

DEPTH SUMMARY LISTING

Date Created: 19-OCT-2007 5:19:30

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-46A XS
Serial Number: 6432	Serial Number: 2718	Serial Number: 7179
Calibration Date: 30-Jan-2007 (ir	Calibration Date: 21-Sep-2007	Length: 30000.00 FT
Calibrator Serial Number: 1	Calibrator Serial Number: 88310	Conveyance Method: Wireline
Calibration Cable Type: 7-46A XS	Calibration Gain: 1.26	Rig Type: LAND
Wheel Correction 1: -5	Calibration Offset: -813.00	
Wheel Correction 2: -4		

Depth Control Parameters

Log Sequence:	First Log In the Well
Stretch Correction:	3.00 FT
Tool Zero Check At Surface:	1.50 FT

Depth Control Remarks

1. Schlumberger depth control procedures followed.
2. IDW-JA used as primary depth control.
3. Z-Chart used as secondary depth control.
4. Rig up lengths at surface and bottom not done due to hole conditions.
- 5.
- 6.

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
First RIH, primary depth control used	
3 ft added to main log for stretch correction	

Max Temp 225 deg F

Caliper closed 2672, 2678 due to pull

Cement Volume calculated from 5639 ft to CSG, FCD=7"

Wiper trip done between run 1 and run 2.

1st Run - LDT-CNL-GR (AIT not ran due to tool failure) planned to run backup in 2nd run with BHC, but bridged in 1st run @ 5639

2nd Run - AIT-GR-(Hole finder) Bridged @ 6686 ft.

3rd Run - AIT-GR-PPC-(No hole finder) Bridged @ 6686 ft.

4th Run - LDT-CNL-GR Bridged @ 4300 ft.

BHC not ran as client requested.

RUN 1			RUN 2		
SERVICE ORDER #:		11816233	SERVICE ORDER #:		
PROGRAM VERSION:		15C0-309	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
NCT-B CNB-AB NCS-VB WITM (EDTS)-A	
DOWNHOLE EQUIPMENT	
<p>LEH-QT 2053 LEH-QT 2053</p> <p style="text-align: right;">42.5</p>	
<p>Mud Tempe</p> <p style="text-align: right;">39.5</p> <p>EDTC-B EDTH-B 8187 EDTC-B 8188 EDTG-A/B</p> <p style="text-align: right;">39.5</p>	
<p style="text-align: center;">CTEM</p> <p style="text-align: right;">36.0</p>	
<p>Gamma Ray</p> <p style="text-align: right;">34.2</p>	
<p>EDTCB Ele</p> <p style="text-align: right;">33.0</p>	
<p>DTA-A 8679 ECH-KE 8677 DTA-A 8679</p> <p style="text-align: right;">33.0</p>	
<p>CNT-H 114 CND-A NLS-KL NSR-F CNC-HA 114 CNH-A 4412 BOW-SPR NPV-N</p> <p style="text-align: right;">29.0</p>	
<p style="text-align: center;">CFTC CNTC</p> <p style="text-align: right;">24.6 24.1</p>	
<p>LDT-D GSR-J PGD-G NSC-E 2928 ECH-MKA 2947 DRS-C PDH-L</p> <p style="text-align: right;">21.8</p>	

Caliper
LS
SS

7.1
7.0
6.5



AH-107 3854
AH-107 3854

4.5

AH-107 3885
AH-107 3885

2.5

BNS-CCS

DF ACCZ
Tension HV
TOOL ZERO 0.0

0.5

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

Schlumberger

Cement Log

MAXIS Field Log

Company: CPC Minerals LLC

Well: CPC 17-1

Input DLIS Files

BACKUP	LDL_CNL_013LUP	FN:19	PRODUCER	19-Oct-2007 01:06	5646.0 FT	299.5 FT
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Output DLIS Files

DEFAULT	LDL_CNL_018PUP	FN:24	PRODUCER	19-Oct-2007 04:10	5649.0 FT	304.0 FT
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Integrated Hole/Cement Volume Summary

Hole Volume = 3245.06 F3

Cement Volume = 2275.10 F3 (assuming 7.00 IN casing O.D.)

Computed from 5639.0 FT to 2010.0 FT using data channel(s) CALI

OP System Version: 15C0-309

MCM

LDT-D
DTA-A

15C0-309
SKK-3299-EDTCB_b

CNT-H
EDTC-B

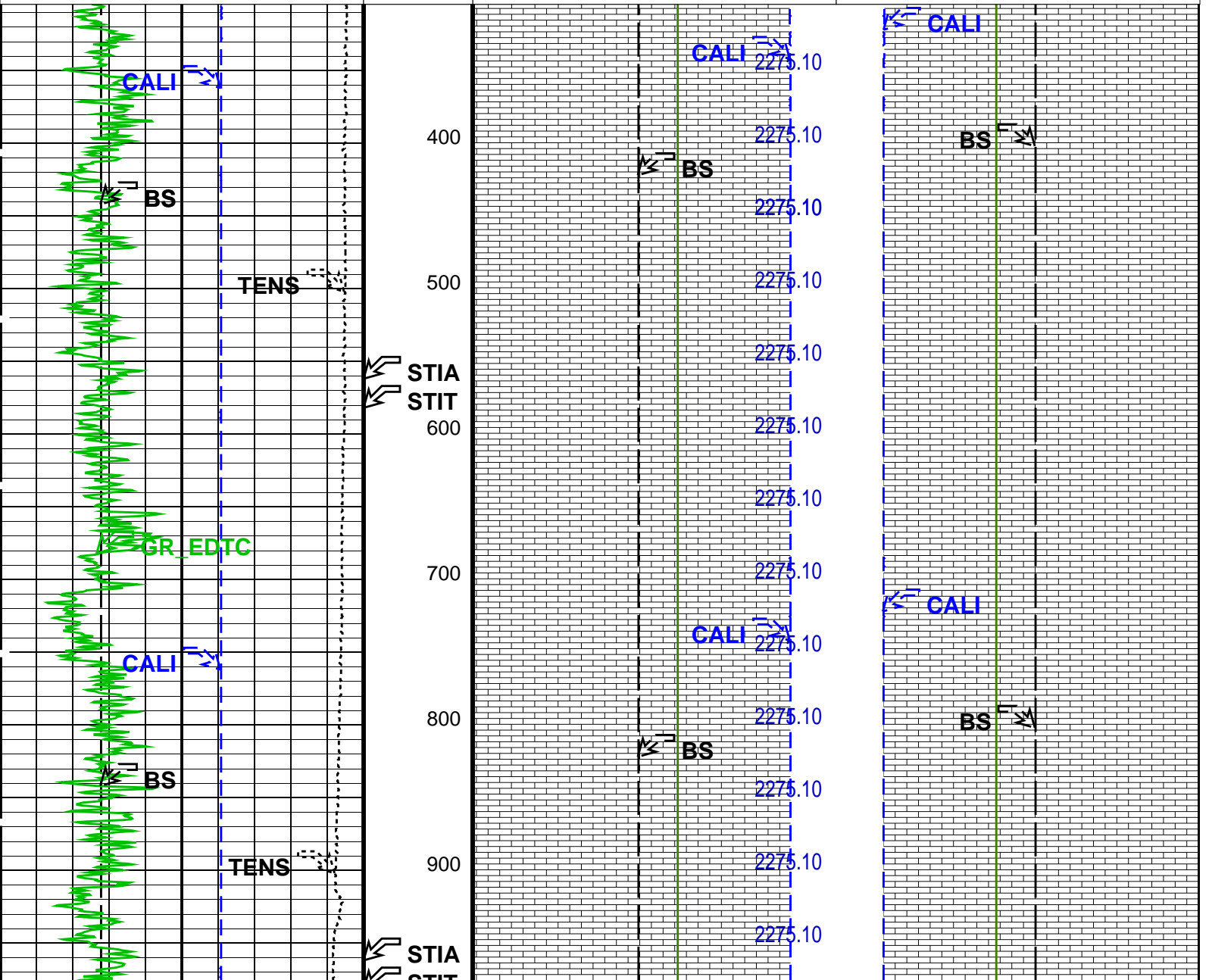
15C0-309
SKK-3299-EDTCB_b

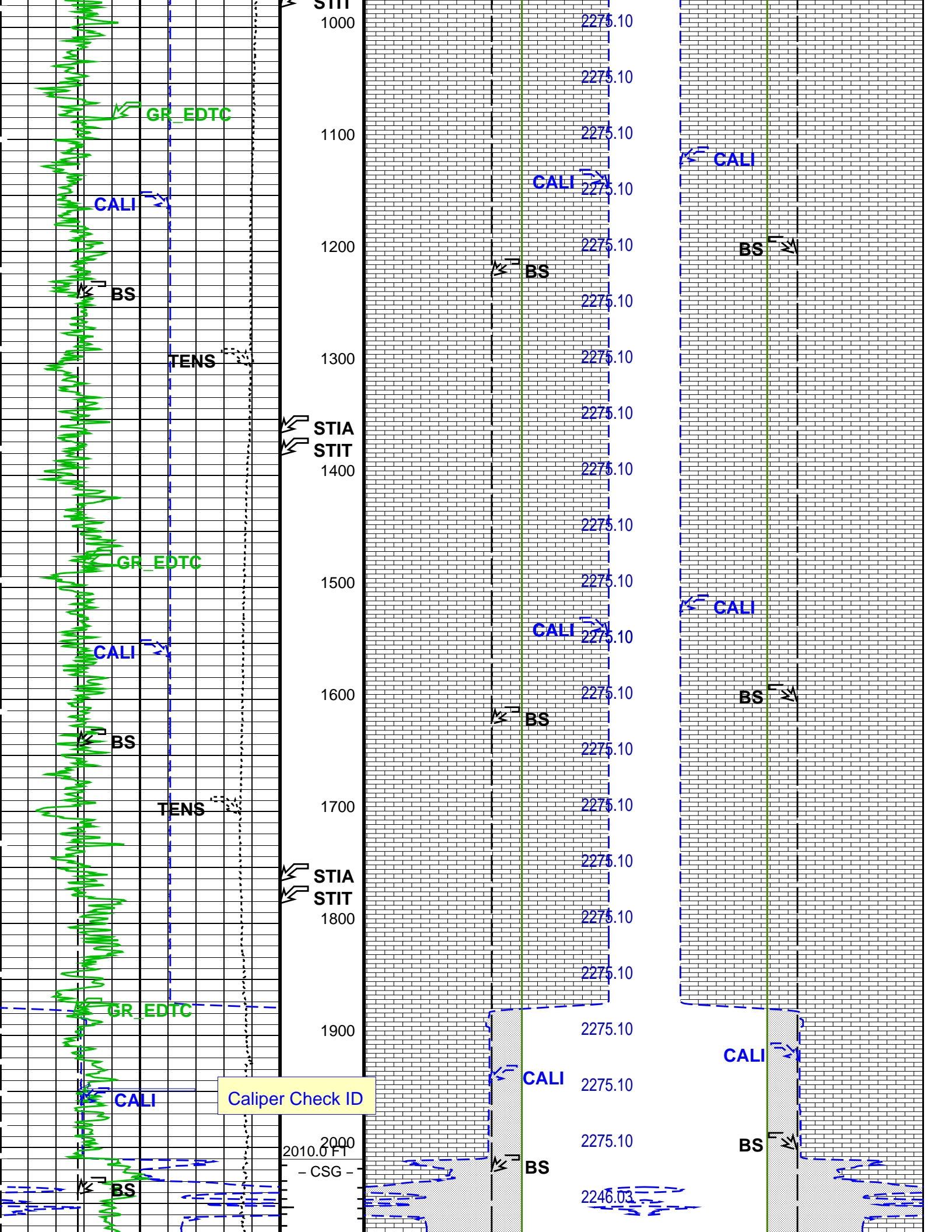
PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 10 F3
- ┆ Integrated Hole Volume Major Pip Every 100 F3

Time Mark Every 60 S

		Cement Volume (ICV) (F3)			
		FORMATION From LHT2 to CALI 1		FORMATION From CALI 2 to RHT3	
Tension (TENS) (LBF)		CEMENT From CALI 1 to SpareCurve		CEMENT From SpareCurve_1 to CALI 2	
10000	0				
Gamma Ray (GR_EDTC) (GAPI)		Future Casing Diameter (FCD) (IN)		Future Casing Diameter (FCD) (IN)	
0	150	16	0	0	16
Caliper (CALI) (IN)		Caliper (CALI) (IN)		Caliper (CALI) (IN)	
6	16	16	0	0	16
Bit Size (BS) (IN)		Bit Size (BS) (IN)		Bit Size (BS) (IN)	
6	16	16	0	0	16
		Stuck Stretch (STIT) (F)			
		0		50	





STIT

1000

1100

1200

1300

STIA

STIT

1400

1500

1600

1700

STIA

STIT

1800

1900

Caliper Check ID

2010.0 FT

- CSG -

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2275.10

2246.03

GR_EDTC

CALI

BS

TENS

GR_EDTC

CALI

BS

TENS

GR_EDTC

CALI

BS

CALI

BS

CALI

BS

CALI

BS

CALI

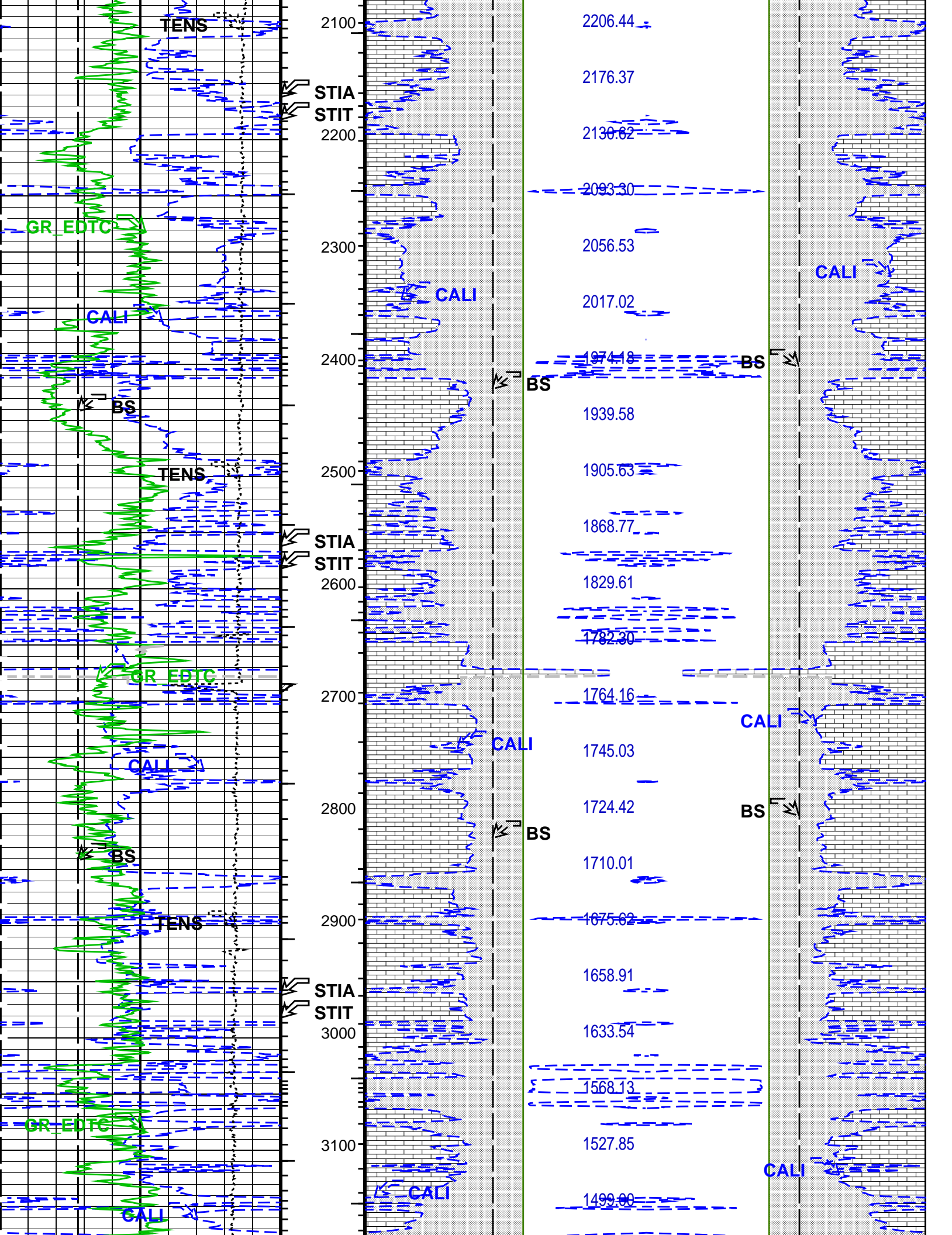
BS

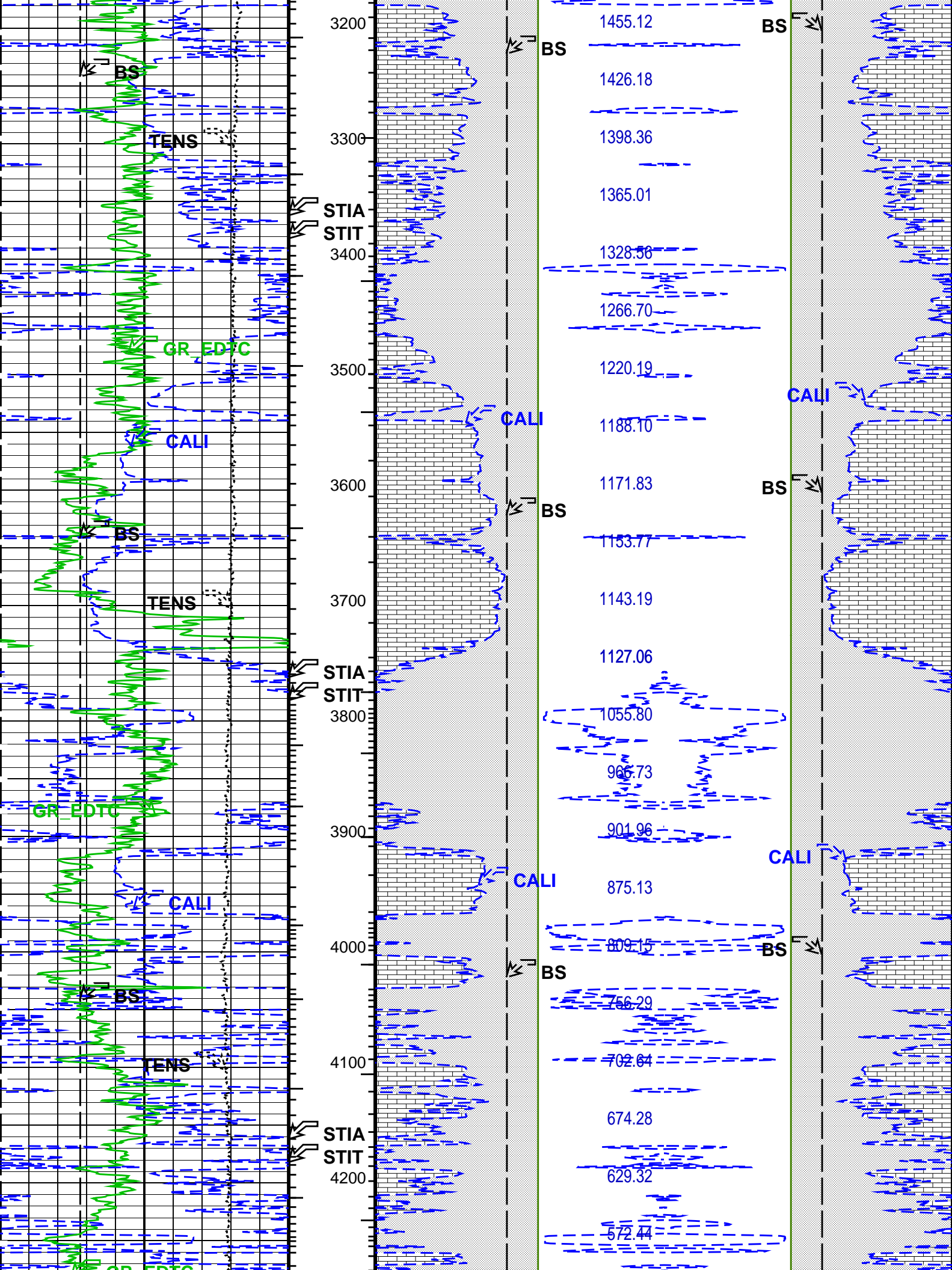
CALI

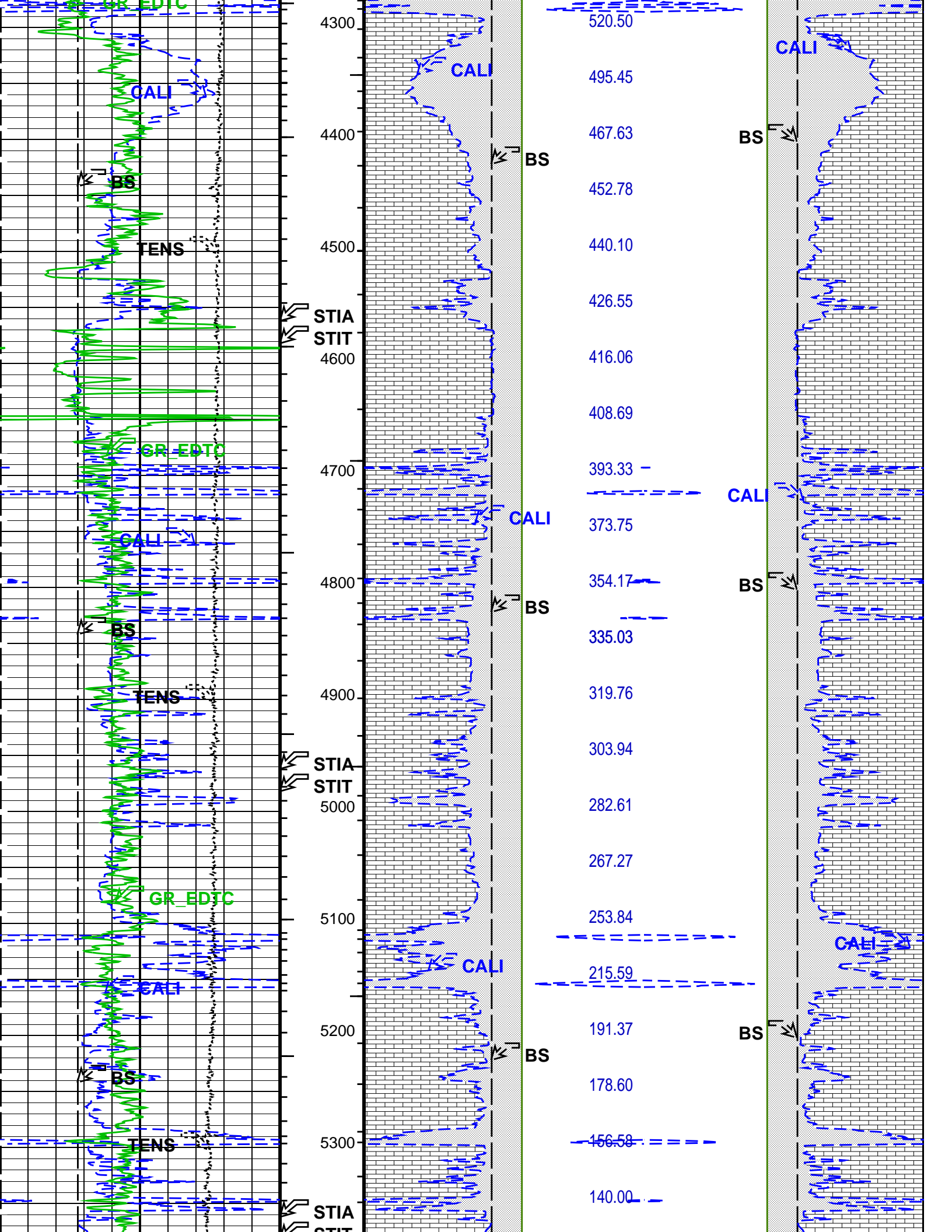
BS

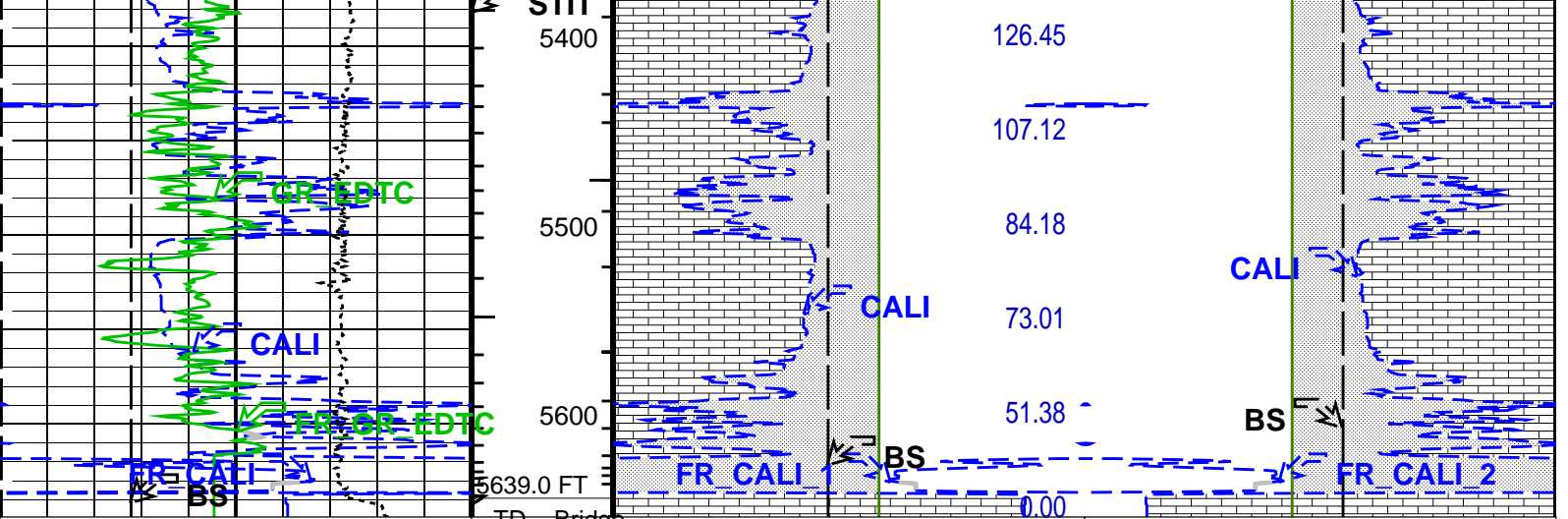
CALI

BS









6	Bit Size (BS) (IN)	16	TD - Bridge Stuck Stretch (STIT) (F) 50	16	Bit Size (BS) (IN)	0 0	16	Bit Size (BS) (IN)	16
6	Caliper (CALI) (IN)	16	Cable Drag From STIA to STIT	16	Caliper (CALI) (IN)	0 0	16	Caliper (CALI) (IN)	16
0	Gamma Ray (GR_EDTC) (GAPI)	150	Tool/Tot. Drag From D3T to STIA	16	Future Casing Diameter (FCD) (IN)	0 0	16	Future Casing Diameter (FCD) (IN)	16
10000	Tension (TENS) (LBF)	0							
				CEMENT From CALI 1 to SpareCurve			CEMENT From SpareCurve_1 to CALI 2		
				FORMATION From LHT2 to CALI 1			FORMATION From CALI 2 to RHT3		
				Cement Volume (ICV) (F3)					

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Format: CEMENT Vertical Scale: 1" per 100'

Graphics File Created: 19-Oct-2007 04:10

OP System Version: 15C0-309
MCM

LDT-D	15C0-309	CNT-H	15C0-309
DTA-A	SKK-3299-EDTCB_b	EDTC-B	SKK-3299-EDTCB_b

Input DLIS Files

BACKUP	LDL_CNL_013LUP	FN:19	PRODUCER	19-Oct-2007 01:06	5646.0 FT	299.5 FT
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Output DLIS Files

DEFAULT	LDL_CNL_018PUP	FN:24	PRODUCER	19-Oct-2007 04:10
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MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Litho Density – D Wellsite Calibration – Background Measurement							
Master: 16–Oct–2007 20:41 Before: 17–Oct–2007 18:08							
LL Background	20.00	15.93	15.75	N/A	N/A	1.000	CPS
LU Background	76.00	60.95	61.27	N/A	N/A	1.000	CPS
LS Background	57.00	46.41	46.38	N/A	N/A	1.000	CPS
LITH Background	5.500	4.574	4.468	N/A	N/A	0.3000	CPS
SS1 Background	16.00	13.49	13.59	N/A	N/A	0.5000	CPS
SS2 Background	11.00	9.141	9.181	N/A	N/A	0.5000	CPS
Litho Density – D Wellsite Calibration – Tool Quality Control Information HV							
Master: 16–Oct–2007 20:41 Before: 17–Oct–2007 18:08							
LSHV Background	1500	1364	1361	N/A	N/A	N/A	V
SSHV Background	1500	1125	1126	N/A	N/A	N/A	V
Litho Density – D Wellsite Calibration – Detectors Resolution From BKG Measurements							
Master: 16–Oct–2007 20:41 Before: 17–Oct–2007 18:08							
LS Resolution Background	8.000	9.639	9.756	N/A	N/A	N/A	
SS Resolution Background	8.000	8.865	8.894	N/A	N/A	N/A	
Litho Density – D Wellsite Calibration – Caliper Calibration							
Before: 17–Oct–2007 17:54							
Caliper Small Ring	8.000	N/A	8.309	N/A	N/A	N/A	IN
Caliper Large Ring	12.00	N/A	12.50	N/A	N/A	N/A	IN
Litho Density – D Master Calibration – Aluminum Measurement							
Master: 16–Oct–2007 21:13							
LL Aluminum	90.00	96.64	--	--	--	--	CPS
LU Aluminum	135.0	148.5	--	--	--	--	CPS
LS Aluminum	155.0	170.9	--	--	--	--	CPS
LITH Aluminum	50.00	60.84	--	--	--	--	CPS
SS1 Aluminum	175.0	201.5	--	--	--	--	CPS
SS2 Aluminum	260.0	278.9	--	--	--	--	CPS
Litho Density – D Master Calibration – Litholog Measurement							
Master: 16–Oct–2007 21:08							
LL Iron	80.00	90.70	--	--	--	--	CPS
LU Iron	120.0	138.8	--	--	--	--	CPS
LS Iron	135.0	160.1	--	--	--	--	CPS
LITH Iron	30.00	42.01	--	--	--	--	CPS
SS1 Iron	155.0	190.2	--	--	--	--	CPS
SS2 Iron	245.0	265.2	--	--	--	--	CPS
Litho Density – D Master Calibration – Spectrum Quality Ratios							
Master: 16–Oct–2007 21:13							
QRLS Calculated	0.6500	0.6507	--	--	--	--	
QRSS Calculated	0.7200	0.7226	--	--	--	--	
QRLI Calculated	0.3900	0.3560	--	--	--	--	
QLIR Calculated	1.390	1.357	--	--	--	--	
QR Calculated	1.000	1.007	--	--	--	--	
Compensated Neutron – H Wellsite Calibration – Zero Measurement							
Master: 6–Oct–2007 1:27 Before: 17–Oct–2007 18:07							
CNTC Background	34.68	34.68	35.82	N/A	N/A	5.201	CPS
CFTC Background	30.67	30.67	30.75	N/A	N/A	4.601	CPS
Compensated Neutron – H Master Calibration – Tank Measurement							
Master: 6–Oct–2007 1:44							
Thermal Near Corr. (Tank)	6031	5962	--	--	--	--	CPS
Thermal Far Corr. (Tank)	2793	2438	--	--	--	--	CPS
CNTC/CFTC (Tank)	2.159	2.445	--	--	--	--	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 19–Oct–2007 0:54							
EDTC Z–Axis Acceleration	32.19	N/A	32.52	N/A	N/A	N/A	F/S2

Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 17–Oct–2007 17:52

Gamma Ray (Jig – Bkg)	157.9	N/A	157.9	N/A	N/A	14.35	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

The CNT Master Calibration Was Done With The Following Parameters :

NCT–B Water Temperature 62.2 DEG.F.
 Thermal Housing Size 3.370 IN.

Litho Density – D / Equipment Identification

Primary Equipment:

Nuclear Services Cartridge	NSC – E	2928
Powered Gamma Detector	PGD – G	
Gamma Source Radioactive	GSR – J	

Auxiliary Equipment:

Density Resistivity Sonde	DRS – C	
Electronics Cartridge Housing	ECH – MKA	2947
Powered Detector Housing	PDH – L	

Litho Density – D Wellsite Calibration

Background Measurement

Phase	LL Background CPS	Value	Phase	LU Background CPS	Value	Phase	LS Background CPS	Value
Master		15.93	Master		60.95	Master		46.41
Before		15.75	Before		61.27	Before		46.38
	15.00 (Minimum) 20.00 (Nominal) 25.00 (Maximum)			58.00 (Minimum) 76.00 (Nominal) 94.00 (Maximum)			43.00 (Minimum) 57.00 (Nominal) 72.00 (Maximum)	
Phase	LITH Background CPS	Value	Phase	SS1 Background CPS	Value	Phase	SS2 Background CPS	Value
Master		4.574	Master		13.49	Master		9.141
Before		4.468	Before		13.59	Before		9.181
	4.000 (Minimum) 5.500 (Nominal) 7.000 (Maximum)			12.00 (Minimum) 16.00 (Nominal) 19.50 (Maximum)			8.000 (Minimum) 11.00 (Nominal) 13.50 (Maximum)	

Master: 16–Oct–2007 20:41

Before: 17–Oct–2007 18:08

Litho Density – D Wellsite Calibration

Detectors Resolution From BKG Measurements

Phase	LS Resolution Background	Value	Phase	SS Resolution Background	Value
Master		9.639	Master		8.865
Before		9.756	Before		8.894
	5.000 (Minimum) 8.000 (Nominal) 11.50 (Maximum)			5.000 (Minimum) 8.000 (Nominal) 11.50 (Maximum)	

Master: 16–Oct–2007 20:41

Before: 17–Oct–2007 18:08

Litho Density – D Master Calibration

Aluminum Measurement

Phase	LL Aluminum CPS	Value	Phase	LU Aluminum CPS	Value	Phase	LS Aluminum CPS	Value
Master		96.64	Master		148.5	Master		170.9
	70.00 (Minimum) 90.00 (Nominal) 125.0 (Maximum)			100.0 (Minimum) 135.0 (Nominal) 194.0 (Maximum)			120.0 (Minimum) 155.0 (Nominal) 217.0 (Maximum)	
Phase	LITH Aluminum CPS	Value	Phase	SS1 Aluminum CPS	Value	Phase	SS2 Aluminum CPS	Value
Master		60.84	Master		201.5	Master		278.9
	35.00 (Minimum) 50.00 (Nominal) 74.00 (Maximum)			125.0 (Minimum) 175.0 (Nominal) 256.0 (Maximum)			210.0 (Minimum) 260.0 (Nominal) 353.0 (Maximum)	

Master: 16–Oct–2007 21:13

Litho Density – D Master Calibration

Litholog Measurement

Phase	LL Iron CPS	Value	Phase	LU Iron CPS	Value	Phase	LS Iron CPS	Value
Master		90.70	Master		138.8	Master		160.1

60.00 (Minimum)	80.00 (Nominal)	114.0 (Maximum)	85.00 (Minimum)	120.0 (Nominal)	177.0 (Maximum)	100.0 (Minimum)	135.0 (Nominal)	193.0 (Maximum)			
Phase	LITH Iron CPS		Value	Phase	SS1 Iron CPS		Value	Phase	SS2 Iron CPS		Value
Master			42.01	Master			190.2	Master			265.2
15.00 (Minimum)	30.00 (Nominal)	51.00 (Maximum)	105.0 (Minimum)	155.0 (Nominal)	234.0 (Maximum)	190.0 (Minimum)	245.0 (Nominal)	325.0 (Maximum)			

Master: 16-Oct-2007 21:08

Litho Density – D Master Calibration														
Spectrum Quality Ratios														
Phase	QRLS Calculated			Value	Phase	QRSS Calculated			Value	Phase	QRLI Calculated			Value
Master				0.6507	Master				0.7226	Master				0.3560
0.6000 (Minimum)	0.6500 (Nominal)	0.7000 (Maximum)	0.6200 (Minimum)	0.7200 (Nominal)	0.8200 (Maximum)	0.2900 (Minimum)	0.3900 (Nominal)	0.4500 (Maximum)						
Phase	QLIR Calculated			Value	Phase	QR Calculated			Value					
Master				1.357	Master				1.007					
1.290 (Minimum)	1.390 (Nominal)	1.450 (Maximum)	0.9800 (Minimum)	1.000 (Nominal)	1.020 (Maximum)									

Master: 16-Oct-2007 21:13

Compensated Neutron – H / Equipment Identification				
Primary Equipment:				
Compensated Neutron Cartridge	CNC – HA	114	114	
Neutron Logging Source	NLS – KL			
Neutron Source Radioactive	NSR – F			
Neutron Detector with Alpha Source	CND – A			
Compensated Neutron Box	CNB – AB			
Auxiliary Equipment:				
Compensated Neutron Housing	CNH – A	4412	4412	
Neutron Calibration Tank	NCT – B			

Compensated Neutron – H Wellsite Calibration							
Zero Measurement							
Phase	CNTC Background CPS		Value	Phase	CFTC Background CPS		Value
Master			34.68	Master			30.67
Before			35.82	Before			30.75
5.000 (Minimum)	34.68 (Nominal)	40.00 (Maximum)	5.000 (Minimum)	30.67 (Nominal)	40.00 (Maximum)		

Master: 6-Oct-2007 1:27

Before: 17-Oct-2007 18:07

Compensated Neutron – H Master Calibration														
Tank Measurement														
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value
Master				5962	Master				2438	Master				2.445
5000 (Minimum)	6031 (Nominal)	7200 (Maximum)	2075 (Minimum)	2793 (Nominal)	3125 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)						

Master: 6-Oct-2007 1:44

Enhanced DTS Cartridge / Equipment Identification				
Primary Equipment:				
EDTC Gamma Ray Detector	EDTG – A/B			
Enhanced DTS Cartridge	EDTC – B	8188		
Auxiliary Equipment:				
EDTC Housing	EDTH – B	8187		

Enhanced DTS Cartridge Wellsite Calibration			
EDTC Accelerometer Calibration			
Phase	EDTC Z-Axis Acceleration F/S2		Value
Before			32.52
31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)	

Enhanced DTS Cartridge Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background GAPI		Value	Phase	Gamma Ray (Jig - Bkg) GAPI		Value	Phase	Gamma Ray (Calibrated) GAPI		Value
Before			47.32	Before			157.9	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		143.5 (Minimum)	157.9 (Nominal)	172.2 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 17-Oct-2007 17:52

Company: **CPC Minerals LLC**



Well: **CPC 17-1**

Field: **Wildcat**

County: **Bonneville**

State: **Idaho**

TRIPLE COMBO
Cement Volume Evaluation