

Appendix D – Acoustic Televiewer Plots and Logs



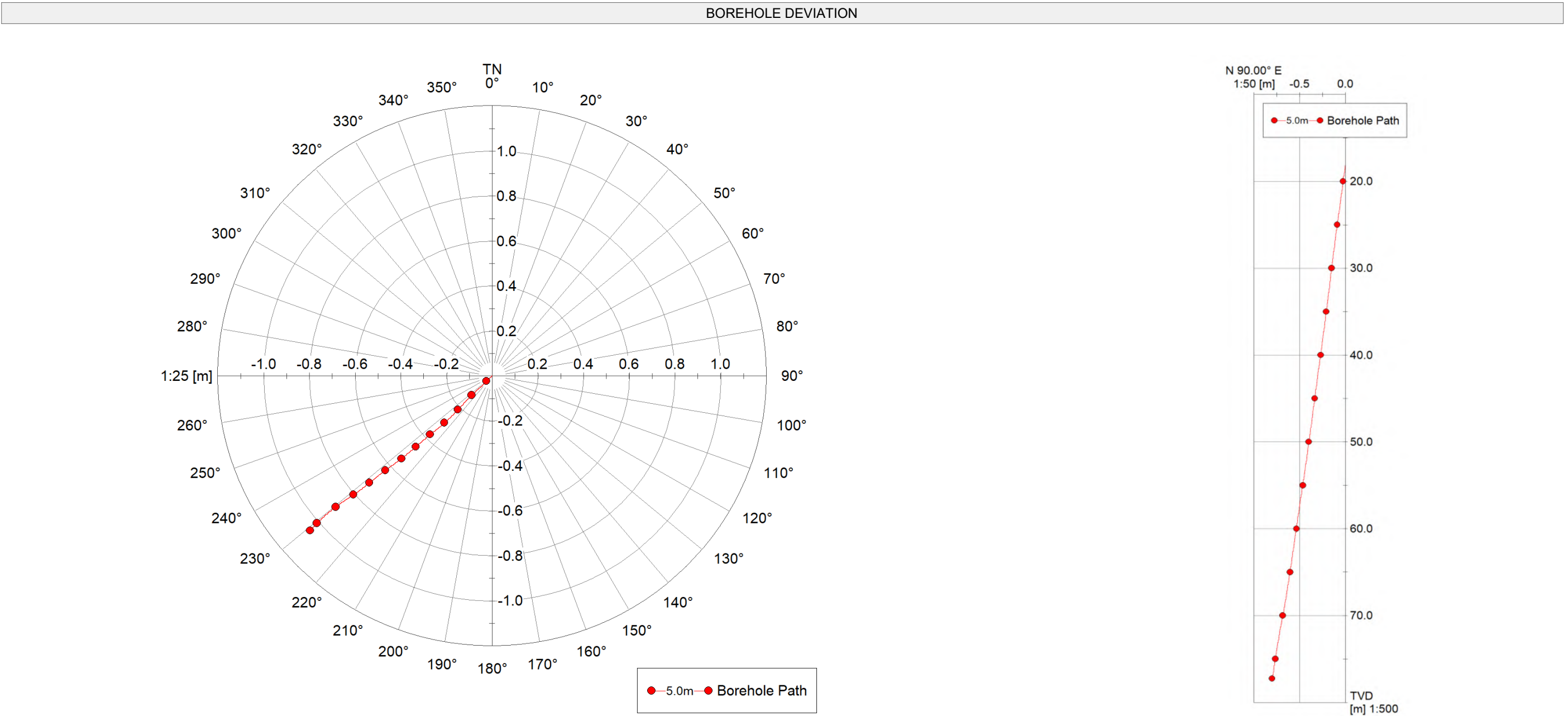
ACOUSTIC BOREHOLE IMAGER - INTERPRETATION

Telkwa Coal

T18-01D

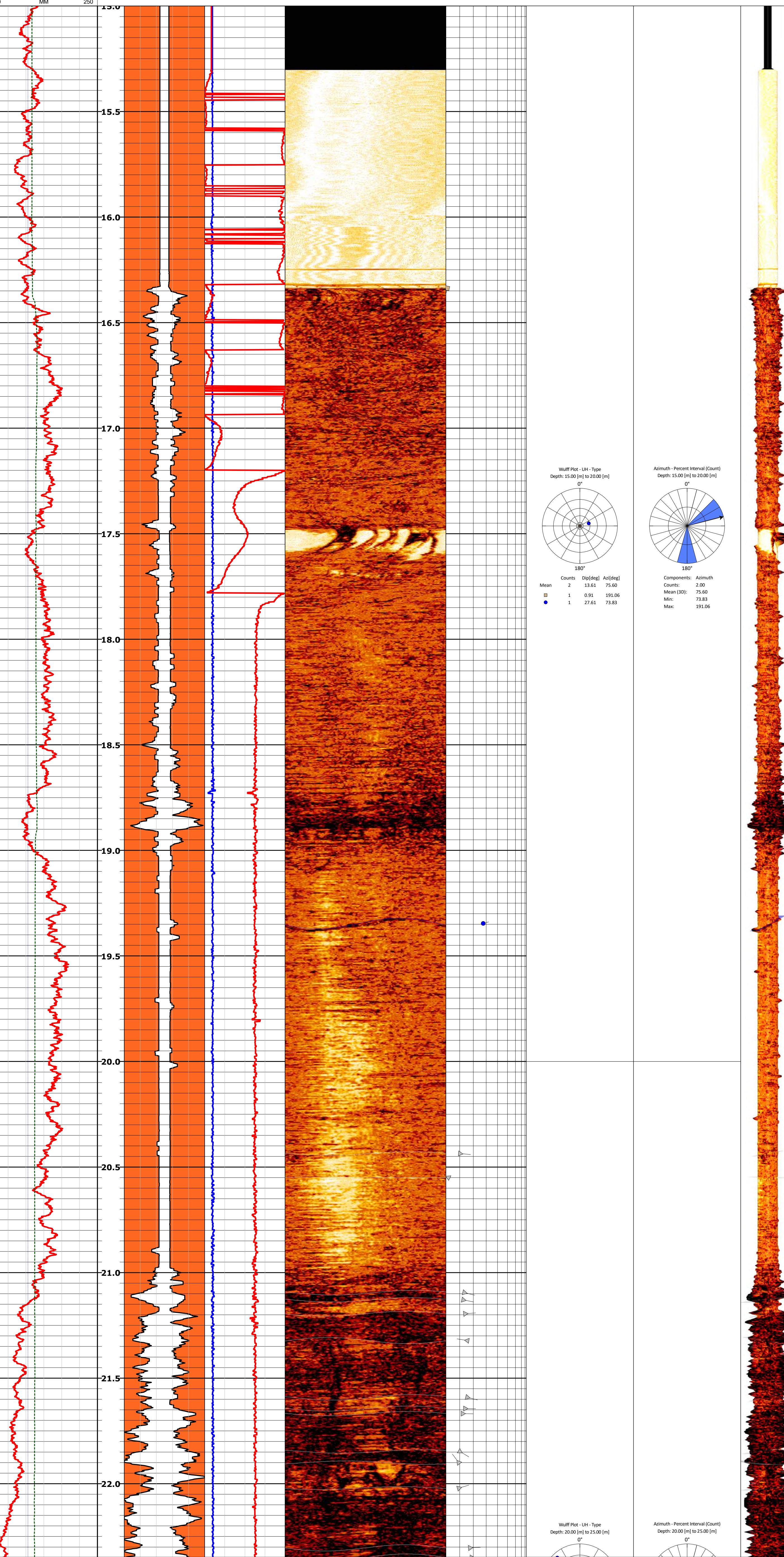
JOB NUMBER :	PROJECT: SITE ARD02	PLATFORM: N/A	DRILL COMPANY: N/A	SERVICE COMP.: CENTURY WIRELINE
FIELD: TELKWA	EASTING: N/A	DRILL START DATE: N/A	WELL AZIM (deg): N/A	
PROVINCE: BRITISH COLUMBIA	NORTHING: N/A	DRILL END DATE: 01-30-18	WELL INCL (deg): 90	
	ELEVATION(m): N/A	RIG NUMBER: S-1		

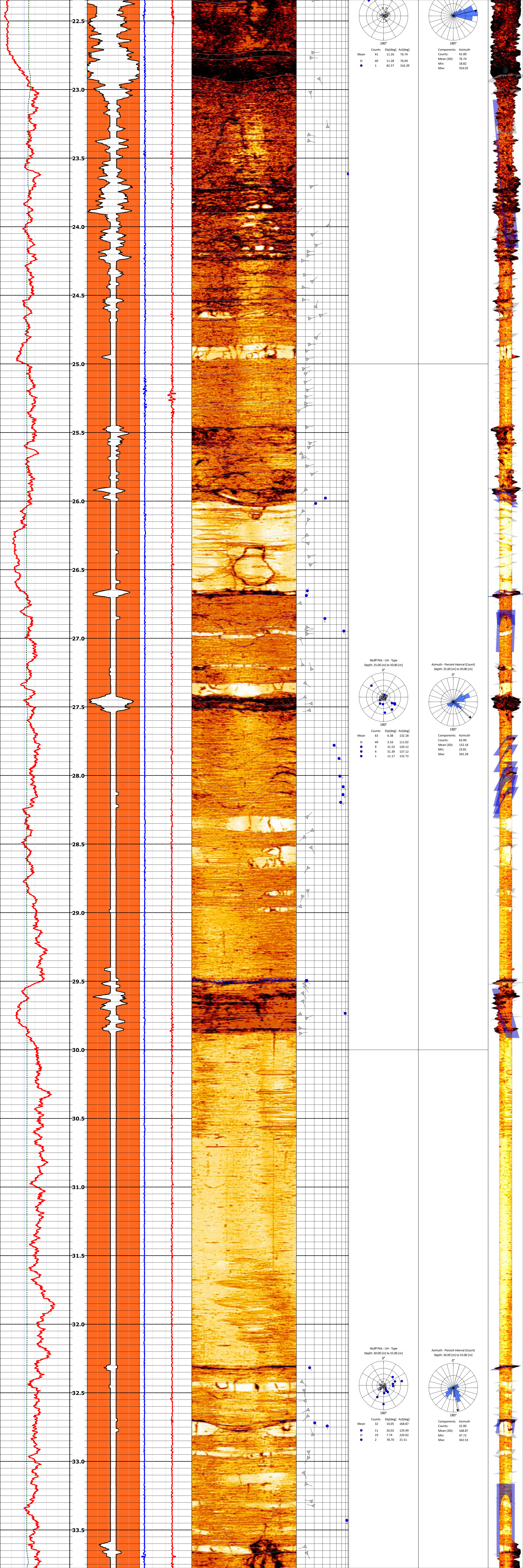
BOREHOLE RECORD				CASING RECORD				REMARKS	
BIT SIZE (mm)	DEPTH FROM (m)	DEPTH TO (m)	FLUID TYPE	TYPE	I.D. (mm)	DEPTH FROM (m)	DEPTH TO (m)	MAGNETIC DECLINATION: 18.20 RECORDED BY: D. SINKWICH - WITNESSED BY: A.LEDDA FLUID LEVEL: 6.50m	
120.65	0.00	78.70	WATER	STEEL	168.27	0.00	16.50		
DEPTH LOGGER	78.76m								

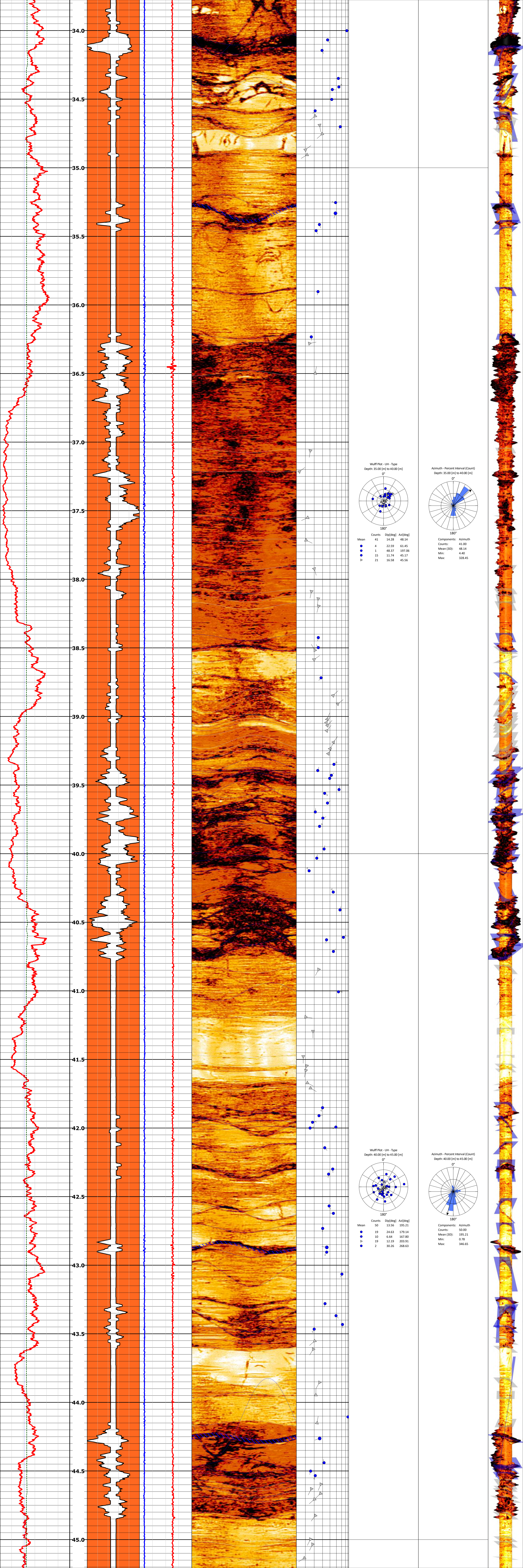


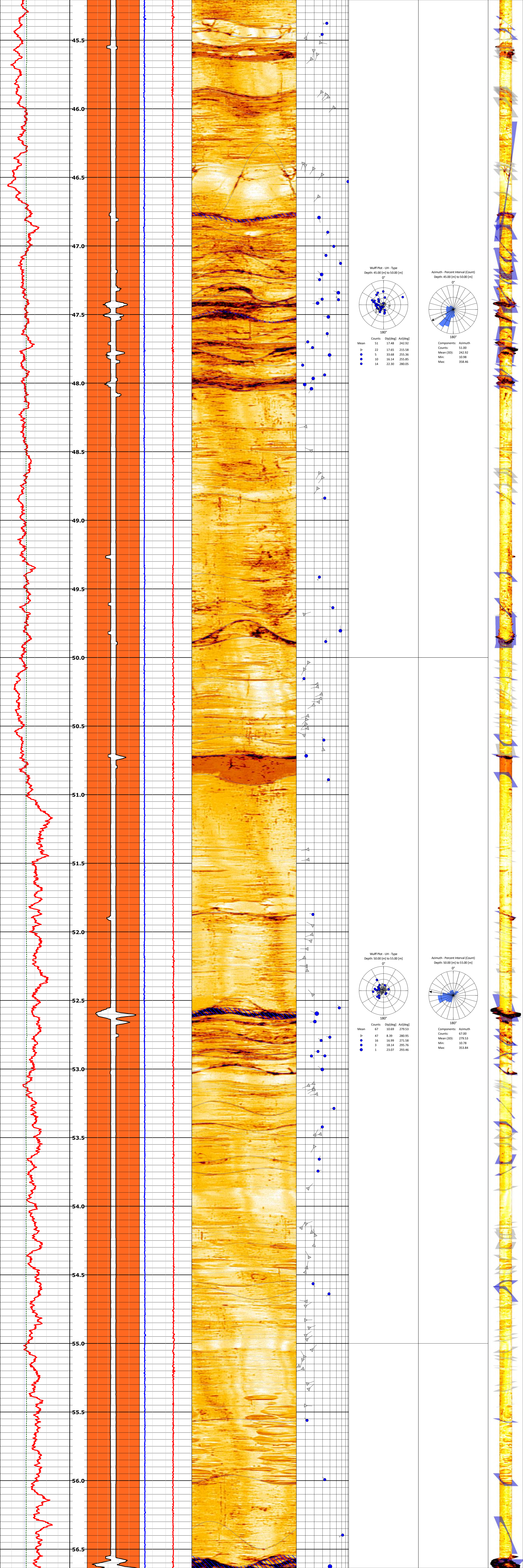
LEGEND					
GEOLOGICAL STRUCTURE					
Unclassified	C - Lithology Contact	BB - Bedding / Banding / Foliation	V - Vein / Sealed Fracture	F - Fault	S - Shear
Jp - Joint - Partial	Jmin - Joint - Minor	Jint - Joint - Intermediate	Jmaj - Joint - Major	WZ - Weak Zone / Clasts	CC - Vertical Cracks / Cleats
IF - Induced Fracture	TF - Tensile Fracture	B - Breakout	CS - Casing	WT - Water Table	

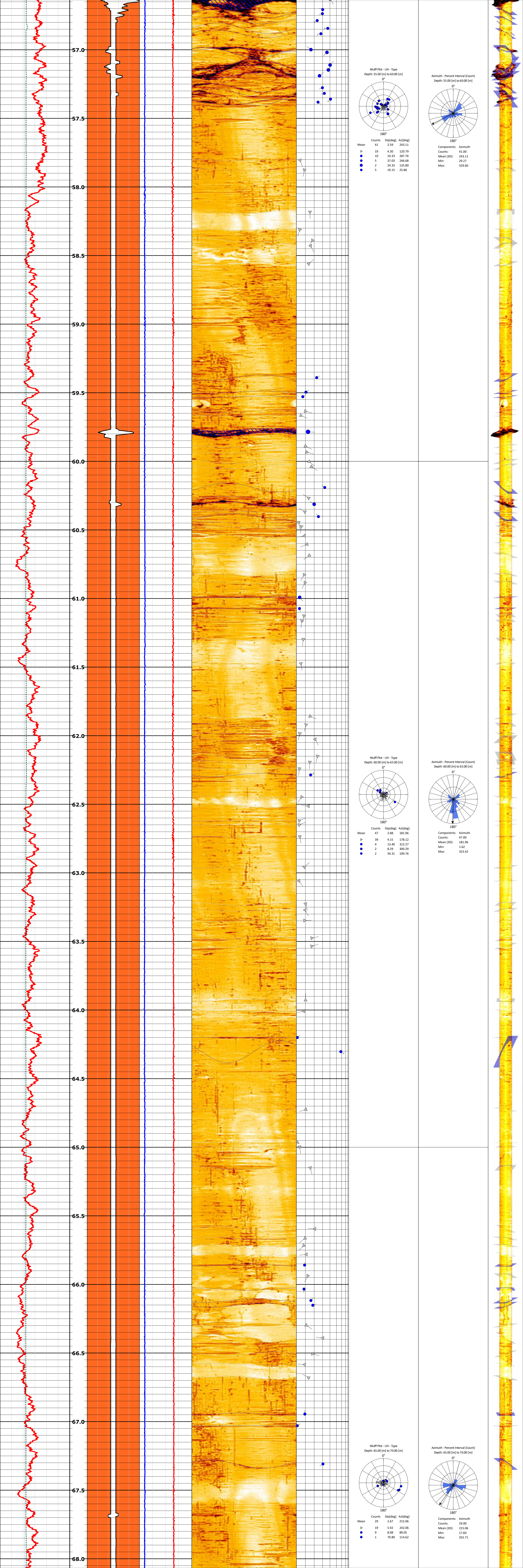
GAM(NAT)	Depth	CALIPERX	SANG	AMPL	CORRECTED PICKS	Polar Plot	Rose Plot	3D ATV
0	1m:10m	-150 MM 350	0 DEG 10	0° 90° 180° 270° 0°	0 90	Wulff Plot - UH - Type	Azimuth - Percent Interval (Count)	-0°
50	MM 250	CALIPERY	SANGB					
50	MM 250	350 MM -150	0 DEG 360					

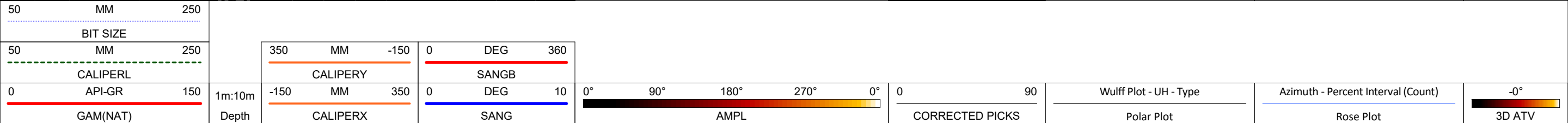
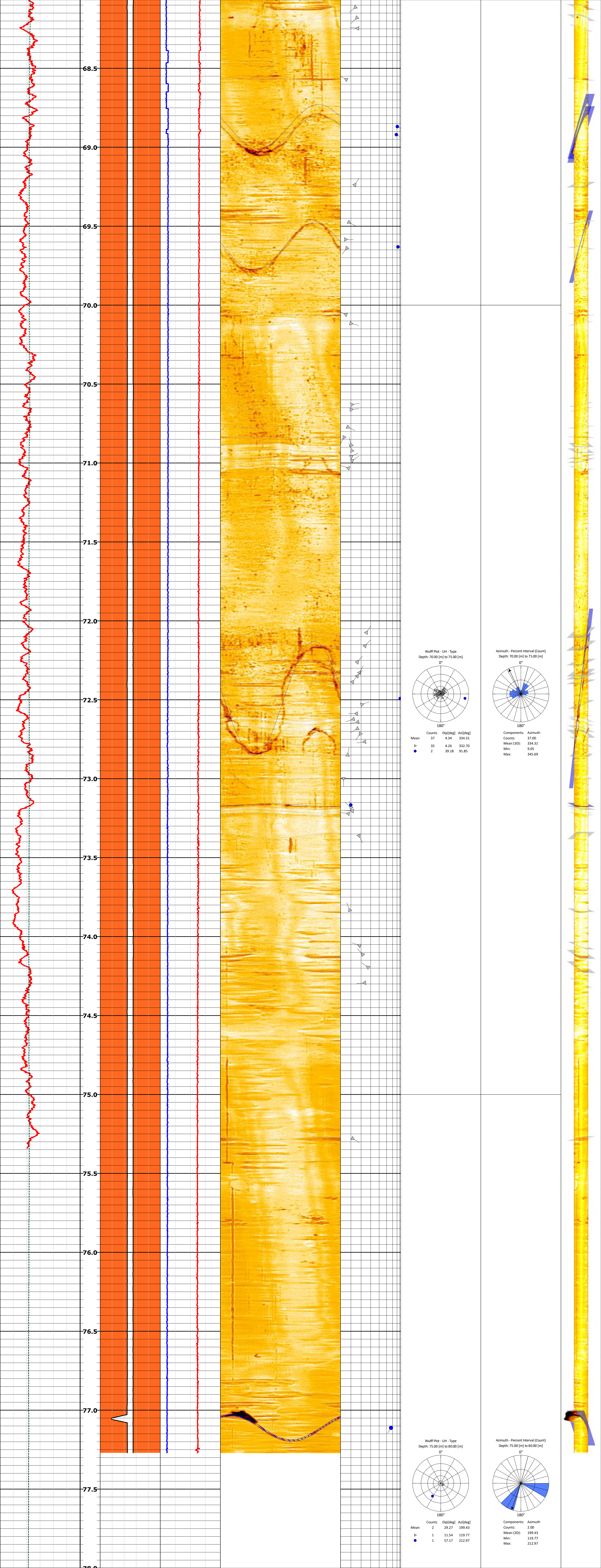














ACOUSTIC BOREHOLE IMAGER - INTERPRETATION

TELKWA COAL

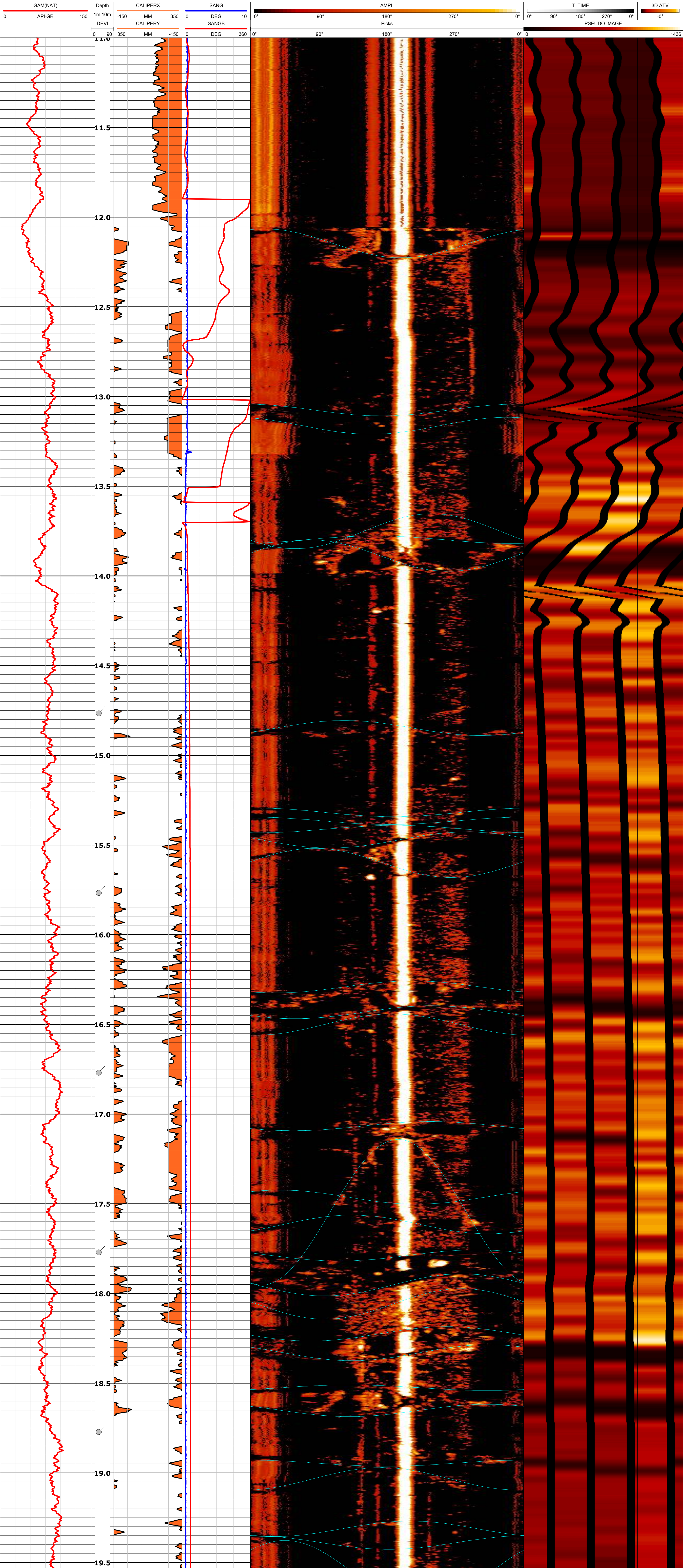
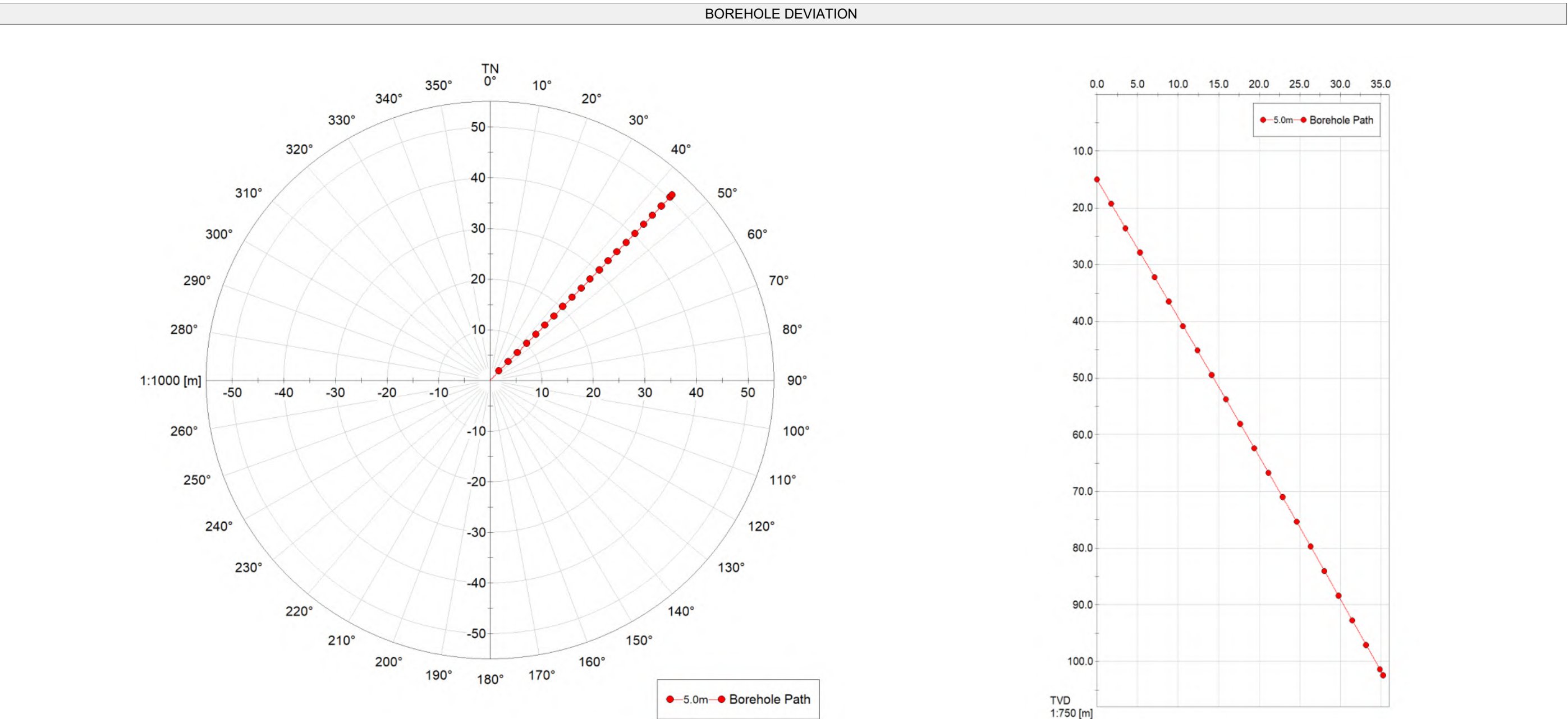
T18-02D

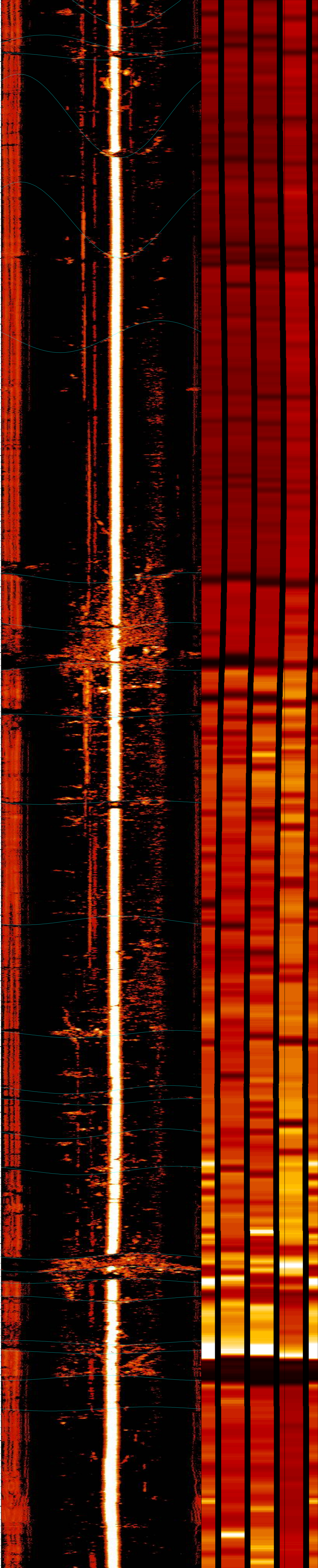
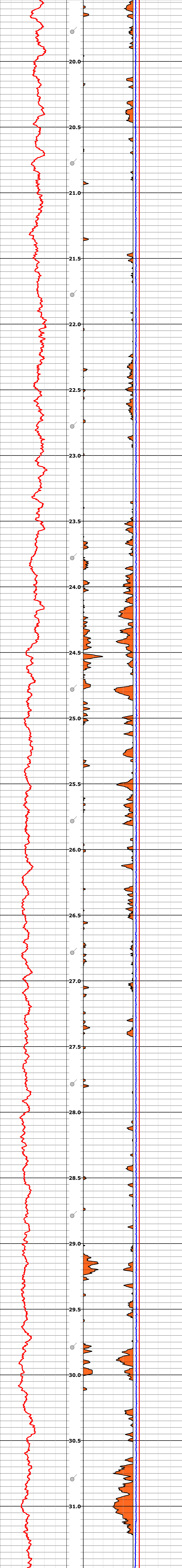
JOB NUMBER :	TELKWA COAL	PLATFORM:	N/A	DRILL COMPANY:	N/A	SERVICE COMP.:	CENTURY WIRELINE
PROJECT:	SITE ARD04	EASTING:	618412.45	DRILL START DATE:	N/A	WELL AZIM (deg):	
FIELD:	TELKWA	NORTHING:	6050731.74	DRILL END DATE:	01-31-18	WELL INCL (deg):	60
PROVINCE:	BRITISH COLUMBIA	ELEVATION(m):	927.92	RIG NUMBER:	S-1		

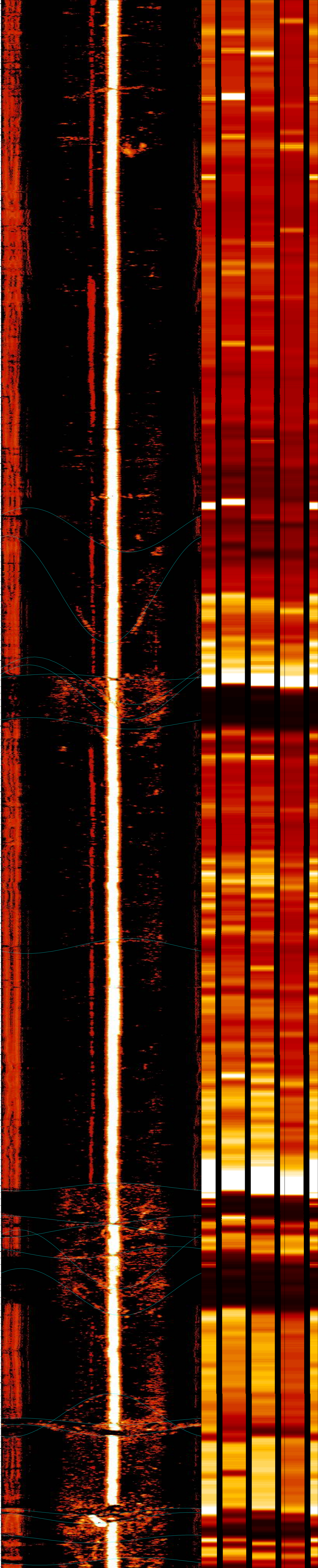
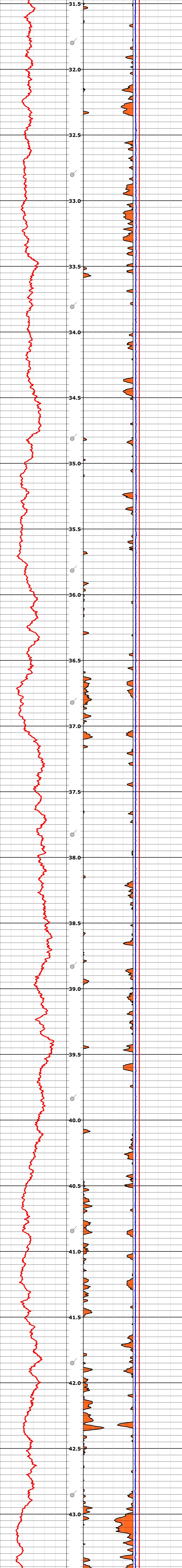
BOREHOLE RECORD			
BIT SIZE (mm)	DEPTH FROM (m)	DEPTH TO (m)	FLUID TYPE
120.65	0.00	124.80	WATER
LOGGER DEPTH	124.83m		

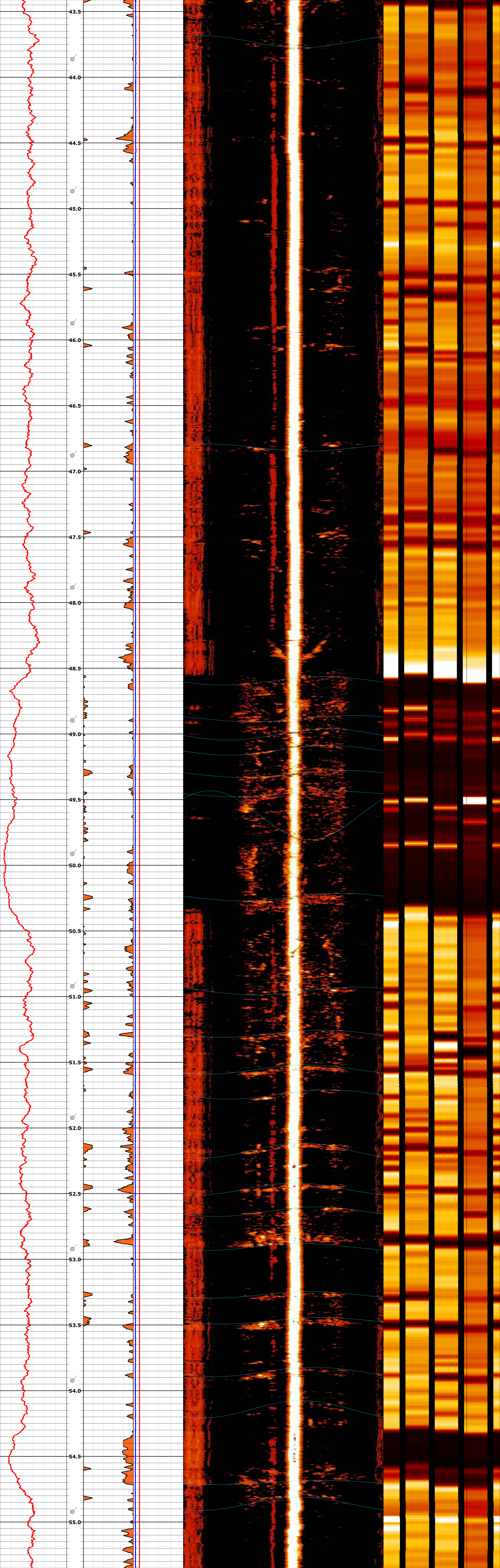
CASING RECORD			
TYPE	I.D. (mm)	DEPTH FROM (m)	DEPTH TO (m)
STEEL	168.27	0.00	12.00
CASING LOGGER	12.28m		

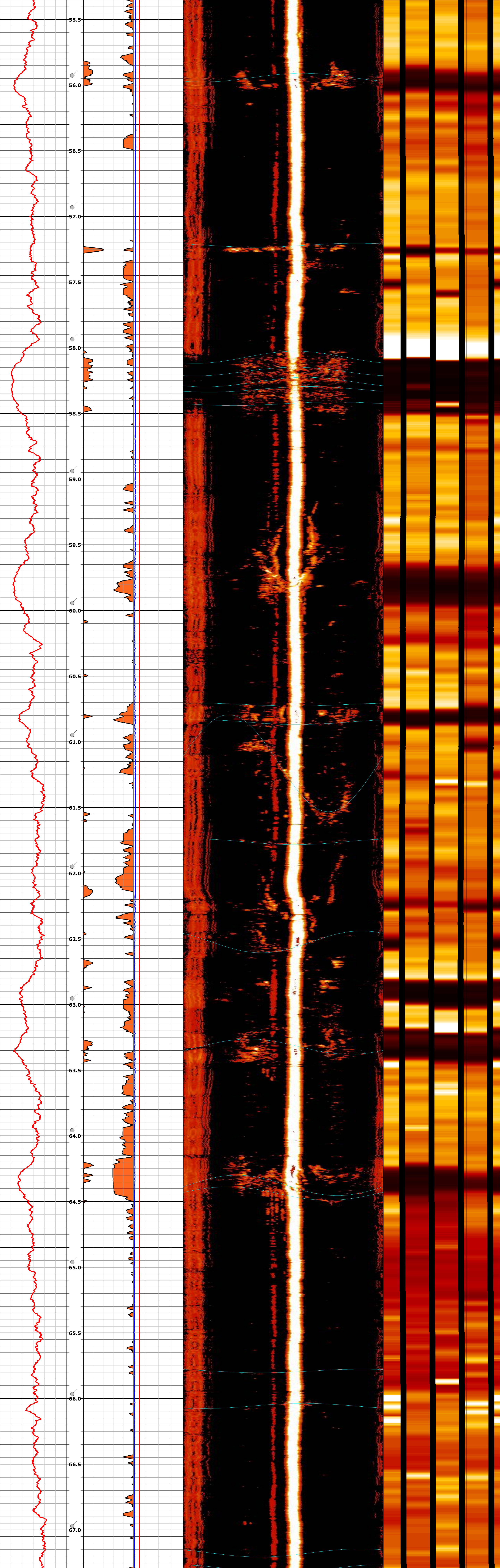
REMARKS
MAGNETIC DECLINATION: 18.20 - ATV ORIENTATION: HIGH SIDE
RECORDED BY: D.SINKWICH - WITNESSED BY: A.LEDDA
FLUID LEVEL 1.30m
ANGLE AND HOLE SIZE DETRIMENTAL TO ATV CENTRALIZATION; MULT RUNS ATTEMPTED

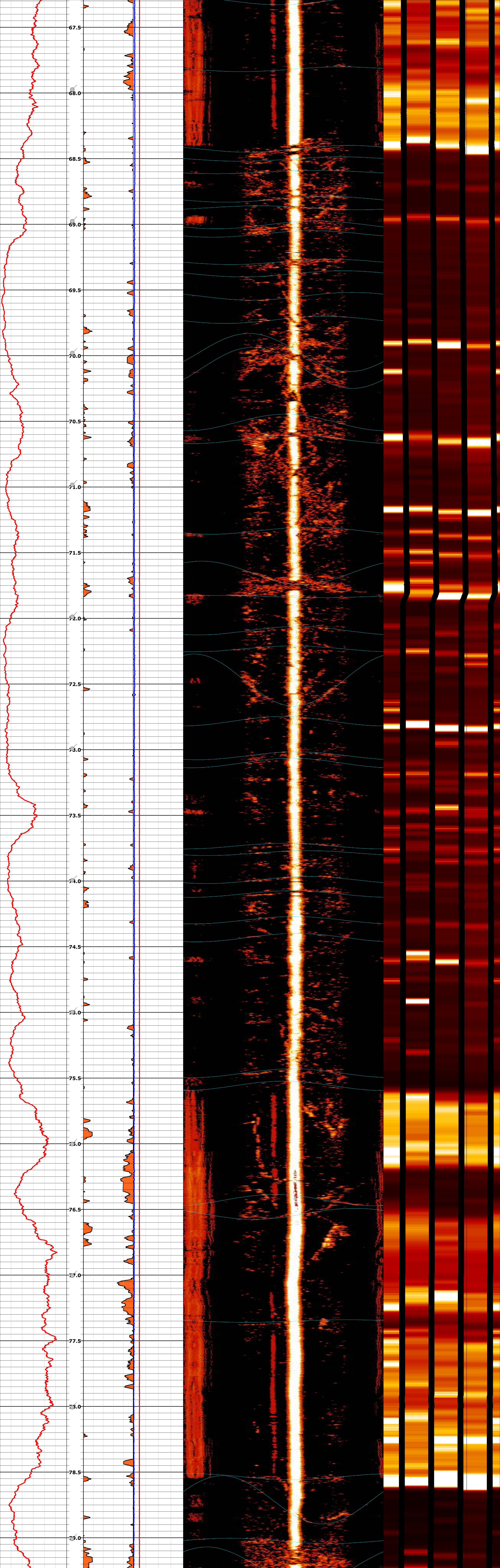


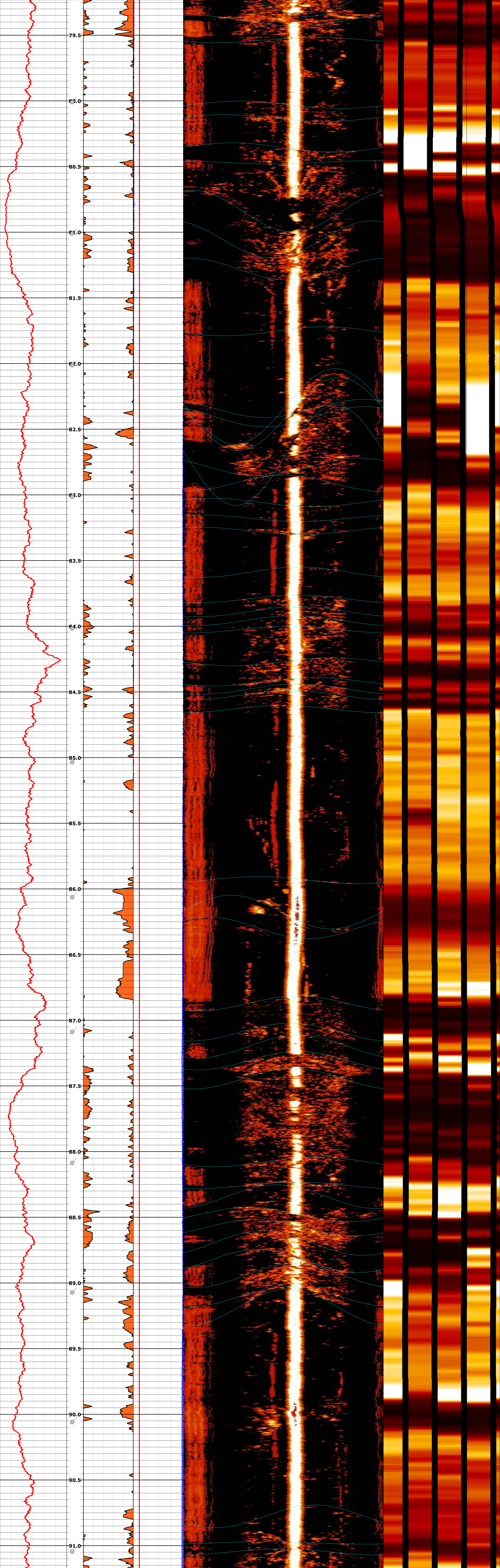


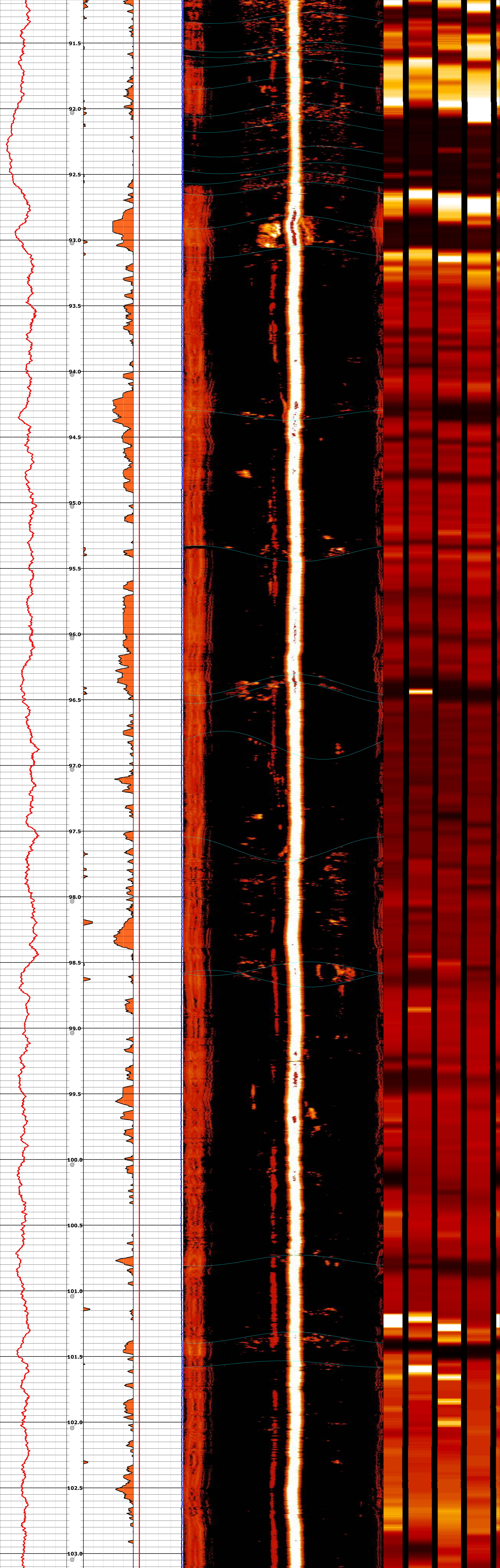


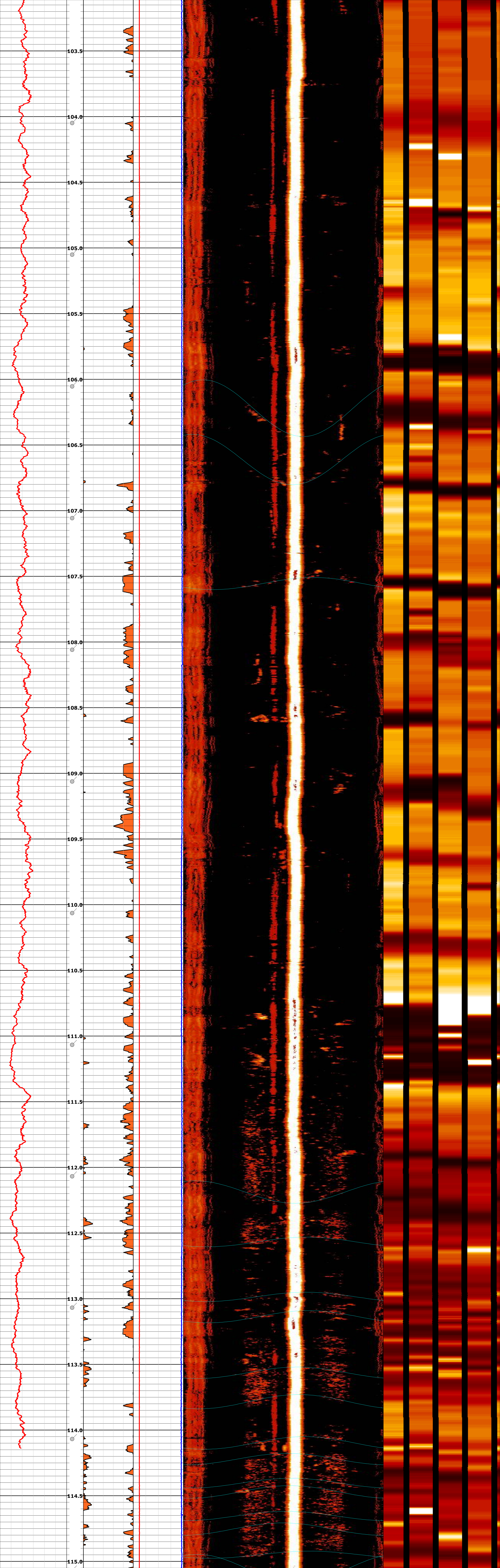


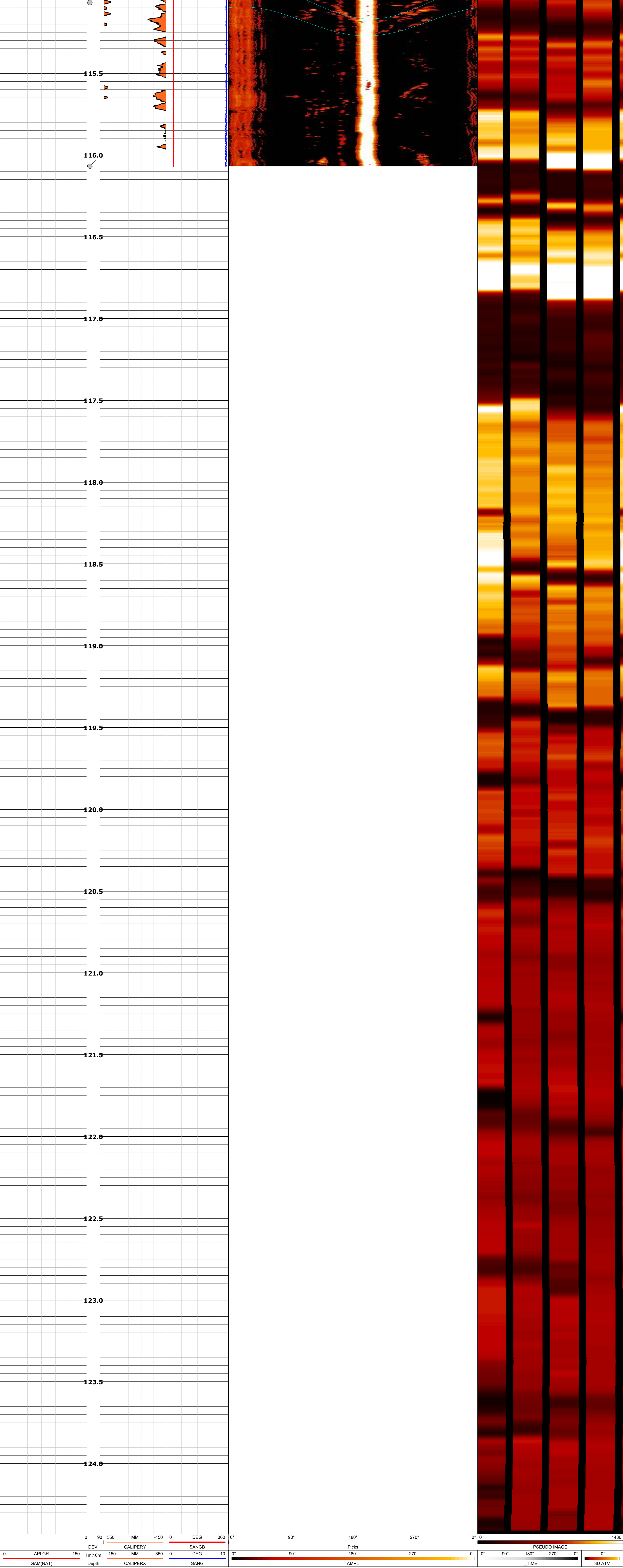














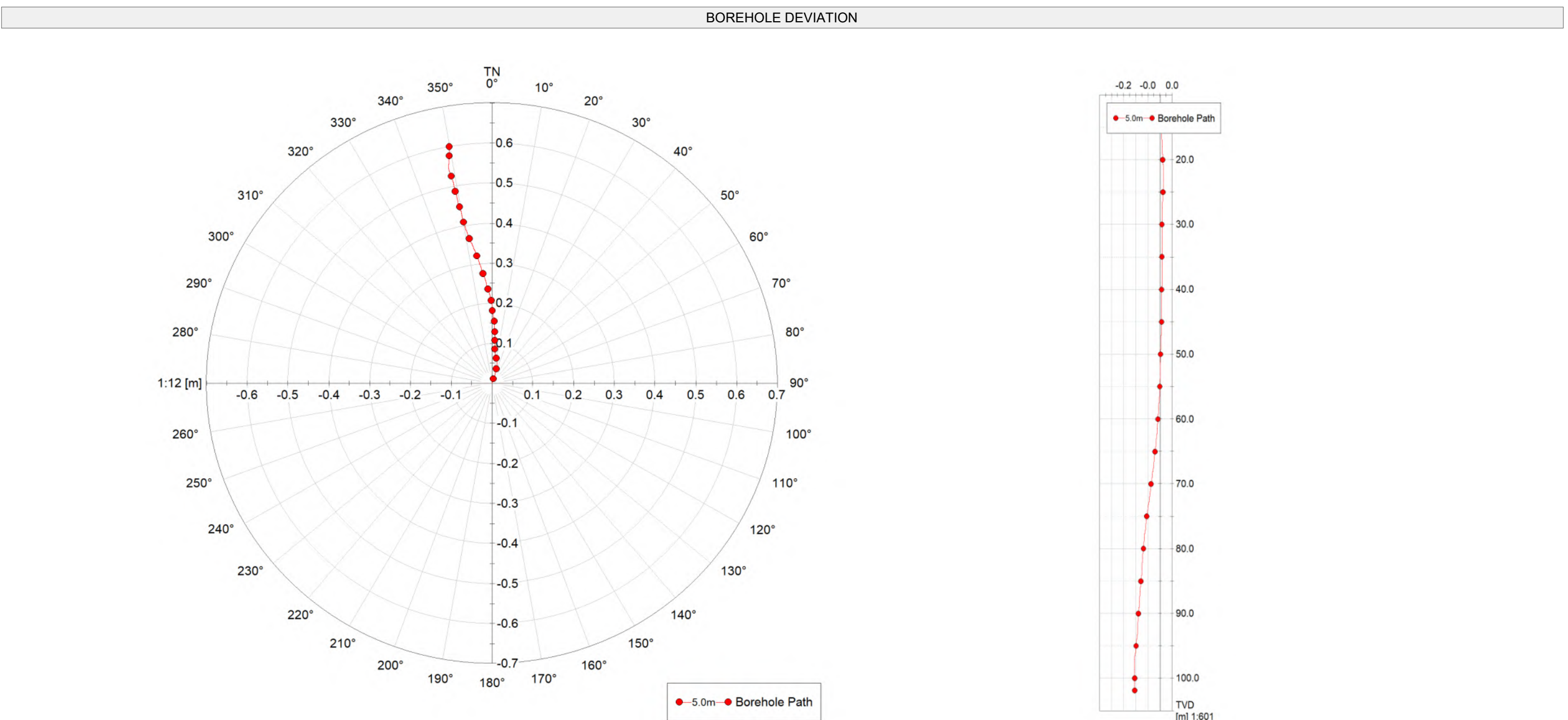
ACOUSTIC BOREHOLE IMAGER - INTERPRETATION

TELKWA COAL

T18-03D

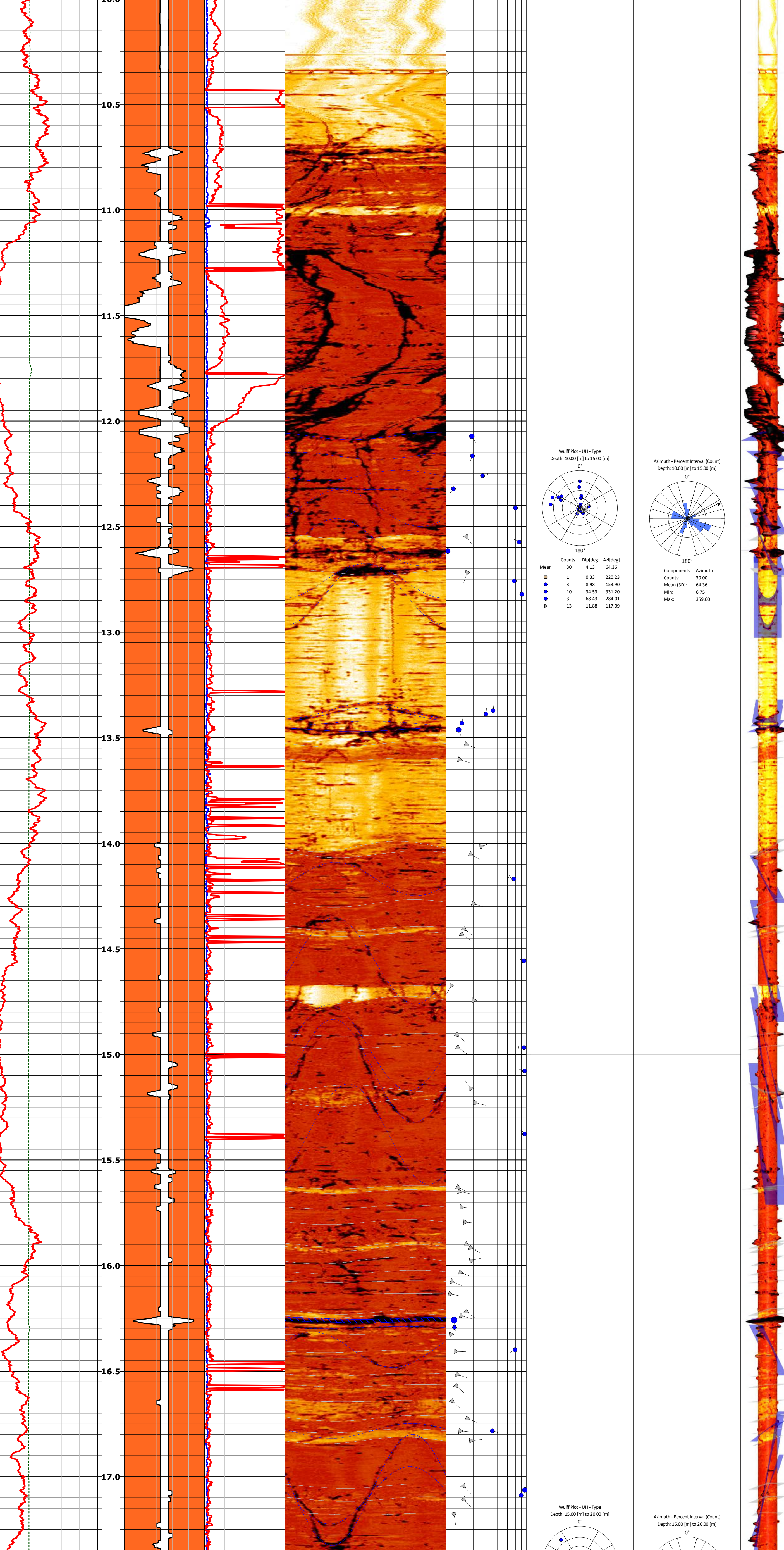
JOB NUMBER :	TELKWA COAL	PLATFORM:	N/A	DRILL COMPANY:	N/A	SERVICE COMP.:	CENTURY WIRELINE
PROJECT:	SITE ARD01	EASTING:	617080.42	DRILL START DATE:	N/A	WELL AZIM (deg):	N/A
FIELD:	TELKWA	NORTHING:	6051771.51	DRILL END DATE:	02-03-18	WELL INCL (deg):	90
PROVINCE:	BRITISH COLUMBIA	ELEVATION(m):	904.32	RIG NUMBER:	S-1		

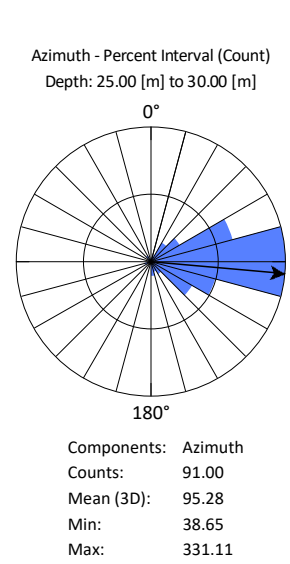
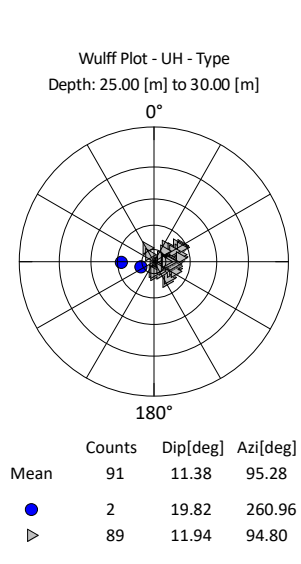
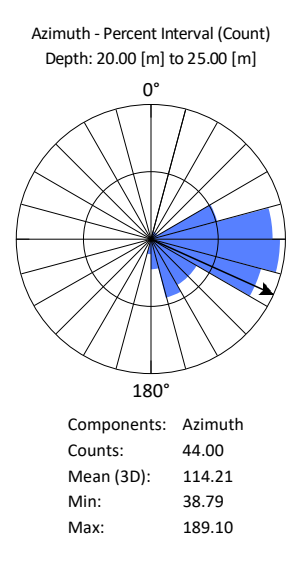
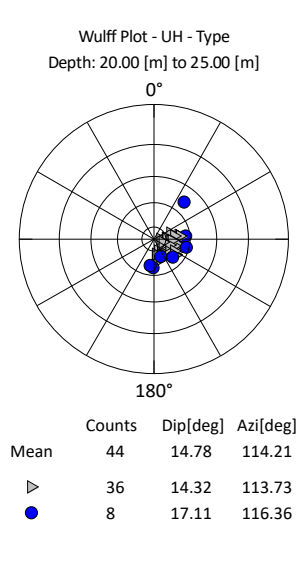
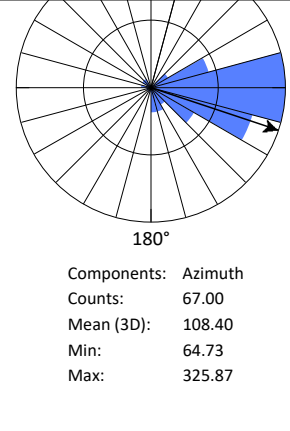
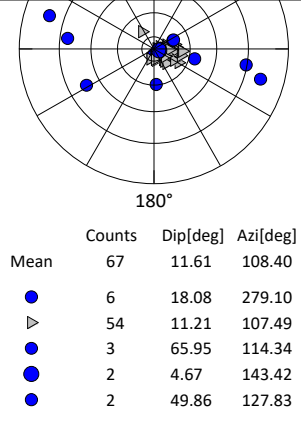
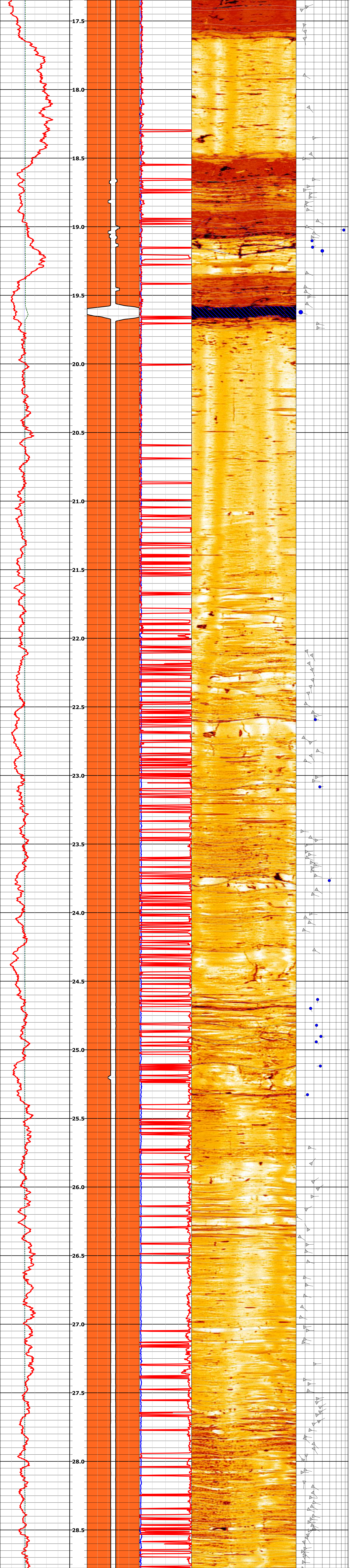
BOREHOLE RECORD				CASING RECORD				REMARKS
BIT SIZE (mm)	DEPTH FROM (m)	DEPTH TO (m)	FLUID TYPE	TYPE	I.D. (mm)	DEPTH FROM (m)	DEPTH TO (m)	MAGNETIC DECLINATION: 18.20 - ORIENTATION: MAGNETIC RECORDED BY: D.SINKWICH - WITNESSED BY: A.LEDDA
120.65	0.00	103.00	WATER	STEEL	168.27	0.00	10.50	
DEPTH LOGGER	102.82m			CASING LOGGER	10.42m			

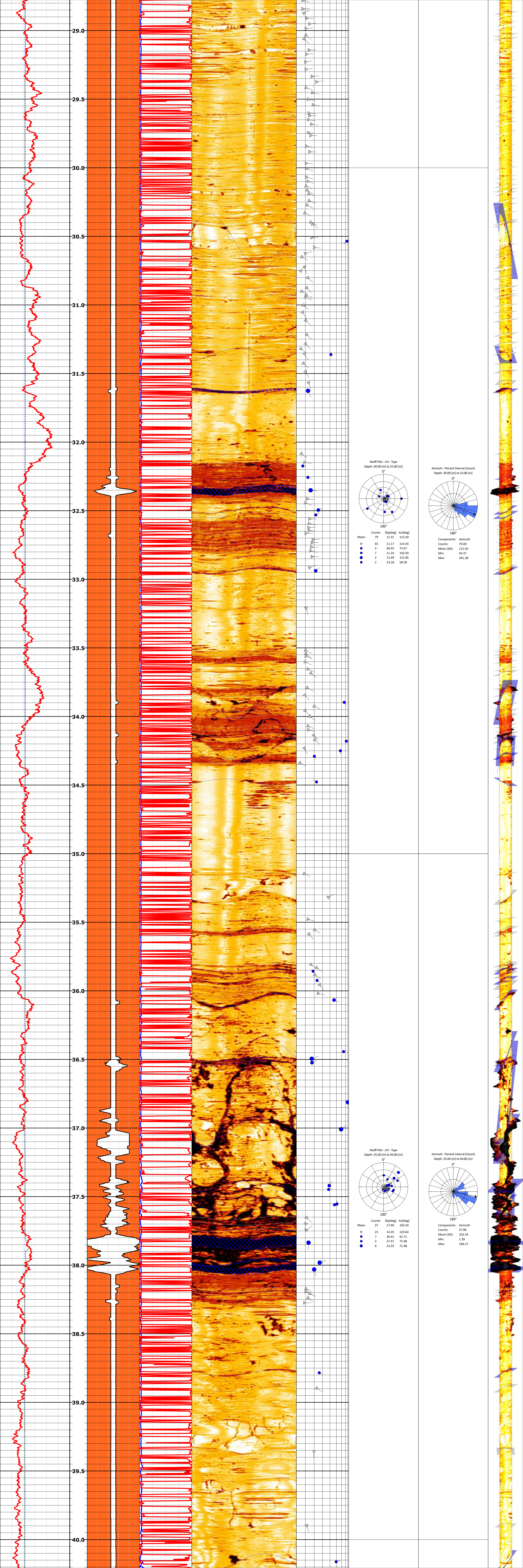


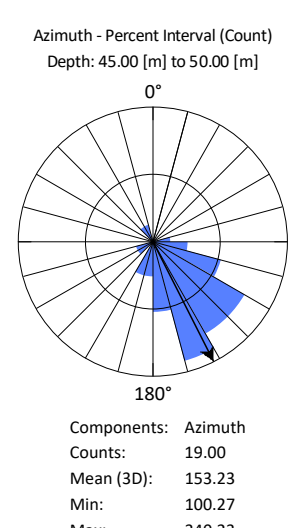
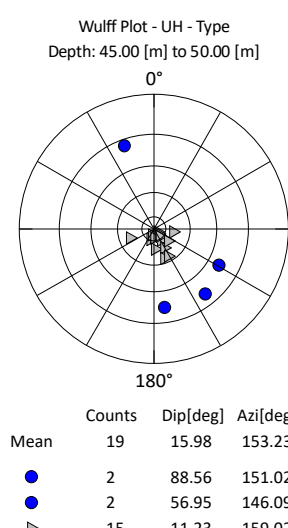
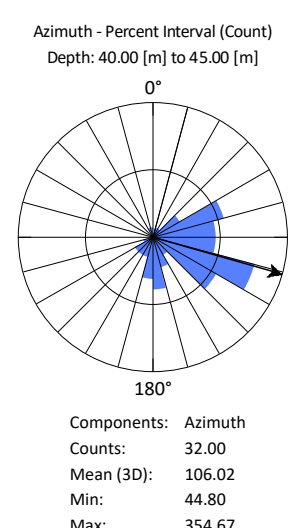
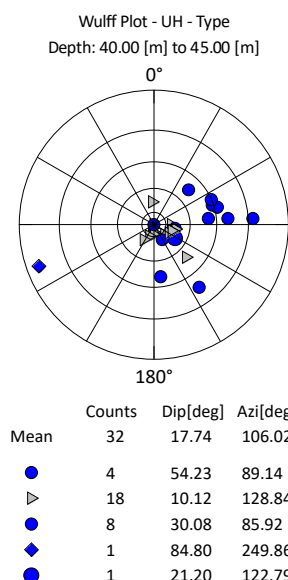
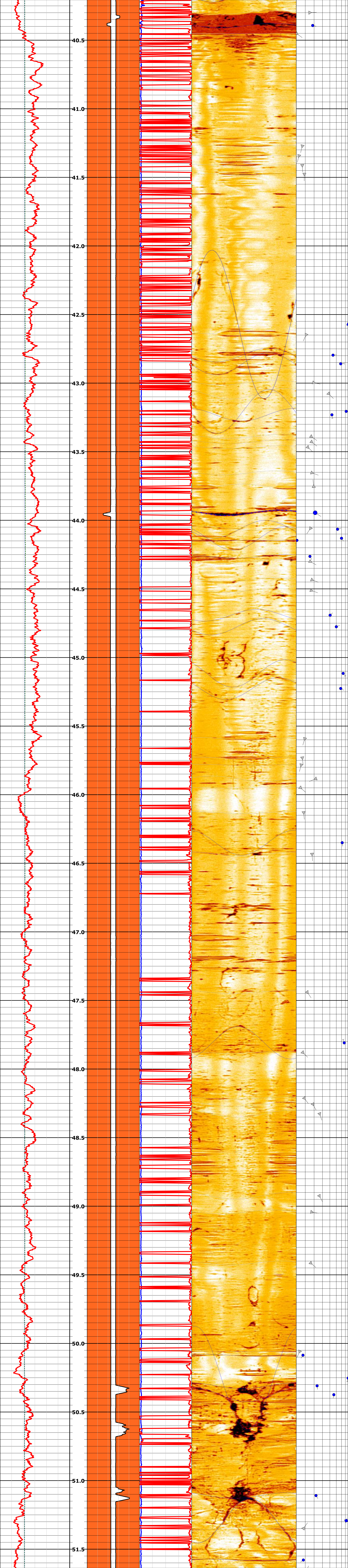
LEGEND					
GEOLOGICAL STRUCTURE					
● - Unclassified	▲ C - Lithology Contact	▲ BB - Bedding / Banding / Foliation	▲ V - Vein / Sealed Fracture	● F - Fault	● S - Shear
● Jp - Joint - Partial	● Jmin - Joint - Minor	● Jint - Joint - Intermediate	● Jmaj - Joint - Major	● WZ - Weak Zone / Clasts	■ CC - Vertical Cracks / Cleats
■ IF - Induced Fracture	■ TF - Tensile Fracture	■ B - Breakout	■ CS - Casing	■ WT - Water Table	

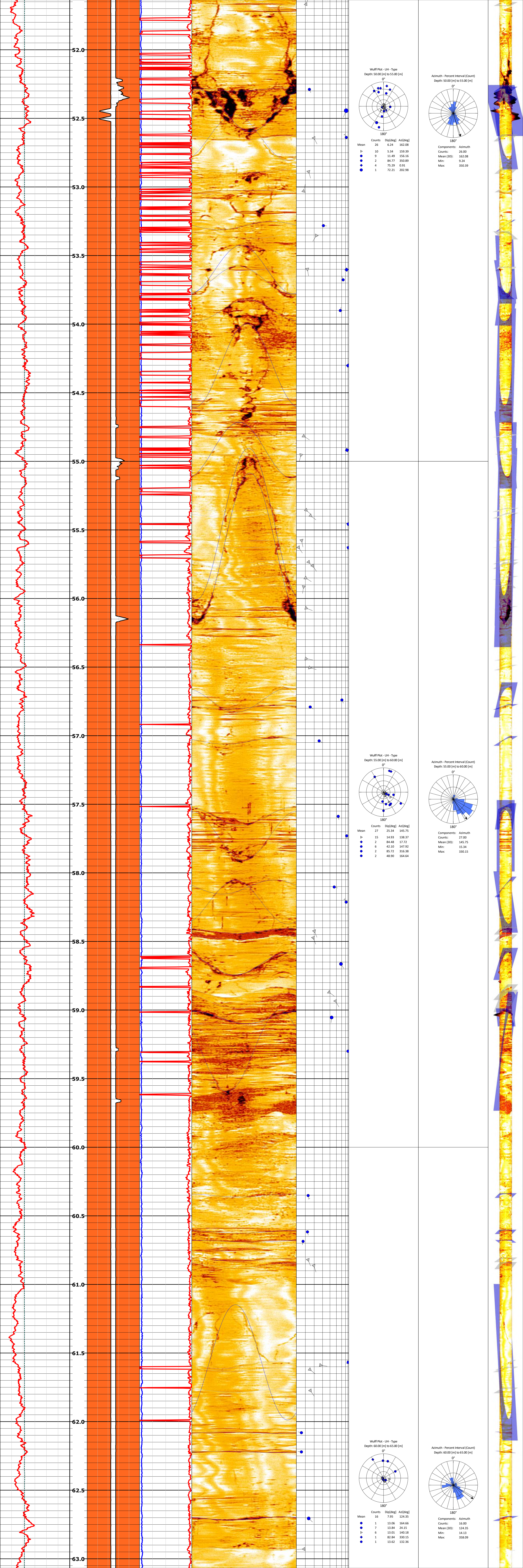
CALIPERL	Depth	CALIPERX	SANG	AMPL	CORRECTED PICKS	POLAR PLOT	ROSE PLOT	3D ATV
50 MM BIT SIZE 50 MM GAM(NAT) 0 API-GR	1m:10m	-150 MM CALIPERY 350 MM	0 DEG SANGB 360 DEG	0° 90° 180° 270° 0°	0 90	Wulff Plot - UH - Type	Azimuth - Percent Interval (Count)	0°

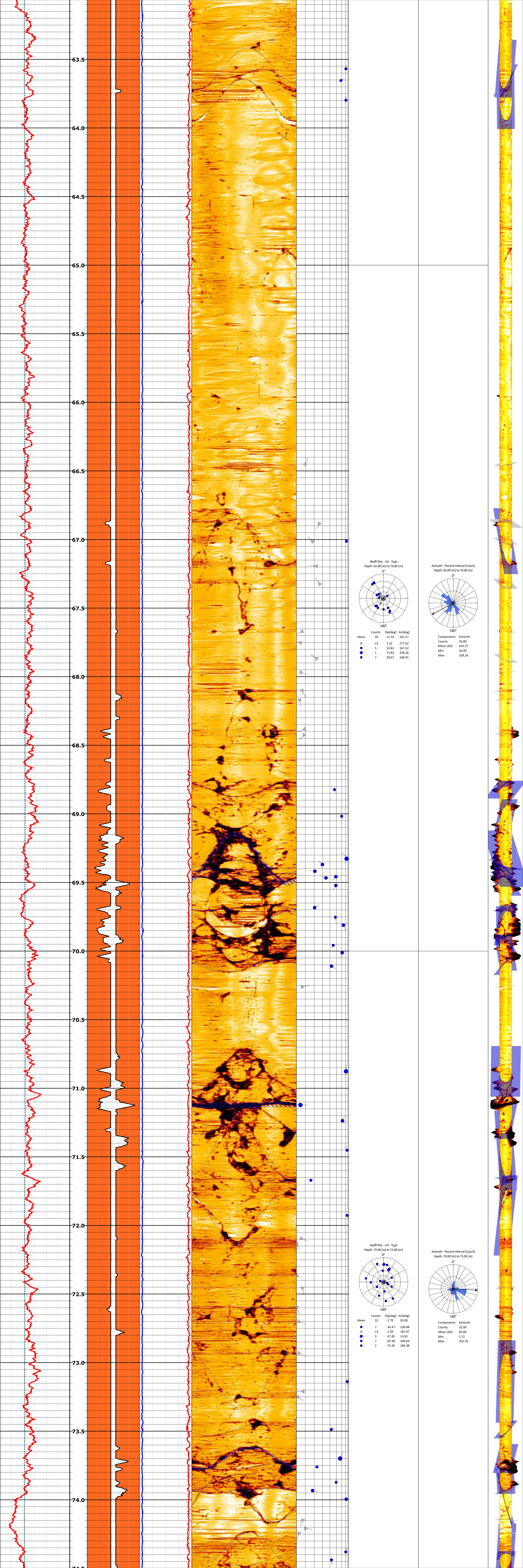


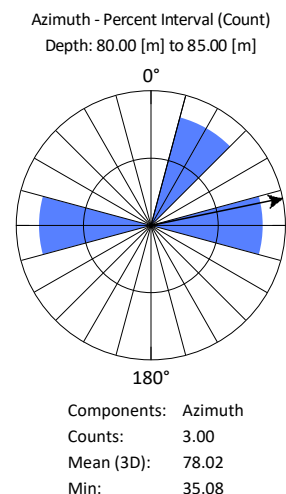
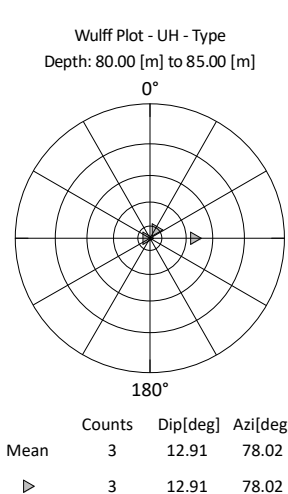
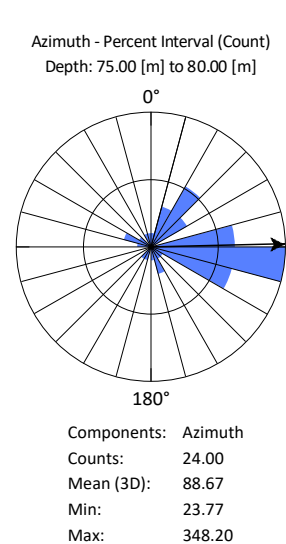
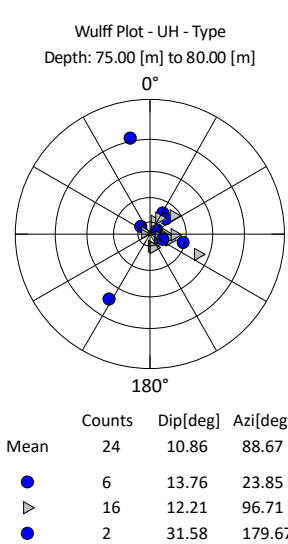
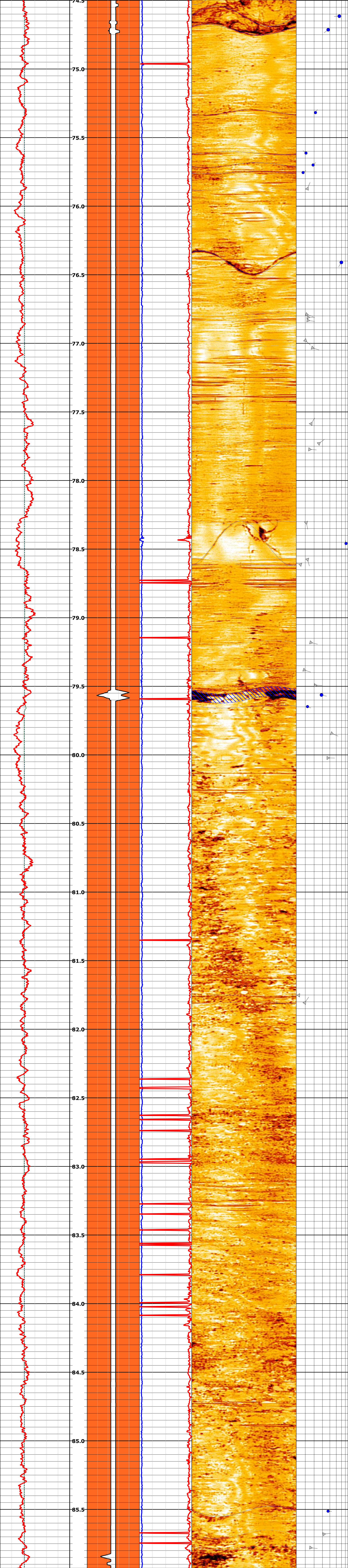


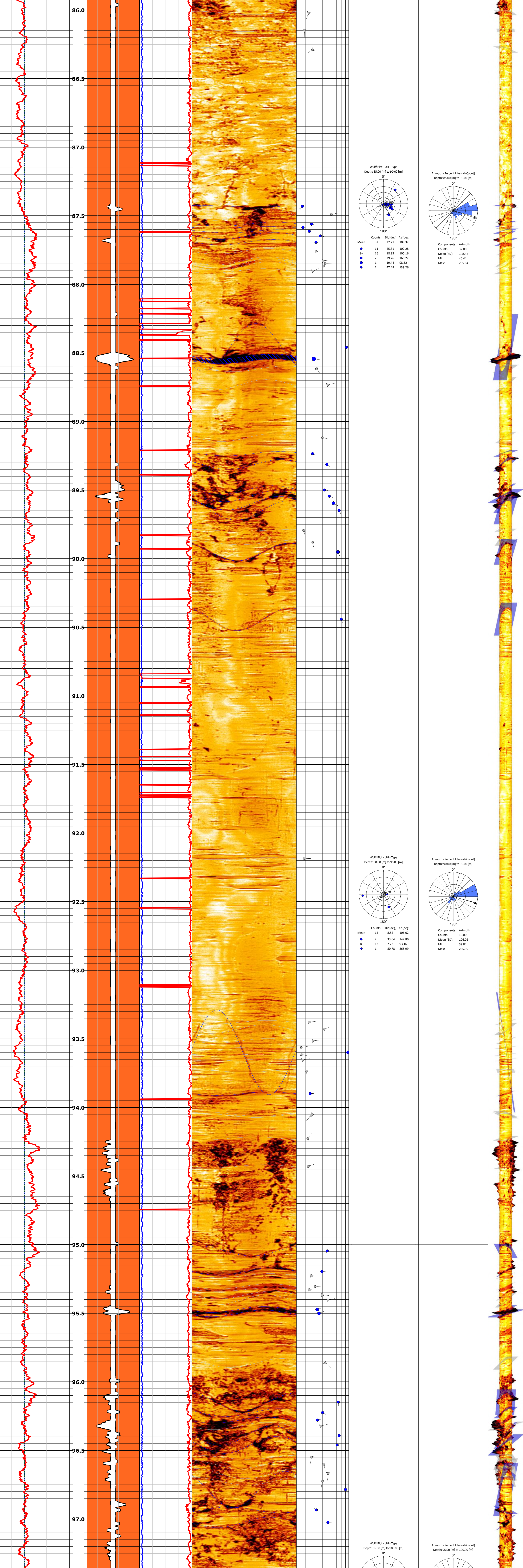


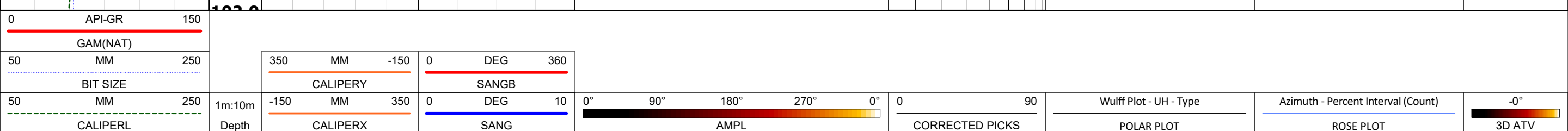












Century
WIRELINE SERVICES

ACOUSTIC BOREHOLE IMAGER - INTERPRETATION

TELKWA COAL

T18-07D

JOB NUMBER : TELKWA COAL

PROJECT : SITE ARD06

FIELD : TELKWA

PROVINCE : BRITISH COLUMBIA

PLATFORM: N/A

EASTING: 617317.66

NORTHING: 6052050.51

ELEVATION(m): 864.16

DRILL COMPANY: N/A

DRILL START DATE: N/A

DRILL END DATE: 02-22-18

RIG NUMBER: S-1

SERVICE COMP : CENTURY WIRELINE

WELL AZIM (deg): --

WELL INCL (deg): 90

BOREHOLE RECORD

BIT SIZE (mm)120.65

DEPTH FROM (m)0.00

DEPTH TO (m)213.00

FLUID TYPEWATER

CASING RECORD

TYPESTEEL

I.D. (mm)168.27

DEPTH FROM (m)0.00

DEPTH TO (m)7.50

CASING LOGGER7.74m

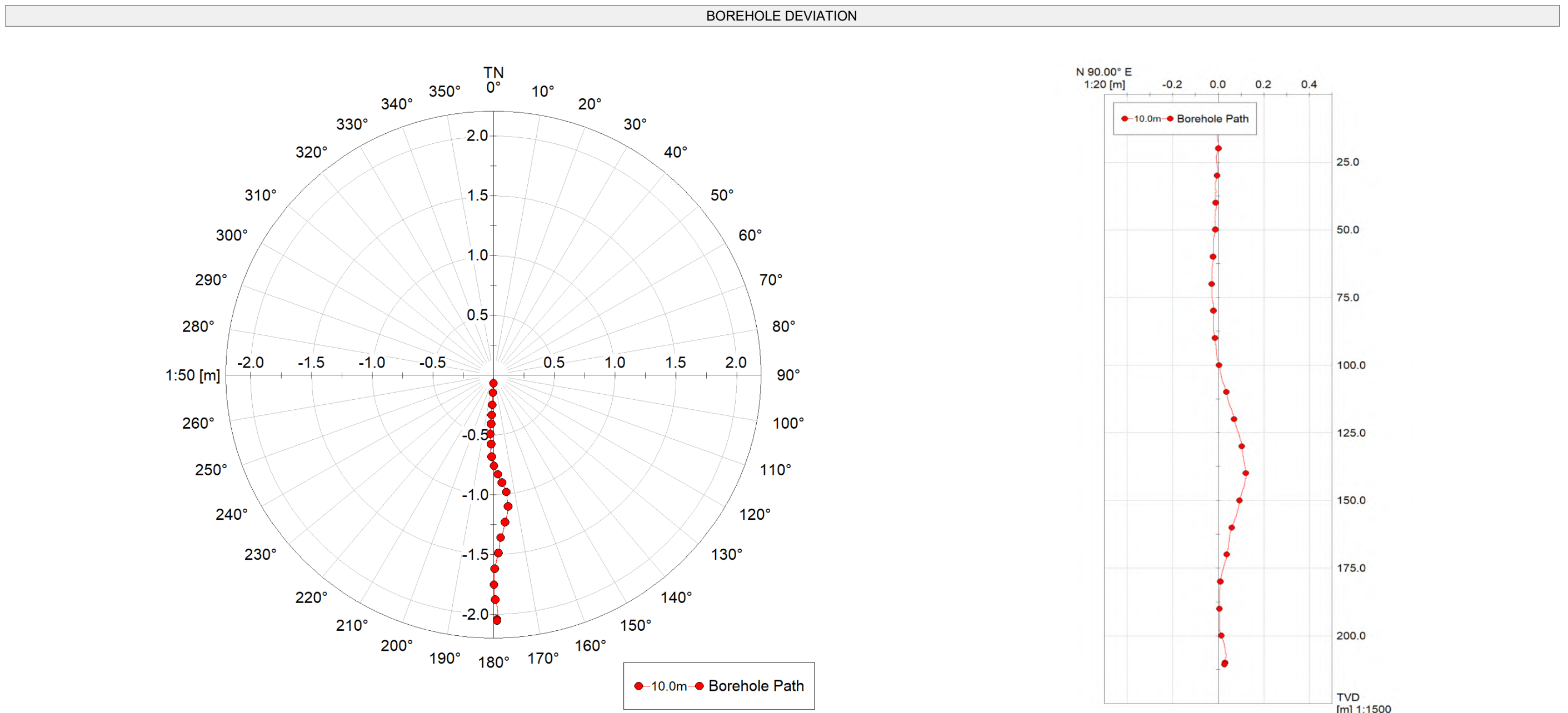
REMARKS

DENSITY TOOL STUCK ON CASING - NOT LOGGED TO TOP

SKIPPED 10M OF DENSITY LOG DUE TO ADVERSE HOLE COND. - TOOL WAS HUNG AND FISHED

LOGGED BY: D.SINKWICH - WITNESSED BY: R.PARENT

FLUID LEVEL: 1.50m - MAGNETIC DECLINATION: 18.20 - ORIENTATION MAGNETIC



LEGEND					
GEOLOGICAL STRUCTURE					
- Unclassified	C - Lithology Contact	BB - Bedding / Banding / Foliation	V - Vein / Sealed Fracture	F - Fault	S - Shear
Jp - Joint - Partial	Jmin - Joint - Minor	Jint - Joint - Intermediate	Jmaj - Joint - Major	WZ - Weak Zone / Clasts	CC - Vertical Cracks / Cleats
IF - Induced Fracture	TF - Tensile Fracture	B - Breakout	CS - Casing	WT - Water Table	

