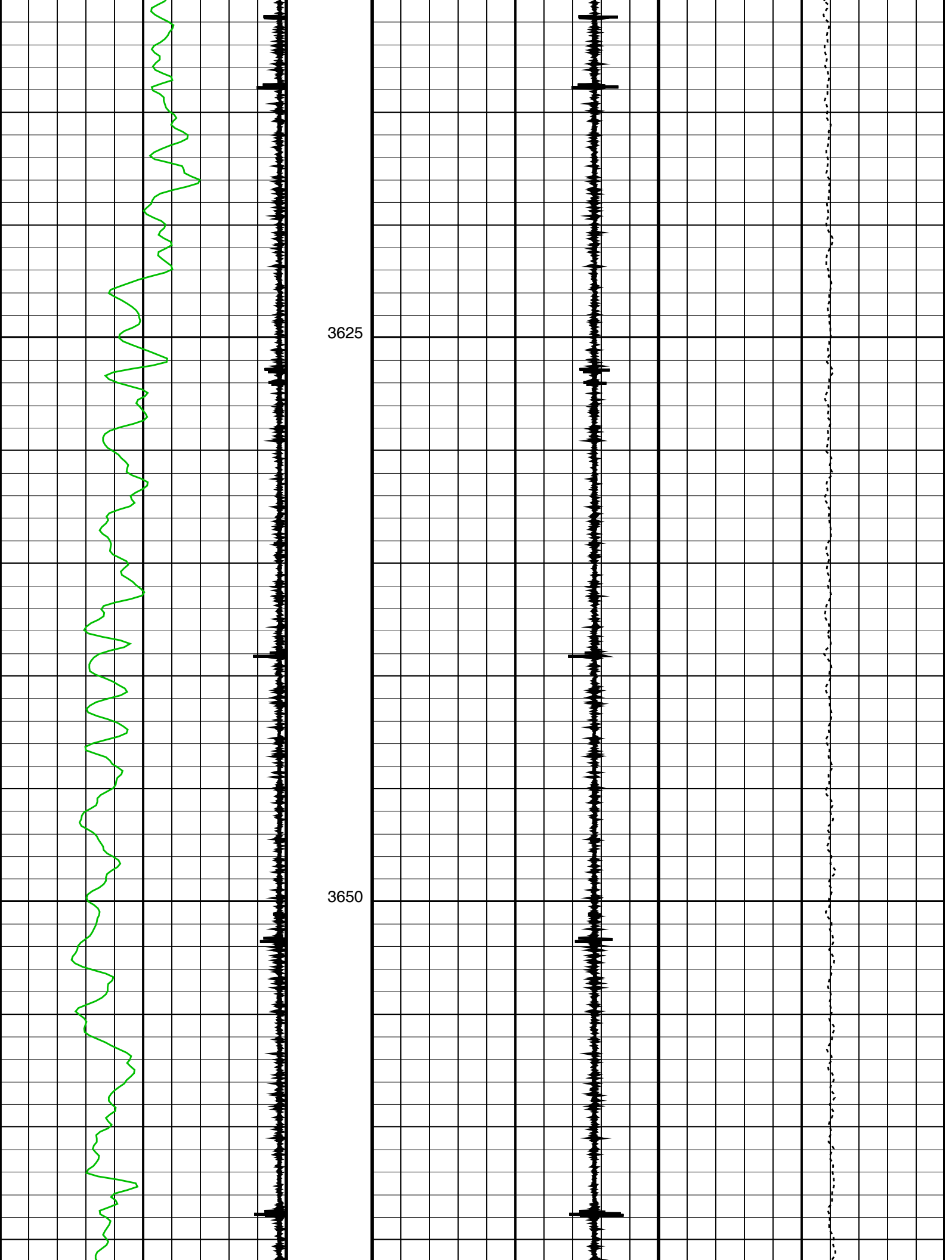


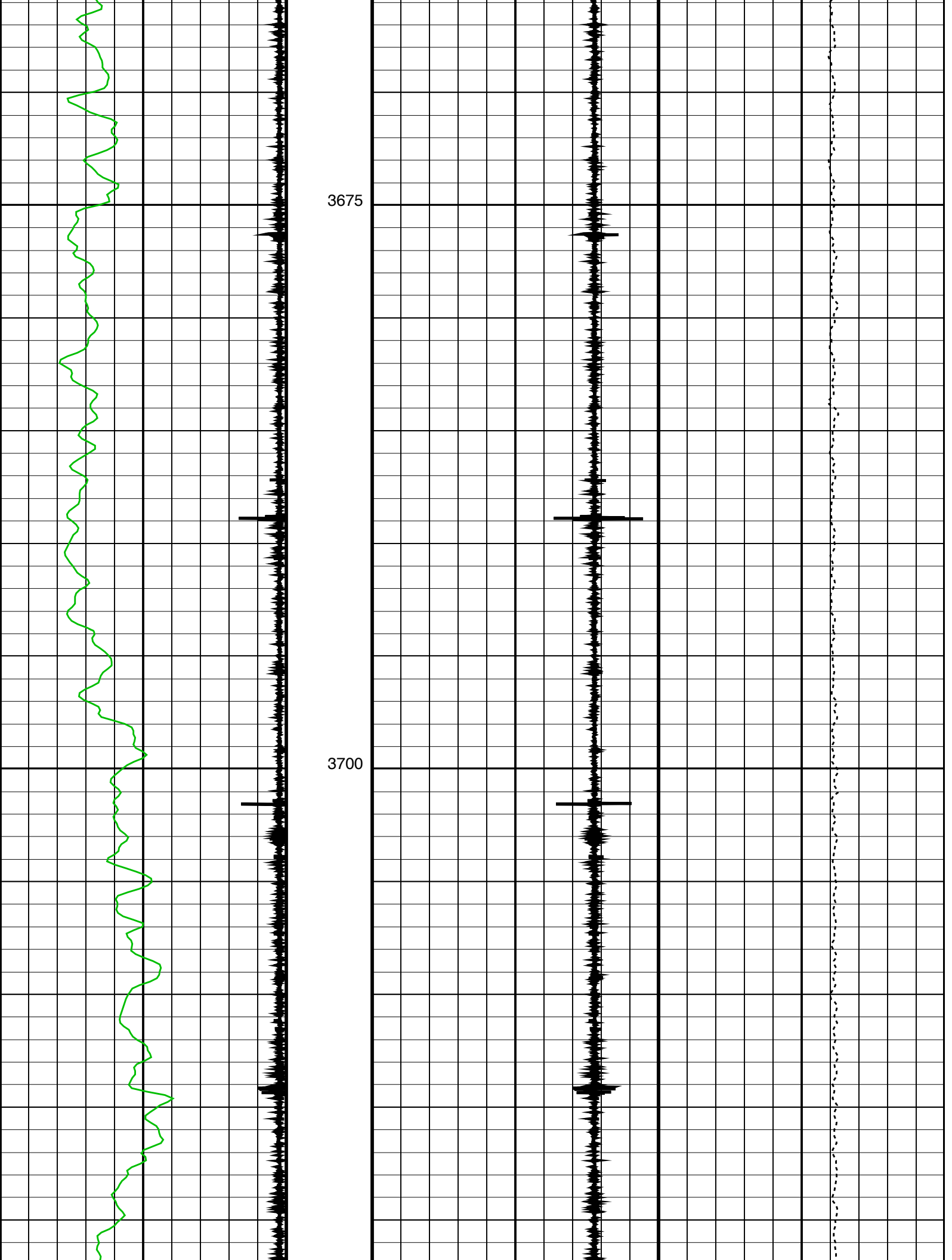


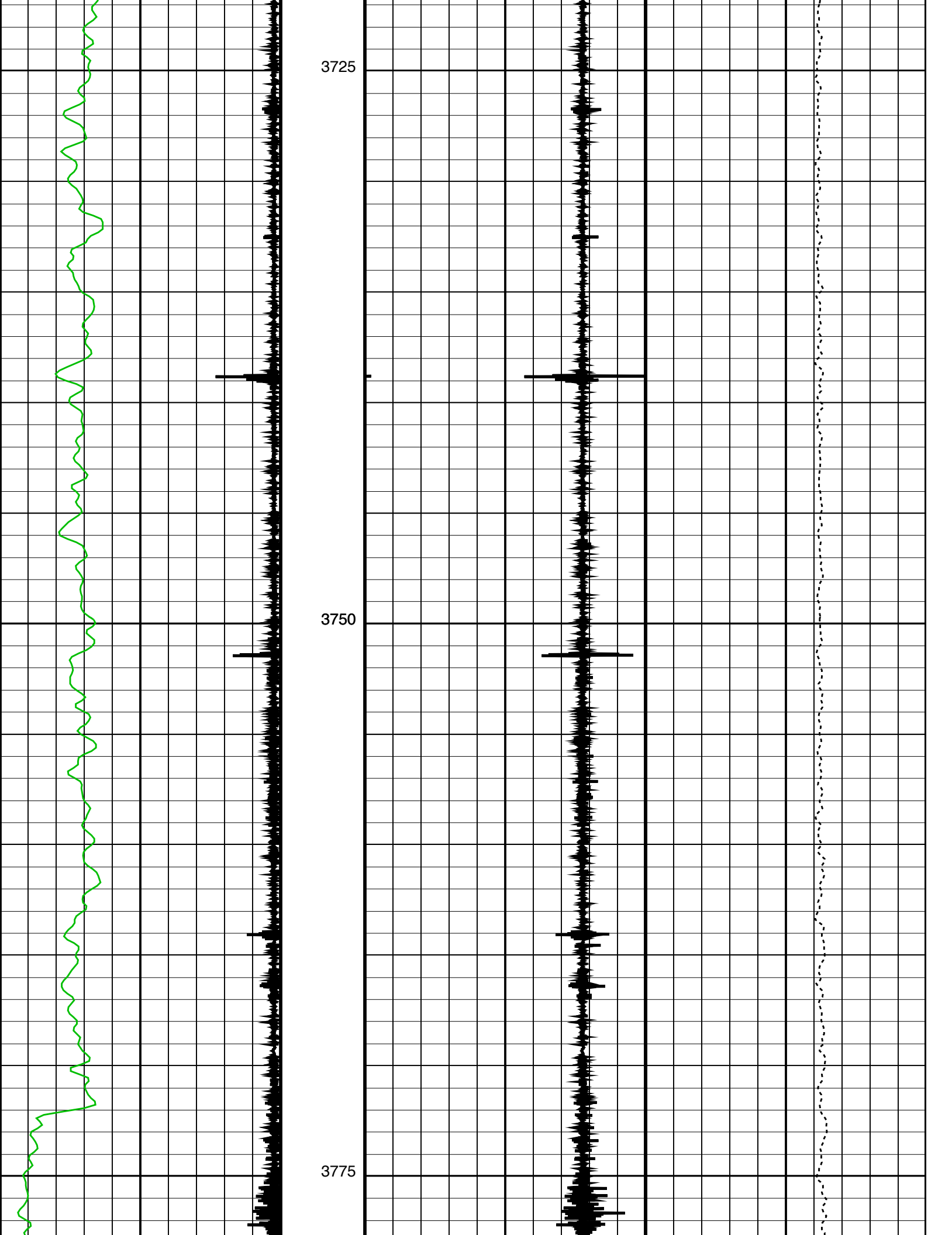
3575

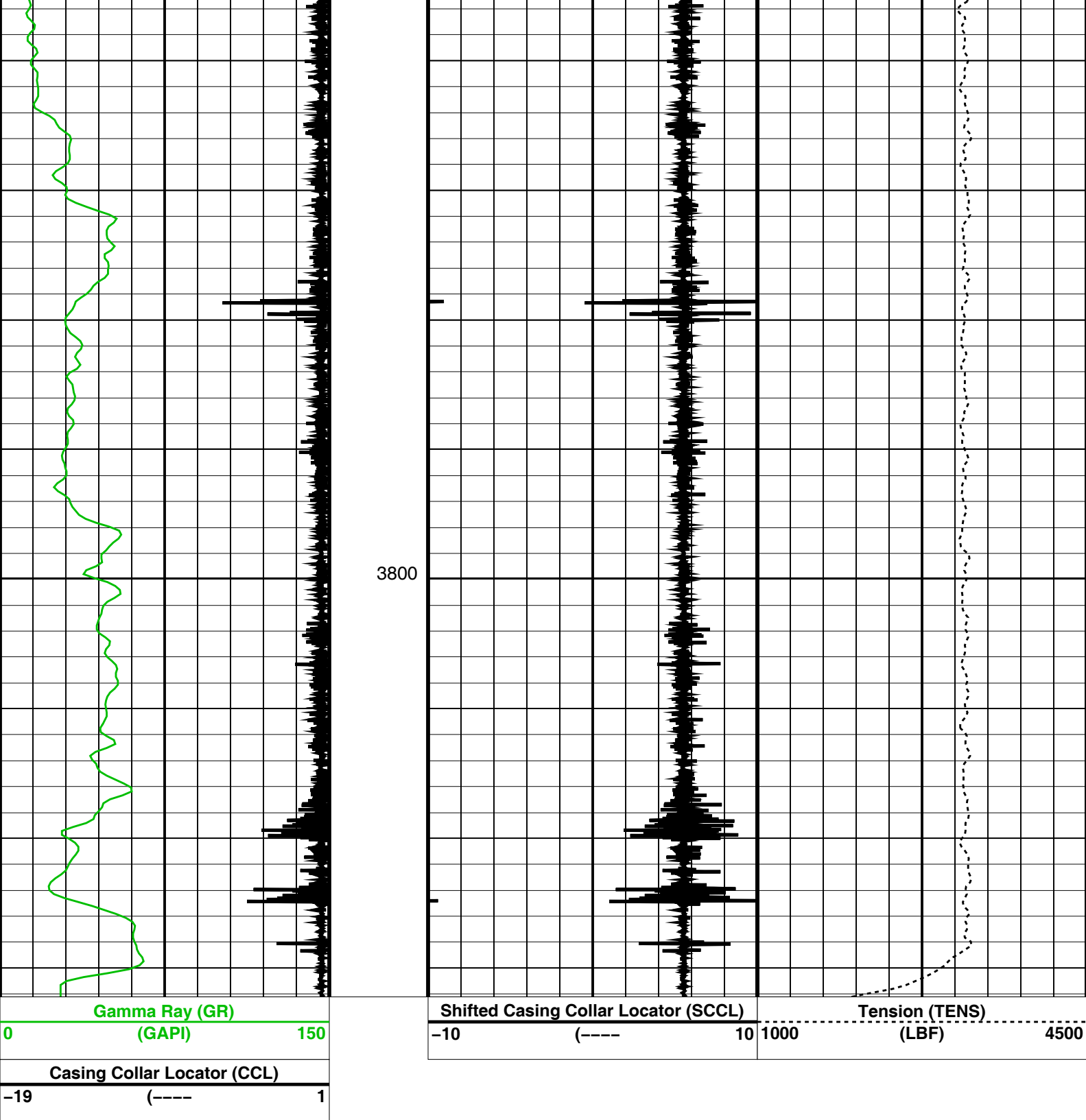
3600











Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	-4.4 M
	Playback Processing	NORMAL

Format: CORRELATION    Vertical Scale: 1:200    Graphics File Created: 21-Jul-2009 05:08

OP System Version: 17C0-154

SHM\_GUN    17C0-154    PGGT-D    17C0-154

Input DLIS Files

DEFAULT PERFO\_051LUP FN:55 PRODUCER 21-Jul-2009 02:37 3820.5 M 3489.8 M

Output DLIS Files

DEFAULT PERFO\_055PUP FN:59 PRODUCER 21-Jul-2009 05:08  
CUSTOMER PERFO\_055PUC FN:60 CUSTOMER 21-Jul-2009 05:08



4-1/2" HSD Power jet Omega Shooting Pass

MAXIS Field Log

PERFO2 Operational Summary Listing

Device	Status	Req Depth ( M)	Obs Depth ( M)	Time Used
GUN1	Used	3772.0	3772.0	Mon Jul 20 21:10:30 2009

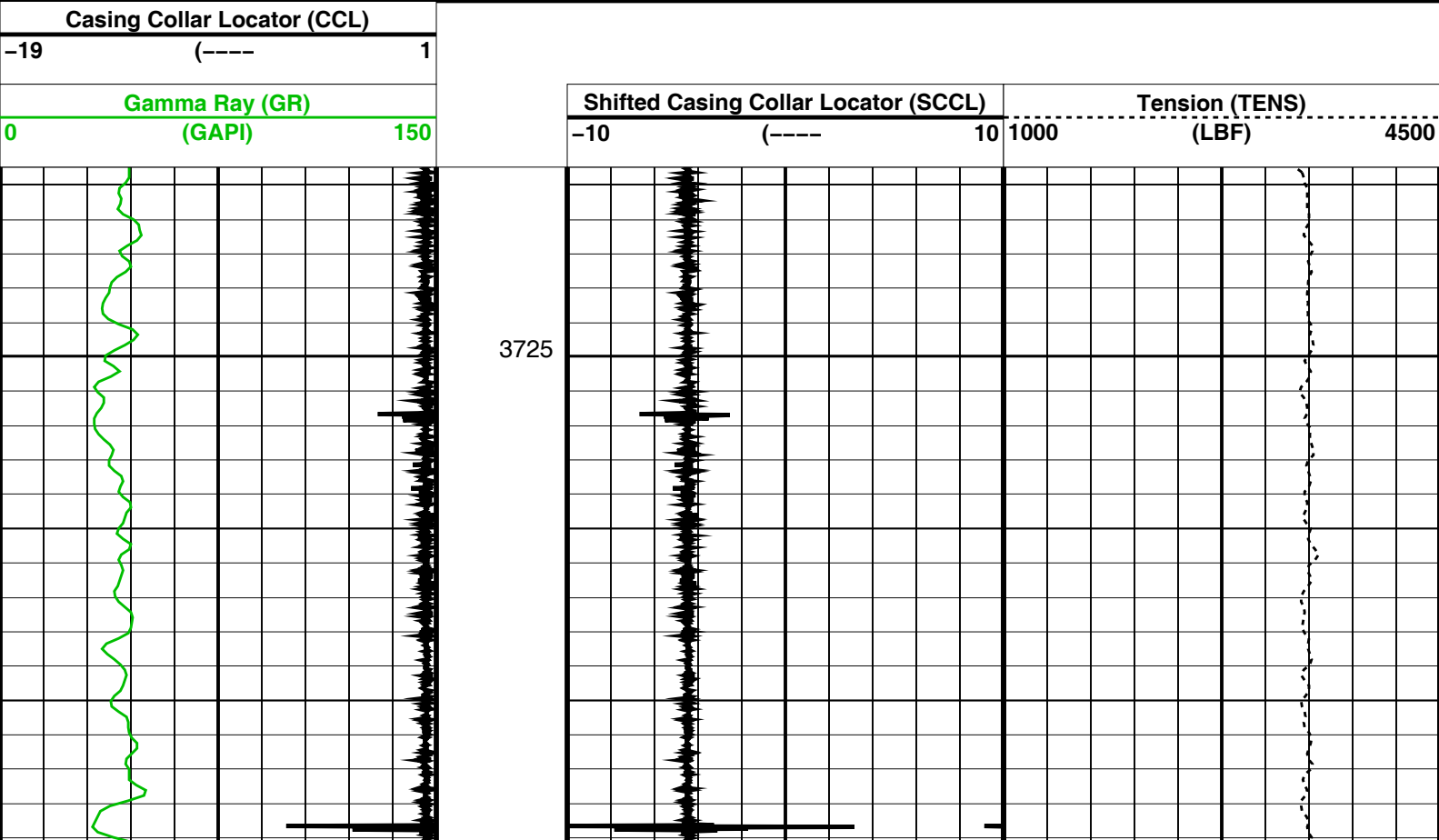
Company: Esso Australia Pty Ltd Well: CBA A28

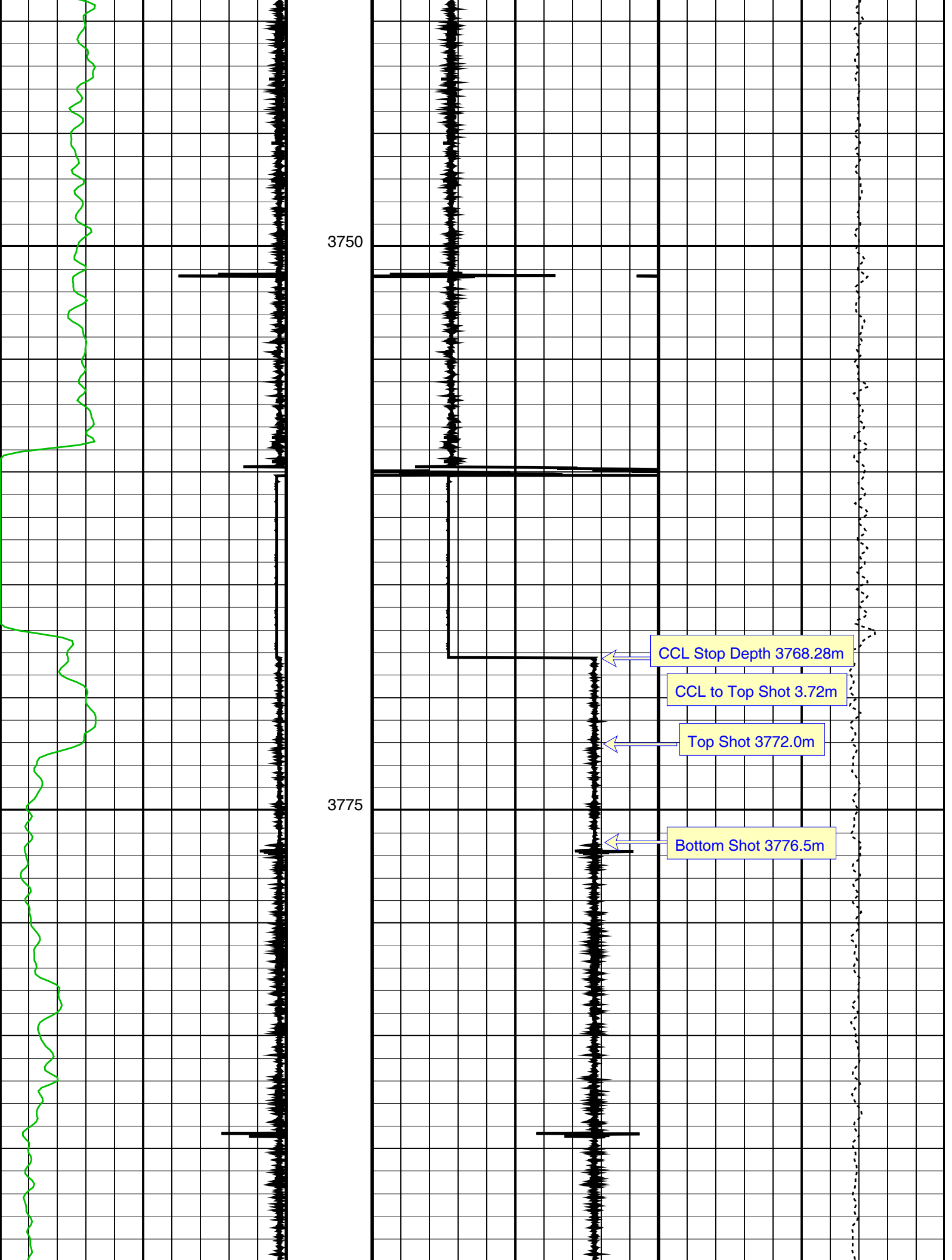
Output DLIS Files

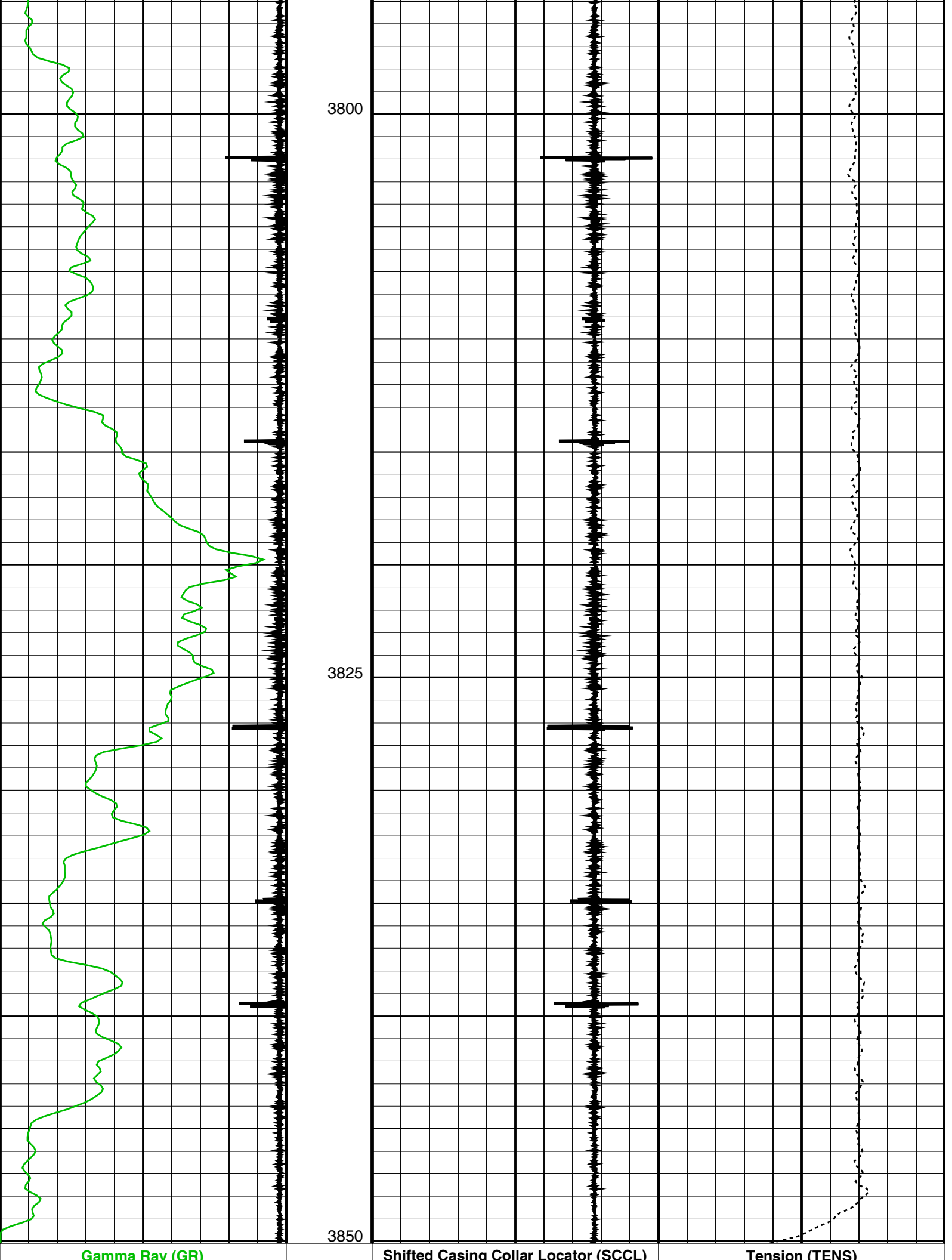
DEFAULT PERFO\_043LUP FN:47 PRODUCER 20-Jul-2009 20:56 3850.1 M 3719.5 M

OP System Version: 17C0-154

SHM\_GUN 17C0-154 PGGT-D 17C0-154







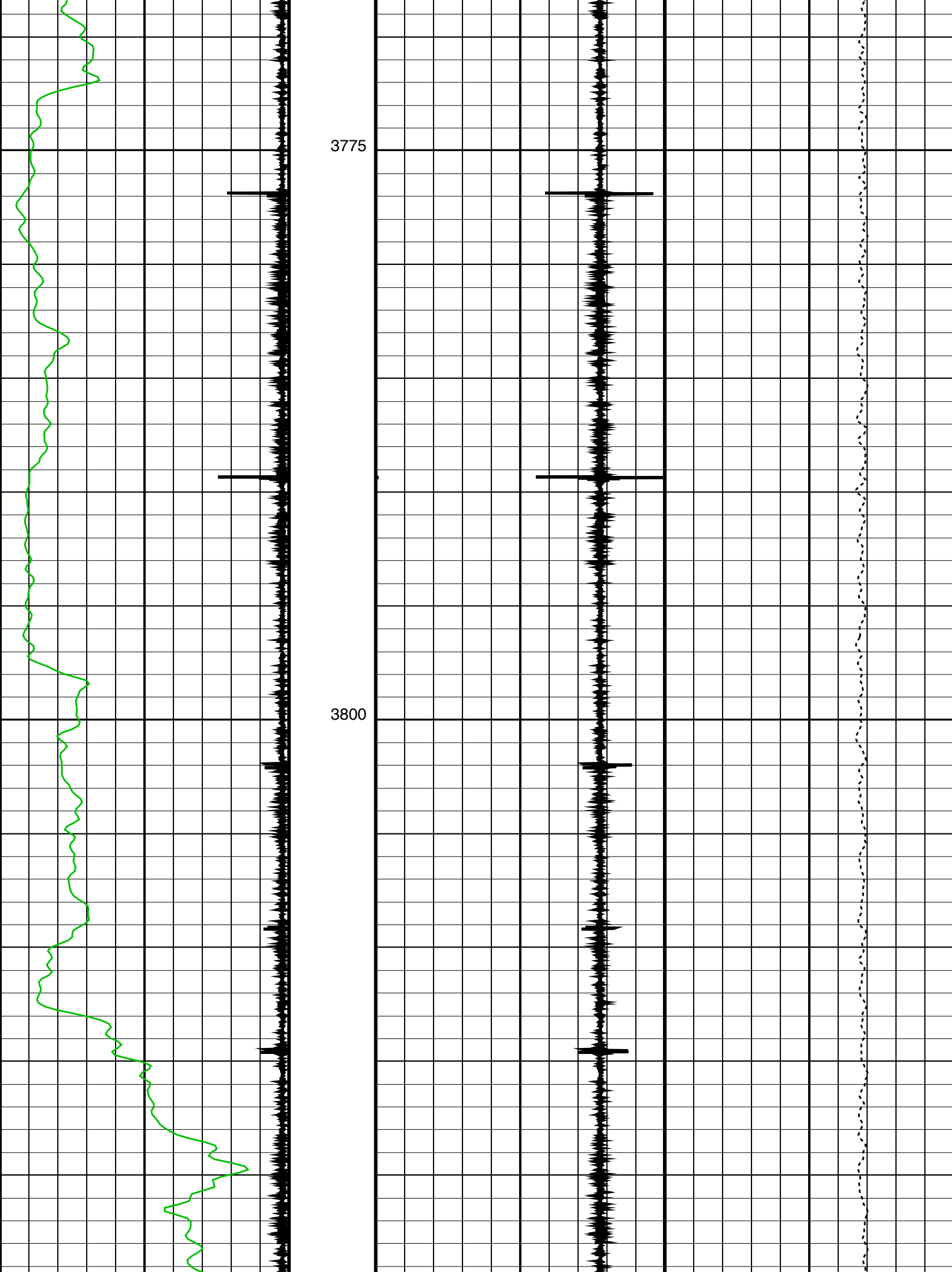
0	(GAPI)	150						
Casing Collar Locator (CCL)								
-19	(----	1						
Format: CORRELATION			Vertical Scale: 1:200			Graphics File Created: 20-Jul-2009 20:57		
OP System Version: 17C0-154								
SHM_GUN	17C0-154		PGGT-D		17C0-154			
Output DLIS Files								
DEFAULT	PERFO_043LUP		FN:47	PRODUCER	20-Jul-2009 20:56			

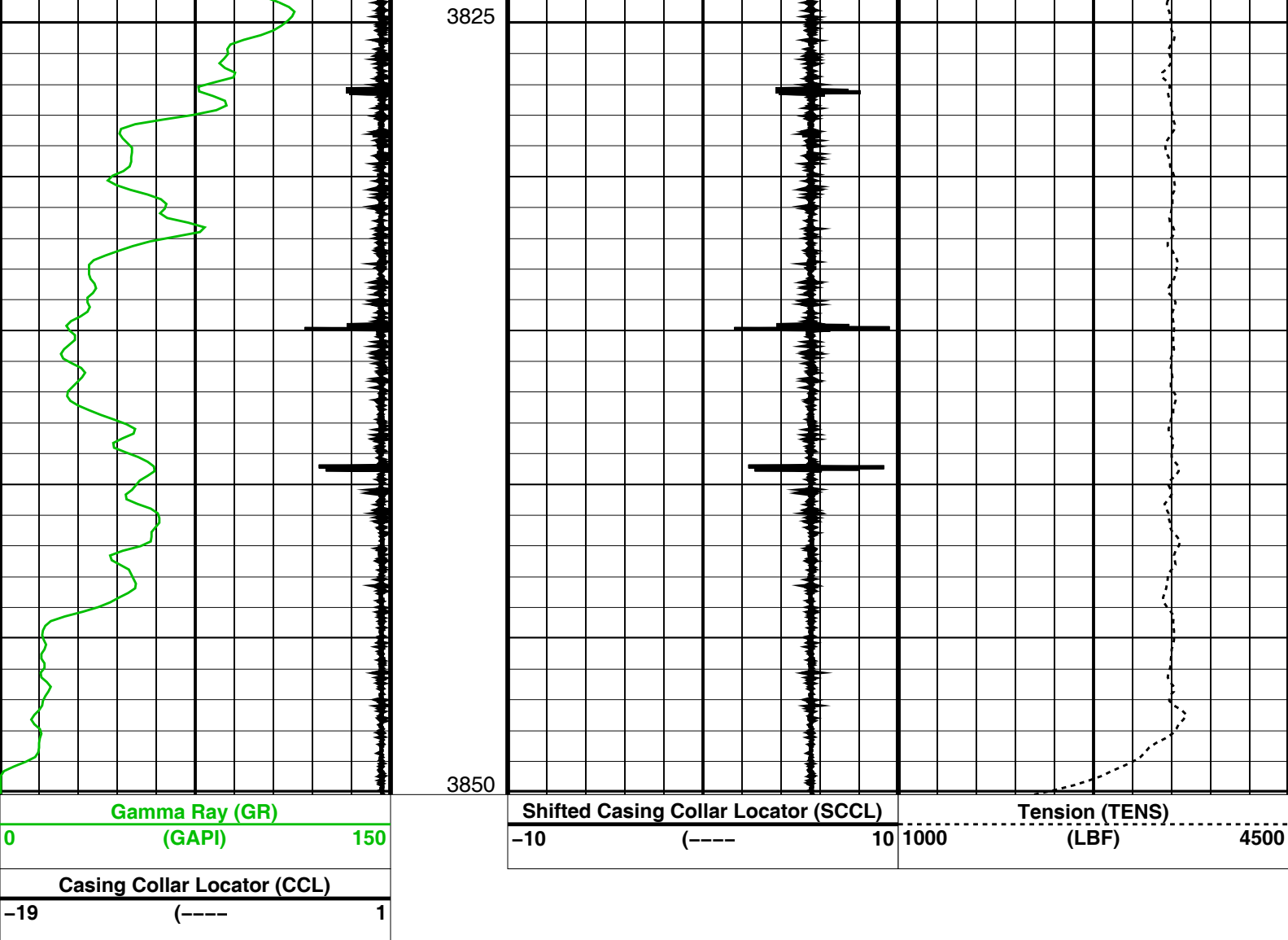


4-1/2" HSD Power jet Omega  
Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd						Well: CBA A28	
Output DLIS Files							
DEFAULT	PERFO_042LUP	FN:46	PRODUCER	20-Jul-2009 20:43	3850.1 M	3750.0 M	
OP System Version: 17C0-154							
SHM_GUN	17C0-154	PGGT-D	17C0-154				
Casing Collar Locator (CCL)							
-19	(----	1					
Gamma Ray (GR) (GAPI)		Shifted Casing Collar Locator (SCCL)		Tension (TENS)			
0	150	-10	(----	10	1000	(LBF)	4500





Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 20-Jul-2009 20:43

## OP System Version: 17C0-154

SHM\_GUN 17C0-154 PGGT-D 17C0-154

## Output DLIS Files

DEFAULT PERFO\_042LUP FN:46 PRODUCER 20-Jul-2009 20:43

**Schlumberger**

**Junk Basket with 6" Gauge Ring  
Correlation Pass**

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: CBA A28

## Input DLIS Files

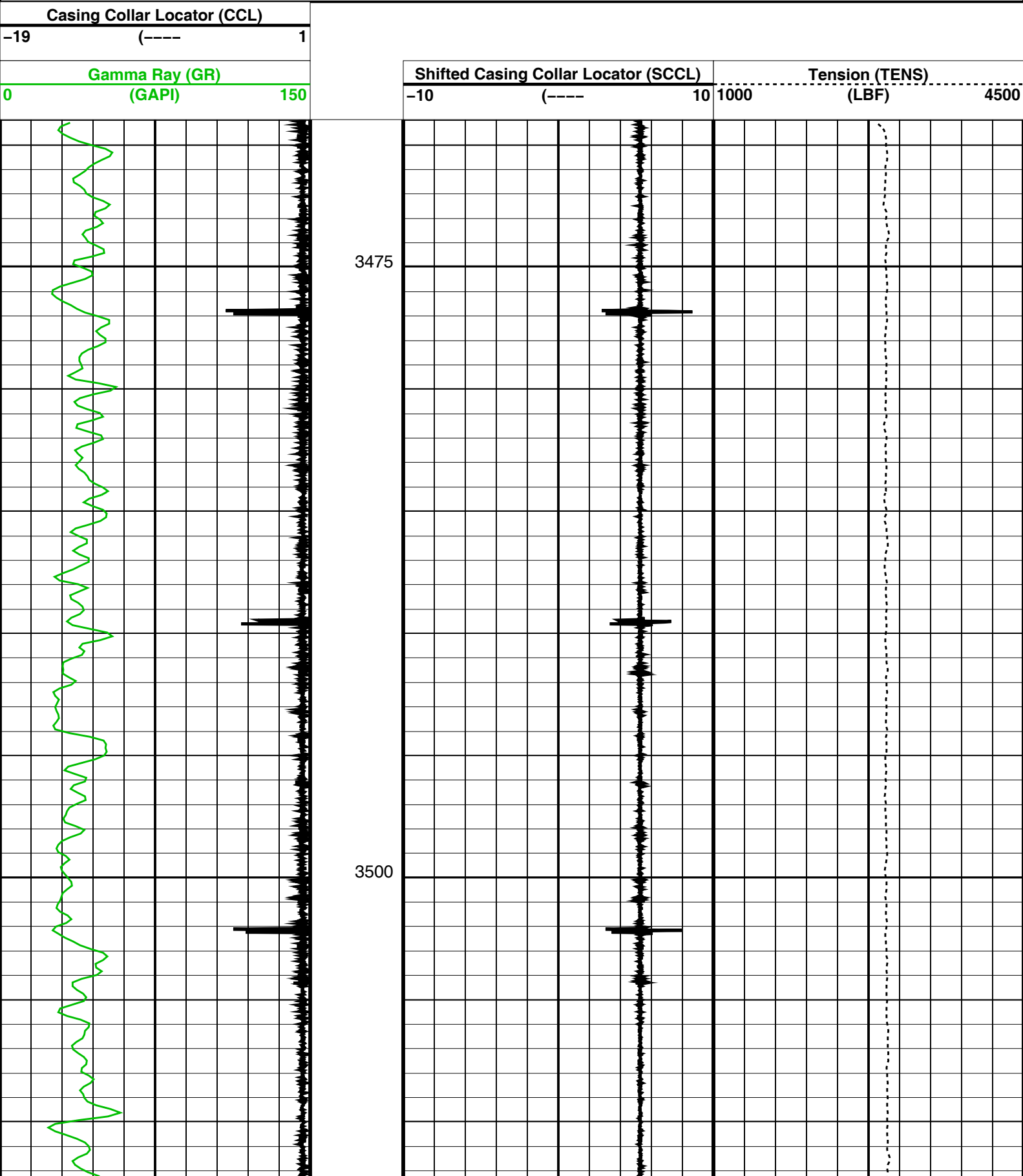
DEFAULT PERFO\_016LUP FN:15 PRODUCER 19-Jul-2009 16:49 3963.8 M 3467.4 M

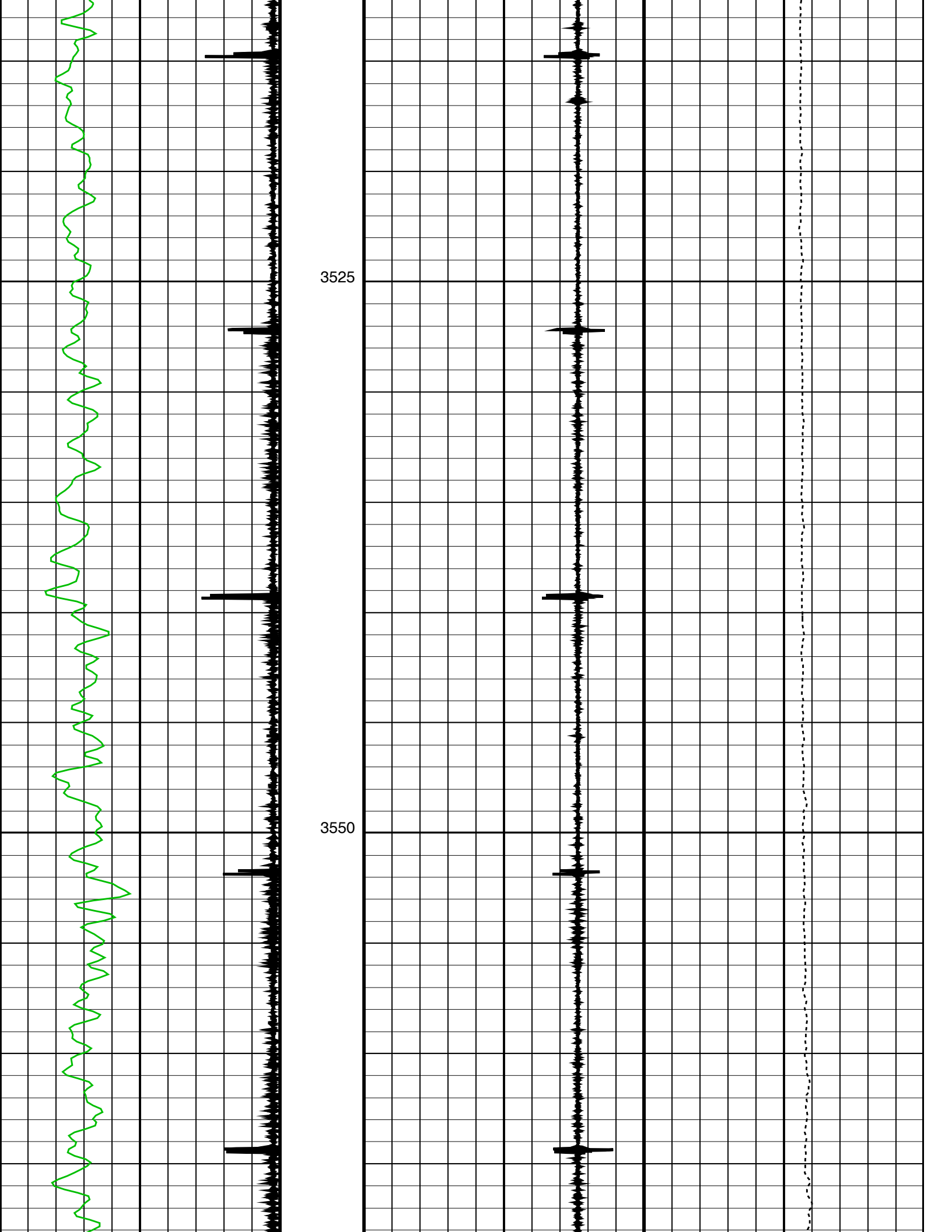
Output DLIS Files

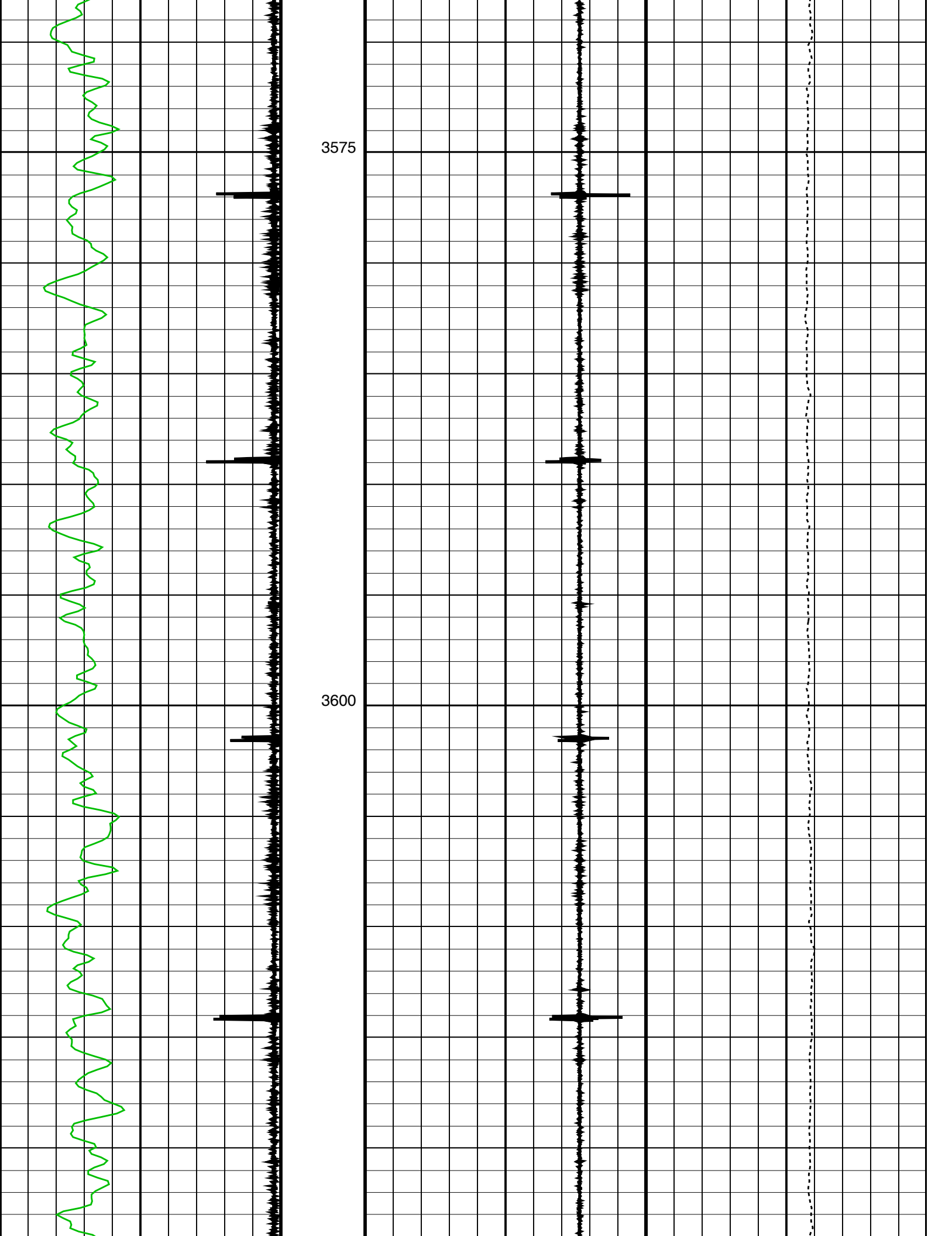
DEFAULT	PERFO_056PUP	FN:61	PRODUCER	21-Jul-2009 05:20	3965.1 M	3468.9 M
CUSTOMER	PERFO_056PUC	FN:62	CUSTOMER	21-Jul-2009 05:20	3965.1 M	3468.9 M

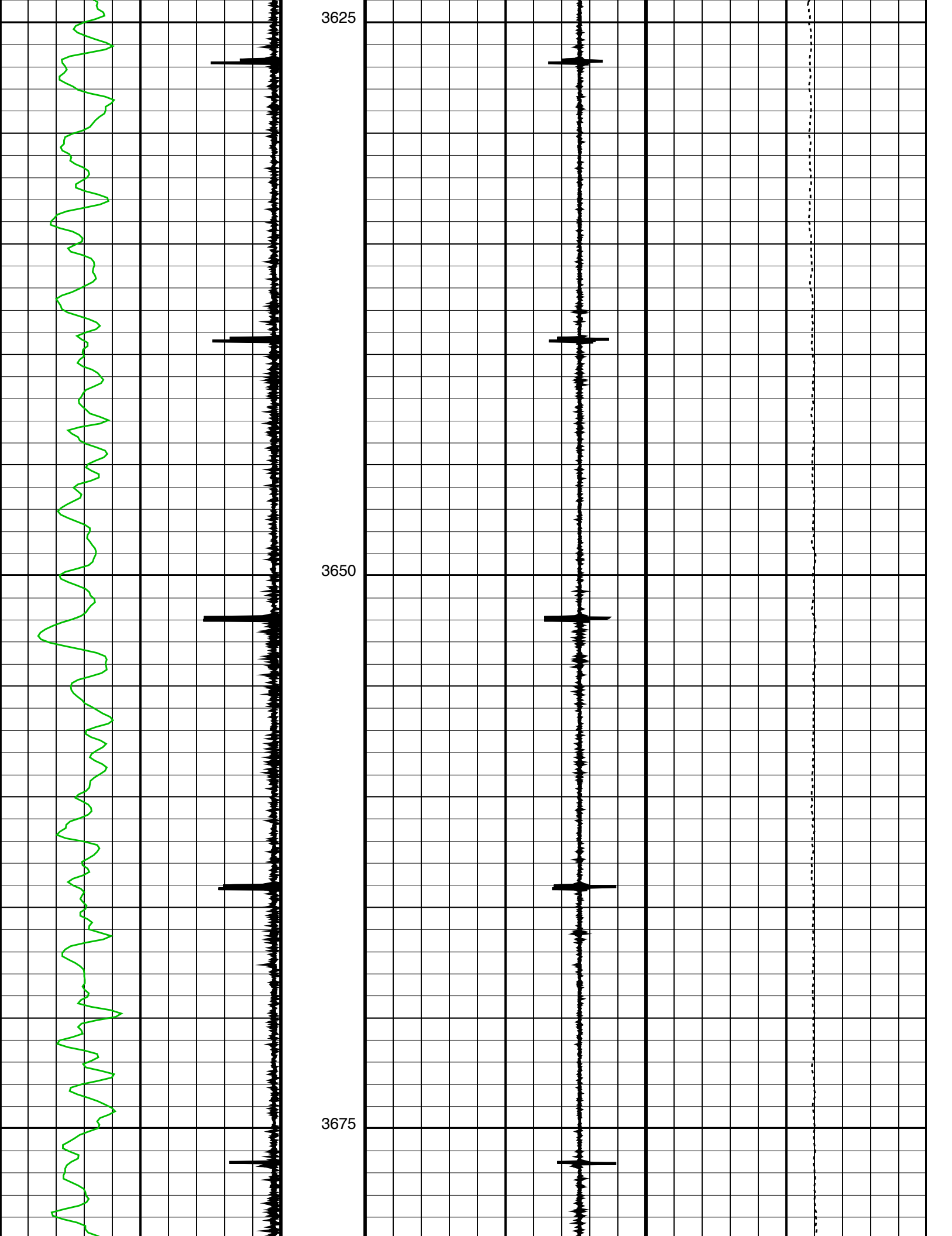
OP System Version: 17C0-154

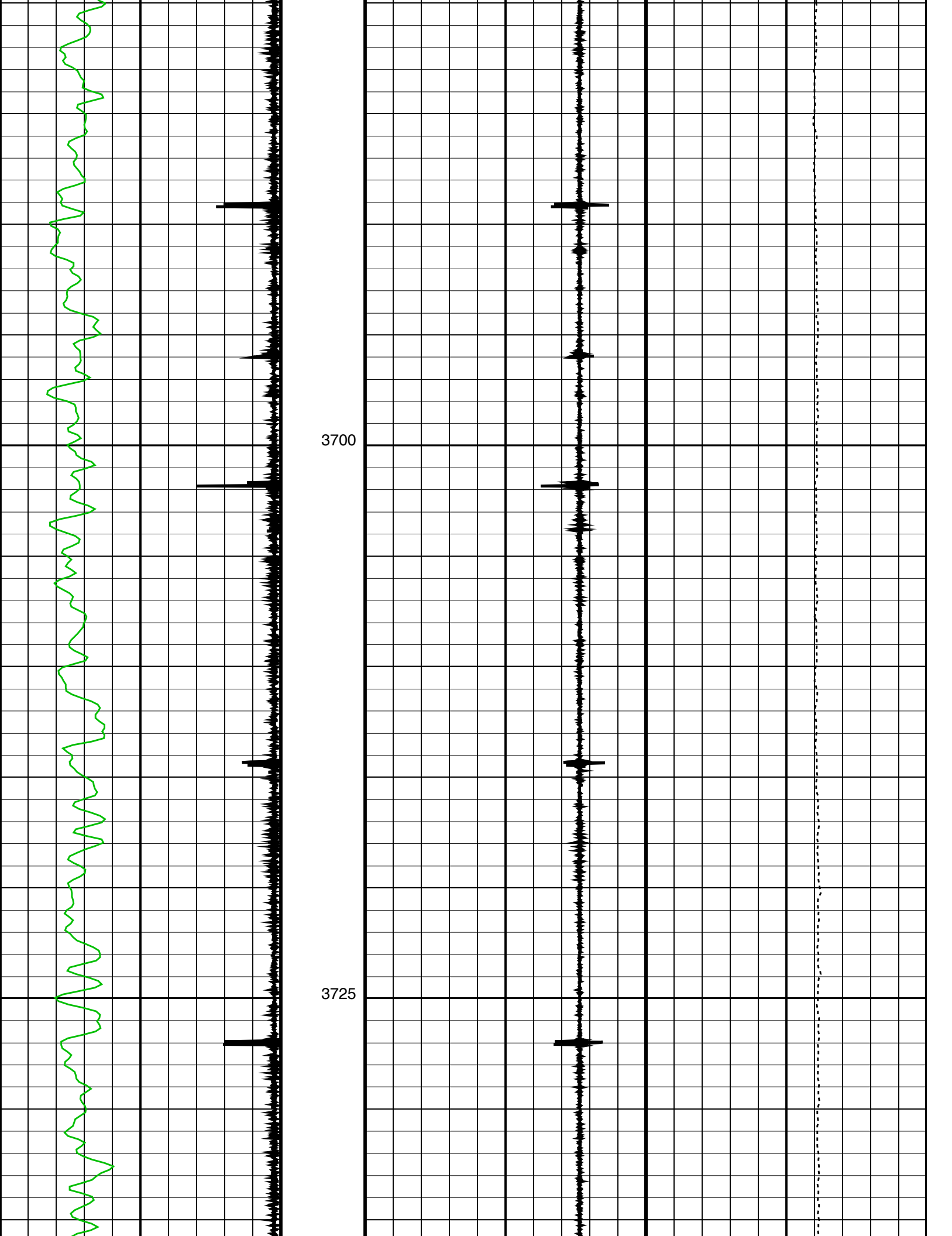
SHM_GUN	17C0-154	PGGT-D	17C0-154
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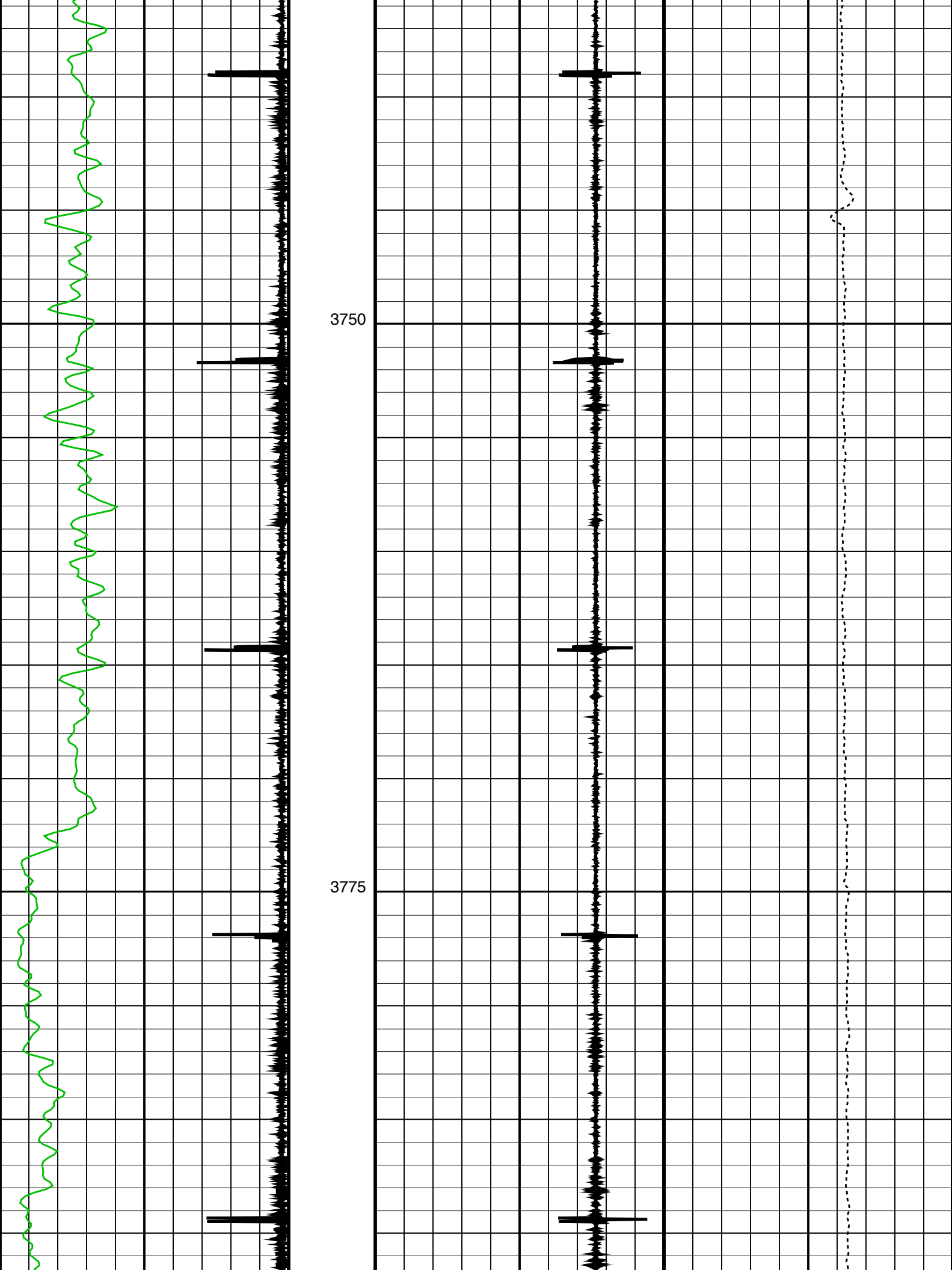


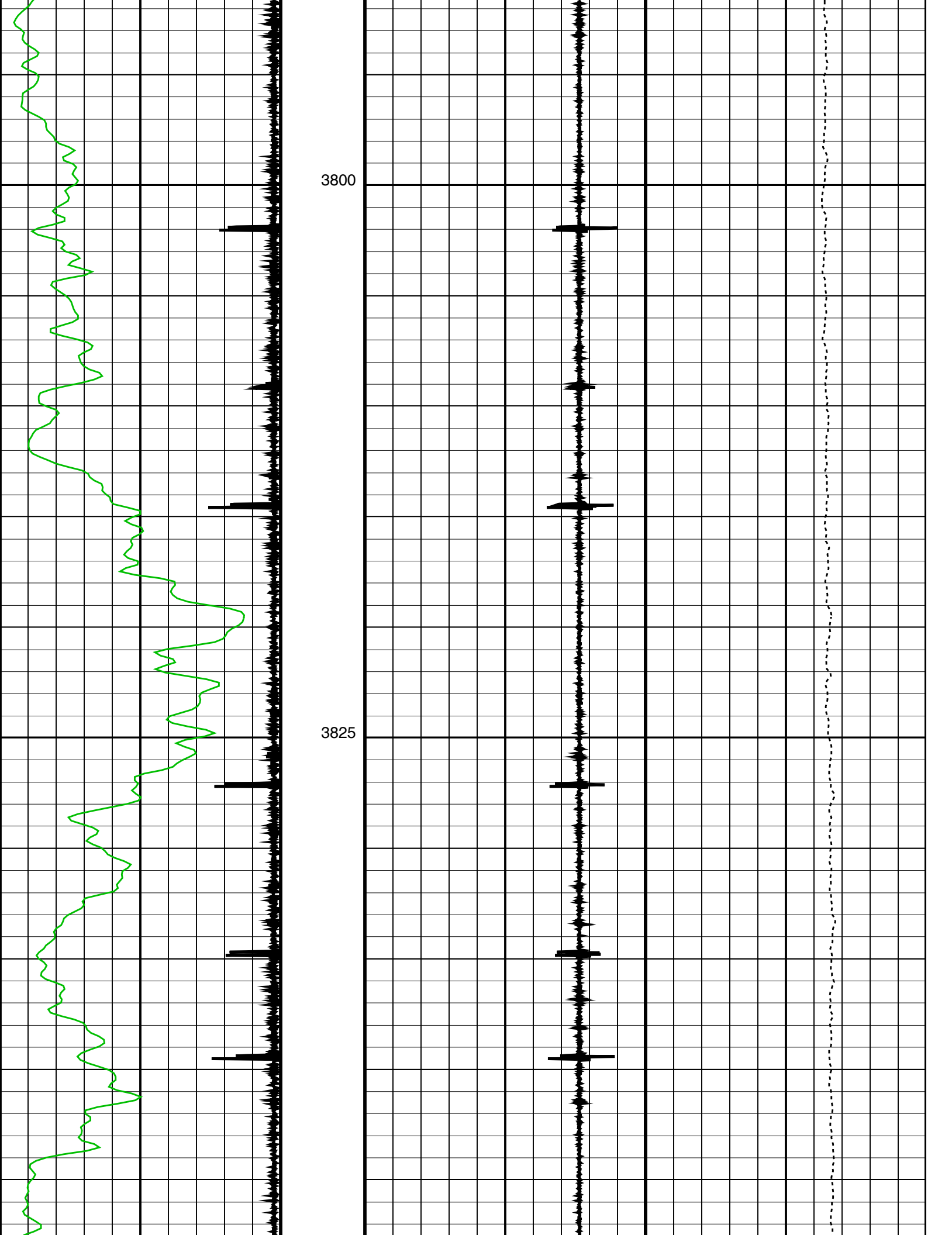


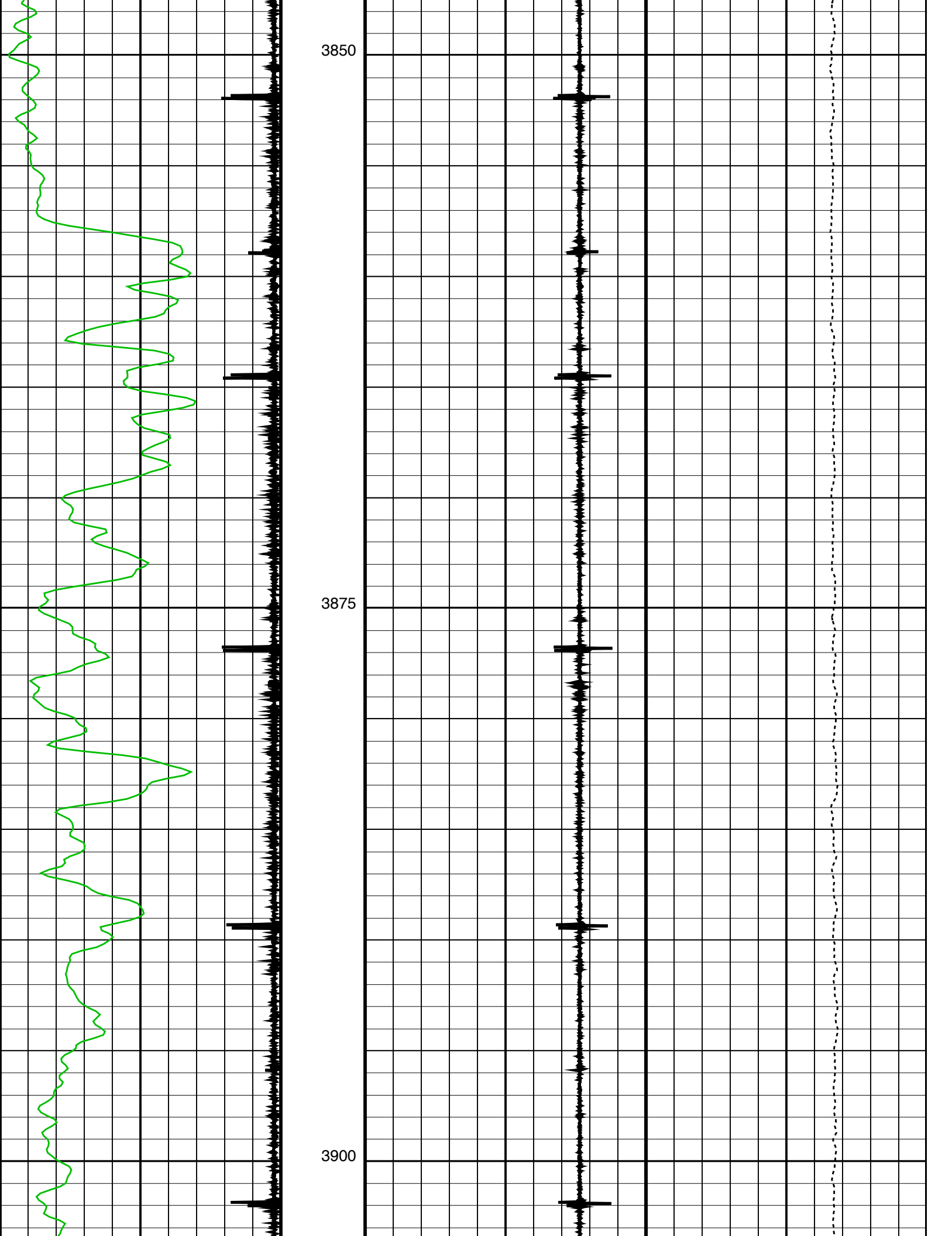


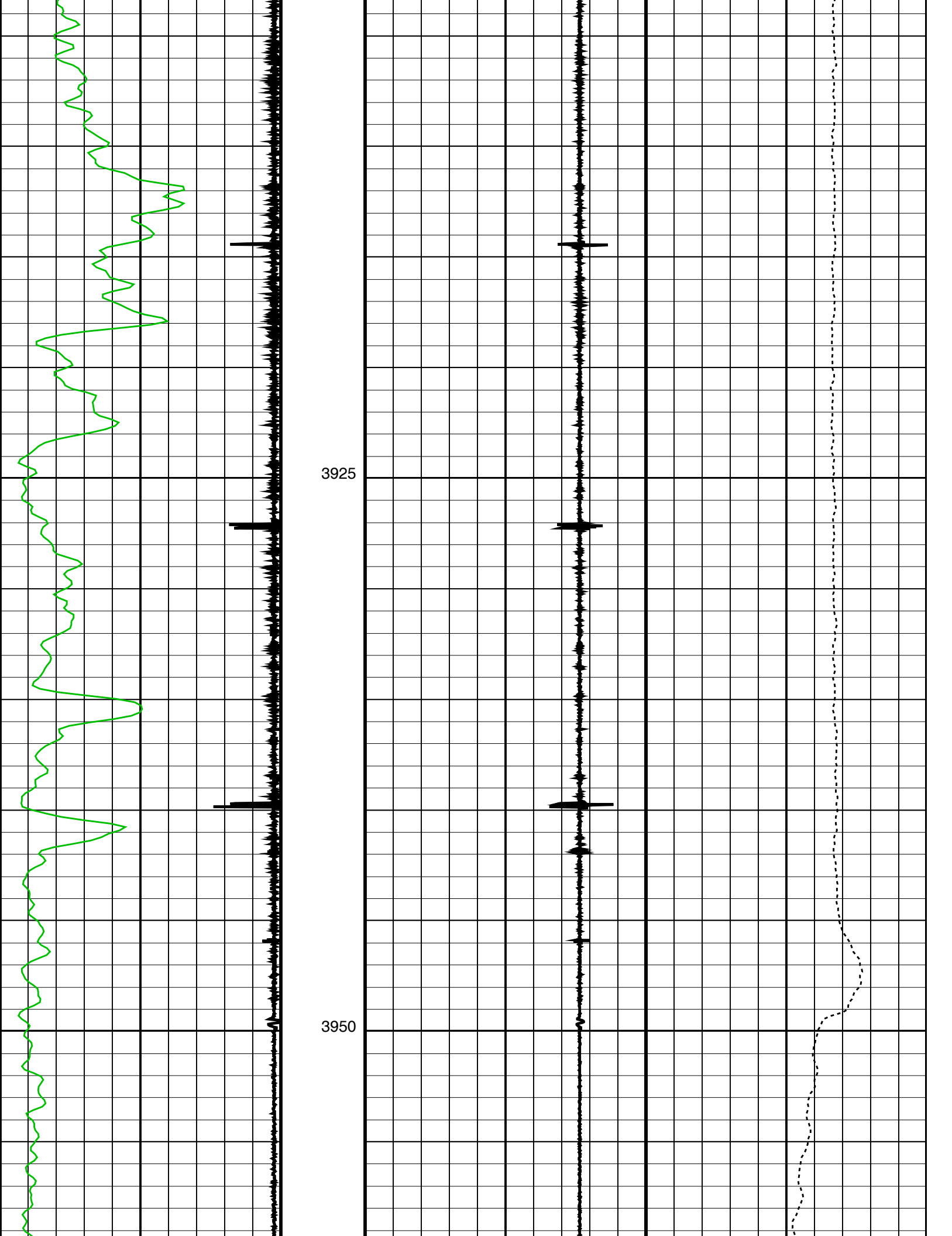


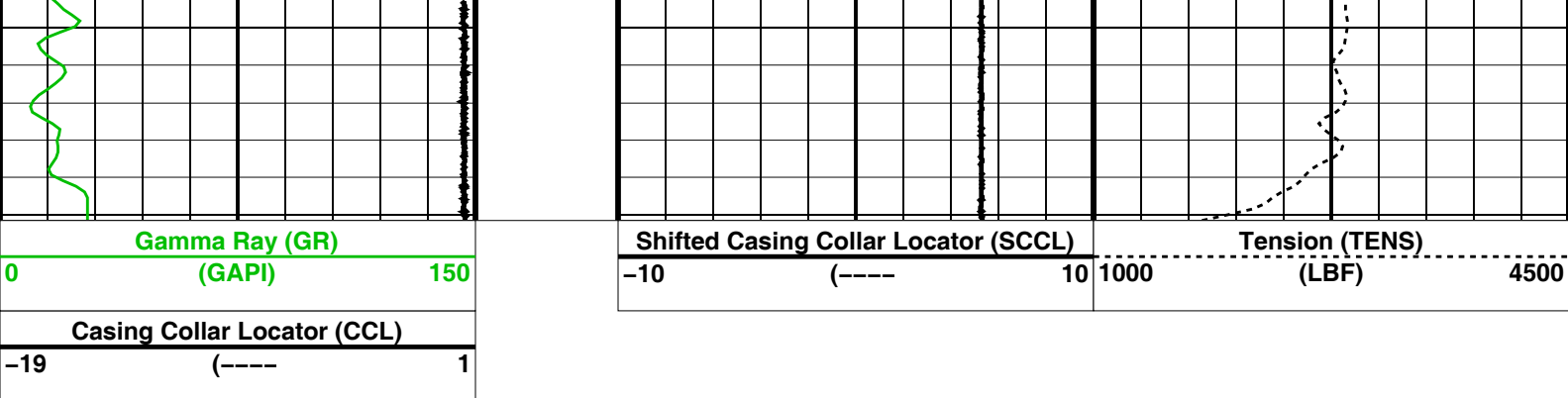












Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	1.4 M
	Playback Processing	RECOMPUTE

Format: CORRELATION    Vertical Scale: 1:200    Graphics File Created: 21-Jul-2009 05:20

OP System Version: 17C0-154			
SHM_GUN	17C0-154	PGGT-D	17C0-154

Input DLIS Files					
DEFAULT	PERFO_016LUP	FN:15	PRODUCER	19-Jul-2009 16:49	3963.8 M    3467.4 M
Output DLIS Files					
DEFAULT	PERFO_056PUP	FN:61	PRODUCER	21-Jul-2009 05:20	
CUSTOMER	PERFO_056PUC	FN:62	CUSTOMER	21-Jul-2009 05:20	

Company: **Esso Australia Pty Ltd**

Well: **CBA A28**

Field: **Cobia**

Rig: **175**

Country: **Australia**

**Schlumberger**

Junk Basket with 6" Gauge Ring  
4 1/2" HSD Powerjet Omega  
Perforation Record 19-July-09