

Company: Esso Australia Ltd.

Well: WKF W-31a
Field: West Kingfish
Rig: Prod 3/Rig 453

Country: Australia

MAXR 4.5" HSD GR-CCL MAXIS Operating System

Rig: Prod 3/Rig 453
Field: West Kingfish
Location: Gippsland
Well: WKF W-31a
Company: Esso Australia Ltd.

LOCATION	
Gippsland	Elev.: R.T. 33.4 m
Basin	G.L. -76.13 m
Bass Strait	D.F. 33.4 m
Permanent Datum:	Mean Sea Level _____
Log Measured From:	Rotary Table _____
Drilling Measured From:	Rotary Table _____
State: Victoria	Max. Well Deviation 59 deg
Longitude 148°06'19.408"E	Latitude 38°35'34.800"S
Elev.: 0 m	33.4 m above Perm. Datum

Logging Date	13-Jul-2006
Run Number	1
Depth Driller	3417 m
Schlumberger Depth	3382.3 m
Bottom Log Interval	3353 m
Top Log Interval	3350 m
Casing Fluid Type	Brine
Salinity	
Density	1.02 g/cm3
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	8.500 in
From	1300 m
To	3450 m
Casing/Tubing Size	7.000 in
Weight	26 lbm/ft
Grade	L-80
From	11 m
To	3450 m
Maximum Recorded Temperatures	
Logger On Bottom	13-Jul-2006
Unit Number	41
Recorded By	Omar Tahmistic
Witnessed By	Glen Campbell, Cory Stead

PVT DATA

Oil Density	Run 1	Run 2
Water Salinity		
Gas Gravity		
Bo		
Bw		
1/Bg		
Bubble Point Pressure		
Bubble Point Temperature		
Solution GOR		
Maximum Deviation	59 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		

DEPTH SUMMARY LISTING

Date Created: 13-JUL-2006 10:19:28

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-46ZV-XS
Serial Number: 796	Serial Number: 1721	Serial Number: 76075
Calibration Date: 9-Jun-2006	Calibration Date: 13-Jun-2006	Length: 7315.20 M
Calibrator Serial Number: 1009	Calibrator Serial Number: 1051	Conveyance Method: Wireline
Calibration Cable Type: 7-46ZV-XS	Calibration Gain: 0.89	Rig Type: Offshore_Fixed
Wheel Correction 1: -6	Calibration Offset: 482.00	
Wheel Correction 2: -6		

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	DUAL LATEROLOG-GR, DENSITY NEUTRON (by Precision)
Reference Log Run Number:	ONE
Reference Log Date:	6-Jul-2006
Subsequent Trip Down Log Correction:	4.50 M

Depth Control Remarks

<ol style="list-style-type: none"> 1. All Schlumberger Depth Control Policies followed. 2. IDW used as Primary Depth Control. 3. Z-Chart used as Secondary Depth Control. 4. GR response used for correlation. 5. Correlation log provided by Esso. 6. Correlation log incorrectly dated as 6-May-2006 (actual date is 6-Jul-2006)
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DISCLAIMER

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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 objectives: Run in hole with MAXR 4.5" HSD guns and set hanger so that perforating interval is 3350m to 3353m MDRT.	
Correlated to reference log provided by Esso (DUAL LATEROLOG-GR, DENSITY NEUTRON, Dated: 6-May-2006 [see note below], by Precision)	
Note: reference log was actually logged on 6-Jul-2006	

CCL to MAXR Top Shot = 11.8m
 MAXR Top Shot at 3350m MDRT
 MAXR Bottom Shot at 3353m MDRT
 CCL Stop Depth = 3338.2m MDRT

HUD observed at 3382.3m MDRT
 Multiple spudding attempts were made to surpass HUD without success.
 TCP engineer: R. Blok
 Day crew: R. Murray and C. Armstrong
 Night crew: P. Flood and M. Ward
 Performed by Schlumberger.

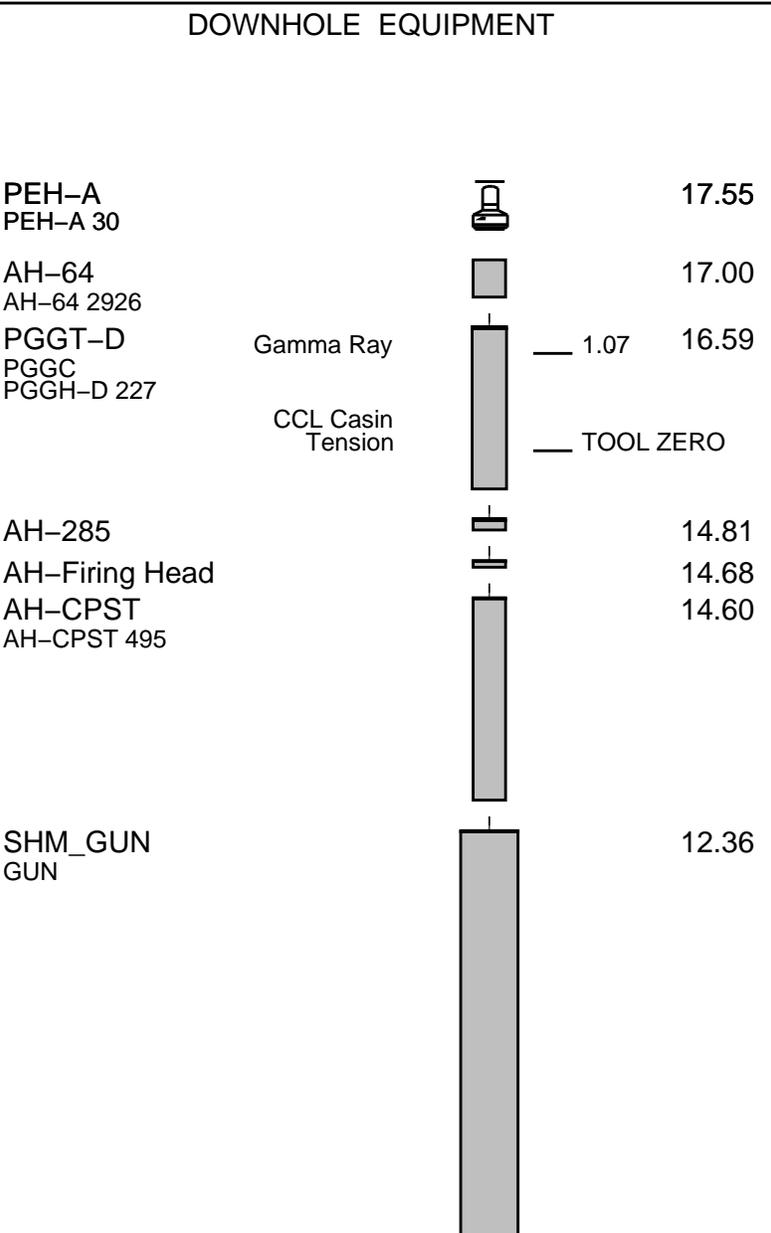
RUN 1			RUN 2		
SERVICE ORDER #:		L0501G655	SERVICE ORDER #:		
PROGRAM VERSION:		14C0-302	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

WITM (SHM)



RUN 2

TOOL BOTTOM

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

12/7/2006

Client: Esso Australia Ltd.

Drawing Date:

Well: WKF W-31a

Field: West Kingfish

Rig Name: # 453

State: Victoria

Reference Datum: Mean Sea Level

Country: Australia

Elevation: 33.4 m

Production String	(in)			(m)			Well Schematic	(m)			(in)			Casing String
	OD	ID	MD	MD	OD	ID		MD	OD	ID				
									13.375				Casing String	
									7.000				Casing String	
										1300.0	13.375		Casing Shoe	

All depths as per
WKF W-31a
Well Schematic
(07/07/2006)

Bridge Plug

7.000

0.000

3420.0



3450.0

7.000

Casing Shoe

Schlumberger

Job Event Summary

MAXIS Field Log

Schlumberger Job Event Summary

Time	Elapsed Time	Depth (M)	File
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Rig Up Started 13-Jul-2006 1:00

Descent 1: GUN/PGGD

Begin Descent 13-Jul-2006 2:00
Initial descent to HUD. Client asked to POOH after determining HUD at 3382.3m MDRT.
Log Pass (up) 13-Jul-2006 4:27 00:19 3370.3 - 3190.3 PERFO_038LUP
Pass to show HUD at 3382.3m MDRT.

Descent 2: GUN/PGGD

Begin Descent 13-Jul-2006 7:30
 Client decided to set MAXR anyways; RIH from 1,500m MDRT to continue operation.
 Log Pass (up) 13-Jul-2006 8:13 000:08 3363.9 - 3280.0 PERFO_050LUP
 Correlation pass
 Log Pass (up) 13-Jul-2006 8:28 000:17 3361.9 - 3278.9 PERFO_051LUP
 MAXR setting pass
 Rig Down Completed 13-Jul-2006 9:45



MAXR Setting Record 3350m - 3353m MDRT

MAXIS Field Log

Output DLIS Files

DEFAULT PERFO_051LUP FN:48 PRODUCER 13-Jul-2006 08:28 3361.9 M 3278.9 M

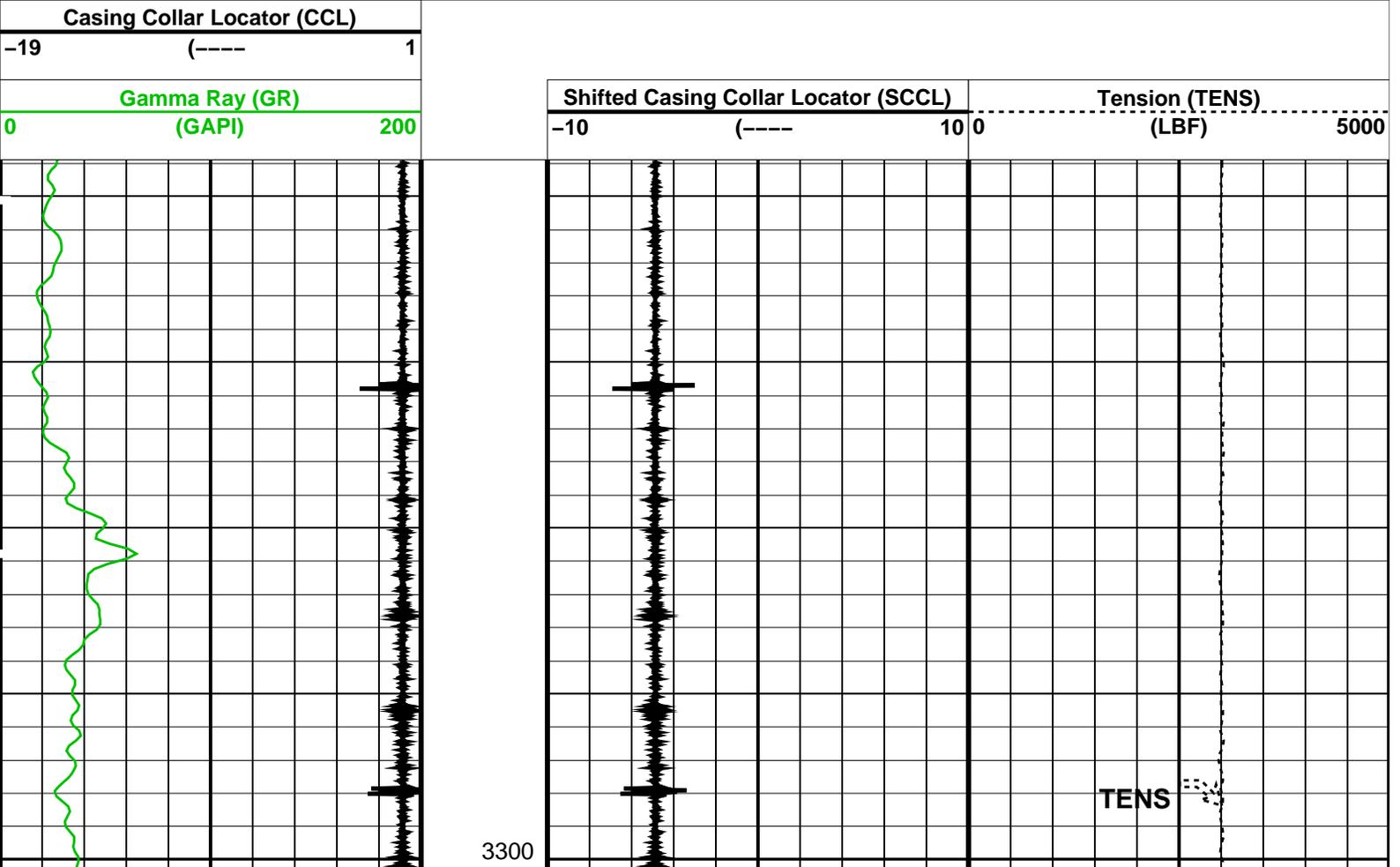
OP System Version: 14C0-302

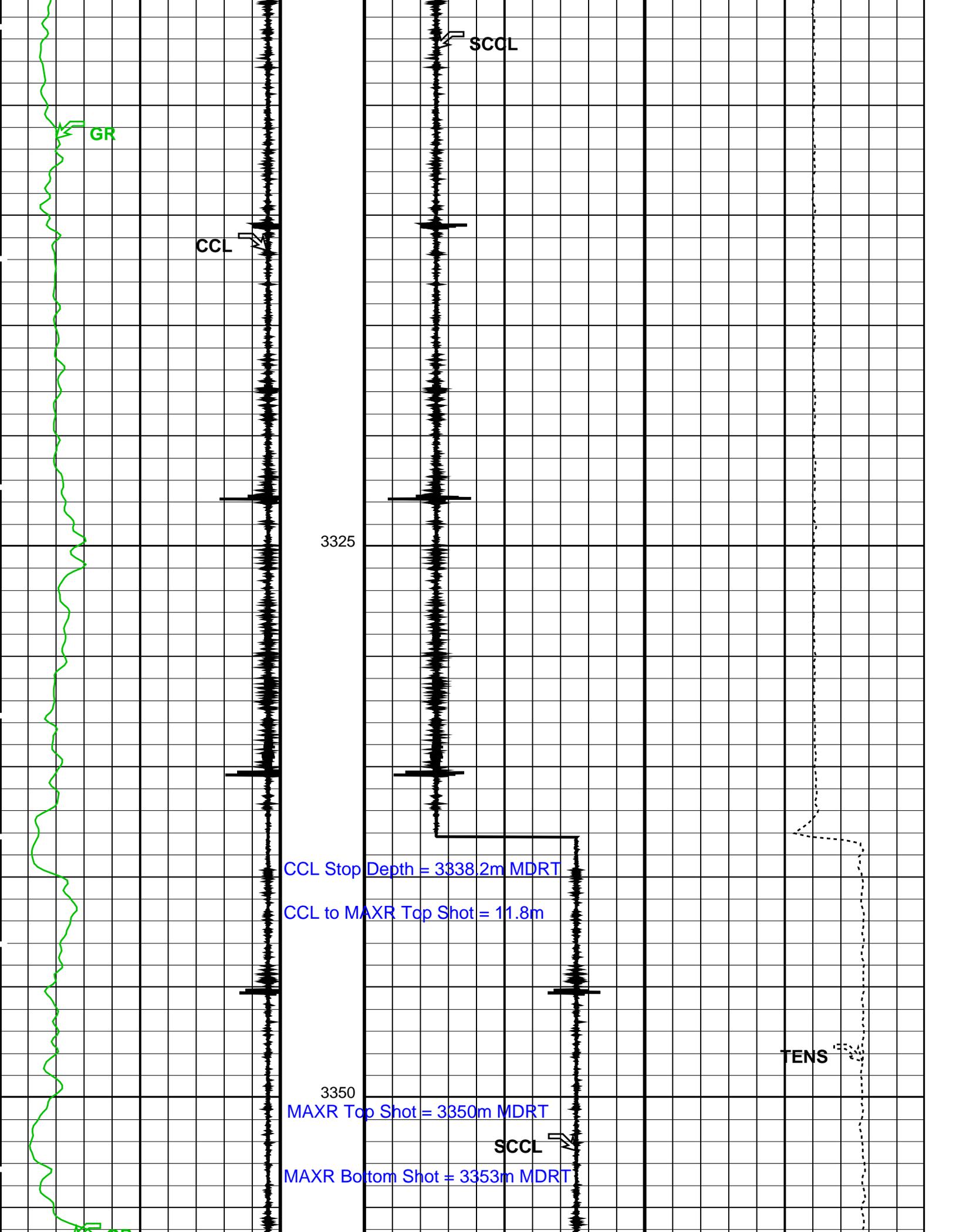
MCM

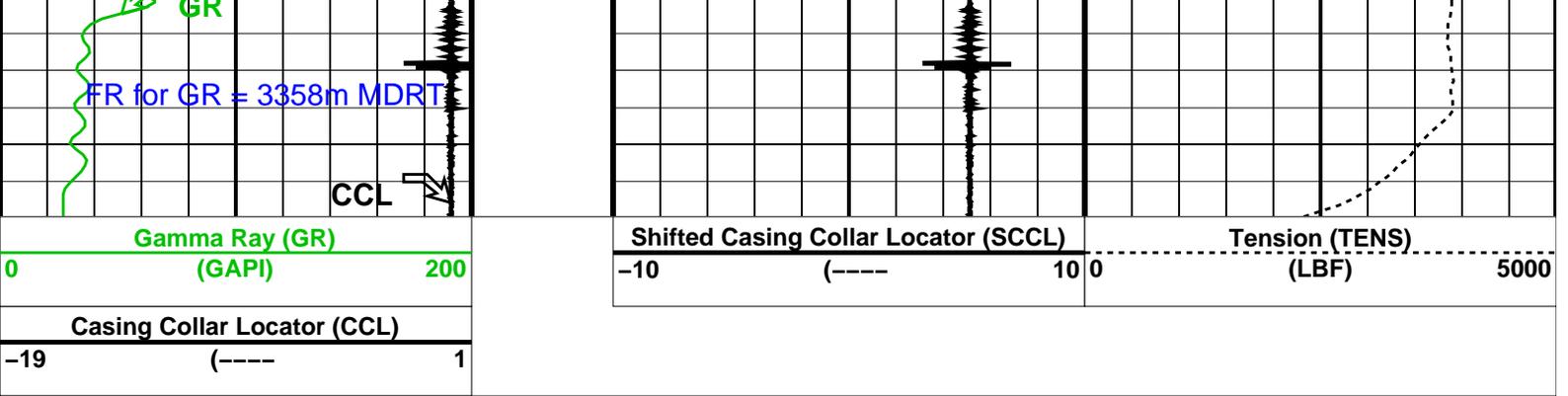
SHM_GUN 14C0-302 PGGT-D 14C0-302

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 13-Jul-2006 08:28

OP System Version: 14C0-302
MCM

SHM_GUN 14C0-302 PGGT-D 14C0-302

Output DLIS Files

DEFAULT PERFO_051LUP FN:48 PRODUCER 13-Jul-2006 08:28



Correlation Log

MAXIS Field Log

Output DLIS Files

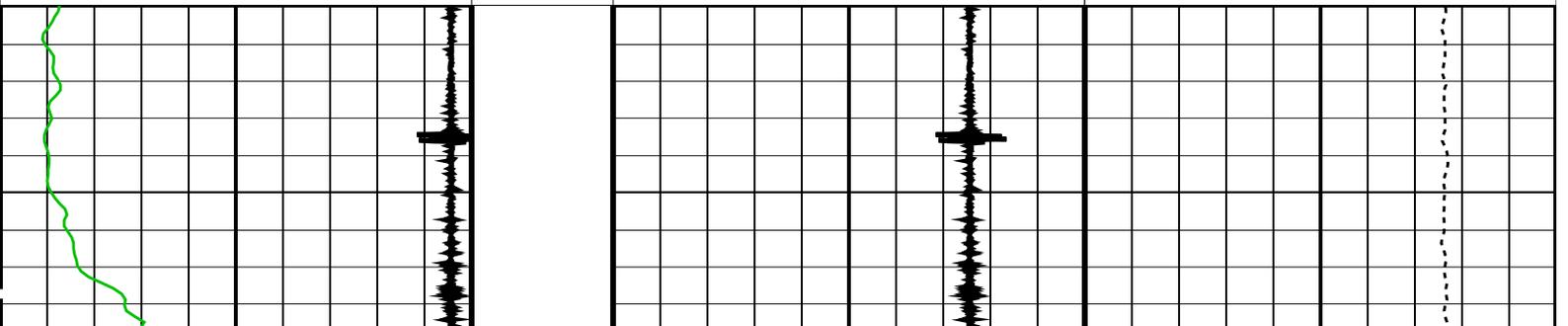
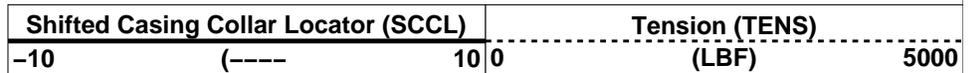
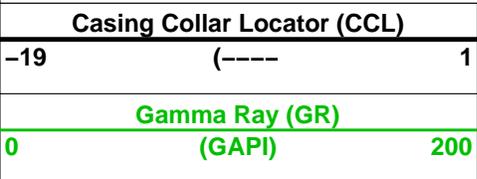
DEFAULT PERFO_050LUP FN:47 PRODUCER 13-Jul-2006 08:13 3363.9 M 3280.0 M

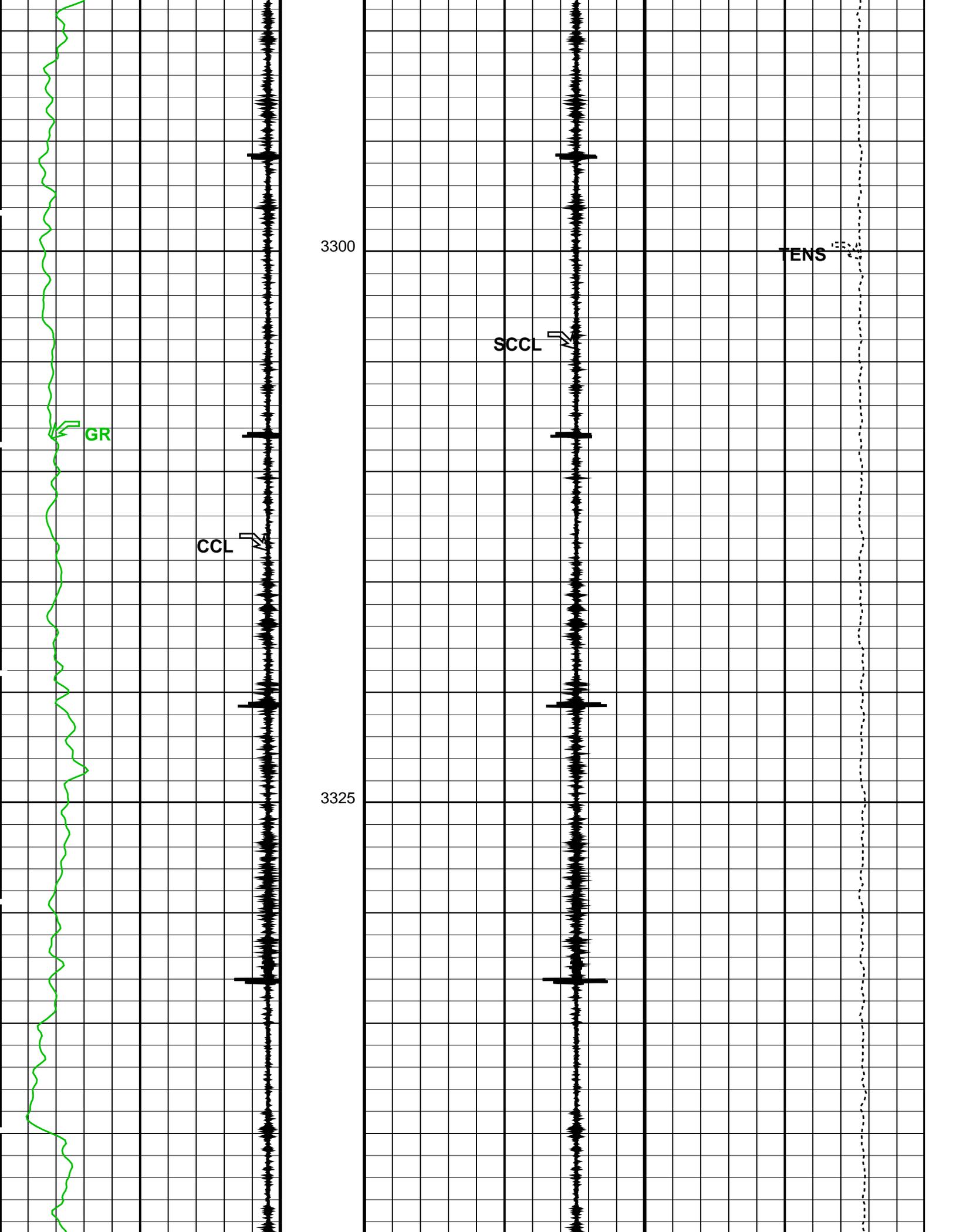
OP System Version: 14C0-302
MCM

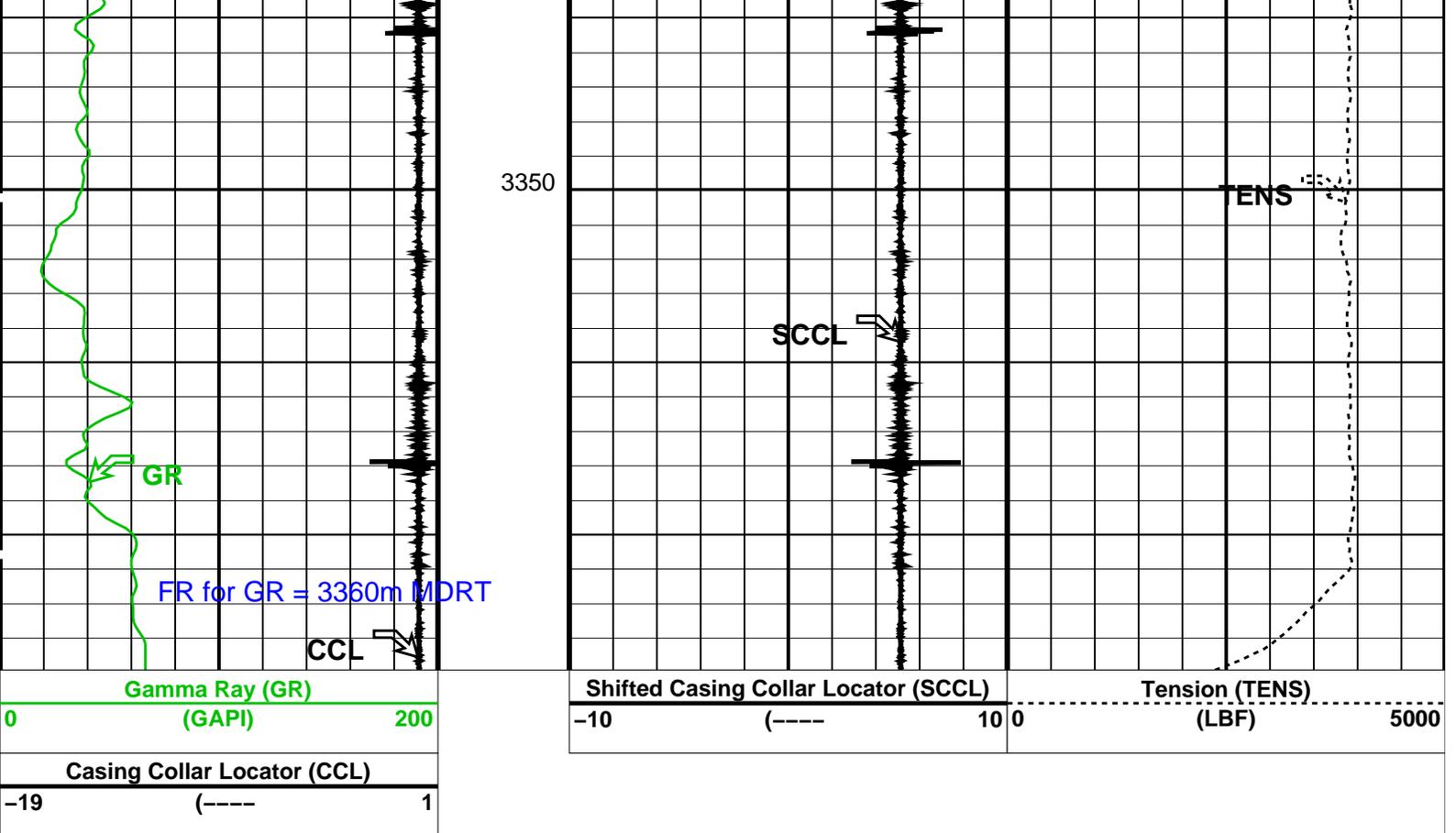
SHM_GUN 14C0-302 PGGT-D 14C0-302

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 13-Jul-2006 08:13

OP System Version: 14C0-302
MCM

SHM_GUN 14C0-302 PGGT-D 14C0-302

Output DLIS Files

DEFAULT PERFO_050LUP FN:47 PRODUCER 13-Jul-2006 08:13



Total Depth Determination
HUD = 3382.3m MDRT

MAXIS Field Log

Input DLIS Files

DEFAULT PERFO_038LUP FN:35 PRODUCER 14-Jul-2006 15:26 3370.3 M 3190.3 M

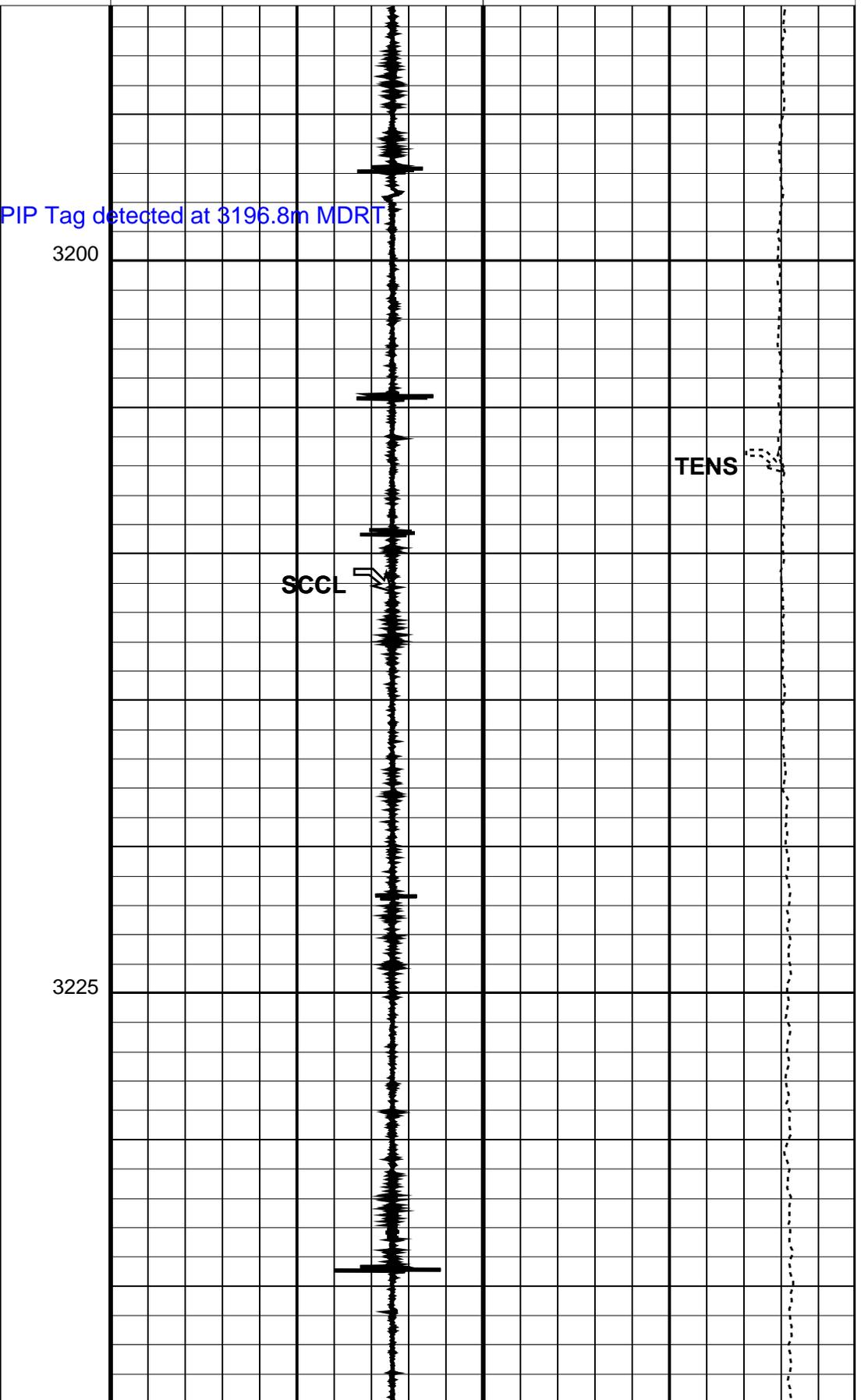
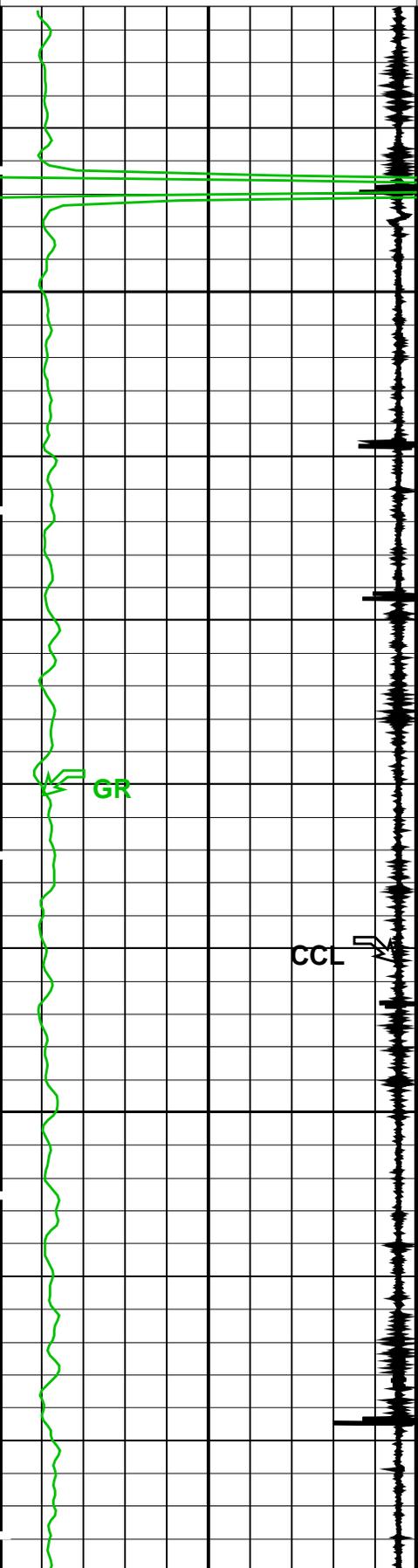
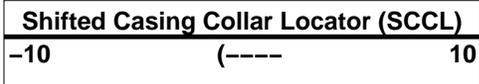
Output DLIS Files

DEFAULT PERFO_003PUP FN:2 PRODUCER 14-Jul-2006 15:57 3370.8 M 3191.3 M

OP System Version: 14C0-302
MCM

PIP SUMMARY

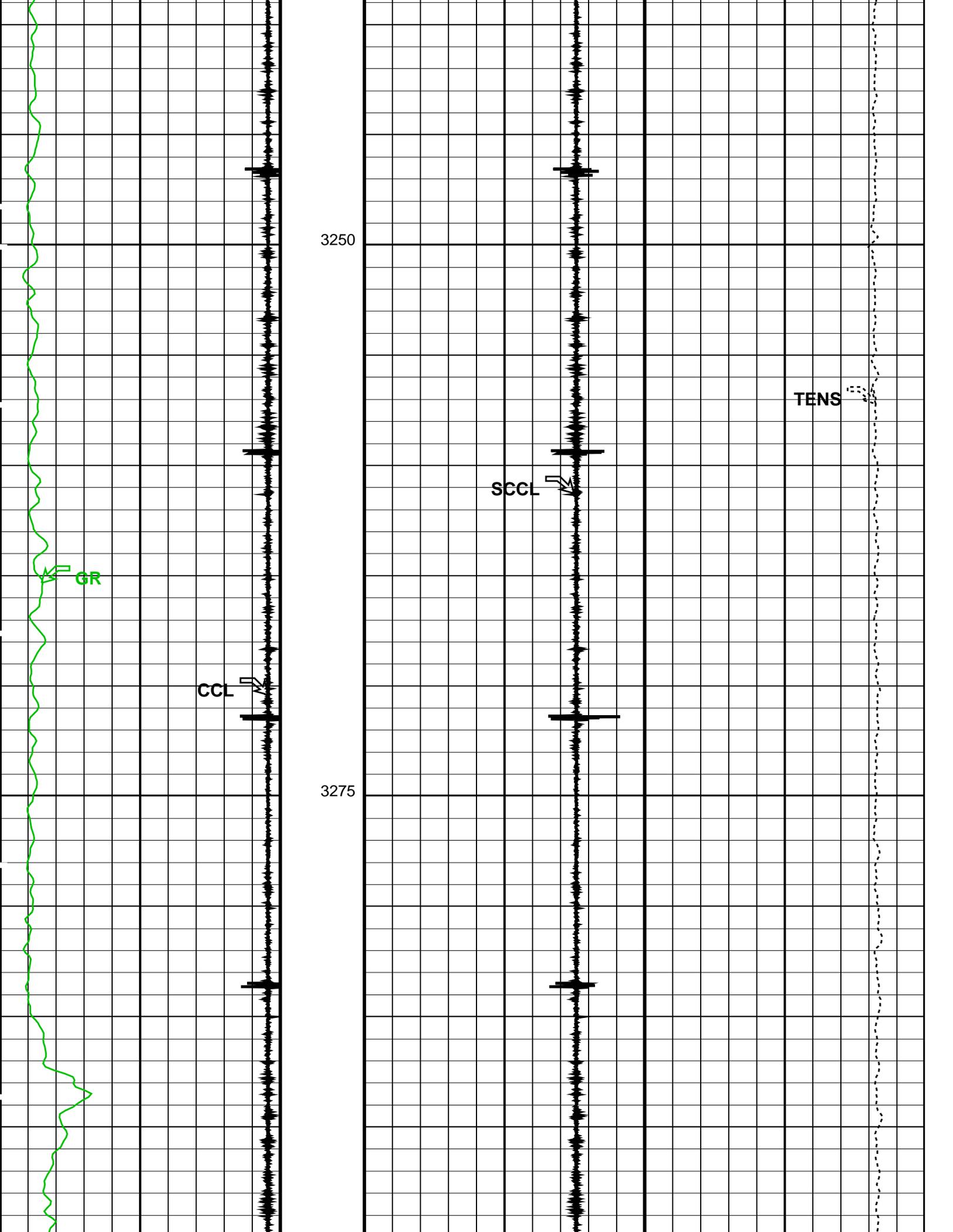
Time Mark Every 60 S

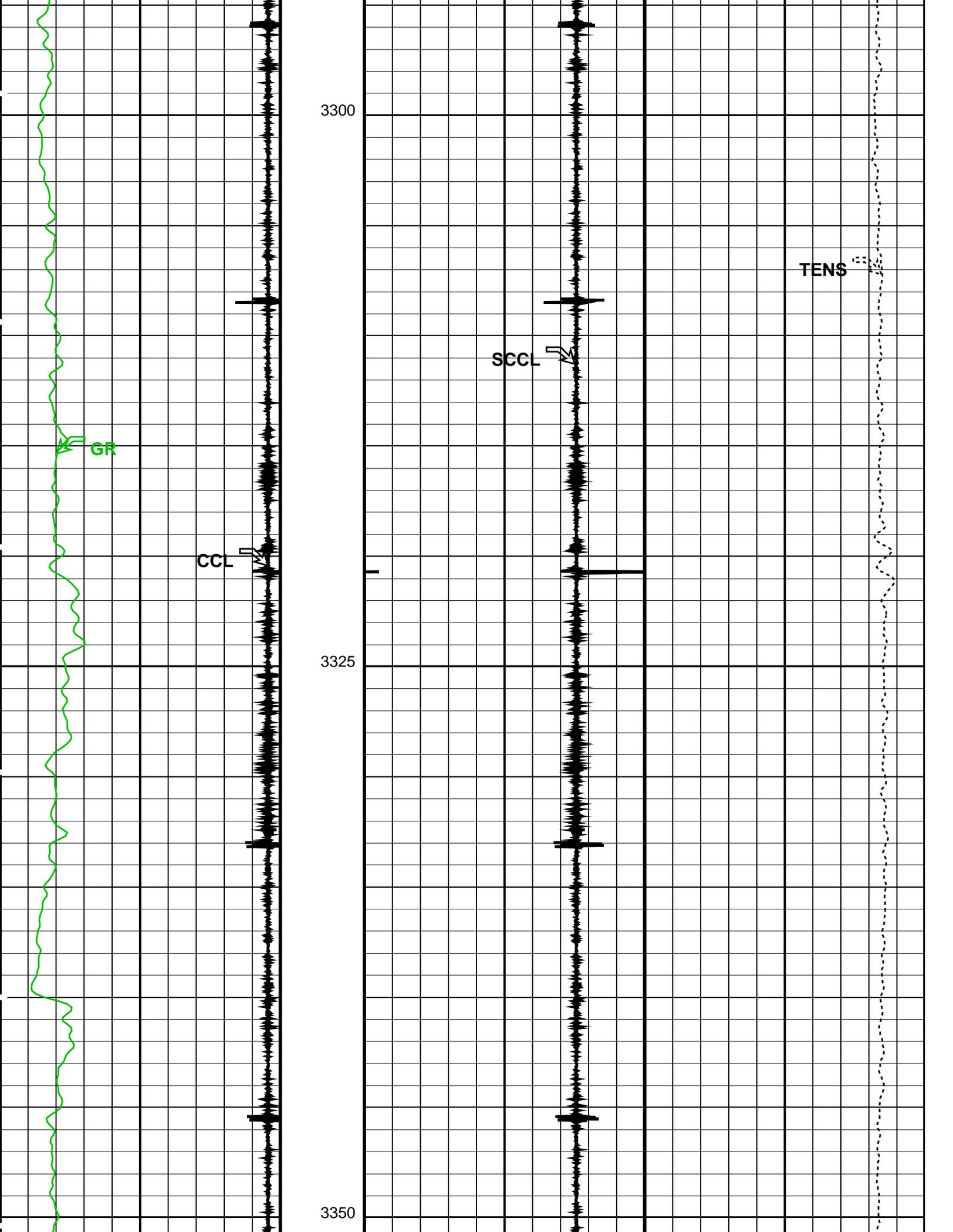


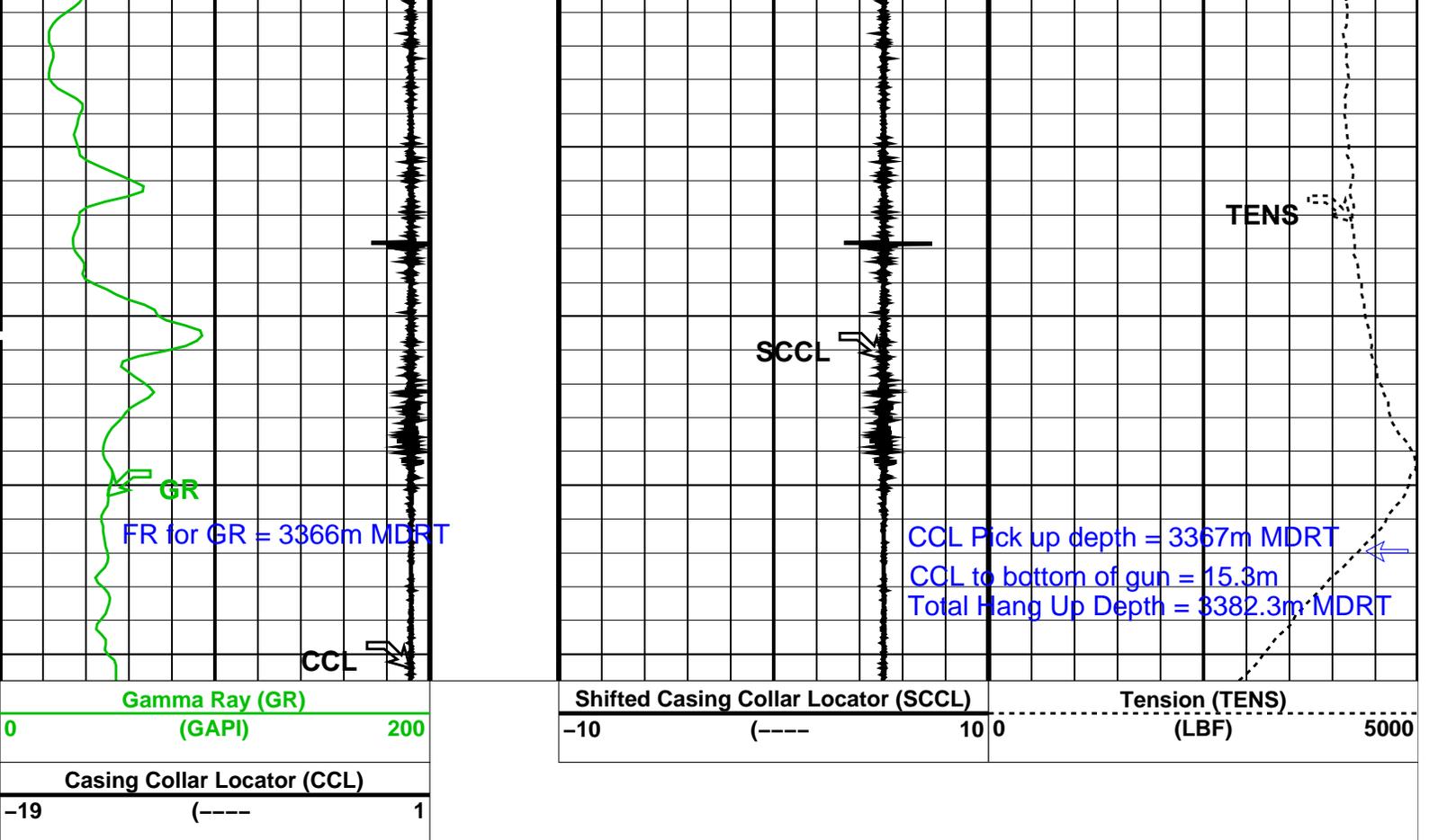
PIP Tag detected at 3196.8m MDRT

3200

3225







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	0.4 M
PP	Depth Offset for Playback Playback Processing	NORMAL

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 14-Jul-2006 15:57

OP System Version: 14C0-302
MCM

SHM_GUN	14C0-302	PGGT-D	14C0-302
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Input DLIS Files

DEFAULT	PERFO_038LUP	FN:35	PRODUCER	14-Jul-2006 15:26	3370.3 M	3190.3 M
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Output DLIS Files

DEFAULT	PERFO_003PUP	FN:2	PRODUCER	14-Jul-2006 15:57
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Company: **Esso Australia Ltd.**

Schlumberger

Well: **WKF W-31a**
 Field: **West Kingfish**
 Rig: **Prod 3/Rig 453**
 Country: **Australia**

MAXR 4.5" HSD
 GR-CCL

