Schlumberger

Techlog PROCESSED

HSM-01A

ProVision Plus Processed Results

Using the following logs: ProVision Plus

COMPANY: IODP.
WELL: HSM-01A
FIELD: New Zealand
RIG: Joides Resolution
STATE:
COUNTRY: New Zealand
Date Logged: 25-Dec-2017
Date Processed: 28-Dec-2017
Run no. 1
Depth Driller (m): 1665
Depth Logger (m): 1665
Elevations (m): D.F: 11 m G.L: -1004.0 m
Permanent Datum: MSL
Log Measured From: DF

FOLD HERE: The well name, location and borehole reference data were furnished by the customer.

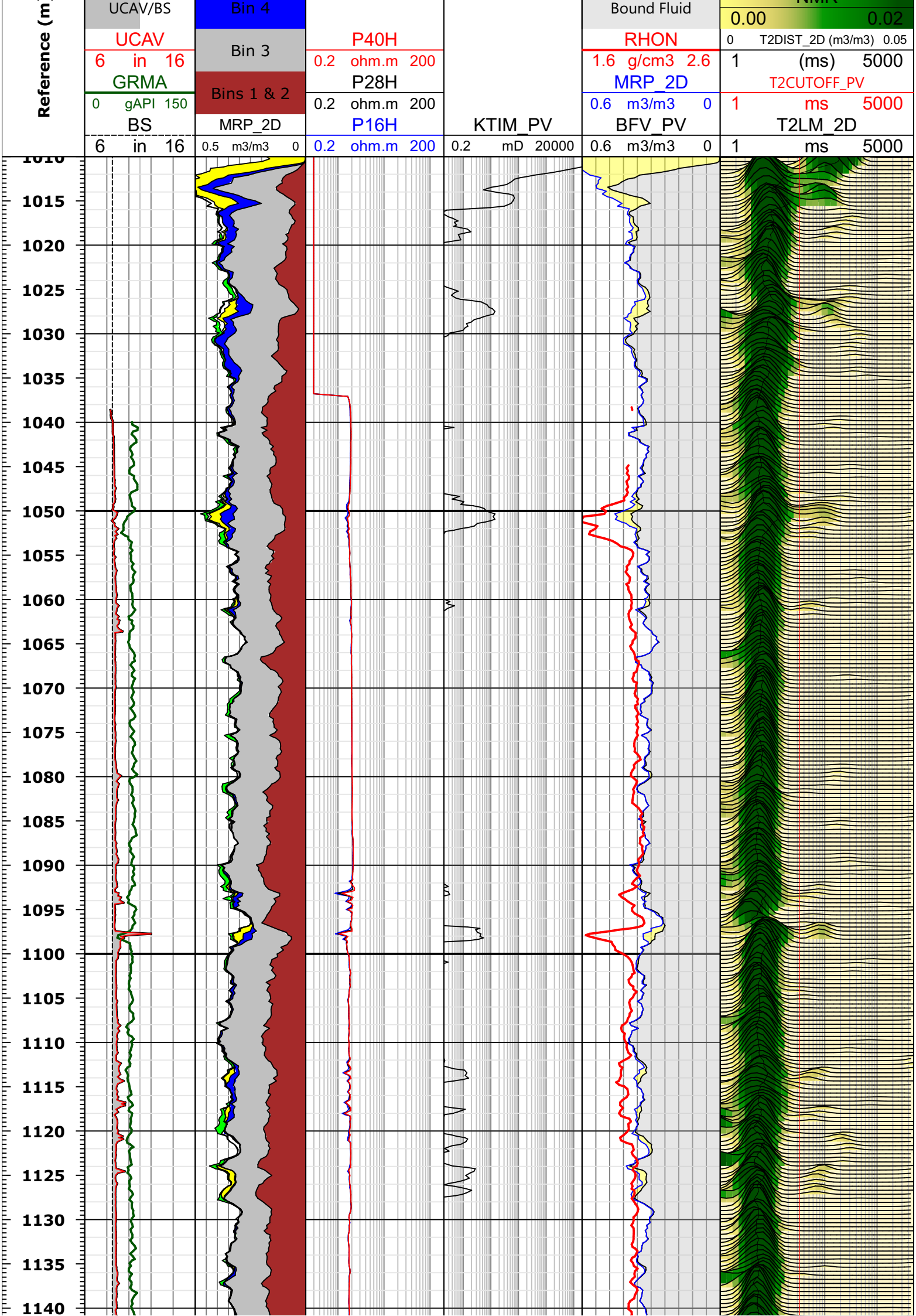
Field Recording:	Location:	Software vers:Maxwell	Engineer: David Pedulla / Liam
Office Processing:	Location: PTS Perth	Software vers: Techlog 2017	Analyst: Boon Cheong

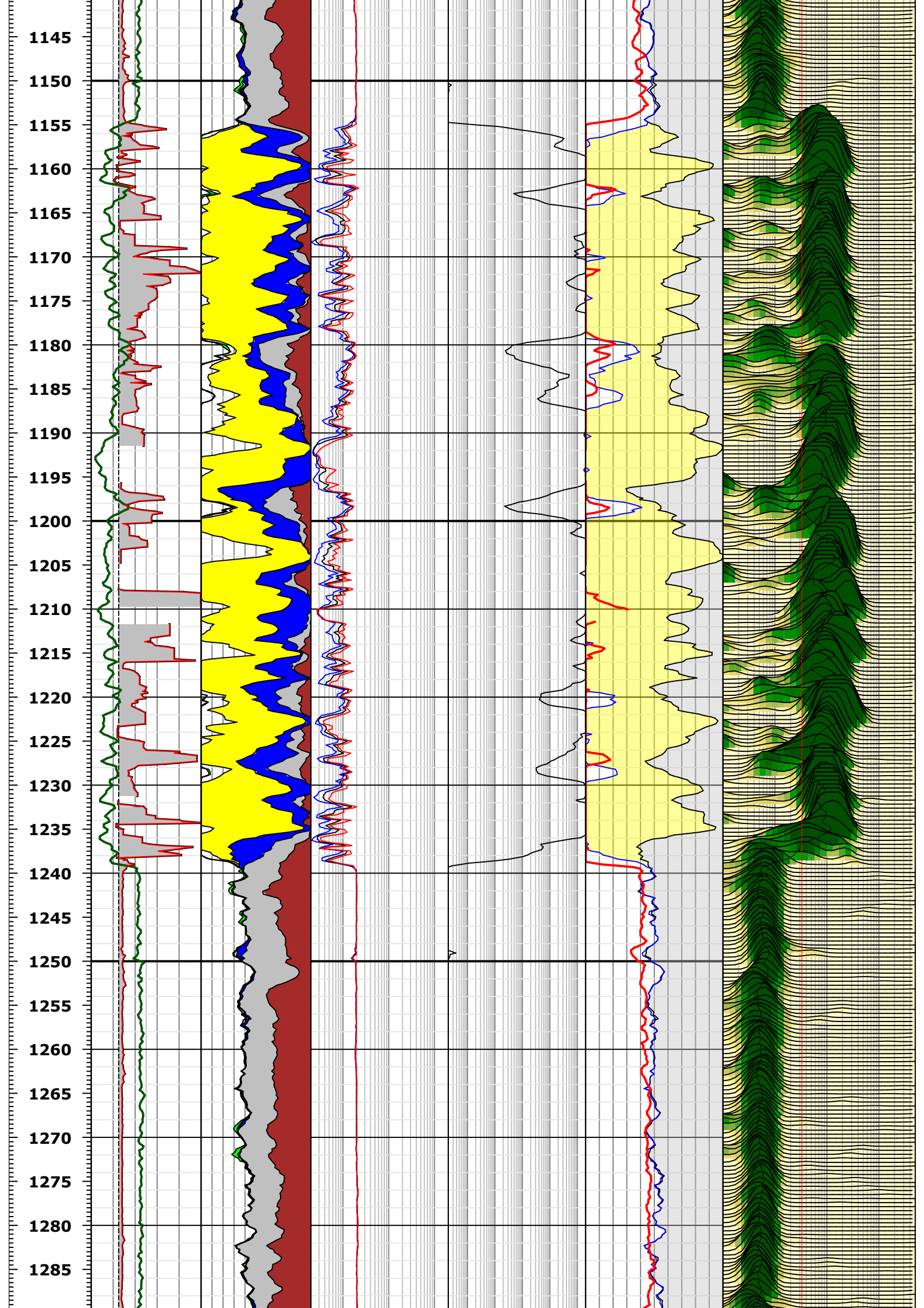
Mud and Borehole Measurements:

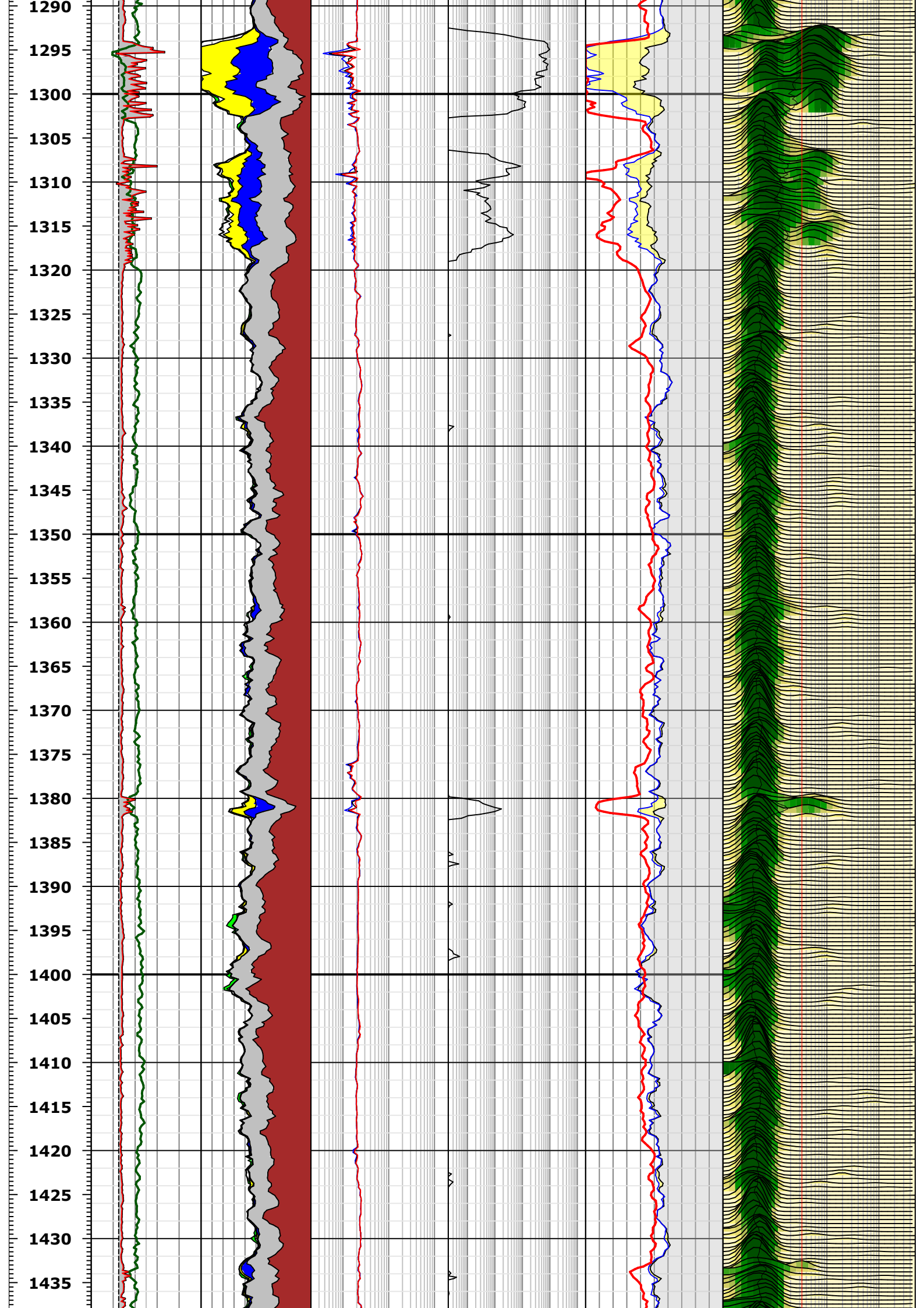
Rm @ Measured Temperature: 0.2 ohm @ 23.889 degC	BHT: N/A	BS: 8.5"
Rmf @ Measured Temperature: 0.15 ohm @ 20 degC	Fluid in Hole: Water	Mud Density: 1.198 g/cc
Rmc @ Measured Temperature: N/A	Mud pH: N/A	Fluid Loss: N/A

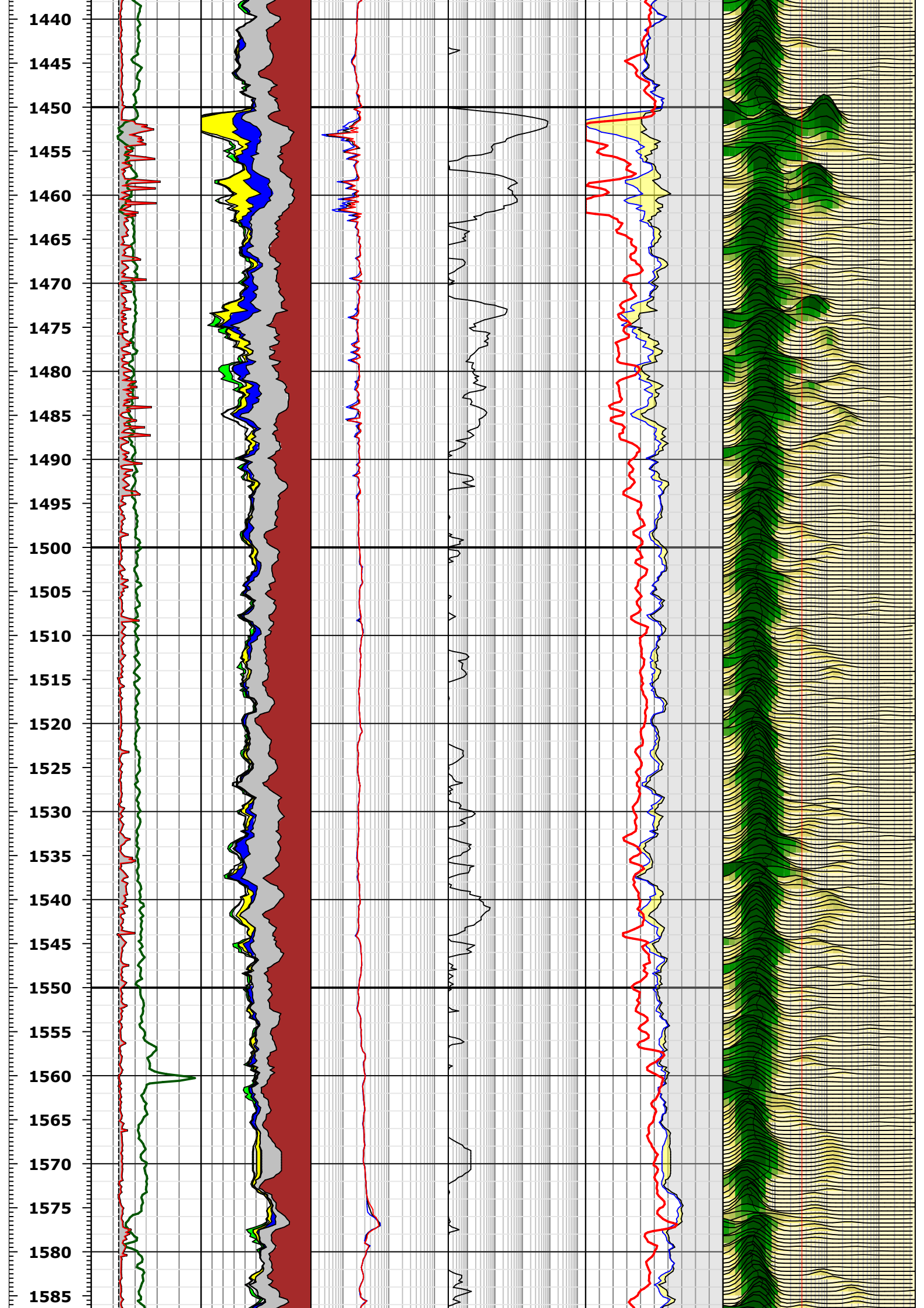
Remarks:

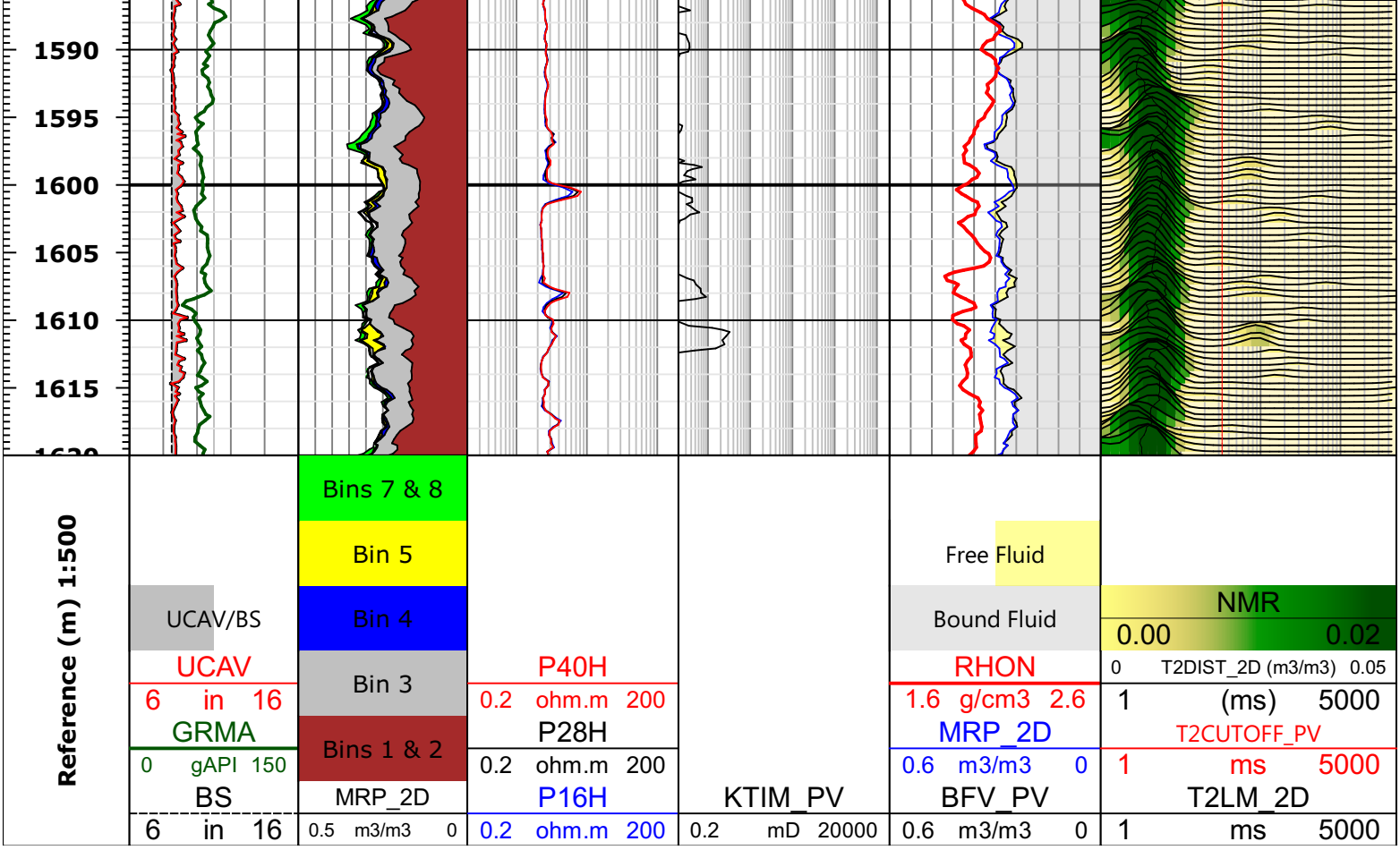
1. ProVision Plus processing results
2. Data may be affected by borehole condition


Reference (m)
UCAV/BS
UCAV
6 in 16
GRMA
0 gAPI 150
BS
6 in 16
Bin 4
Bin 3
Bins 1 & 2
MRP_2D
0.5 m3/m3 0
P40H
0.2 ohm.m 200
P28H
0.2 ohm.m 200
P16H
0.2 ohm.m 200
KTIM_PV
0.2 mD 20000
Bound Fluid
RHON
1.6 g/cm3 2.6
MRP_2D
0.6 m3/m3 0
BFV_PV
0.6 m3/m3 0
NMR
0.00 0.02
0 T2DIST_2D (m3/m3) 0.05
1 (ms) 5000
T2CUTOFF_PV
1 ms 5000
T2LM_2D
1 ms 5000
1015
1020
1025
1030
1035
1040
1045
1050
1055
1060
1065
1070
1075
1080
1085
1090
1095
1100
1105
1110
1115
1120
1125
1130
1135
1140


1145
1150
1155
1160
1165
1170
1175
1180
1185
1190
1195
1200
1205
1210
1215
1220
1225
1230
1235
1240
1245
1250
1255
1260
1265
1270
1275
1280
1285


1290
1295
1300
1305
1310
1315
1320
1325
1330
1335
1340
1345
1350
1355
1360
1365
1370
1375
1380
1385
1390
1395
1400
1405
1410
1415
1420
1425
1430
1435


1440
1445
1450
1455
1460
1465
1470
1475
1480
1485
1490
1495
1500
1505
1510
1515
1520
1525
1530
1535
1540
1545
1550
1555
1560
1565
1570
1575
1580
1585


1590
1595
1600
1605
1610
1615
Reference (m) 1:500
UCAV/BS
UCAV
6 in 16
GRMA
0 gAPI 150
BS
6 in 16
Bins 7 & 8
Bin 5
Bin 4
Bin 3
Bins 1 & 2
MRP_2D
0.5 m3/m3 0
P40H
0.2 ohm.m 200
P28H
0.2 ohm.m 200
P16H
0.2 ohm.m 200
KTIM_PV
0.2 mD 20000
Free Fluid
Bound Fluid
RHON
1.6 g/cm3 2.6
MRP_2D
0.6 m3/m3 0
BFV_PV
0.6 m3/m3 0
NMR
0.00 0.02
0 T2DIST_2D (m3/m3) 0.05
1 (ms) 5000
T2CUTOFF_PV
1 ms 5000
T2LM_2D
1 ms 5000

Acquisition & Calibration

Echo Amplitude MC:	358.819	Number Sub-Meas:	3
Frequency MC:	246.64 (kHz)	Number Echoes:	1500;64;32;0;0
Antenna Q MC:	128.809	Number Repeats:	1;32;64;0;0
Temperature MC:	26 (degC)	Echo Spacing:	1200;800;600;0;0 (us)
Loop MC:	631.558	Wait Time:	12.7751;0.048;0.016;0;0 (s)

Processing Parameters

Preprocessing

Stacking Levels:	11
Despike:	yes
Burst Baseline Corr:	no
Bend Ringing Corr:	no
Signal Phasing:	Auto

LQC Threshold Parameters

Polarization Corr Threshold:	0.015 (m3/m3)
Bad Hole Porosity:	0.4 (m3/m3)
Bad Hole T2:	10 (ms)

Inversion

T2 Minimum:	0.5 (ms)
T2 Maximum:	5000 (ms)
Inversion Components:	30
Interpolation:	64
Sub Measurements:	1;2;3
Start Echo:	2;2;2
EPM Processing:	Auto
T1/T2 Input:	1.5
Polarization Correction:	no
Regularization:	Manual
Regularization Factor:	0.2