

Schlumberger

Company: Noble Energy, Inc.

Well: Erickson 31-22

Field: Wildcat

County: Cheyenne

State: Kansas

CBL - VDL
GR - CCL

County: Cheyenne

Field: Wildcat

Location: Sec. 22, T3S, R38W

Well: Erickson 31-22

Company: Noble Energy, Inc.

LOCATION

Sec. 22, T3S, R38W	Elev.: K.B. 3500.00 ft	G.L. 3494.00 ft
	D.F. 3499.00 ft	
Permanent Datum: _____	Ground Level _____	Elev.: 3494.00 ft _____
Log Measured From: _____	Kelly Bushing _____	6.00 ft above Perm. Datum
Drilling Measured From: _____	Kelly Bushing _____	
API Serial No. 15-023-21319-000C		
Section 22	Township 3S	Range 38W

Logging Date 28-Sep-2011

Run Number 1

Depth Driller 1512 ft

Schlumberger Depth 1430 ft

Bottom Log Interval 1422 ft

Top Log Interval 0 ft

Casing Fluid Type Water

Salinity _____

Density 8.4 lbm/gal

Fluid Level 0 ft

BIT/CASING/TUBING STRING

Bit Size 6.250 in

From _____

To _____

Casing/Tubing Size 4.500 in

Weight 10.5 lbm/ft

Grade _____

From _____

To _____

Maximum Recorded Temperatures 93 degF

Logger On Bottom 28-Sep-2011

Unit Number 354

Recorded By Shane Walker

Witnessed By Gerald Lauer

PVT DATA

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

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

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

OS1: Swab
 OS2: Perf
 OS3:
 OS4:
 OS5:

OTHER SERVICES2

OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1

Log correlated to log ran by Schlumberger dated 21-Sep-2011
 Perf interval 1332' - 1364'
 Gun Length: 32', 3 SPF, 96 shots
 120 deg phasing, EH .41", Pen 18.5", 16.5 grams

REMARKS: RUN NUMBER 2

Thank you for choosing Schlumberger

Crew: Shane Walker, Roger Wiley

RUN 1

SERVICE ORDER #: BEW4-00147
 PROGRAM VERSION: 19C0-187
 FLUID LEVEL: 0 ft

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

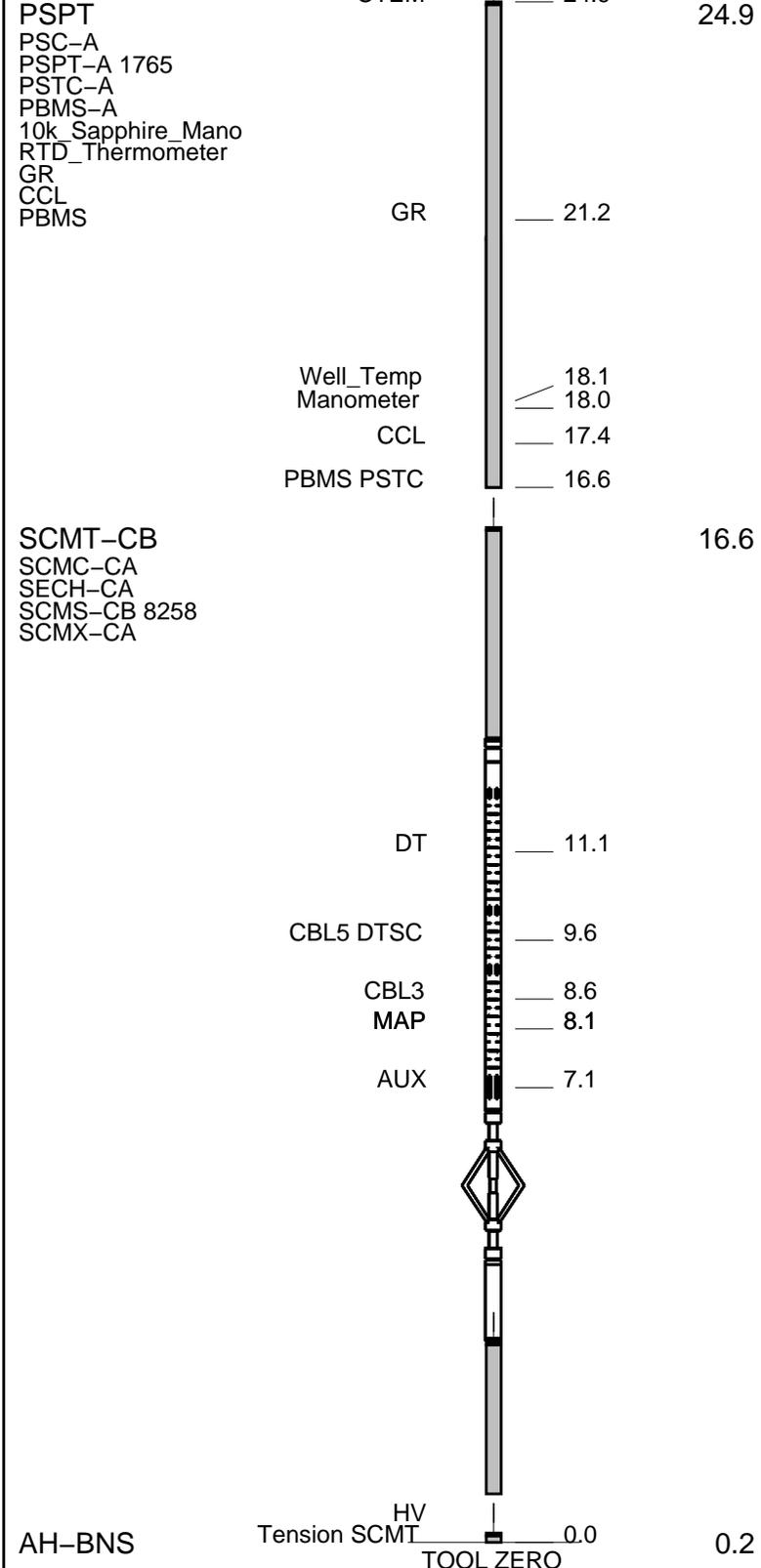
SURFACE EQUIPMENT

WITM-A
 PSC_16MHZ

DOWNHOLE EQUIPMENT

MH-22  26.7
 MH-22

AH-38  25.2
 Detail MT
 TelStatus
 CTEM
 24.9



MAXIMUM STRING DIAMETER 1.69 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN FEET

Input DLIS Files

DEFAULT SCMT_PSP_002LUP FN:1 PRODUCER 28-Sep-2011 08:25 1441.0 FT 0.0 FT

Output DLIS Files

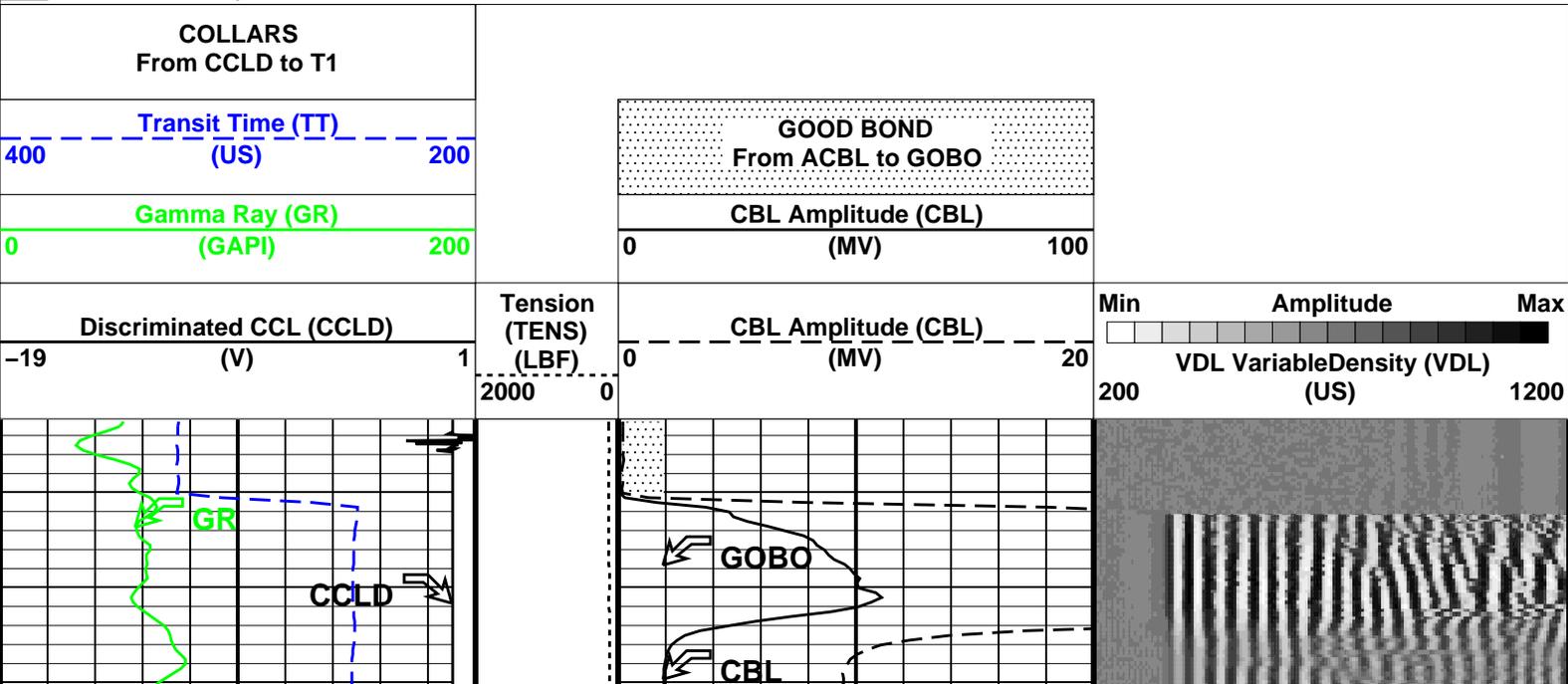
DEFAULT SCMT_PSP_004PUP FN:3 PRODUCER 28-Sep-2011 08:49 1443.0 FT 2.0 FT

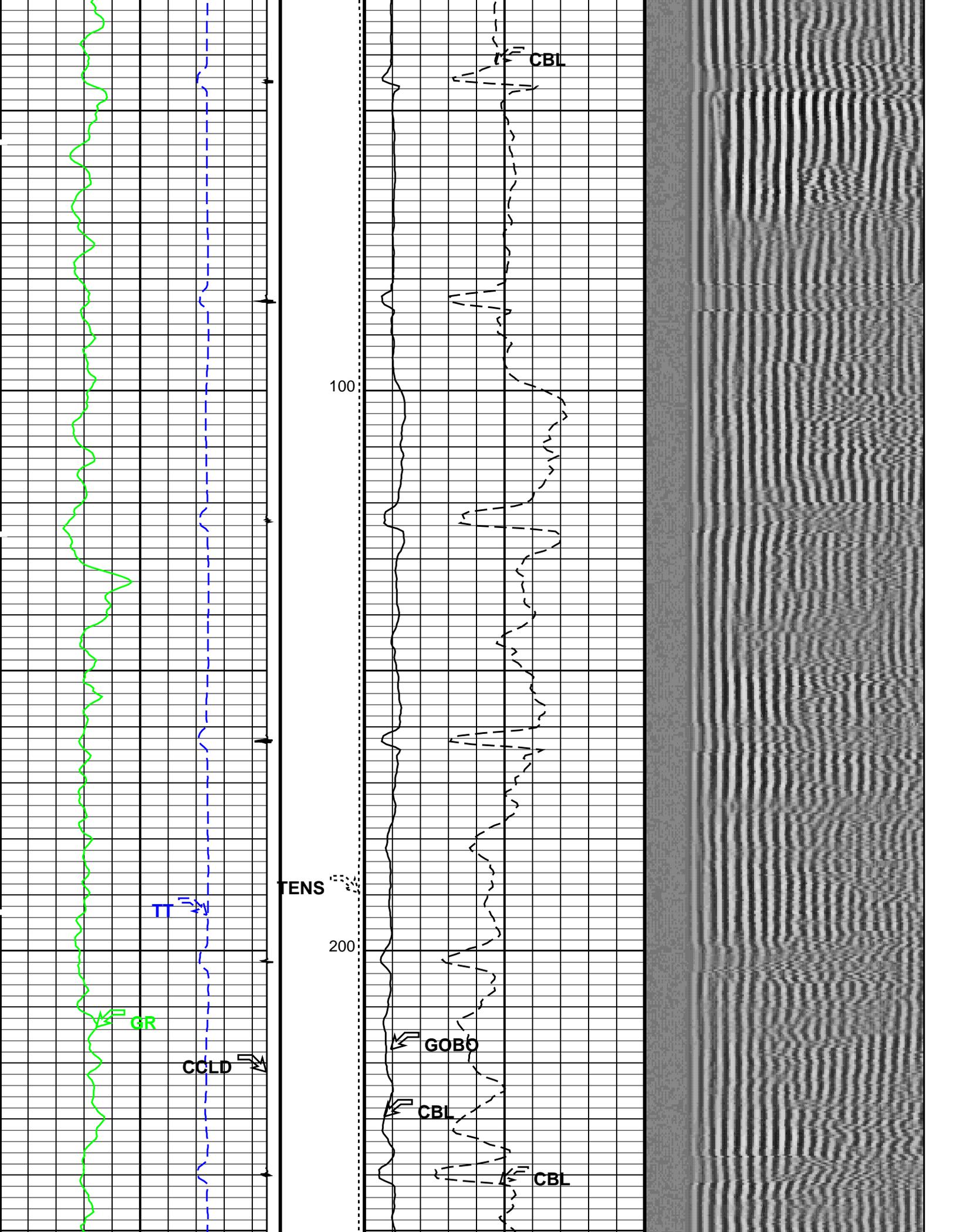
OP System Version: 19C0-187

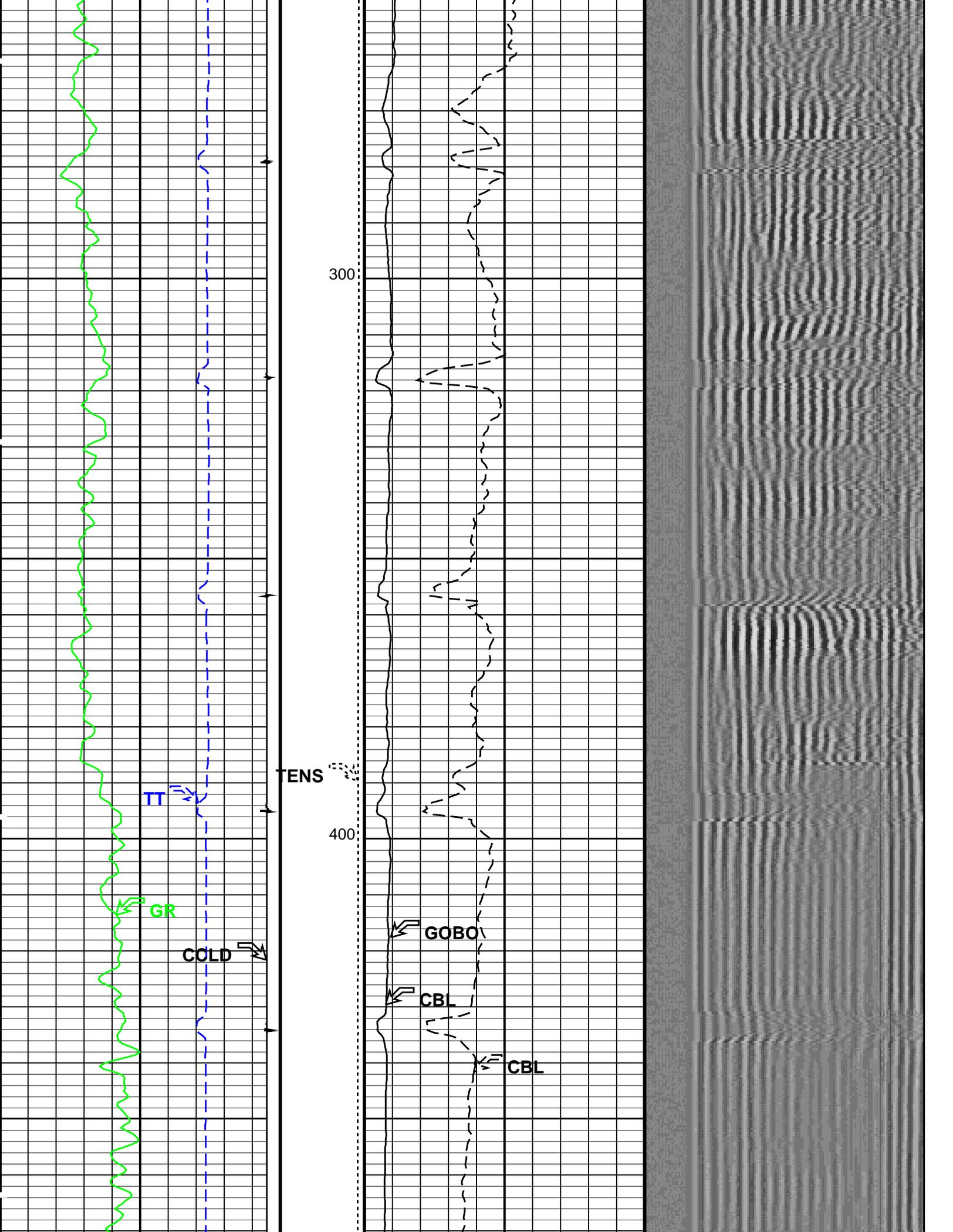
SCMT-CB 19C0-187 PSPT 19C0-187

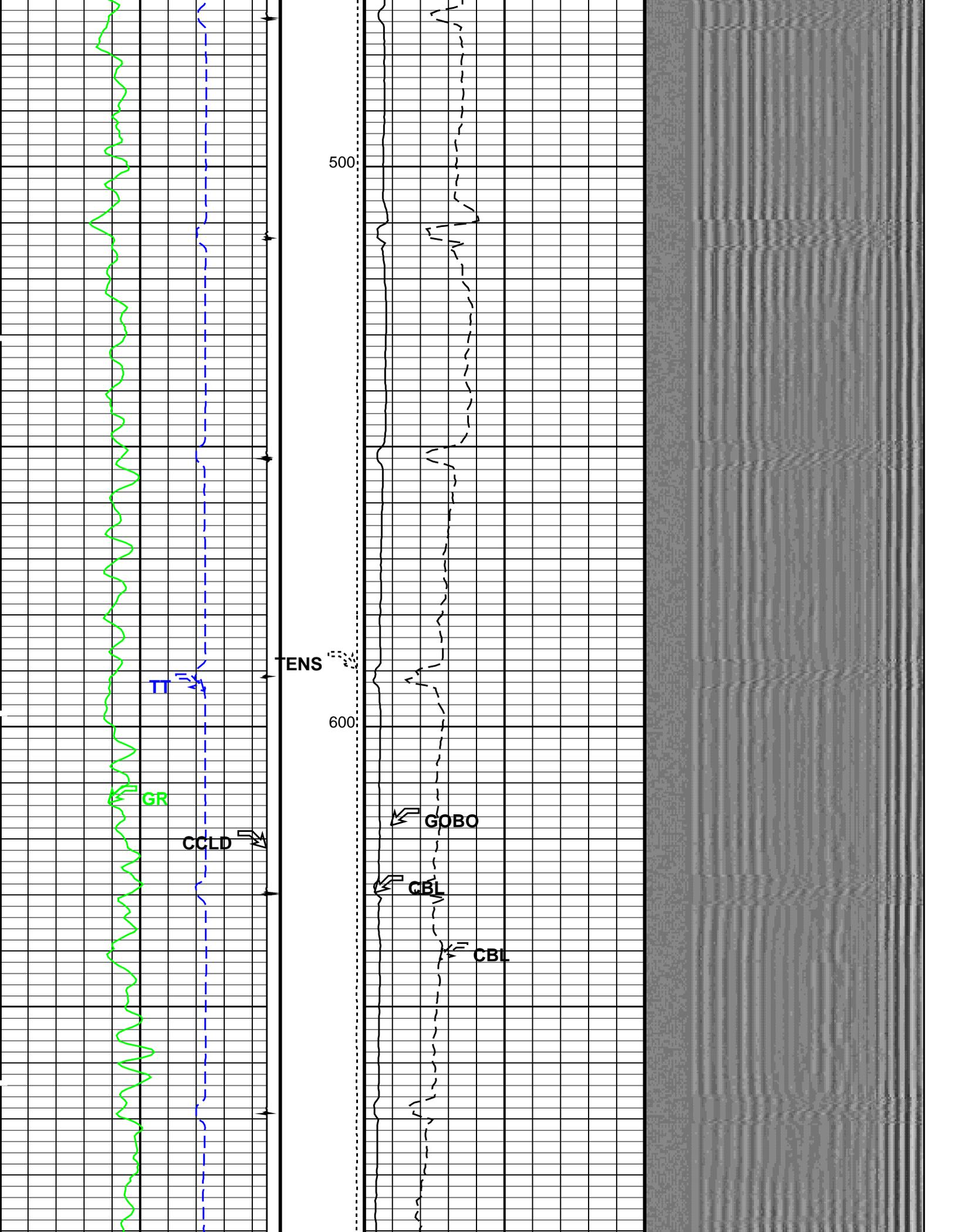
PIP SUMMARY

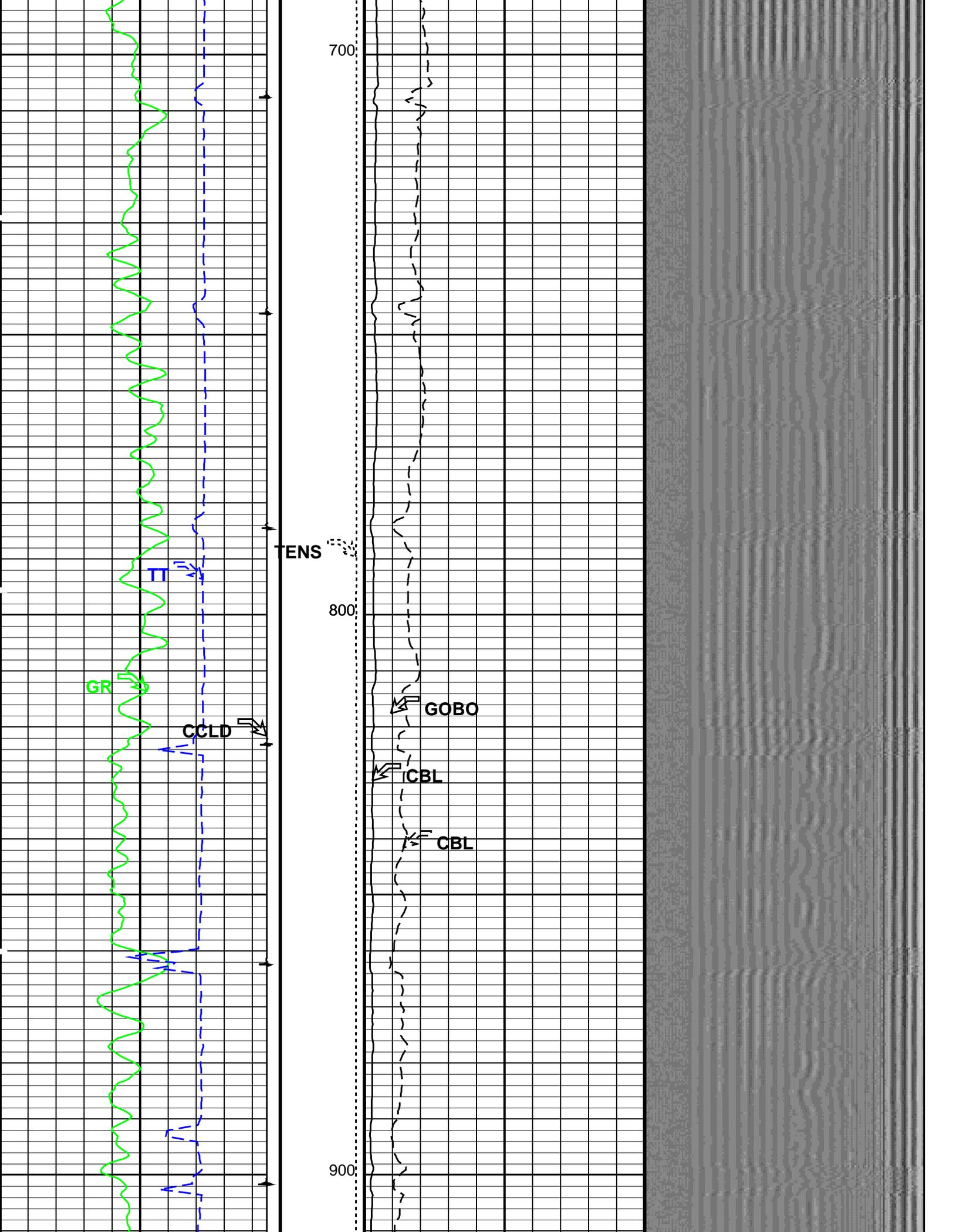
Time Mark Every 60 S

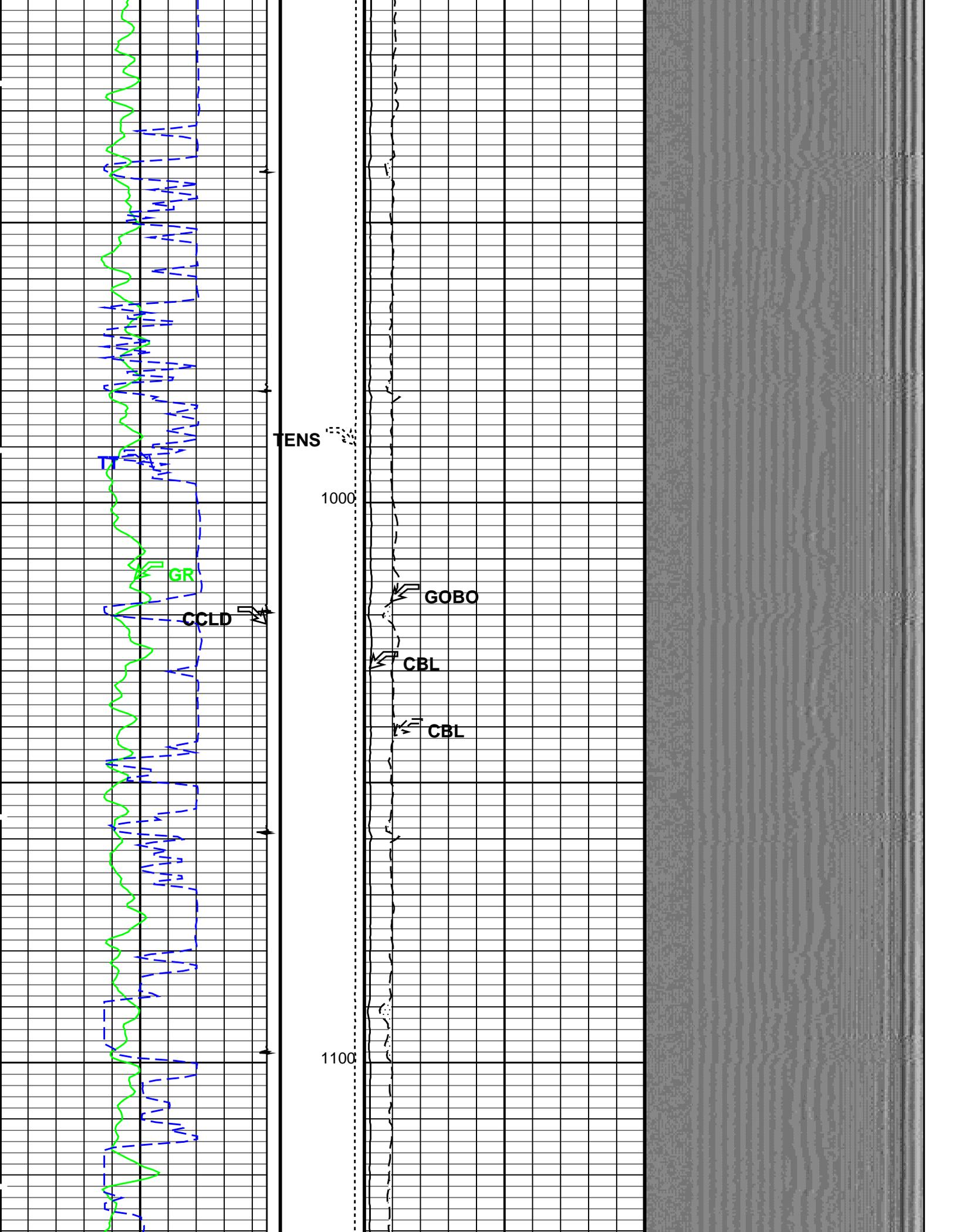


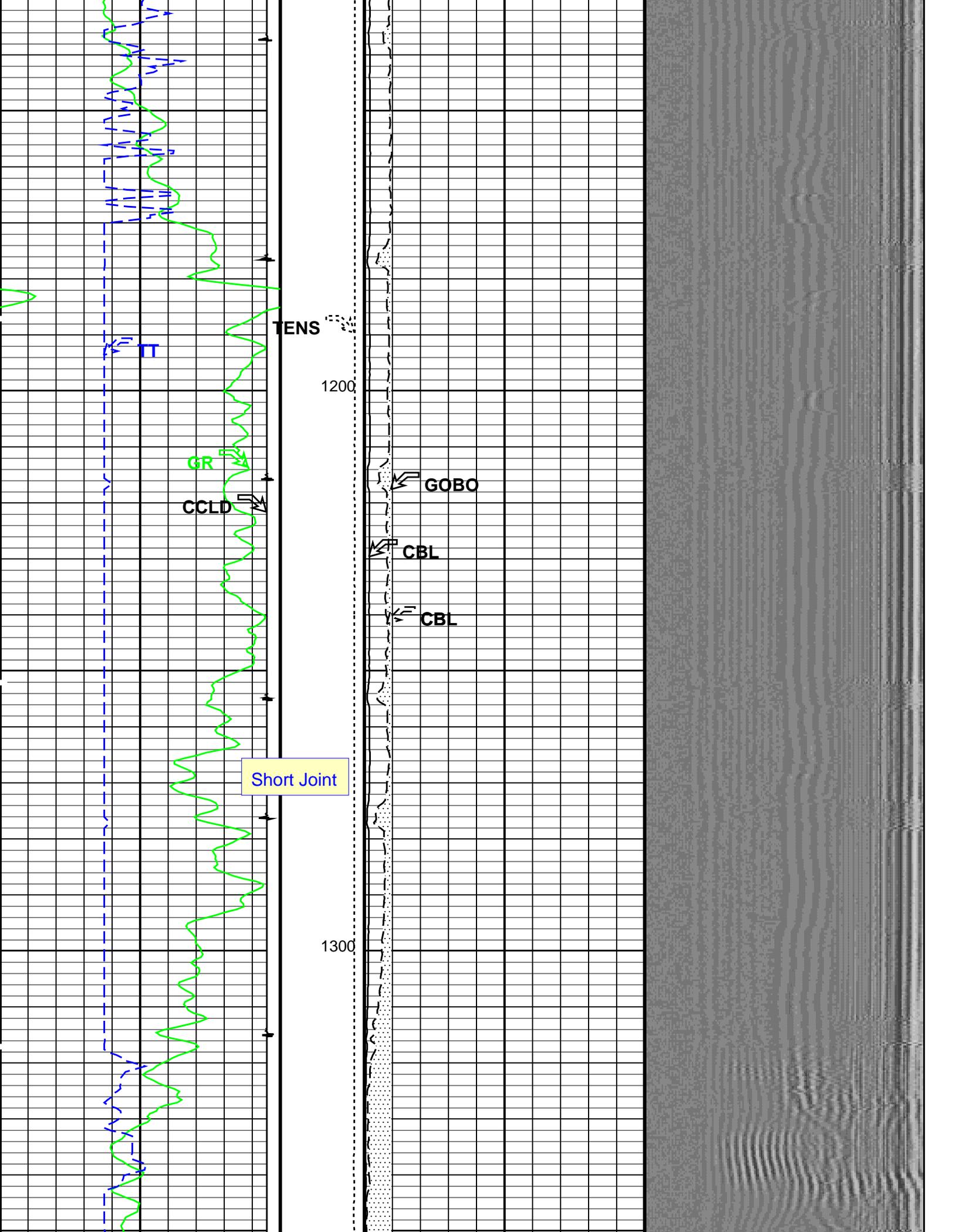


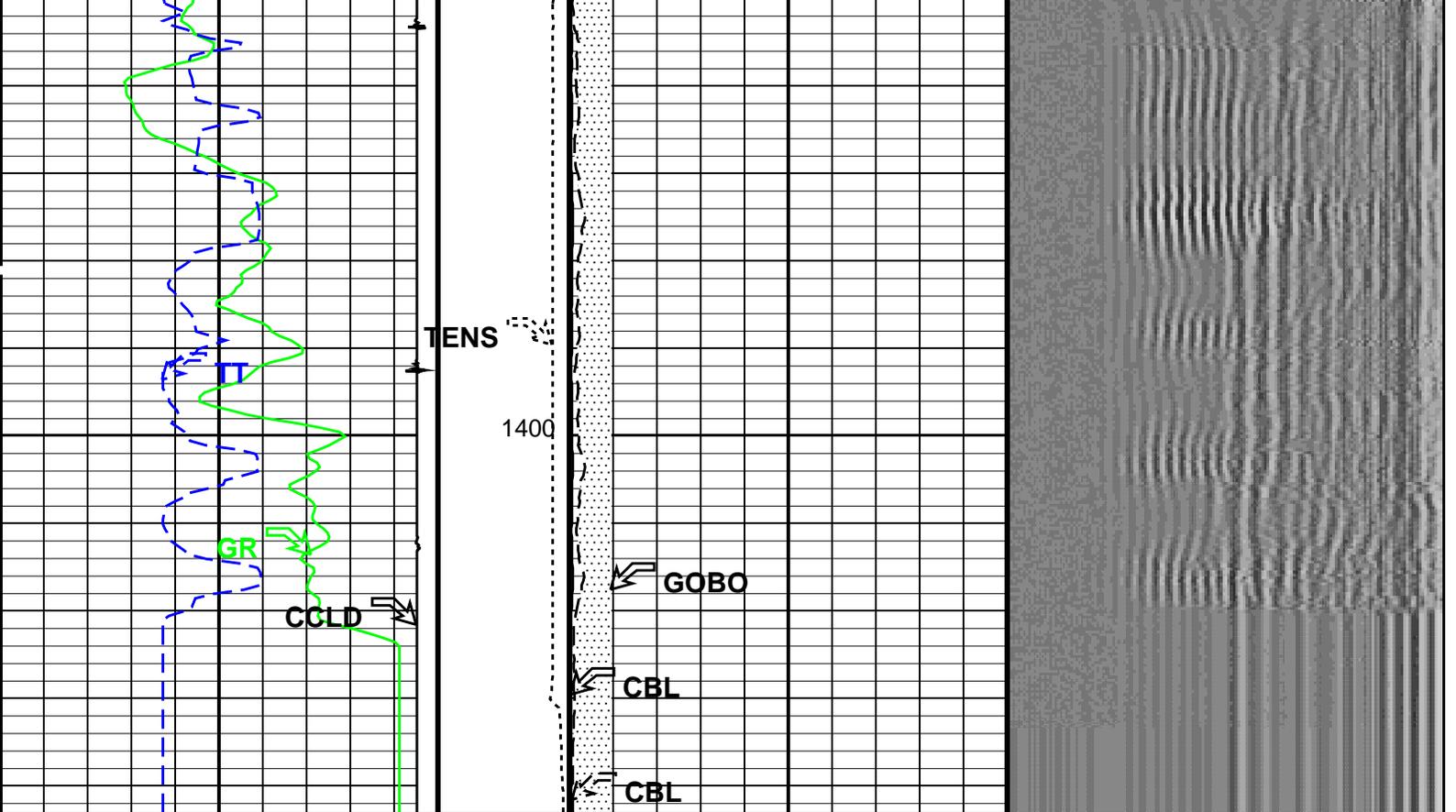












Discriminated CCL (CCLD) (V)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	Min	Amplitude	Max
-19	2000	0	200	VariableDensity (VDL)	1200
1	0	20		(US)	
Gamma Ray (GR) (GAPI)		CBL Amplitude (CBL) (MV)			
0		0			
200		100			
Transit Time (TT) (US)		GOOD BOND From ACBL to GOBO			
400					
200					
COLLARS From CCLD to T1					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	225.329 US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20 MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	339.329 US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20 MV
CBLG	CBL Gate Width	40 US
CBRA	CBL LQC Reference Amplitude in Free Pipe	79 MV
CMCF	CBL Cement Type Compensation Factor	1
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN
CMTM	SCMT Operating Mode	LOG
CSCS	SCMT Slow Channel Index	VCC
CTHI	Casing Thickness	0.229988 IN
DTF	Delta-T Fluid	189 US/F
FATT	Acoustic Attenuation due to Fluid	0 DB/F
FCF	CBL Fluid Compensation Factor	0.924277
GOBO	Good Bond	0.945006 MV
MAPD	SCMT MAP Peak Detection Mode	PEAK
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	168.329 US
MAPT	SCMT MAP Fixed Threshold Level	30 MV
MATT	Maximum Attenuation	18.4392 DB/F
MCCE	MAP Cement Type Compensation Factor	4

