Schlumberger

Company: **BP EXPLORATION (ALASKA), INC.**

FINAL

Well: **MT. ELBERT–01**
Field: **MILNE POINT UNIT**
Borough: **NORTH SLOPE** State: **ALASKA**

Borough: NORTH SLOPE
Field: MILNE POINT UNIT
Location: 1242' FNL & 4183' FEL
Well: MT. ELBERT–01
Company: BP EXPLORATION (ALASKA), INC.

OIL BASED MICRO IMAGER TOOL
OBMI RESISTIVITY LOG
14–FEB–2007

LOCATION

1242' FNL & 4183' FEL		Elev.:	K.B. 54.8 ft
AT SURFACE			G.L. 21.4 ft
			D.F. 54.8 ft
Permanent Datum:	MEAN SEA LEVEL	Elev.:	0 ft
Log Measured From:	KELLY BUSHING	54.8 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		

API Serial No.	Section	Township	Range
50–029–23302–00	30	13N	11E

Logging Date			14–Feb–2007								Logging Date
Run Number			TWO								Run Number
Depth Driller			3000 ft								Depth Driller
Schlumberger Depth			2996 ft								Schlumberger Depth
Bottom Log Interval			2996 ft								Bottom Log Interval
Top Log Interval			1964 ft								Top Log Interval
Casing Driller Size @ Depth			9.625 in	@	1954 ft		@				Casing Driller Size @ Depth
Casing Schlumberger			1952 ft								Casing Schlumberger
Bit Size			8.750 in								Bit Size
Type Fluid In Hole			OIL BASED MUD								Type Fluid In Hole
MUD	Density	Viscosity	9.4 lbm/gal	79 s					MUD	Density	Viscosity
	Fluid Loss	PH								Fluid Loss	PH
	Source Of Sample		NA							Source Of Sample	
RM @ Measured Temperature				@			@			RM @ Measured Temperature	
RMF @ Measured Temperature				@			@			RMF @ Measured Temperature	
RMC @ Measured Temperature				@			@			RMC @ Measured Temperature	
Source RMF	RMC		NA	NA					Source RMF	RMC	
RM @ MRT	RMF @ MRT		@ 38	@ 38		@	@		RM @ MRT	RMF @ MRT	
Maximum Recorded Temperatures			38 degF						Maximum Recorded Temperatures		
Circulation Stopped	Time		13–Feb–2007	15:30					Circulation Stopped	Time	
Logger On Bottom	Time		15–Feb–2007	1:30					Logger On Bottom	Time	
Unit Number	Location		2266	PRUDHOE BAY					Unit Number	Location	
Recorded By			B.PHILPOTT						Recorded By		
Witnessed By			TIM COLLET						Witnessed By		

DEPTH SUMMARY LISTING

Date Created: 15–FEB–2007 17:17:07

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW–JA	Type:	CMTD–B/A	Type:	7–46P–XS
Serial Number:	2656	Serial Number:	2699	Serial Number:	3001
Calibration Date:	13–JAN–2007	Calibration Date:	12–JAN–2007	Length:	14200.00 FT
Calibrator Serial Number:	18	Calibrator Serial Number:	265	Conveyance Method:	Wireline
Calibration Cable Type:	7–46P–XS	Calibration Gain:	0.92	Rig Type:	LAND
Wheel Correction 1:	–6	Calibration Offset:	539.00		
Wheel Correction 2:	–2				

Depth Control Parameters

Log Sequence: First Log In the Well

Rig Up Length At Surface:
Rig Up Length At Bottom:
Rig Up Length Correction:
Stretch Correction:
Tool Zero Check At Surface:

Depth Control Remarks

1. PRIMARY DEPTH CONTROL USED
2.
3.
4.
5.
6.

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		OTHER SERVICES2
OS1:	RT SCANNER, TLD,	OS1:
OS2:	HGNS, EPT, DSI, PPC	OS2:
OS3:	CMR, HNGS, ECS	OS3:
OS4:	MDT	OS4:
OS5:		OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2

RT SANNER RAN IN COMPUTE OBM STANDOFF, WITH TWO 1.5" STANDOFFS.
RT SCANNER LOGGED IN 3_BholeCorr_BasicLogs_RadialProcessing Mode.
TRIPLE LITHODENSITY TOOL LOGGED IN VERY HIGH RESOLUTION.
COMPENSATED NEUTRON TOOL, ELECTROMAGNETIC PROPAGTION TOOL, ELEMENTAL CAPTURE SPECTROSCOPY SONDE,
AND COMBINABLE MAGNETIC RESONANCE TOOL RAN WITH 180 DEG BOWSPRINGS FOR ECCENTRALIZATION.
DIPOLE SONIC TOOL LOGGED IN ANISOTROPY, P & S , UPPER DIPOLE AND LOWER DIPOLE MODES.
RAN WITH 2 POWERED POSITIONING CALIPERS FOR CENTRALIZATION
COMBINABLE MAGNETIC RESONANCE TOOL LOGGING MODE: OIL BASED MUD DEPTH LOG– B MODE
ECHO SPACING: 200 US, NUMBER OF ECHOES: 600, T2 CUTOFF: 33 MSEC
MODULAR DYNAMIC TESTER RAN WITH TWO PACKERS, SIX 450 CC'S SAMPLE CHAMBERS, ONE GL SAMPLE CHAMBER AND
ONE 1 GL CHAMBER WITH TANNER GAS TO PREVENT FLOW LINE FREEZING.
MDT SAMPLES WERE TAKEN AT 2012', 2025', 2036', 2047', 2151' AND 2061'. UNABLE TO RETRIEVE SAMPLES AT
2032', AND 2039' DUE TO LOST SEALS.
MDT TOTAL PUMPED OUT TIME: 865 MINS.
AFE# GS 2420H33
RIG: DOYON 14
CREW: J.CAPEN, D.COLE, D.WEATHERS, T.RAUBINGER

RUN 1			RUN 2		
SERVICE ORDER #:		11638614	SERVICE ORDER #:		
PROGRAM VERSION:		14C0–302	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

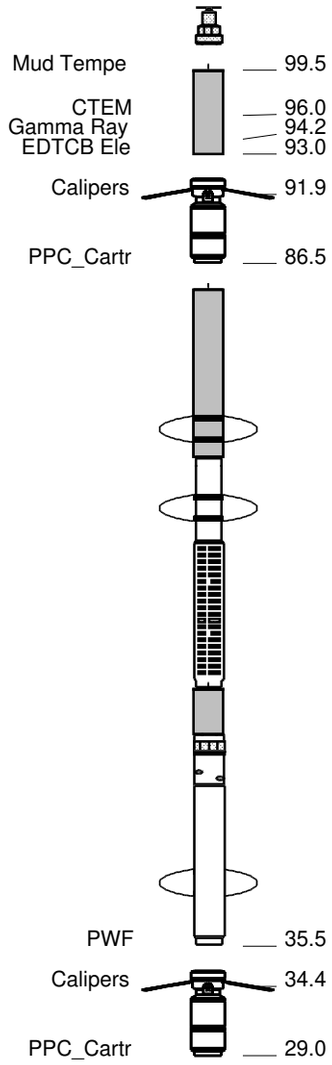
EQUIPMENT DESCRIPTION

RUN 1 | RUN 2

SURFACE EQUIPMENT

WITM (EDTS)–A

DOWNHOLE EQUIPMENT



LEH–QT 102.4
LEH–QT

EDTC–B 99.5
EDTH–B
EDTC–B 8231

PPC1–B 93.0
PPC1–B 8229
PPC_CAL_STD

DSST–B 86.5
SPAC–B 8111
ECH–SD
SMDR–BD 8114
SSIJ–BA 8160
SMDX–AA 8113

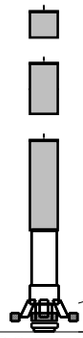
PPC2–B 35.5
PPC2–B 8228
PPC_CAL_STD

AH–SFT 29.0
AH–SFT

AH−184 21.0

GPIT−C 19.0
GPIC−C 872
GPIH−B

OBMT−F 15.0
OBMH−A
OBMC−A 823
OBMS−F 766



OBMIR
OBMIS OBMIC
HV DF ACCZ
Tension GPIT

2.3

0.0

TOOL ZERO

MAXIMUM STRING DIAMETER 5.38 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

	(in) OD	(in) ID	(ft) MD	MT ELBERT	(ft) MD	(in) OD	(in) ID	
					0.0	9.625		Casing String
					1954.0	9.625		Casing Shoe
					1954.0	8.750		Borehole Segment

Schlumberger

MAIN PASS

MAXIS Field Log

Company: BP Alaska Drilling and Wells | **Well: MT ELBERT**

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_050LUP	FN:64	PRODUCER	15–Feb–2007 01:26	2997.5 FT	1910.2 FT

Output DLIS Files

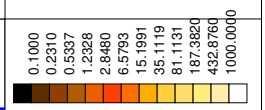
DEFAULT	OBMI_CAL_DSI_081PUP	FN:92	PRODUCER	15–Feb–2007 16:32	2997.5 FT	1912.0 FT

OP System Version: 14C0–302

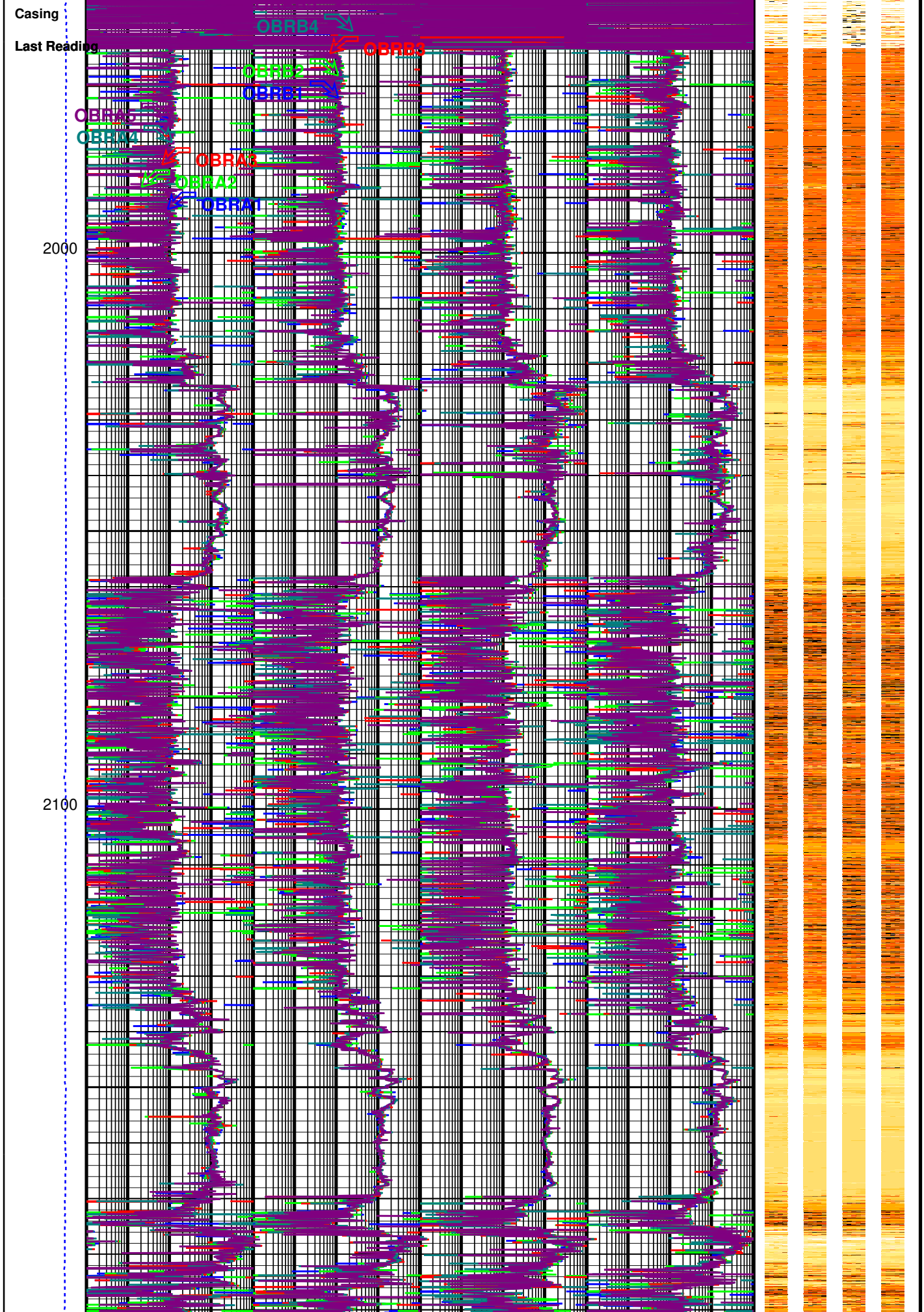
MCM

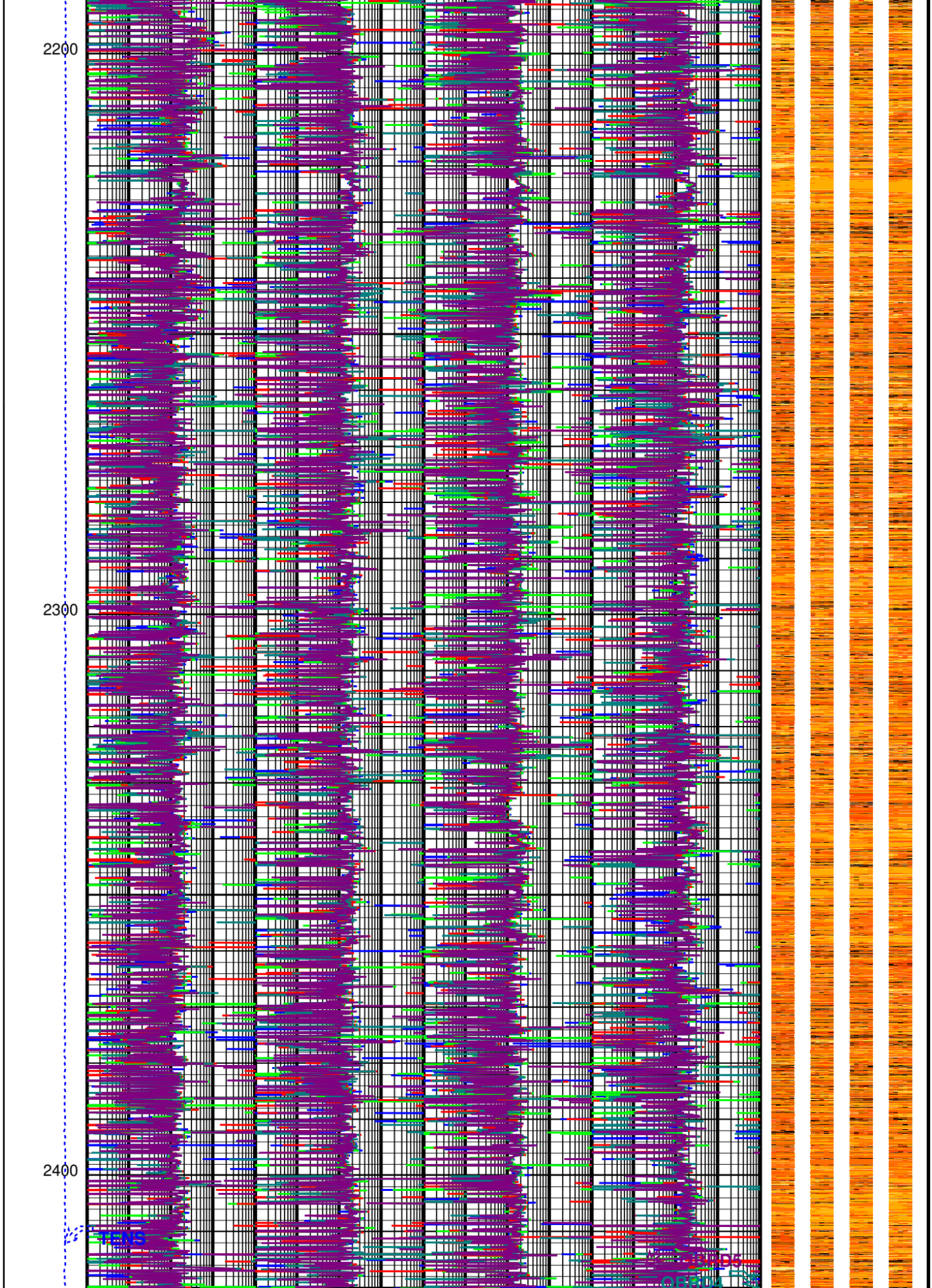
OBMT–F	SRPC–3243–Q4_2006	GPIT–C	SRPC–3243–Q4_2006
PPC2–B	SKK–3213–PPCB	DSST–B	SRPC–3243–Q4_2006
PPC1–B	SKK–3213–PPCB	EDTC–B	SKK–3248–EDTCB

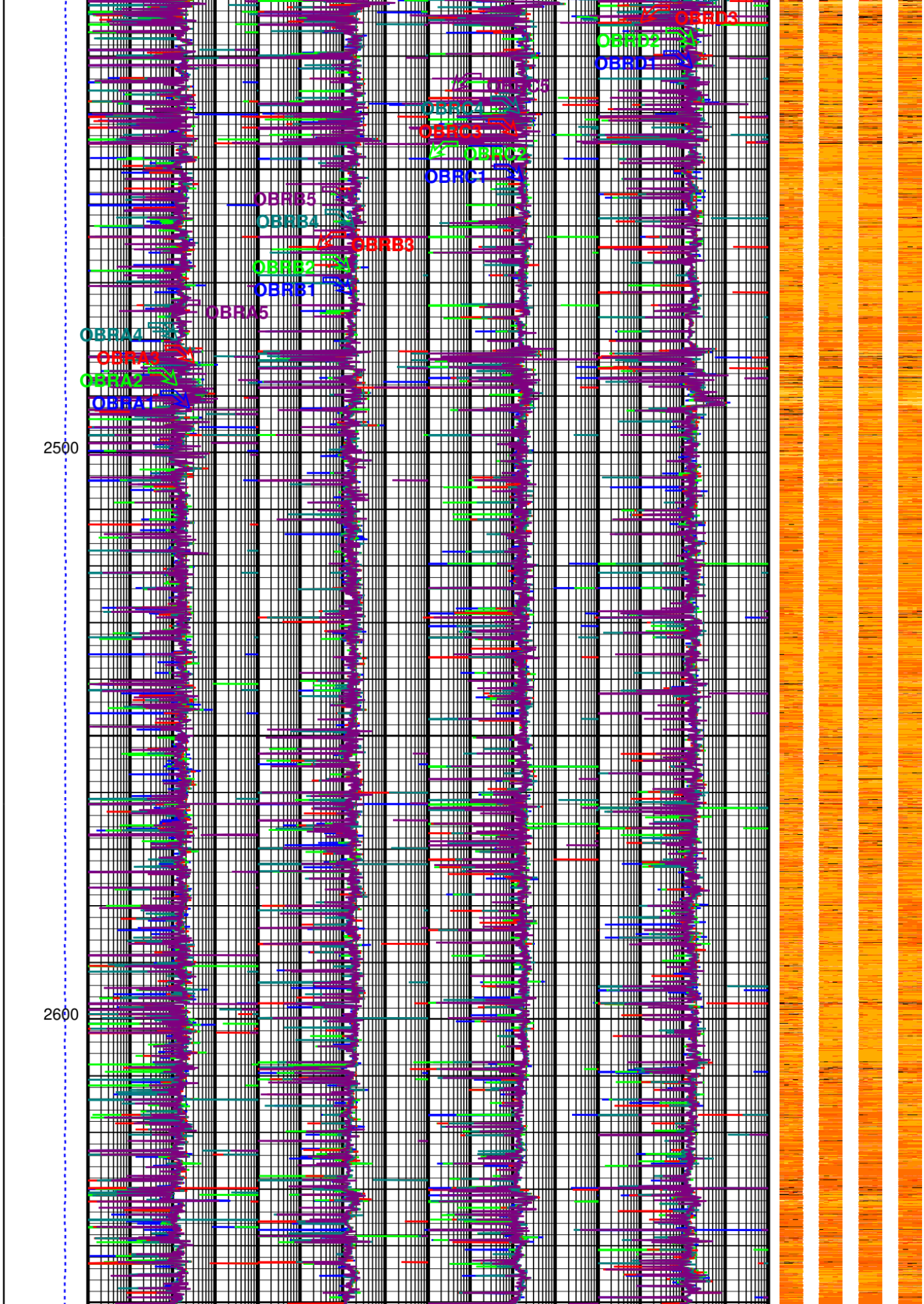
	Button #5 Pad A (OBRA5) 0.1 (OHMM) 1000	Button #5 Pad B (OBRB5) 0.1 (OHMM) 1000	Button #5 Pad C (OBRC5) 0.1 (OHMM) 1000	Button #5 Pad D (OBRD5) 0.1 (OHMM) 1000
	Button #4 Pad A (OBRA4) 0.1 (OHMM) 1000	Button #4 Pad B (OBRB4) 0.1 (OHMM) 1000	Button #4 Pad C (OBRC4) 0.1 (OHMM) 1000	Button #4 Pad D (OBRD4) 0.1 (OHMM) 1000
	Button #3 Pad A (OBRA3) 0.1 (OHMM) 1000	Button #3 Pad B (OBRB3) 0.1 (OHMM) 1000	Button #3 Pad C (OBRC3) 0.1 (OHMM) 1000	Button #3 Pad D (OBRD3) 0.1 (OHMM) 1000
	Button #2 Pad A (OBRA2) 0.1 (OHMM) 1000	Button #2 Pad B (OBRB2) 0.1 (OHMM) 1000	Button #2 Pad C (OBRC2) 0.1 (OHMM) 1000	Button #2 Pad D (OBRD2) 0.1 (OHMM) 1000
Tension (TENS) (LBF) 10000 0	Button #1 Pad A (OBRA1) 0.1 (OHMM) 1000	Button #1 Pad B (OBRB1) 0.1 (OHMM) 1000	Button #1 Pad C (OBRC1) 0.1 (OHMM) 1000	Button #1 Pad D (OBRD1) 0.1 (OHMM) 1000

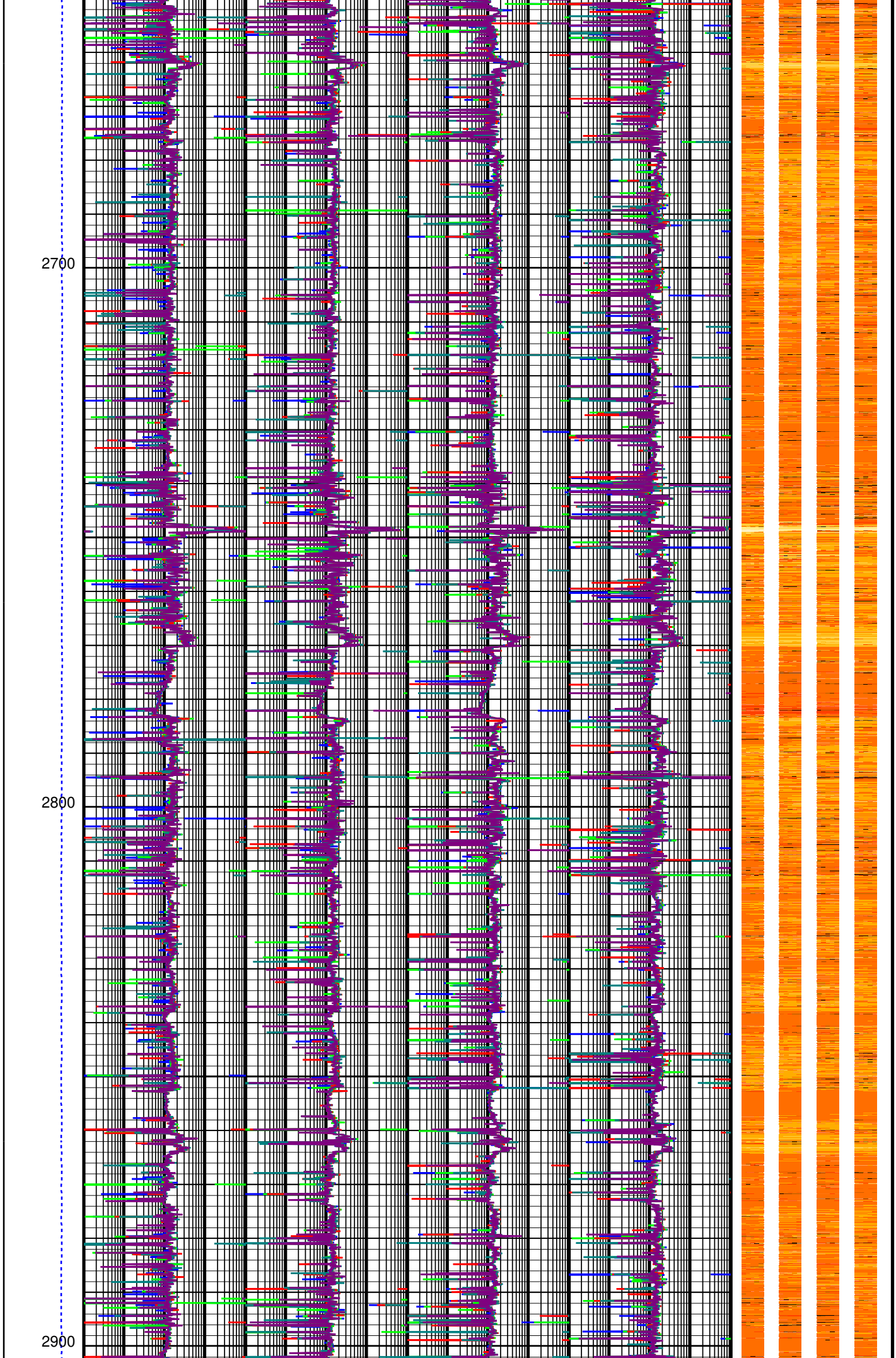


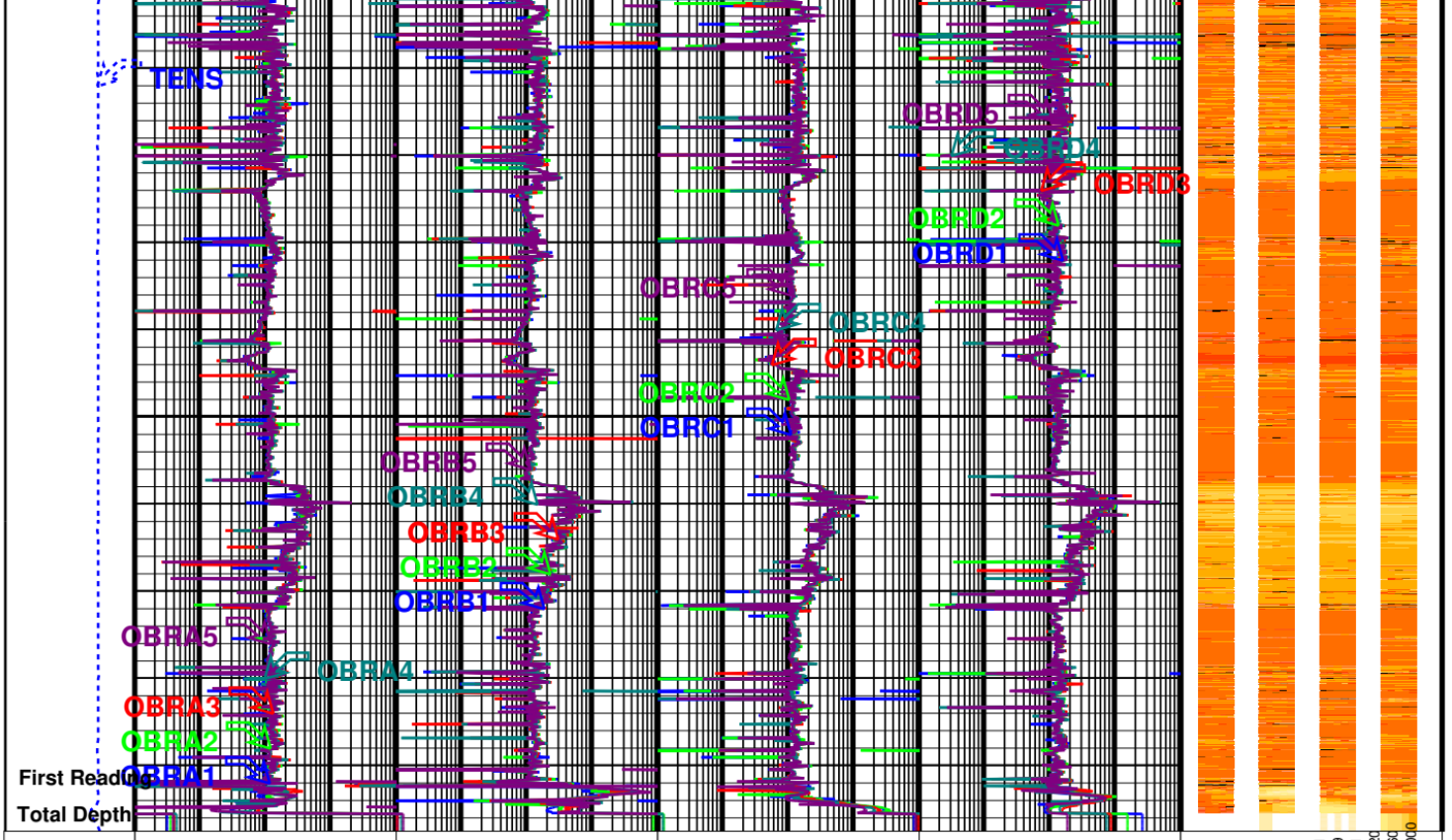
Resistivity Image (OBRA) (----)


Casing
Last Reading
OBRB4
OBRB5
OBRB2
OBRB1
OBRA5
OBRA4
OBRA3
OBRA2
OBRA1
2000
2100

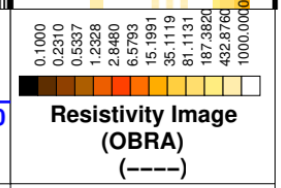

2200
2300
2400
TENS


OBRD3
OBRD2
OBRD1
OBRC5
OBRC4
OBRC3
OBRC2
OBRC1
OBRB5
OBRB4
OBRB3
OBRB2
OBRB1
OBRA5
OBRA4
OBRA3
OBRA2
OBRA1
2500
2600


2700
2800
2900



Tension (TENS) (LBF) 10000 0	Button #1 Pad A (OBRA1) 0.1 (OHMM) 1000	Button #1 Pad B (OBRB1) 0.1 (OHMM) 1000	Button #1 Pad C (OBRC1) 0.1 (OHMM) 1000	Button #1 Pad D (OBRD1) 0.1 (OHMM) 1000
	Button #2 Pad A (OBRA2) 0.1 (OHMM) 1000	Button #2 Pad B (OBRB2) 0.1 (OHMM) 1000	Button #2 Pad C (OBRC2) 0.1 (OHMM) 1000	Button #2 Pad D (OBRD2) 0.1 (OHMM) 1000
	Button #3 Pad A (OBRA3) 0.1 (OHMM) 1000	Button #3 Pad B (OBRB3) 0.1 (OHMM) 1000	Button #3 Pad C (OBRC3) 0.1 (OHMM) 1000	Button #3 Pad D (OBRD3) 0.1 (OHMM) 1000
	Button #4 Pad A (OBRA4) 0.1 (OHMM) 1000	Button #4 Pad B (OBRB4) 0.1 (OHMM) 1000	Button #4 Pad C (OBRC4) 0.1 (OHMM) 1000	Button #4 Pad D (OBRD4) 0.1 (OHMM) 1000
	Button #5 Pad A (OBRA5) 0.1 (OHMM) 1000	Button #5 Pad B (OBRB5) 0.1 (OHMM) 1000	Button #5 Pad C (OBRC5) 0.1 (OHMM) 1000	Button #5 Pad D (OBRD5) 0.1 (OHMM) 1000



OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB_RESISTIVITY_LQC Vertical Scale: 5" per 100' Graphics File Created: 15-Feb-2007 16:32

OP System Version: 14C0-302

MCM

OBMT-F	SRPC-3243-Q4_2006	GPIT-C	SRPC-3243-Q4_2006
PPC2-B	SKK-3213-PPCB	DSST-B	SRPC-3243-Q4_2006
PPC1-B	SKK-3213-PPCB	EDTC-B	SKK-3248-EDTCB

Parameters

DLIS Name	Description	Value

	OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F		
OBFR	OBMT Frame Rate	3600_FPH	
OBKF	OBMT K Factor	8	M
OBSM	Downhole Injection Switched Mode	ON	
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA	OBMT Pad A Leakage Impedance	1600	KOHM
OZLB	OBMT Pad B Leakage Impedance	1600	KOHM
OZLC	OBMT Pad C Leakage Impedance	1600	KOHM
OZLD	OBMT Pad D Leakage Impedance	1600	KOHM
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_050LUP	FN:64	PRODUCER	15-Feb-2007 01:26	2997.5 FT	1910.2 FT

Output DLIS Files

DEFAULT	OBMI_CAL_DSI_081PUP	FN:92	PRODUCER	15-Feb-2007 16:32

Schlumberger

REPEAT SECTION

MAXIS Field Log

Company: BP Alaska Drilling and Wells — Well: MT ELBERT

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_051LUP	FN:65	PRODUCER	15-Feb-2007 02:44	2999.0 FT	1907.5 FT

Output DLIS Files

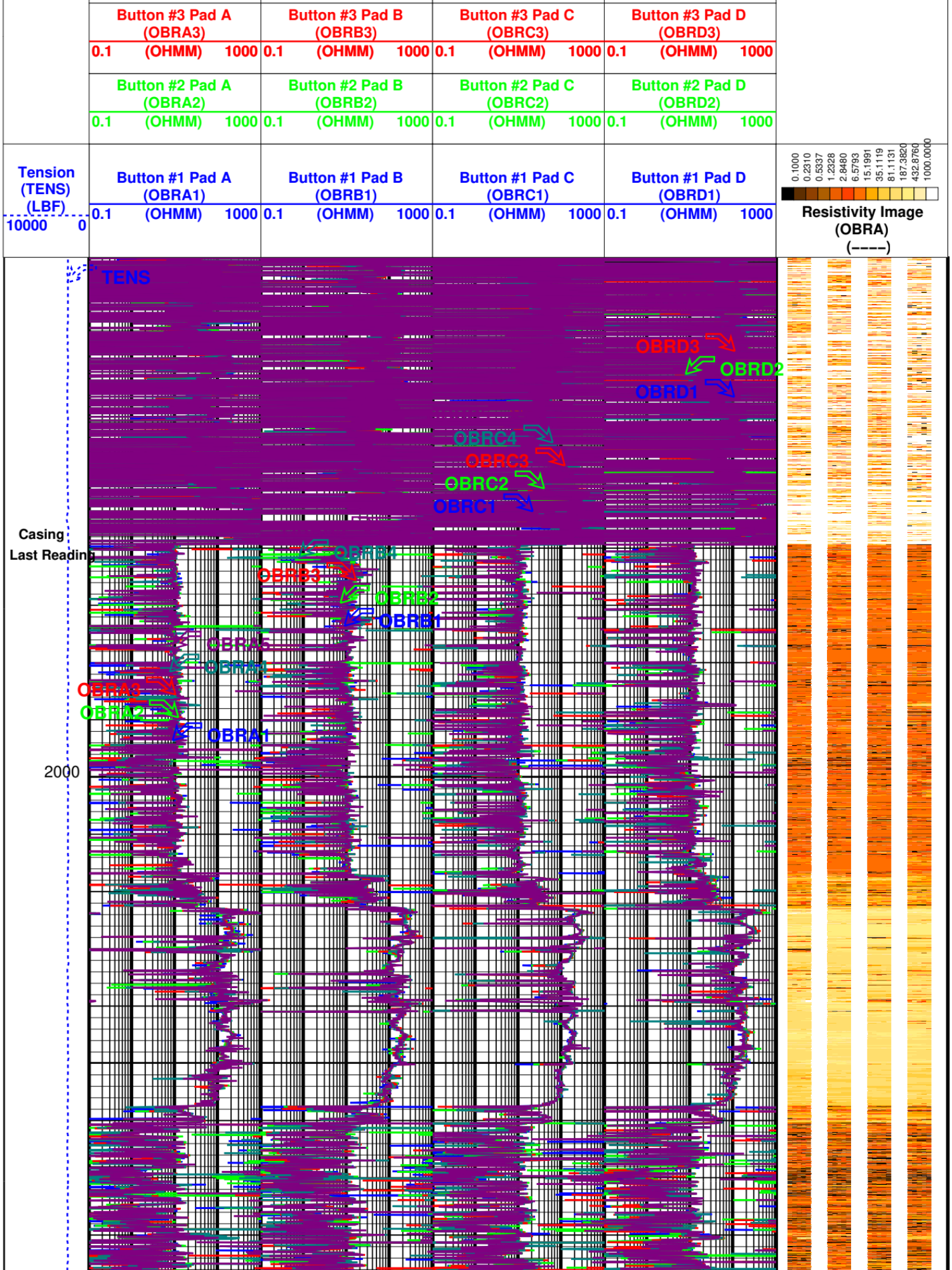
DEFAULT	OBMI_CAL_DSI_082PUP	FN:93	PRODUCER	15-Feb-2007 16:44	2999.0 FT	1909.0 FT

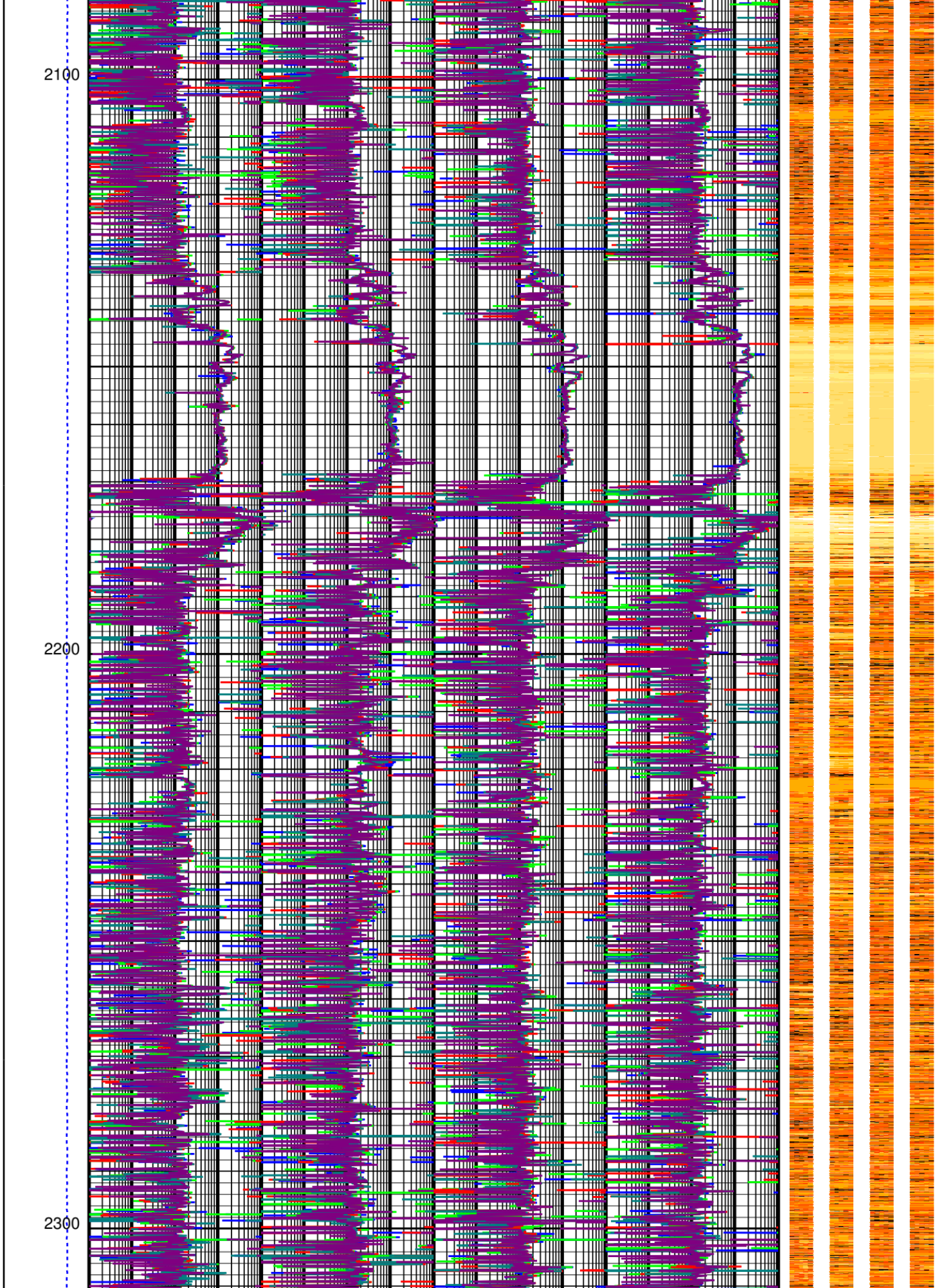
OP System Version: 14C0-302

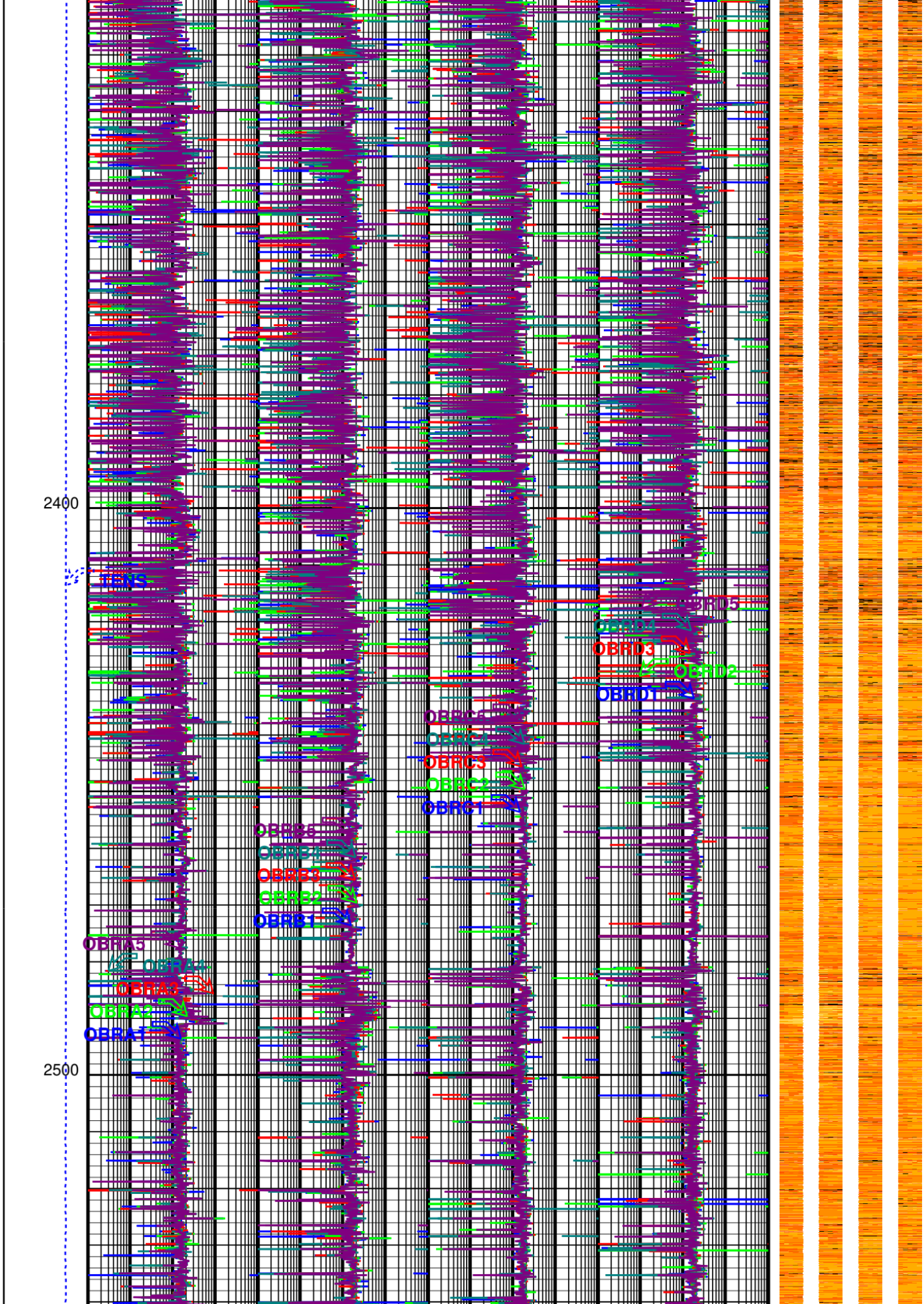
MCM

OBMT-F	SRPC-3243-Q4_2006	GPIT-C	SRPC-3243-Q4_2006
PPC2-B	SKK-3213-PPCB	DSST-B	SRPC-3243-Q4_2006
PPC1-B	SKK-3213-PPCB	EDTC-B	SKK-3248-EDTCB

Button #5 Pad A (OBRA5)	Button #5 Pad B (OBRB5)	Button #5 Pad C (OBRC5)	Button #5 Pad D (OBRD5)
0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000
Button #4 Pad A (OBRA4)	**Button #4 Pad B (OBRB4)**	**Button #4 Pad C (OBRC4)**	**Button #4 Pad D (OBRD4)**
0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000


Button #3 Pad A (OBRA3)
0.1 (OHMM) 1000
Button #3 Pad B (OBRB3)
0.1 (OHMM) 1000
Button #3 Pad C (OBRC3)
0.1 (OHMM) 1000
Button #3 Pad D (OBRD3)
0.1 (OHMM) 1000
Button #2 Pad A (OBRA2)
0.1 (OHMM) 1000
Button #2 Pad B (OBRB2)
0.1 (OHMM) 1000
Button #2 Pad C (OBRC2)
0.1 (OHMM) 1000
Button #2 Pad D (OBRD2)
0.1 (OHMM) 1000
Tension (TENS) (LBF)
10000 0
Button #1 Pad A (OBRA1)
0.1 (OHMM) 1000
Button #1 Pad B (OBRB1)
0.1 (OHMM) 1000
Button #1 Pad C (OBRC1)
0.1 (OHMM) 1000
Button #1 Pad D (OBRD1)
0.1 (OHMM) 1000
0.1000
0.2310
0.5337
1.2328
2.8480
6.5793
15.1991
35.1119
81.1131
187.3820
432.8760
1000.0000
Resistivity Image (OBRA) (-----)
TENS
OBRD3
OBRD2
OBRD1
OBRC4
OBRC3
OBRC2
OBRC1
Casing Last Reading
OBRB4
OBRB3
OBRB2
OBRB1
OBRA5
OBRA4
OBRA3
OBRA2
OBRA1
2000


2100
2200
2300


2400
2500
TENS
OBRD5
OBRD4
OBRD3
OBRD2
OBRD1
OBRC4
OBRC3
OBRC2
OBRC1
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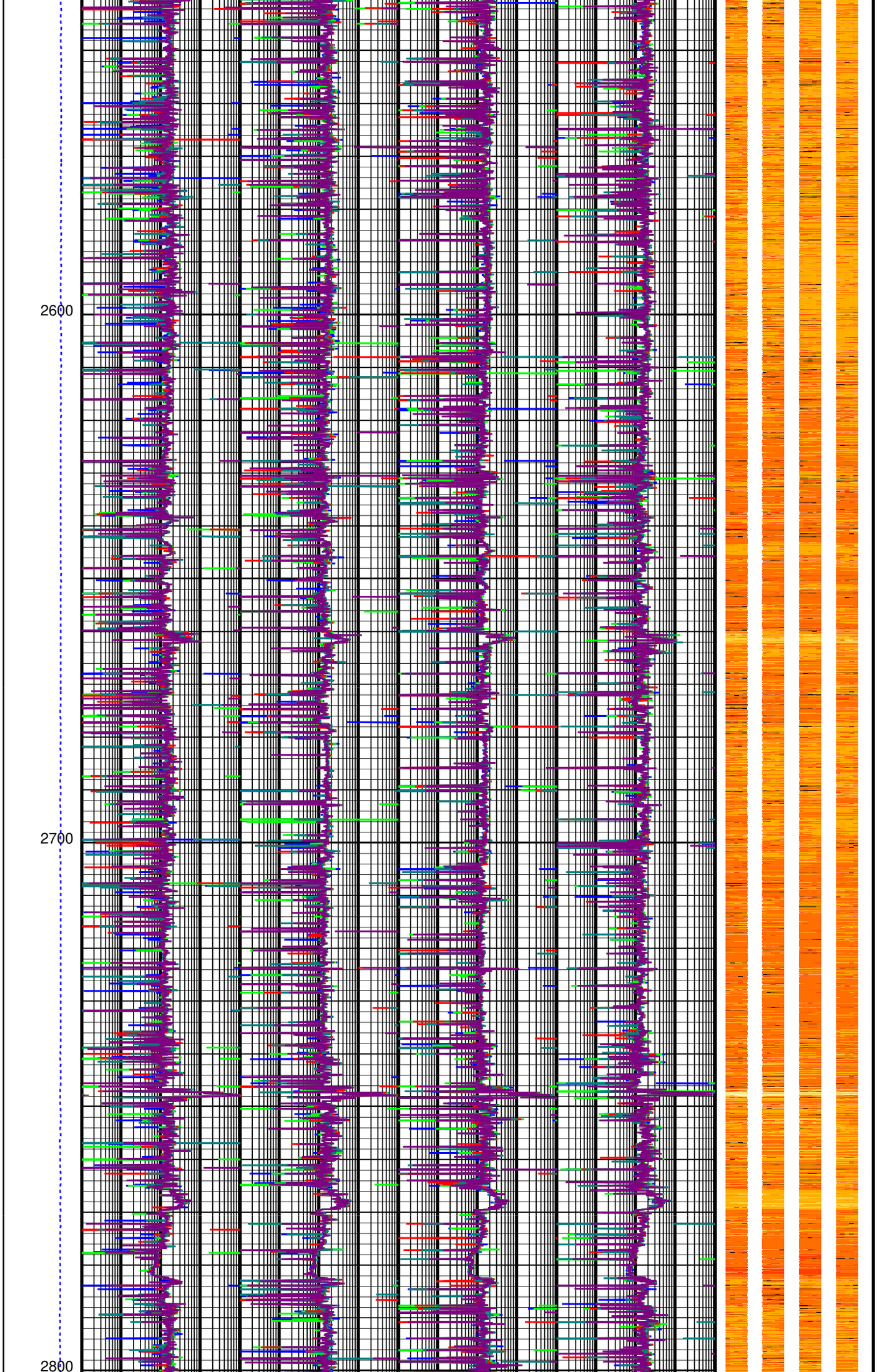
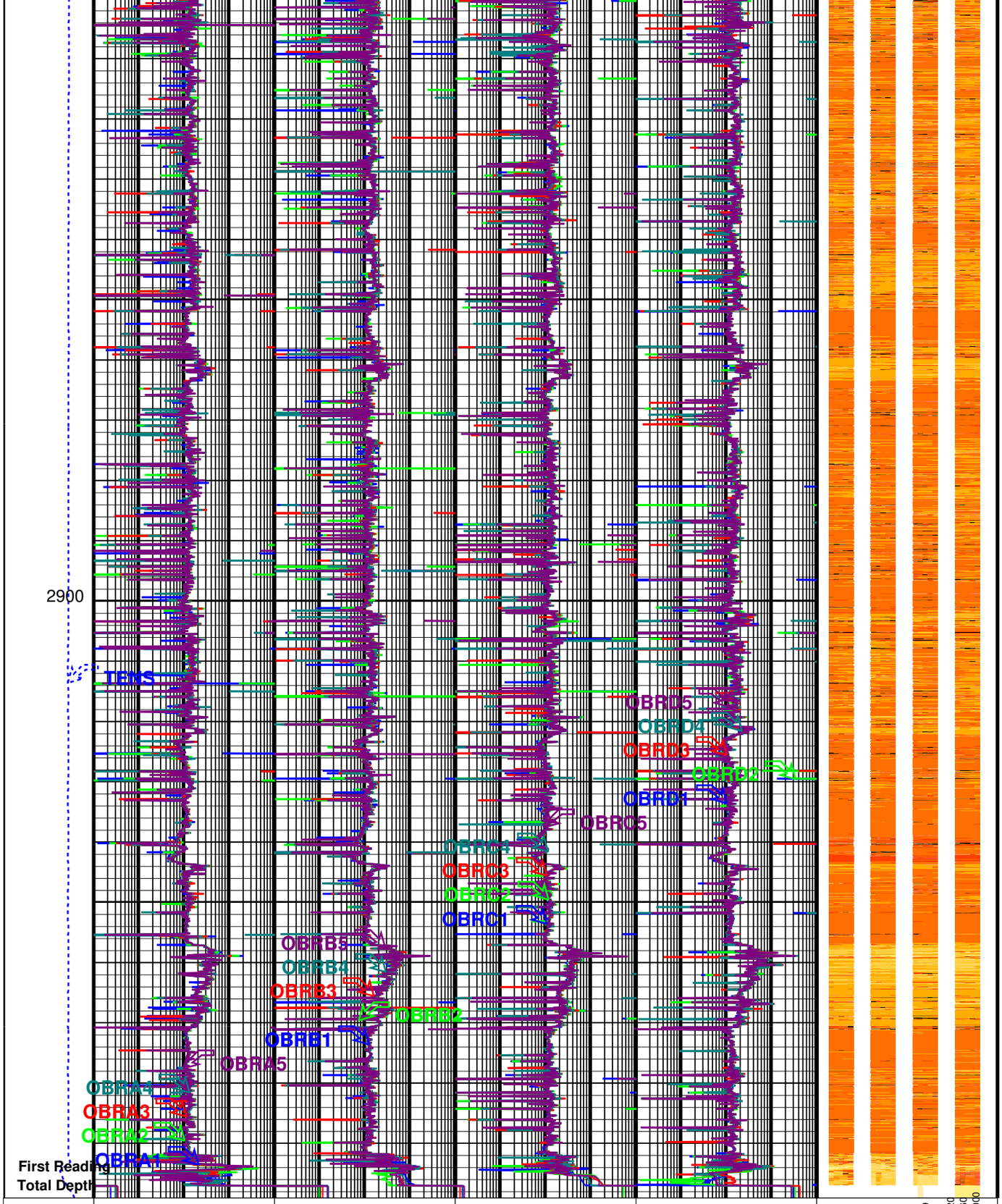
OBRA3
OBRA2
OBRA1


2600
2700
2800



Tension (TENS) (LBF)	Button #1 Pad A (OBRA1)	Button #1 Pad B (OBRB1)	Button #1 Pad C (OBRC1)	Button #1 Pad D (OBRD1)	Resistivity Image (OBRA) (----)
10000 0	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1000, 0.2310, 0.5337, 1.2328, 2.8480, 6.5793, 15.1991, 35.1119, 81.1131, 187.3820, 432.8760, 1000.0000
	Button #2 Pad A (OBRA2)	Button #2 Pad B (OBRB2)	Button #2 Pad C (OBRC2)	Button #2 Pad D (OBRD2)	
	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	
	Button #3 Pad A (OBRA3)	Button #3 Pad B (OBRB3)	Button #3 Pad C (OBRC3)	Button #3 Pad D (OBRD3)	
	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	
	Button #4 Pad A (OBRA4)	Button #4 Pad B (OBRB4)	Button #4 Pad C (OBRC4)	Button #4 Pad D (OBRD4)	
	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	
	Button #5 Pad A (OBRA5)	Button #5 Pad B (OBRB5)	Button #5 Pad C (OBRC5)	Button #5 Pad D (OBRD5)	
	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	0.1 (OHMM) 1000	

OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB_RESISTIVITY_LQC Vertical Scale: 5" per 100' Graphics File Created: 15-Feb-2007 16:44

OP System Version: 14C0-302

MCM

OBMT-F	SRPC-3243-Q4_2006	GPIT-C	SRPC-3243-Q4_2006
PPC2-B	SKK-3213-PPCB	DSST-B	SRPC-3243-Q4_2006
PPC1-B	SKK-3213-PPCB	EDTC-B	SKK-3248-EDTCB

Parameters

DLIS Name	Description	Value	
	OBMT-F: Slim Thru-wired Oil Base Mud Formation Imager Tool F		
OBFR	OBMT Frame Rate	3600_FPH	
OBKF	OBMT K Factor	8	M
OBSM	Downhole Injection Switched Mode	ON	
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
OZLA	OBMT Pad A Leakage Impedance	1600	KOHM
OZLB	OBMT Pad B Leakage Impedance	1600	KOHM
OZLC	OBMT Pad C Leakage Impedance	1600	KOHM
OZLD	OBMT Pad D Leakage Impedance	1600	KOHM
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along-hole depth of Tie-in Point	0	FT
TIVD	TVD of Tie-in Point	0	FT
	System and Miscellaneous		
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_051LUP	FN:65	PRODUCER	15-Feb-2007 02:44	2999.0 FT	1907.5 FT

Output DLIS Files

DEFAULT	OBMI_CAL_DSI_082PUP	FN:93	PRODUCER	15-Feb-2007 16:44

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MAIN PASS
LOG QUALITY CONTROL

MAXIS Field Log

Company: BP Alaska Drilling and Wells Well: MT ELBERT

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_050LUP	FN:64	PRODUCER	15-Feb-2007 01:26	2997.5 FT	1910.2 FT

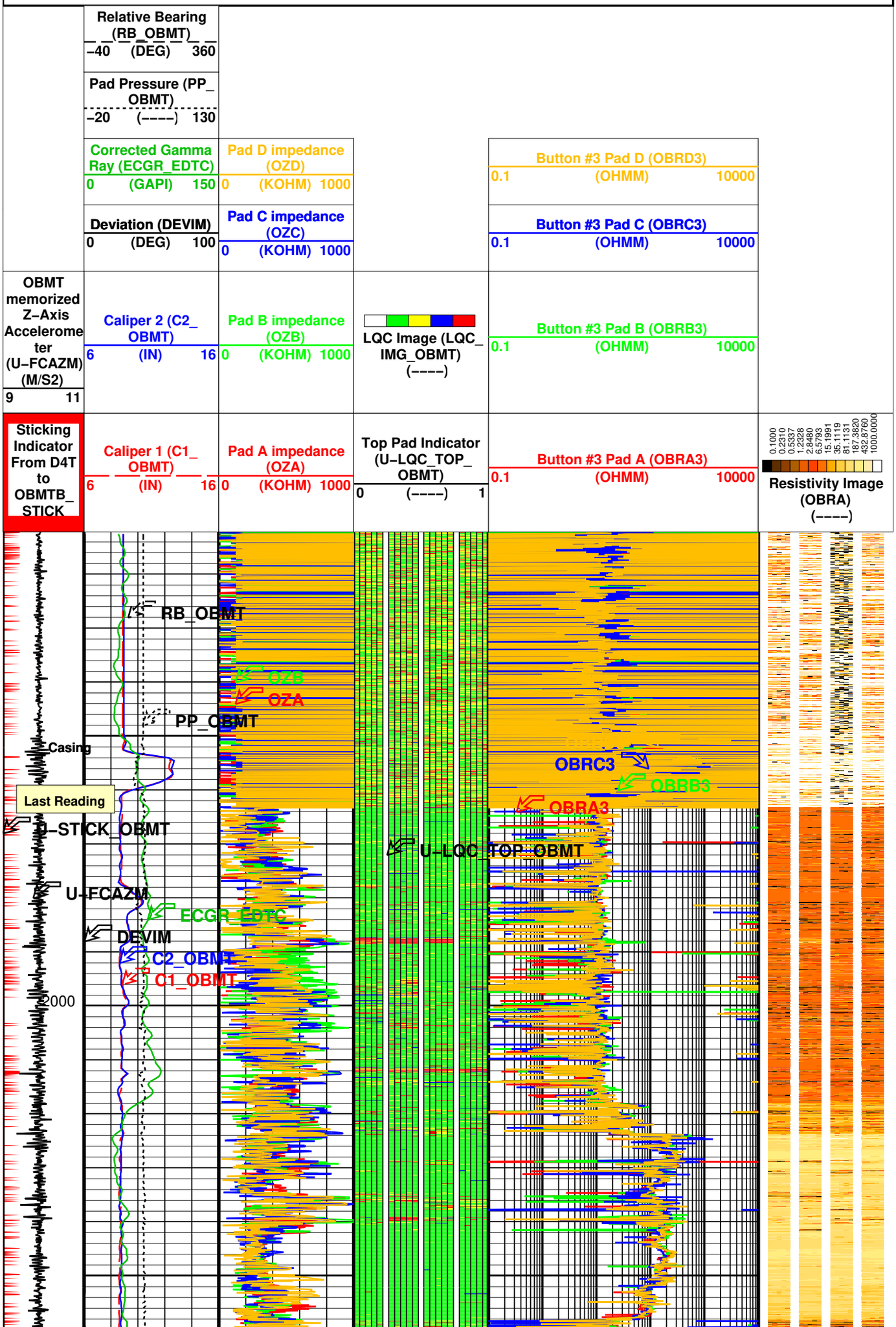
Output DLIS Files

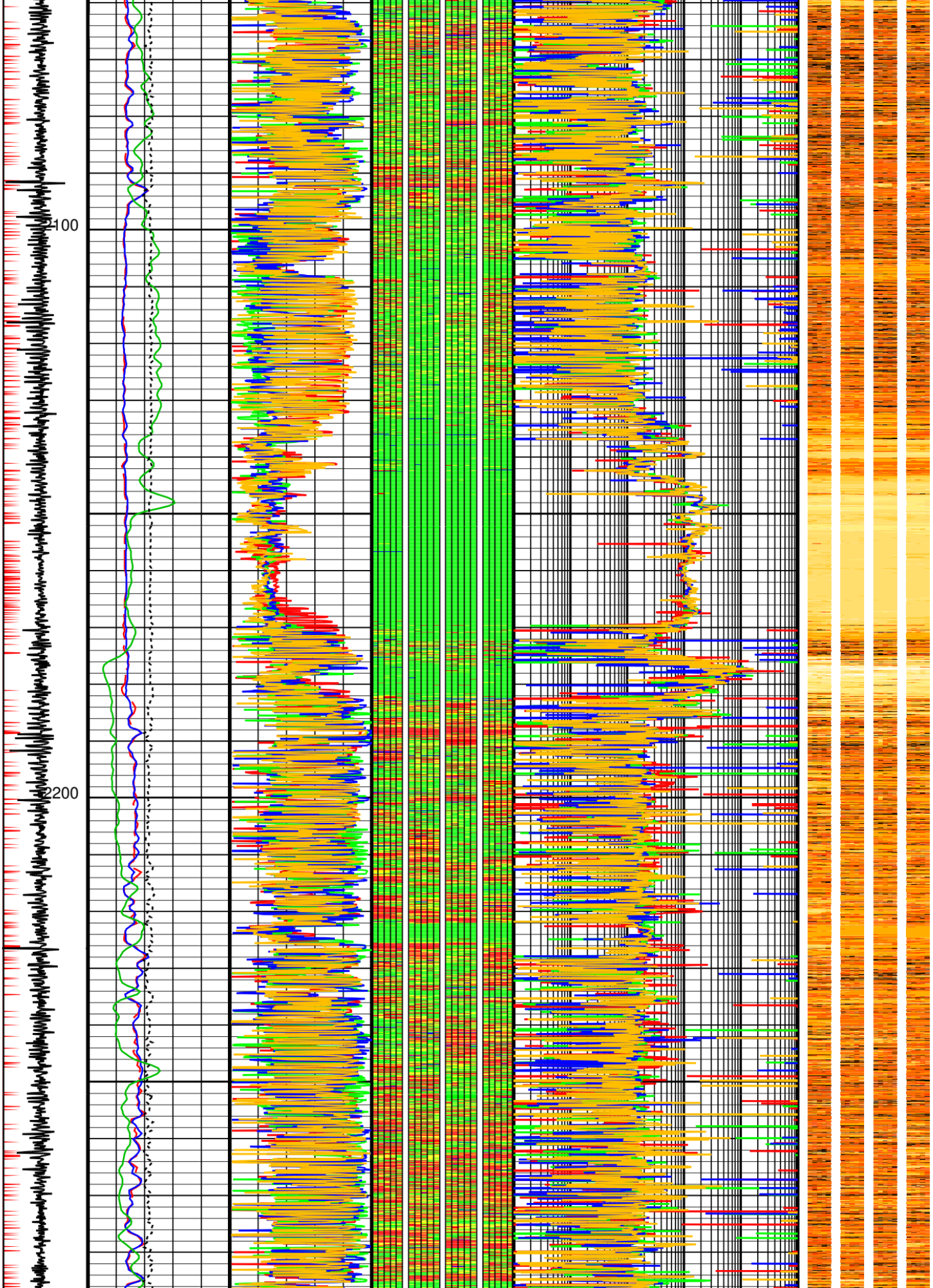
DEFAULT	OBMI_CAL_DSI_081PUP	FN:92	PRODUCER	15-Feb-2007 16:32	2997.5 FT	1912.0 FT

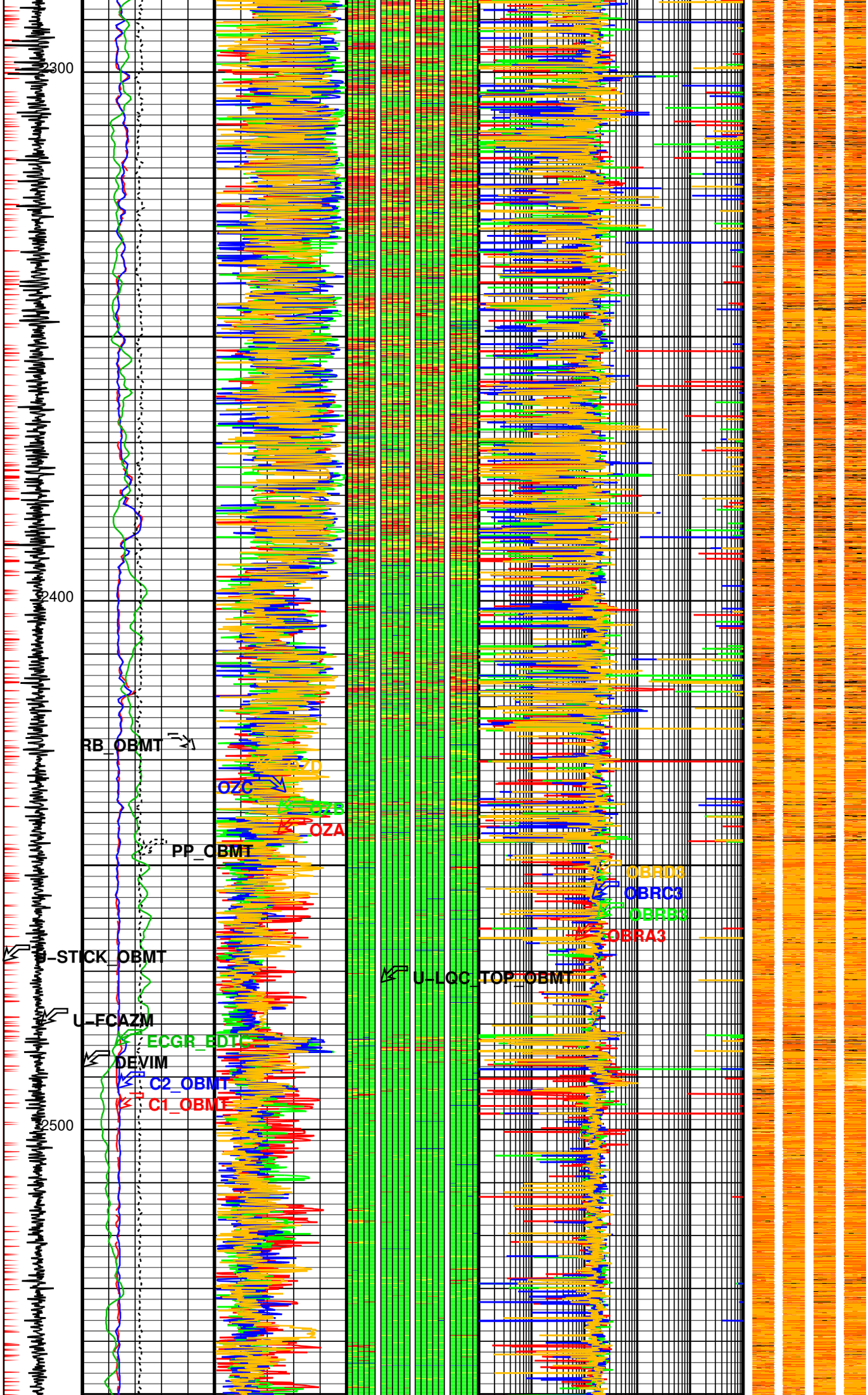
OP System Version: 14C0–302

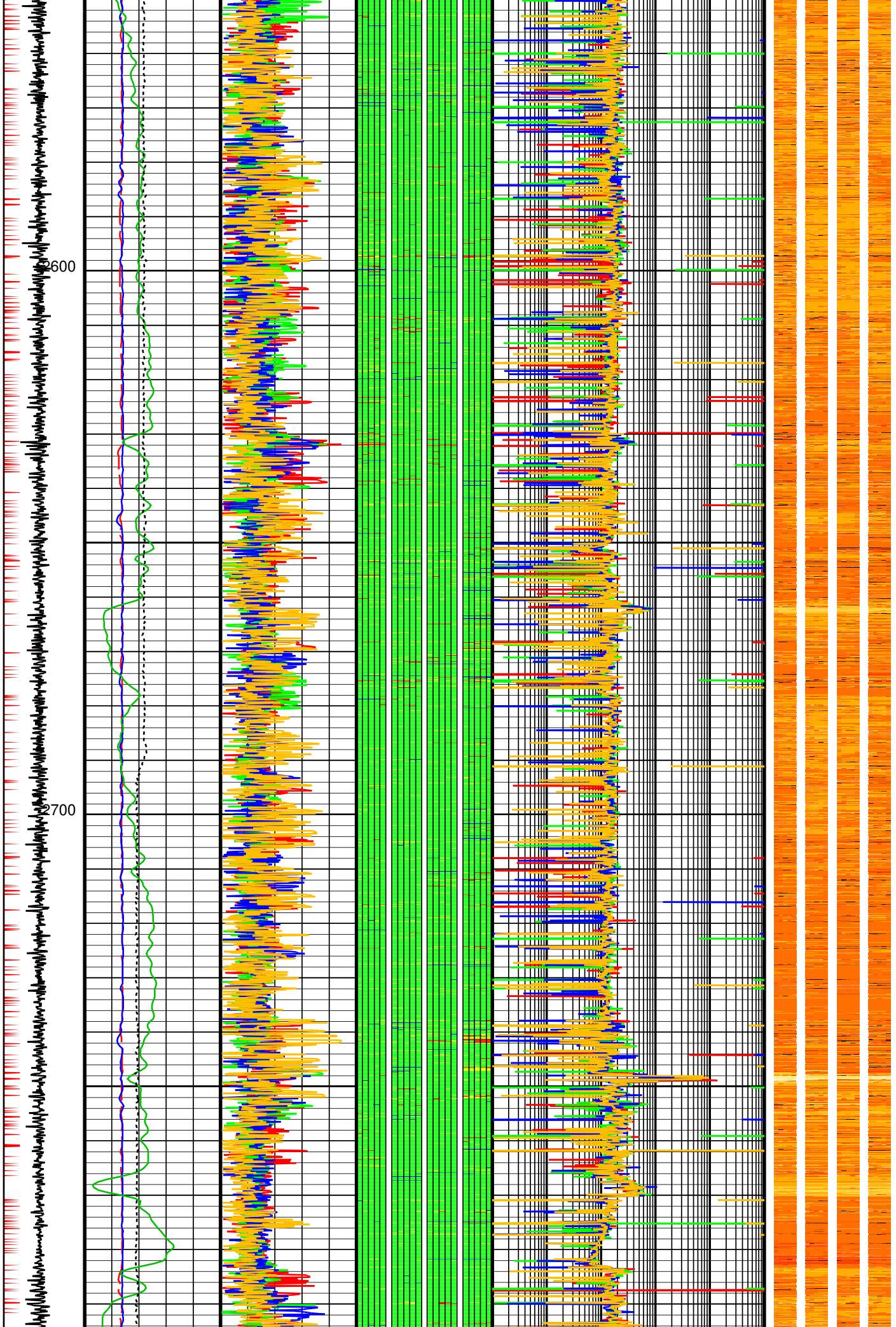
MCM

OBMT–F	SRPC–3243–Q4_2006	GPIT–C	SRPC–3243–Q4_2006
PPC2–B	SKK–3213–PPCB	DSST–B	SRPC–3243–Q4_2006
PPC1–B	SKK–3213–PPCB	EDTC–B	SKK–3248–EDTCB




2100
2200


2300
2400
2500
RB_OBMT
OZD
OZC
OZB
OZA
PP_OBMT
OBRD3
OBRC3
OBRBC
OBRA3
U-STICK_OBMT
U-LQC_TOP_OBMT
U-FCAZM
ECGR_BDTC
DEVIM
C2_OBMT
C1_OBMT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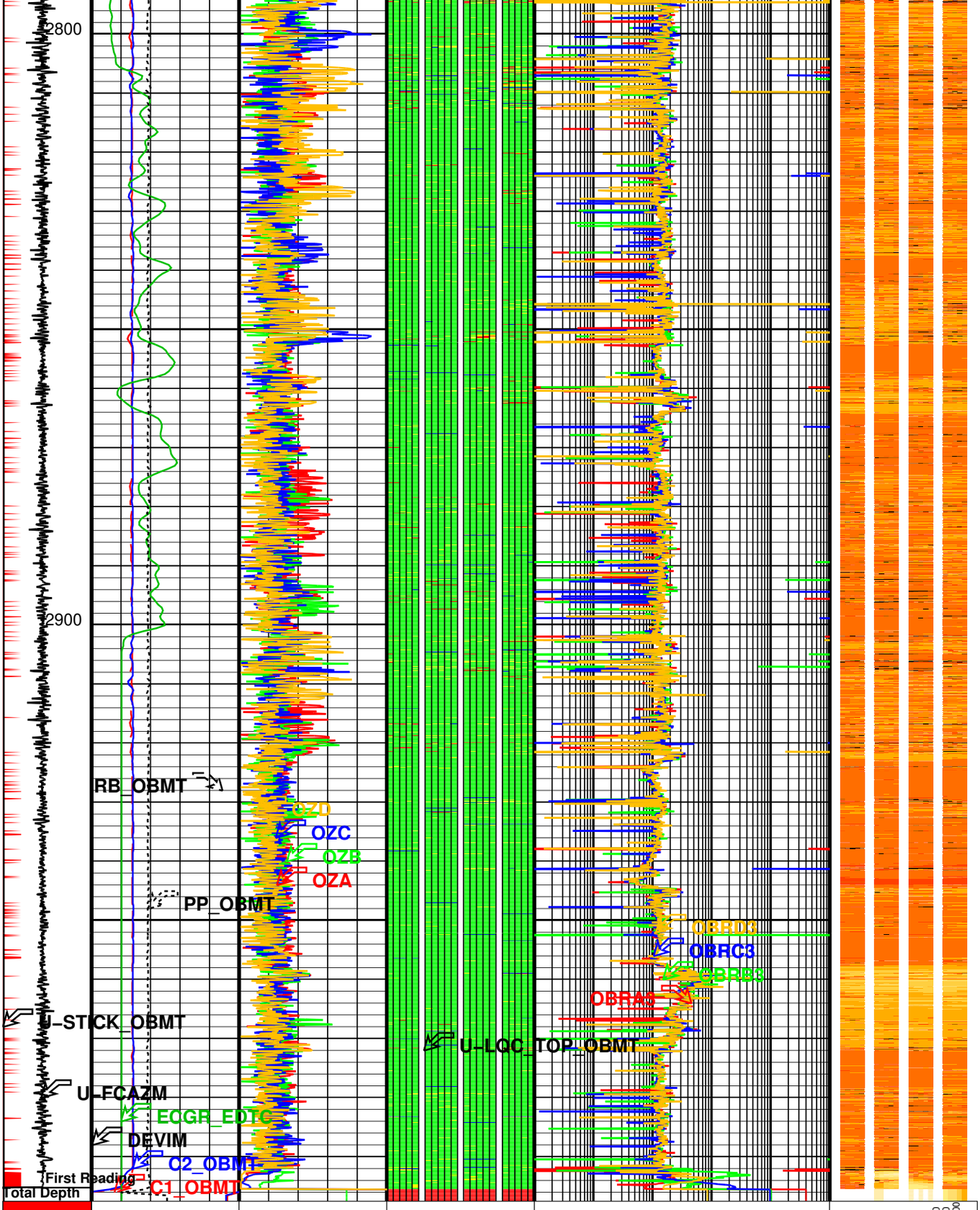
2700



Sticking Indicator From D4T to OBMTB_STICK	Caliper 1 (C1_OBMT) 6 (IN) 16	Pad A impedance (OZA) 0 (KOHM) 1000	Top Pad Indicator (U-LQC_TOP_OBMT) 0 (----) 1	Button #3 Pad A (OBRA3) 0.1 (OHMM) 10000	Resistivity Image (OBRA) (----) 0.1000 0.2310 0.5337 1.2328 2.8480 6.5793 15.1991 35.1119 81.1131 187.3820 432.8760 1000.0000
OBMT memorized Z-Axis Accelerometer (U-FCAZM) (M/S2) 9 11	Caliper 2 (C2_OBMT) 6 (IN) 16	Pad B impedance (OZB) 0 (KOHM) 1000	LQC Image (LQC_IMG_OBMT) (----)	Button #3 Pad B (OBRB3) 0.1 (OHMM) 10000	
	Deviation (DEVIM) 0 (DEG) 100	Pad C impedance (OZC) 0 (KOHM) 1000		Button #3 Pad C (OBRC3) 0.1 (OHMM) 10000	
	Corrected Gamma Ray (ECGR_EDTC) 0 (GAPI) 150	Pad D impedance (OZD) 0 (KOHM) 1000		Button #3 Pad D (OBRD3) 0.1 (OHMM) 10000	

Pad Pressure (PP_OBMT)
–20 (––––) 130

Relative Bearing (RB_OBMT)
–40 (DEG) 360

*** Flag Track ***

GREEN = OK YELLOW = POOR SIGNAL BLUE = SATURATION RED = LIFT_OFF

left to right:

Pad A buttons 1 to 5

Pad B buttons 1 to 5

Pad C buttons 1 to 5

Pad D buttons 1 to 5

OBMI Image.

Image with no processing applied

! Resistive (White) to Conductive (Black) !

Format: OBMTB_4PAD_LQC Vertical Scale: 5" per 100' Graphics File Created: 15–Feb–2007 16:32

OP System Version: 14C0–302

MCM

OBMT–F	SRPC–3243–Q4_2006	GPIT–C	SRPC–3243–Q4_2006
PPC2–B	SKK–3213–PPCB	DSST–B	SRPC–3243–Q4_2006
PPC1–B	SKK–3213–PPCB	EDTC–B	SKK–3248–EDTCB

Parameters

DLIS Name	Description	Value	
	OBMT–F: Slim Thru–wired Oil Base Mud Formation Imager Tool F		
OBFR	OBMT Frame Rate	3600_FPH	
OBKF	OBMT K Factor	8	M
OBSM	Downhole Injection Switched Mode	ON	
ODCLA	OBMT Downhole Algorithm	MAX2_AUTO	
OIAE	Pad A Enable	YES	
OIBE	Pad B Enable	YES	
OICE	Pad C Enable	YES	
OICLM	Injection Control Loop Mode	DOWNHOLE_AUTO	
OICM	OBMT Injection Computation Mode	AVERAGE	
OIDE	Pad D Enable	YES	
OIMAX	Injection Maximum Voltage	334	V
OIVA	Injection Amplitude PAD A (Manual Selection)	0	V
OIVB	Injection Amplitude PAD B (Manual Selection)	0	V
OIVC	Injection Amplitude PAD C (Manual Selection)	0	V
OIVD	Injection Amplitude PAD D (Manual Selection)	0	V
OPGA	Electronic Gain PAD A (Manual Selection)	0_dB	
OPGB	Electronic Gain PAD B (Manual Selection)	0_dB	
OPGC	Electronic Gain PAD C (Manual Selection)	0_dB	
OPGD	Electronic Gain PAD D (Manual Selection)	0_dB	
OPOC	OBMT Phase Offset Correction	–8	DEG
OZLA	OBMT Pad A Leakage Impedance	1600	KOHM
OZLB	OBMT Pad B Leakage Impedance	1600	KOHM
OZLC	OBMT Pad C Leakage Impedance	1600	KOHM
OZLD	OBMT Pad D Leakage Impedance	1600	KOHM
SOFF	OBMT Standoff Fin Size	0	IN
	DSST–B: Dipole Shear Imager – B		
BHS	Borehole Status	OPEN	
	EDTC–B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	FT
TIMD	Along–hole depth of Tie–in Point	0	FT
TIVD	TVD of Tie–in Point	0	FT
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
	System and Miscellaneous		
BS	Bit Size	8.750	IN
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	40.00	LB/F
DFD	Drilling Fluid Density	9.40	LB/G
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	RECOMPUTE	

Input DLIS Files

DEFAULT	OBMI_CAL_DSI_050LUP	FN:64	PRODUCER	15–Feb–2007 01:26	2997.5 FT	1910.2 FT

Output DLIS Files

DEFAULT	OBMI_CAL_DSI_081PUP	FN:92	PRODUCER	15–Feb–2007 16:32

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CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Slim Thru−wired Oil Base Mud Formation Imager Tool F Wellsite Calibration − Caliper Calibration							
Before: 8−Feb−2007 22:23							
Caliper 1 Small Jig	8.000	N/A	7.611	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	7.583	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	12.38	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	12.24	N/A	N/A	N/A	IN
General Purpose Inclinometer Wellsite Calibration − CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 14−Feb−2007 23:44							
TEMPERATURE REFERENCE :	N/A	N/A	68	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	4	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	5	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	877	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration − CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 14−Feb−2007 23:44							
TEMPERATURE REFERENCE :	N/A	N/A	66	N/A	N/A	N/A	DEGF
YEAR OF CALIBRATION :	N/A	N/A	2	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	487	N/A	N/A	N/A	
Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration							
Before: 8−Feb−2007 22:34							
Gamma Ray (Jig − Bkg)	151.8	N/A	151.8	N/A	N/A	13.80	GAPI
Gamma Ray (Calibrated)	153.5	N/A	153.5	N/A	N/A	15.00	GAPI
Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration							
Before: Calibration not done							
EDTC Z−Axis Acceleration	32.19	N/A	32.17	N/A	N/A	N/A	F/S2

Slim Thru−wired Oil Base Mud Formation Imager Tool F / Equipment Identification

Primary Equipment:

Slim Thru−wired Oil Base Mud Formation I	OBMS − F
Oil Base Mud Formation Imager Cartridge	OBMC − A

Auxiliary Equipment:

Oil Base Mud Formation Imager Housing	OBMH − A

Slim Thru−wired Oil Base Mud Formation Imager Tool F Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before	6.800 (Minimum) / 8.000 (Nominal) / 9.200 (Maximum)	7.611	Before	6.800 (Minimum) / 8.000 (Nominal) / 9.200 (Maximum)	7.583
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before	10.20 (Minimum) / 12.00 (Nominal) / 13.80 (Maximum)	12.38	Before	10.20 (Minimum) / 12.00 (Nominal) / 13.80 (Maximum)	12.24

Before: 8−Feb−2007 22:23

General Purpose Inclinometer / Equipment Identification

Primary Equipment:

GPIT Cartridge − C	GPIC − C

Auxiliary Equipment:

GPIT Housing	GPIH − B

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:	
Enhanced DTS Cartridge	EDTC – B
Auxiliary Equipment:	
EDTC Housing	EDTH – B

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		16.05	Before		151.8	Before		153.5
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	138.0 (Minimum)	151.8 (Nominal)	165.6 (Maximum)	138.5 (Minimum)	153.5 (Nominal)	168.5 (Maximum)

Before: 8–Feb–2007 22:34

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z–Axis Acceleration F/S2	Value
Before		32.17
31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)

Before: Calibration not done

Company: **BP EXPLORATION (ALASKA), INC.**

Schlumberger

Well: **MT. ELBERT–01**
Field: **MILNE POINT UNIT**
Borough: **NORTH SLOPE**
State: **ALASKA**

FINAL

OIL BASED MICRO IMAGER TOOL
OBMI RESISTIVITY LOG
14–FEB–2007