

Schlumberger

Company: Noble Energy, Inc.

Well: Zweygardt 23-32B

Field: Cherry Creek

County: Cheyenne

State: Kansas

County: Cheyenne

Field: Cherry Creek

Location: Sec. 32, T3S, R41W

Well: Zweygardt 23-32B

Company: Noble Energy, Inc.

CBL – VDL

GR – CCL

Sec. 32, T3S, R41W

SHL: 2475' FSL / 1800' FWL

Elev.: K.B. 3622.00 ft

G.L. 3616.00 ft

D.F. 3621.00 ft

Permanent Datum: _____

Ground Level _____

Elev.: 3616.00 ft _____

Log Measured From: _____

Kelly Bushing _____

6.00 ft above Perm. Datum

Drilling Measured From: _____

Kelly Bushing _____

API Serial No.

15-023-21326-000C

Section 32

Township 3S

Range 41W

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	1		
Depth Driller	1631 ft		
Schlumberger Depth	1552 ft		
Bottom Log Interval	1544 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	96 degF		
Logger On Bottom	31-Aug-2011	9:00	
Unit Number	383	Fort Morgan	
Recorded By	Shane Walker		
Witnessed By	Mike Beargeon		

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

REMARKS: RUN NUMBER 2

Log correlated to log ran by Schlumberger dated 24-Aug-2011

Perf interval 1415' – 1466'

Gun Length: 51', 3 SPF, 153 shots

120 deg phasing, EH .41", Pen 18.5", 16.5 grams

Thank you for choosing Schlumberger

Crew: Shane Walker, Roger Wiley

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

BEW4-00132
18C0-147
0 ft

LOGGED INTERVAL

START

STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

[illegible]

RUN 1

RUN 2

SURFACE EQUIPMENT

WITM-A
PSC 16MHZ

DOWNHOLE EQUIPMENT

MH-22
MH-22

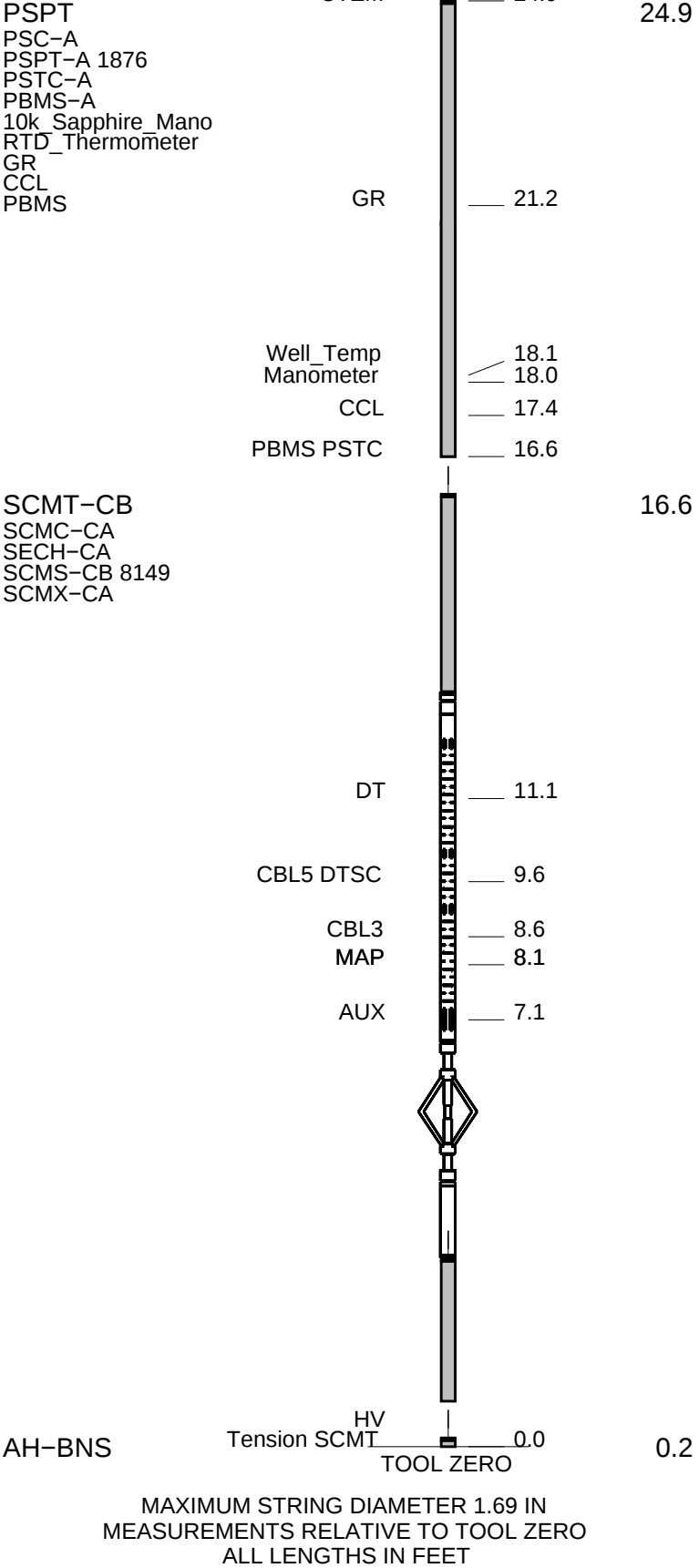
26.7

AH-38

Detail MT
TelStatus
CTEM

24.9

25.2



Output DLIS Files

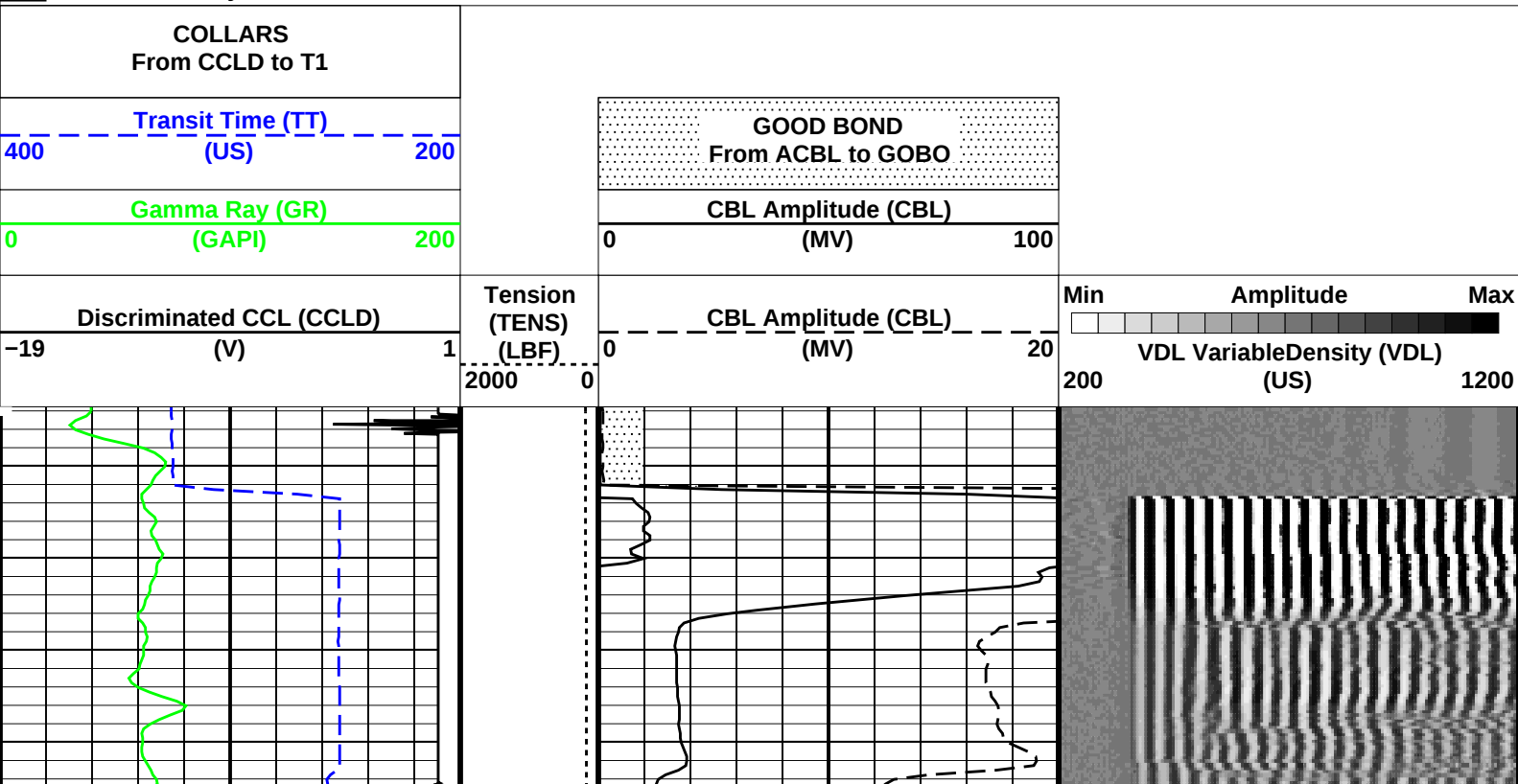
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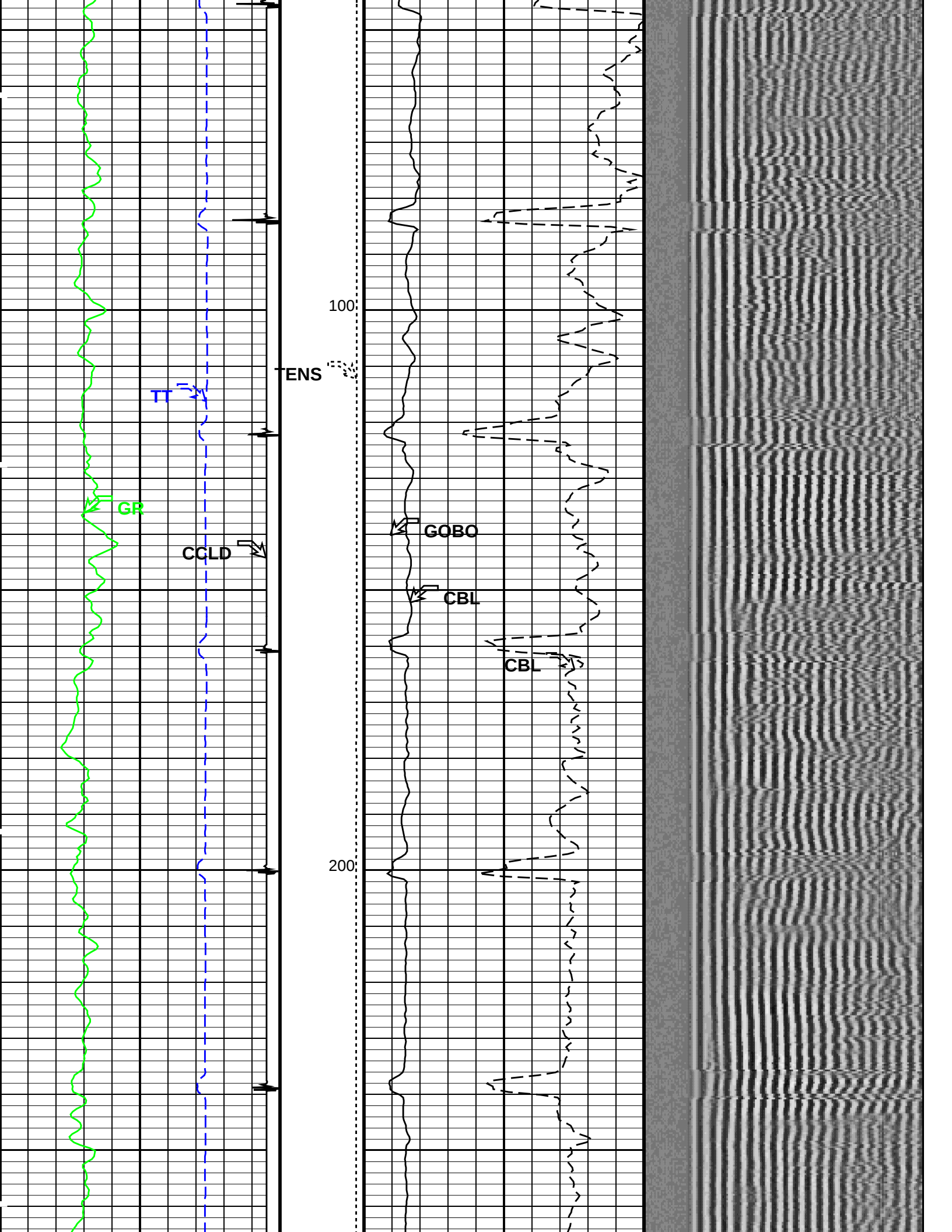
OP System Version: 18C0-147

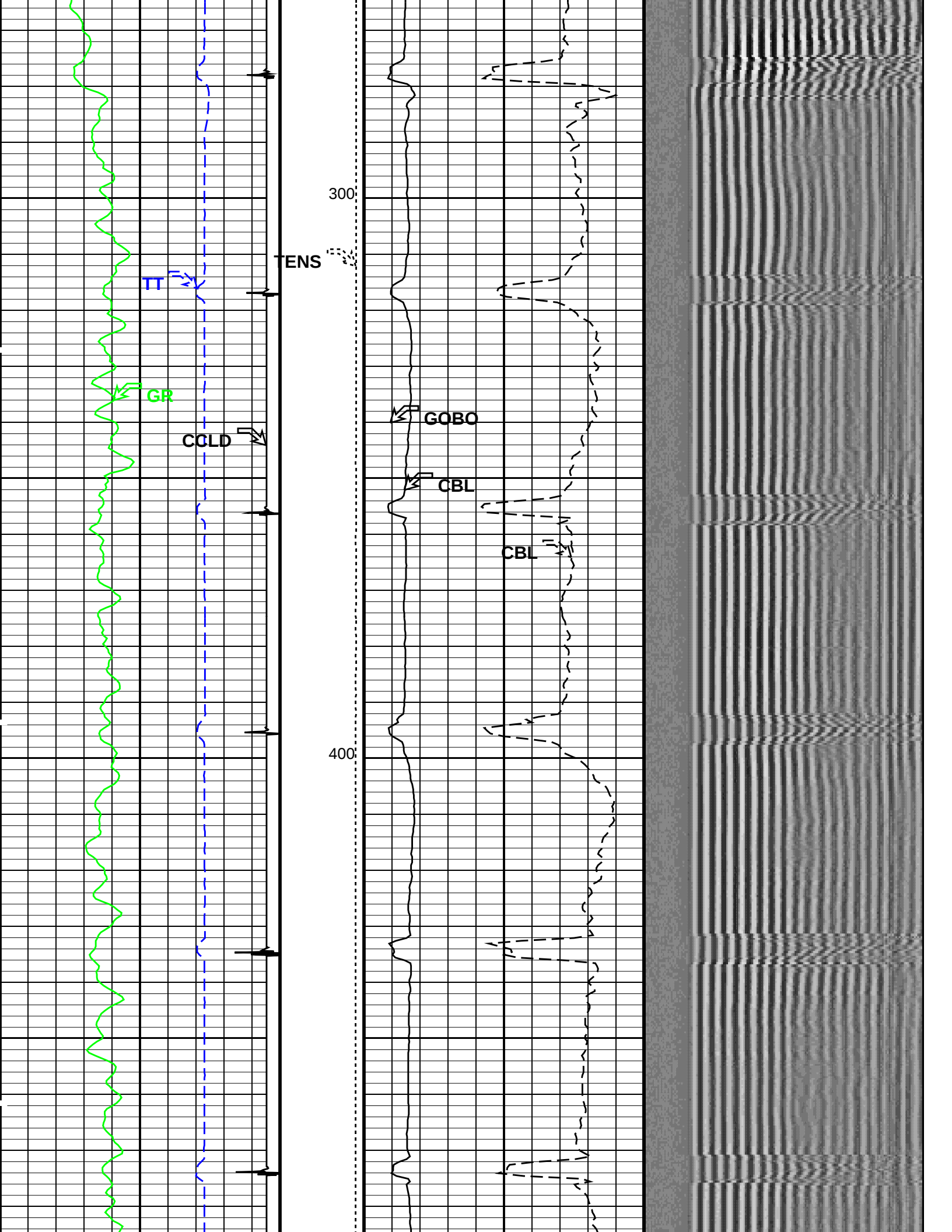
SCMT-CBHFE-4028-IFLEXPSPTHFE-4028-IFLEX

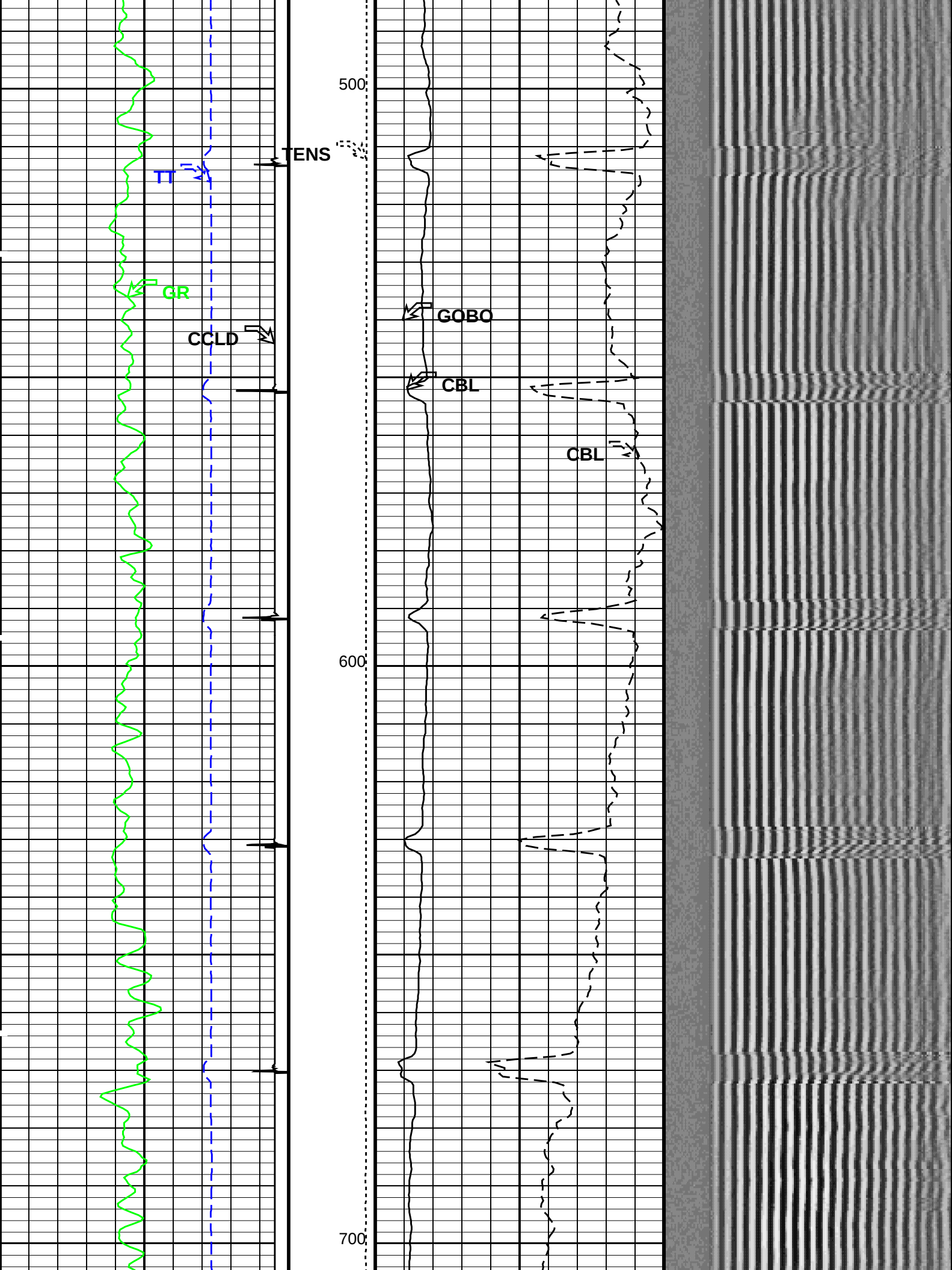
PIP SUMMARY

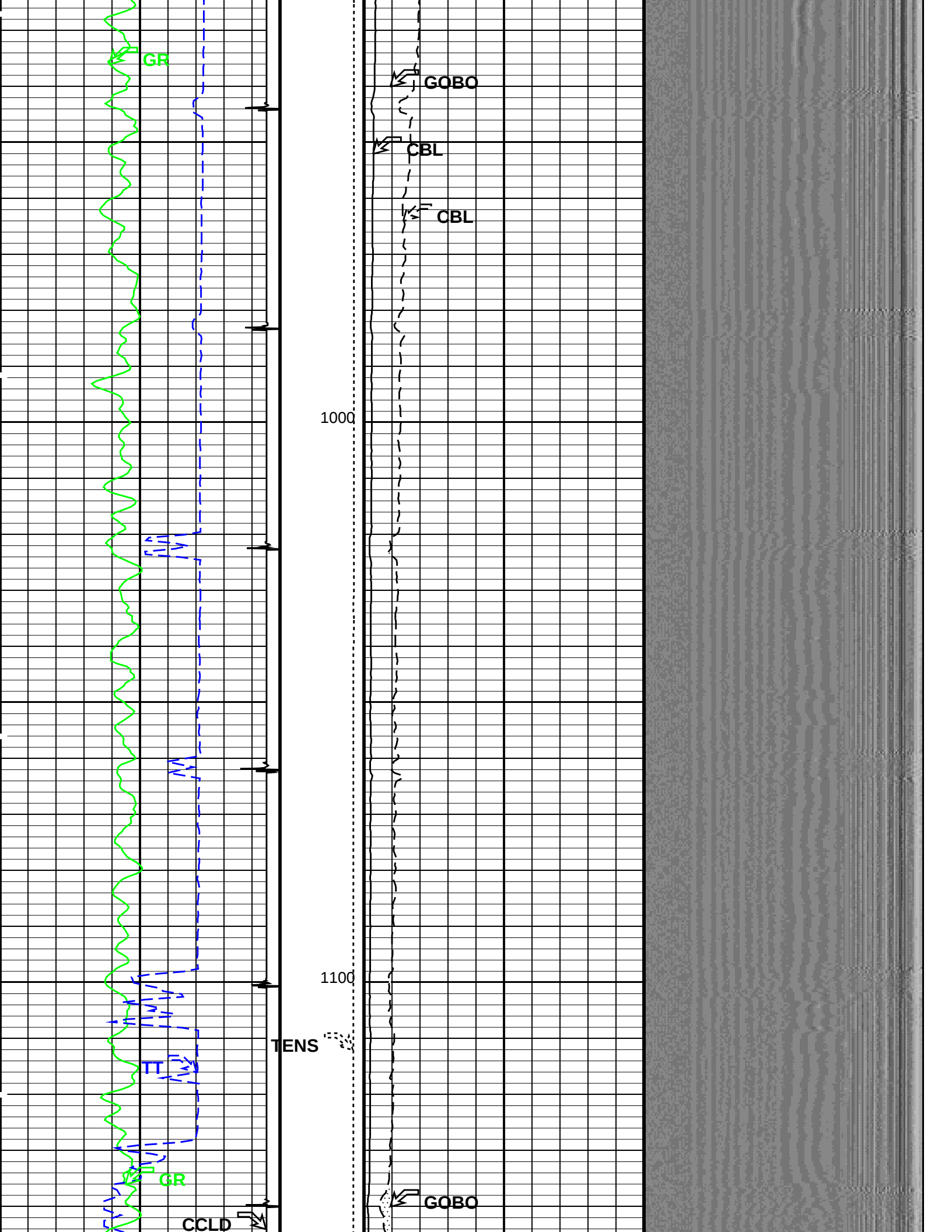
Time Mark Every 60 S

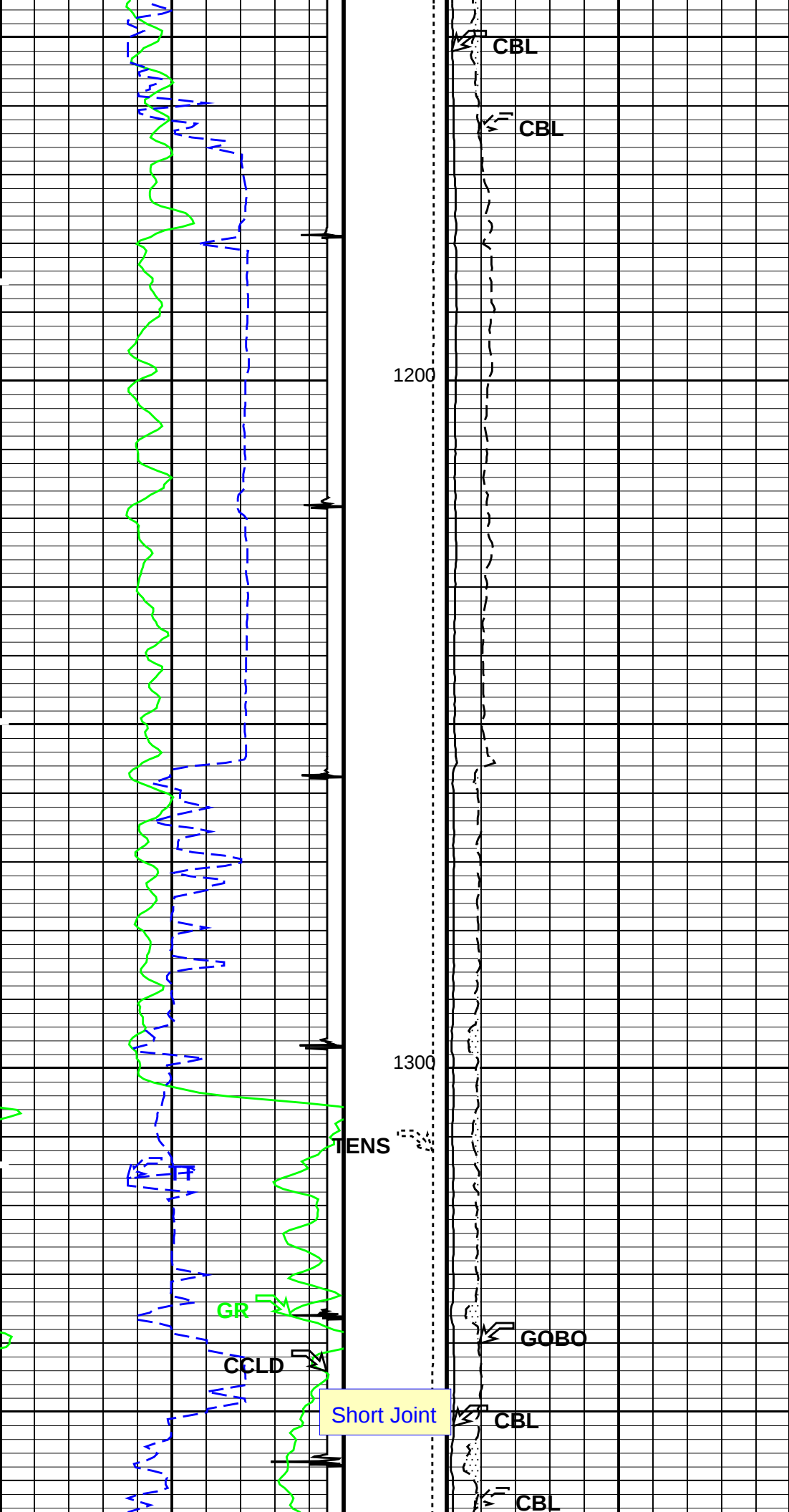












1200

1300

CBL

CBL

TIENS

GR

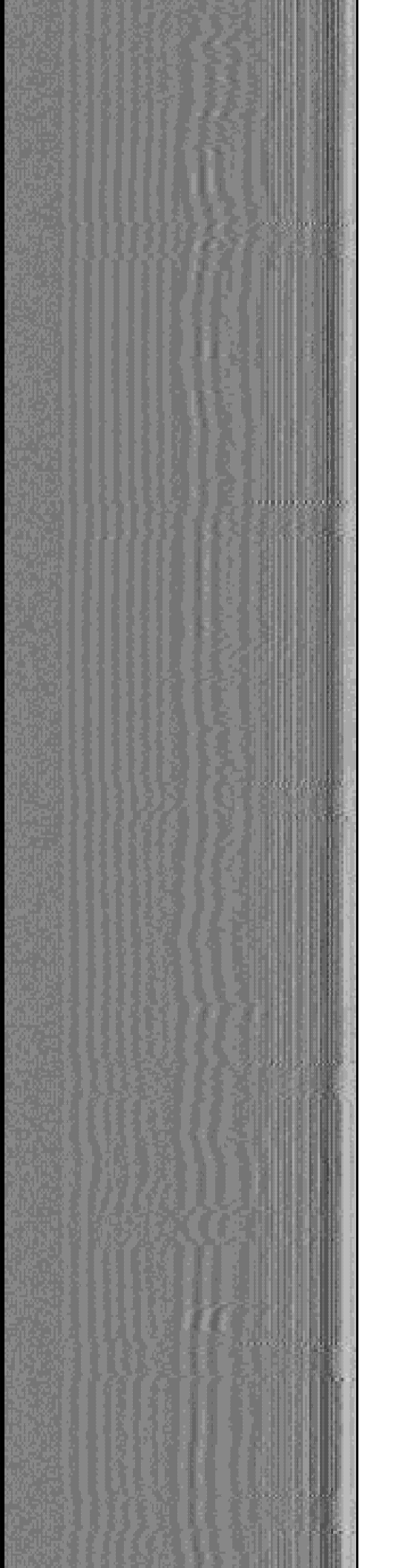
CCLD

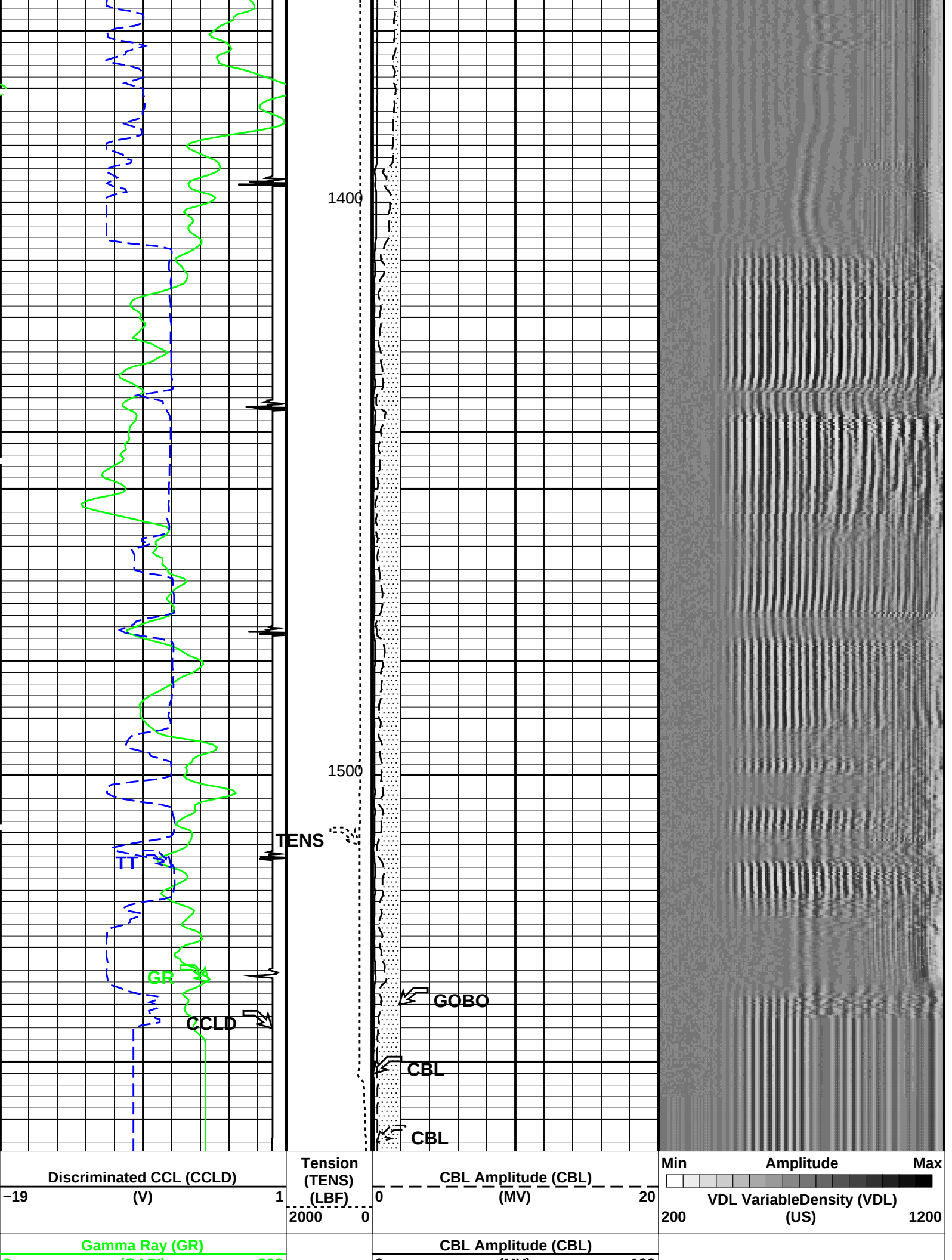
Short Joint

GOBO

CBL

CBL





(GAPI) 200		0	(MV)	100
Transit Time (TT) (US) 400 200		GOOD BOND From ACBL to GOBO		
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
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	10	FT
MMSA	MAP Minimum Sonic Amplitude	2.94385	MV
MSA	Minimum Sonic Amplitude	0.312526	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	10.50	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
TD	Total Depth	1631	FT

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 31-Aug-2011 08:49

OP System Version: 18C0-147

SCMT-CB HFE-4028-IFLEX PSPT HFE-4028-IFLEX

Output DLIS Files

DEFAULT SCMT_PSP_002LUP FN:1 PRODUCER 31-Aug-2011 08:49

Company: Noble Energy, Inc.

Schlumberger

Well: Zwegardt 23-32B

Field: Cherry Creek

County: Cheyenne

State: Kansas

CBL - VDL

GR - CCL

