VISION Resistivity

Gamma Ray - Resistivity

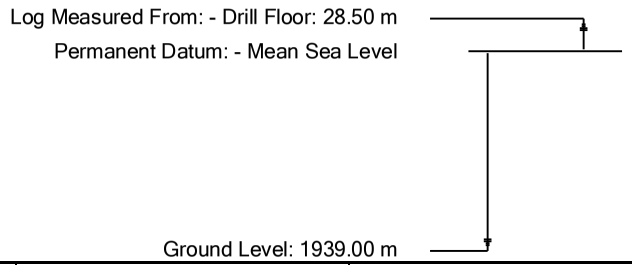
Schlumberger

Recorded Mode log, Measured Depth 1:500

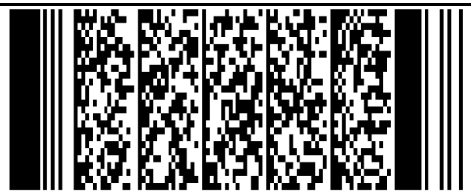
Company:	JAMSTEC
Well:	C0002Q
Field:	C0002
Rig Name:	D/V Chikyu
Prefecture:	Wakayama
Country:	Japan

Latitude:	33° 18' 3.042" N	UWID:	
Longitude:	136° 38' 12.174" E	Rig Name:	D/V Chikyu
Block:		Rig Type:	Drill ship

FL:	Pacific Ocean
FL1:	X = 652,382.39 m
FL2:	Y = 3,685,834.62 m



Acquisition Dates:	27-Nov-2018 -- 09-Dec-2018	Other Services:
Log Interval:	4890.00(m)MD -- 5230.30(m)MD	Direction and Inclination
Index Types:	Measured Depth	APWD
Index Scales:	1:500	
Depth Source:	Driller's Depth	
Depth Sensor:	DES	
Print Type:	Final	
Spud Date:	26-Oct-2018	

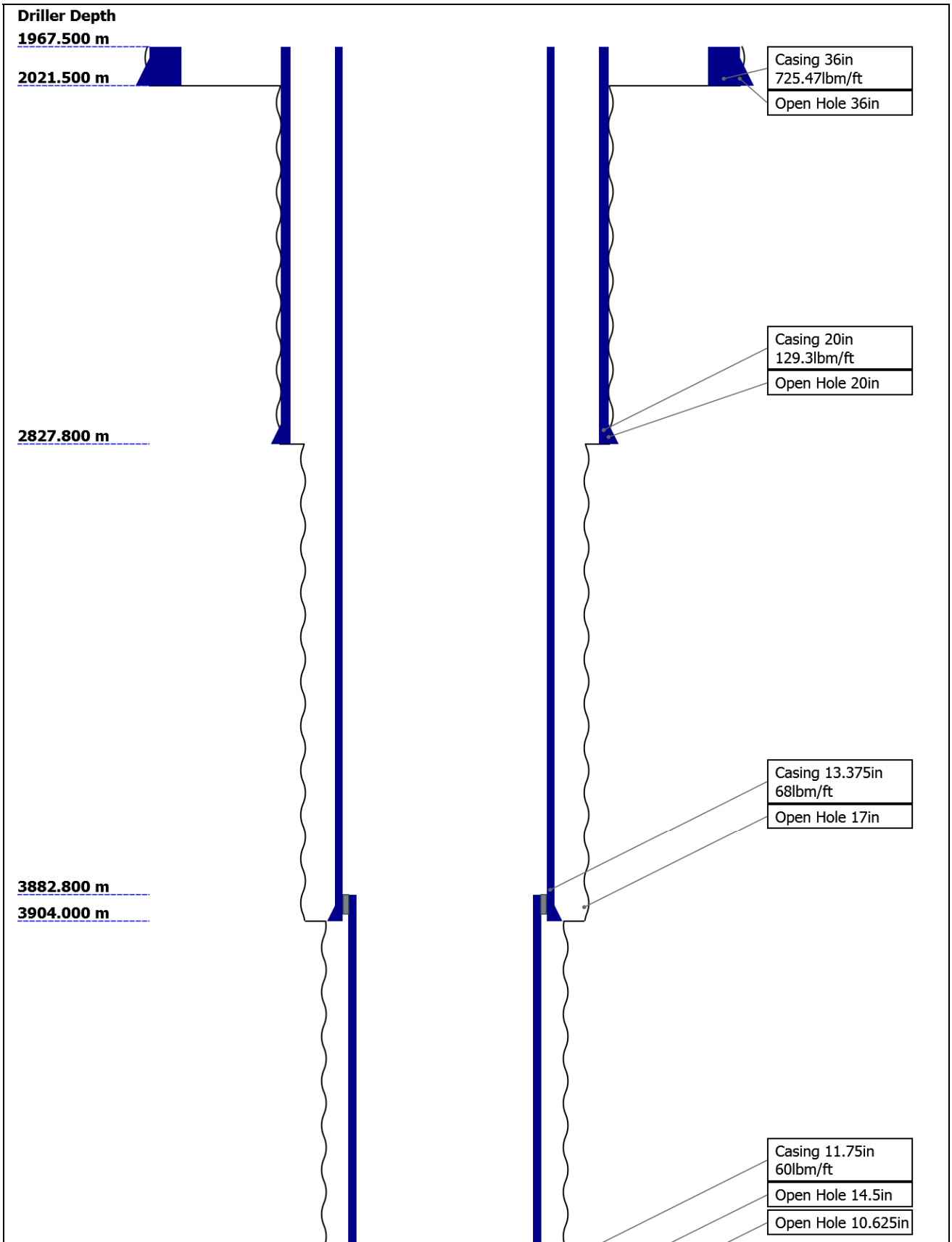


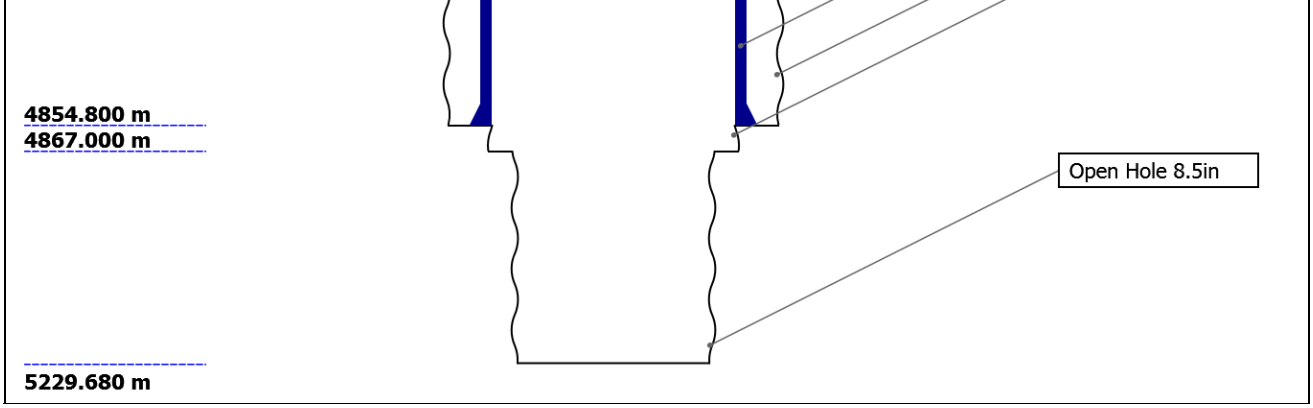
Country: Japan
Prefecture: Wakayama
Rig Name: D/V Chikyu
Field: C0002
Well: C0002Q
Company: JAMSTEC

Disclaimer

Contents

Well Sketch





Borehole Size/Casing Record

Bit						
Bit Size (in)	36	20	17	14.5	10.625	8.5
Top Driller (m)	1967.5	2021.5	2827.8	3904	4854.8	4867
Bottom Driller (m)	2021.5	2827.8	3904	4854.8	4867	5229.68
Casing						
Size (in)	36	20	13.375	11.75		
Weight (lbm/ft)	725.47	129.3	68	60		
Inner Diameter (in)	32.099	18.779	12.415	10.772		
Grade	X56	X56	N/A	N/A		
Top Driller (m)	1967.5	1967.5	1967.5	3882.8		
Bottom Driller (m)	2021.5	2827.8	3904	4854.8		

Operational Run Summary

Parameter (unit)	Run4					
Date Log Started	27-Nov-2018					
Time Log Started	09:36:32					
Date Log Finished	09-Dec-2018					
Time Log Finished	05:35:48					
Bit Size (in)	8.500					
Bit Start Depth (m)	4990.00					
Bit Stop Depth (m)	5229.68					
Top Log Interval (m)	4890.00					
Bottom Log Interval (m)	5225.38					
Max Hole Deviation (deg)	5.60					
Azimuth of Max Deviation (deg)	57.81					
Logging Unit Number	OLU-MB 8054					
Logging Unit Location	Zone2					
Recorded By	SMoriyama/SMurakami/KBian					
Witnessed By	YSanada/YKido					
Service Order Number	18JAP0007					

Borehole Fluids

Borehole Fluids

Parameter(unit)	Run4					
Fluid Type	Water					
Max Recorded Temperatures (degC)	64.1					
Source of Sample	Active Tank					
Salinity (ppm)	141288.5					
Density (g/cm3)	1.37					
Funnel Viscosity (s)	66					
Fluid Loss (cm3)	2.5					
PH	9.9					
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp (ohm.m@degC)	0.06 @ 21.1					
RMF @ Meas Temp (ohm.m@degC)	0.05 @ 20.2					
RMC @ Meas Temp (ohm.m@degC)	0.09 @ 19.8					
RM @ BHT (ohm.m@degC)	0.04 @ 43					
RMF @ BHT (ohm.m@degC)	0.03 @ 43					
RMC @ BHT (ohm.m@degC)	0.06 @ 43					
Total Solid (%)	16.5					
High Gravity Solids (%)	0					

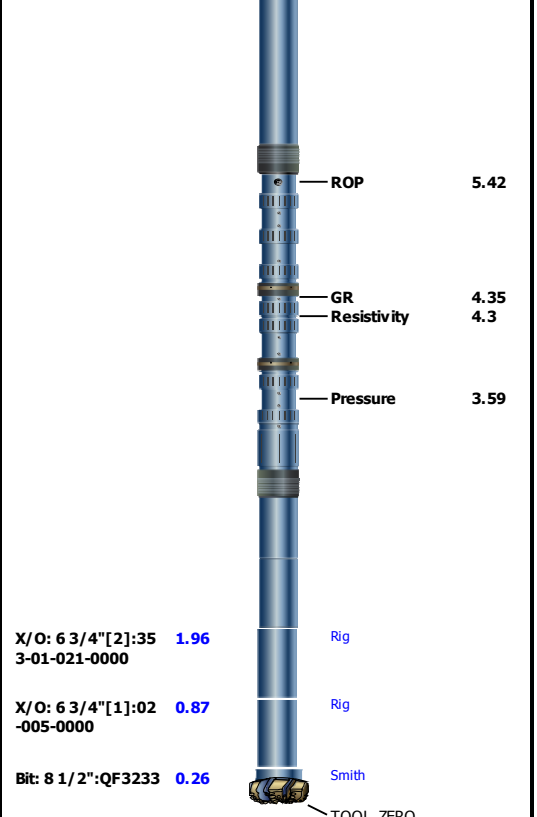
Remarks and Equipment Summary

Run4: Toolstring

Equip name	Length	MP name	Offset
TELE675-IWOB:B1755	16.16	Schlumberger	
		D&I	11.84
		GR	11.19
		ROP	9.49
		IWOB	8.47
ARC6:G8274-1	7.65	Schlumberger	

Run4: Remarks

- Depth Reference is driller's depth measured from Rotary Table.
- Data presented is Recorded Mode data which was acquired while drilling.
- Gamma Ray measurement is corrected for bit size, mud weight, tool collar size and potassium content (1.53%) in the mud.
- Resistivity measurement is borehole compensated and environmentally corrected for hole size and mud resistivity.
- Reason of POOH: Low Penetration Rate.
- Drilling Time: 93.94 hrs.
- Pumping Time: 230.76 hrs.



Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	0.90 deg		

Rig Location

Latitude :	33° 18' 3.042" N	Longitude :	136° 38' 12.174" E

Tie In Point

Measured Depth:	4853.87 m	Inclination:	1.64 deg	Azimuth:	90.69 deg
True Vertical Depth:	4852.02 m	North Displacement:	-0.27 m	East Displacement:	49.95 m
N/-S VSec Origin:	0.00 m	E/-W VSec Origin:	0.00 m	Vertical Section Azimuth:	90.28 deg

D&I Inits Computed and Values Used - Run5

Geomagnetic Model :	HDGM 2018	Geomagnetic Date :	17-Nov-2018
Computed Location B :	46164.86 nT +/- 300.00nT	Used Location B :	46164.86 nT +/- 300.00nT
Computed Location G :	998.92 mgn +/- 2.50mgn	Used Location G :	998.92 mgn +/- 2.50mgn
Computed Magnetic Dip :	47.02 deg +/- 0.45deg	Used Magnetic Dip :	47.02 deg +/- 0.45deg
Computed Magnetic Dec :	-7.16 deg	Used Magnetic Dec :	-7.16 deg
Computed Total Correction :	-8.06 deg	Used Total Correction :	-8.06 deg

Survey Quality Index

2 : Long Survey failed mag criteria 28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/30m	Tool Type	QI	CI	DI
1	4853.87	1.64	90.69	- - - -	4852.02	49.95	-0.27	49.95	49.95	90.31	0.00	TIP	28	0	0
2	4870.63	3.61	138.88	16.76	4868.77	50.54	-0.67	50.54	50.54	90.76	5.00	TeleScope	2	0	0
3	4882.77	3.16	140.86	12.13	4880.88	51.00	-1.22	51.00	51.01	91.37	1.14	TeleScope	2	0	0
4	4897.67	0.64	145.72	14.91	4895.77	51.31	-1.60	51.30	51.33	91.79	5.07	TeleScope	2	0	0
5	4908.67	0.96	50.36	11.00	4906.77	51.42	-1.60	51.41	51.44	91.78	3.28	TeleScope	2	0	0

Run4

Run_4 LWD Log

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100
Application Patch	DnM_TestKit-PD-DHS31-2018-2_8.2.104864

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run4	Ream Down 3	Down	4894.35 m	4989.98 m	30-Nov-2018 4:29:32 AM	02-Dec-2018 11:25:02 PM	Yes
Run4	Drilling	Down	4989.60 m	5229.66 m	27-Nov-2018 9:36:32 AM	09-Dec-2018 5:35:48 AM	Yes

All depths are referenced to toolstring zero

Log

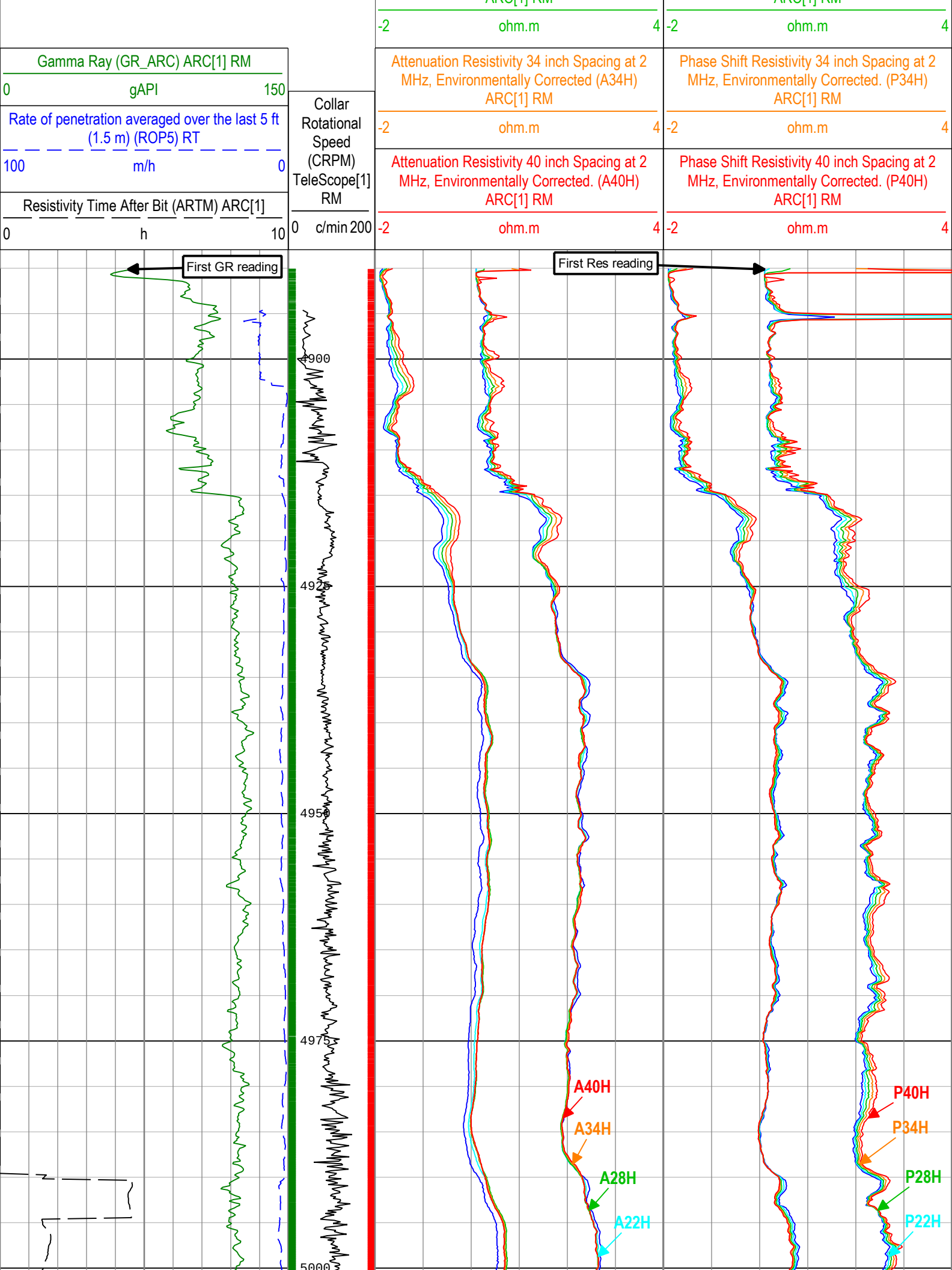
Company:JAMSTEC Well:C0002Q Run4:S120

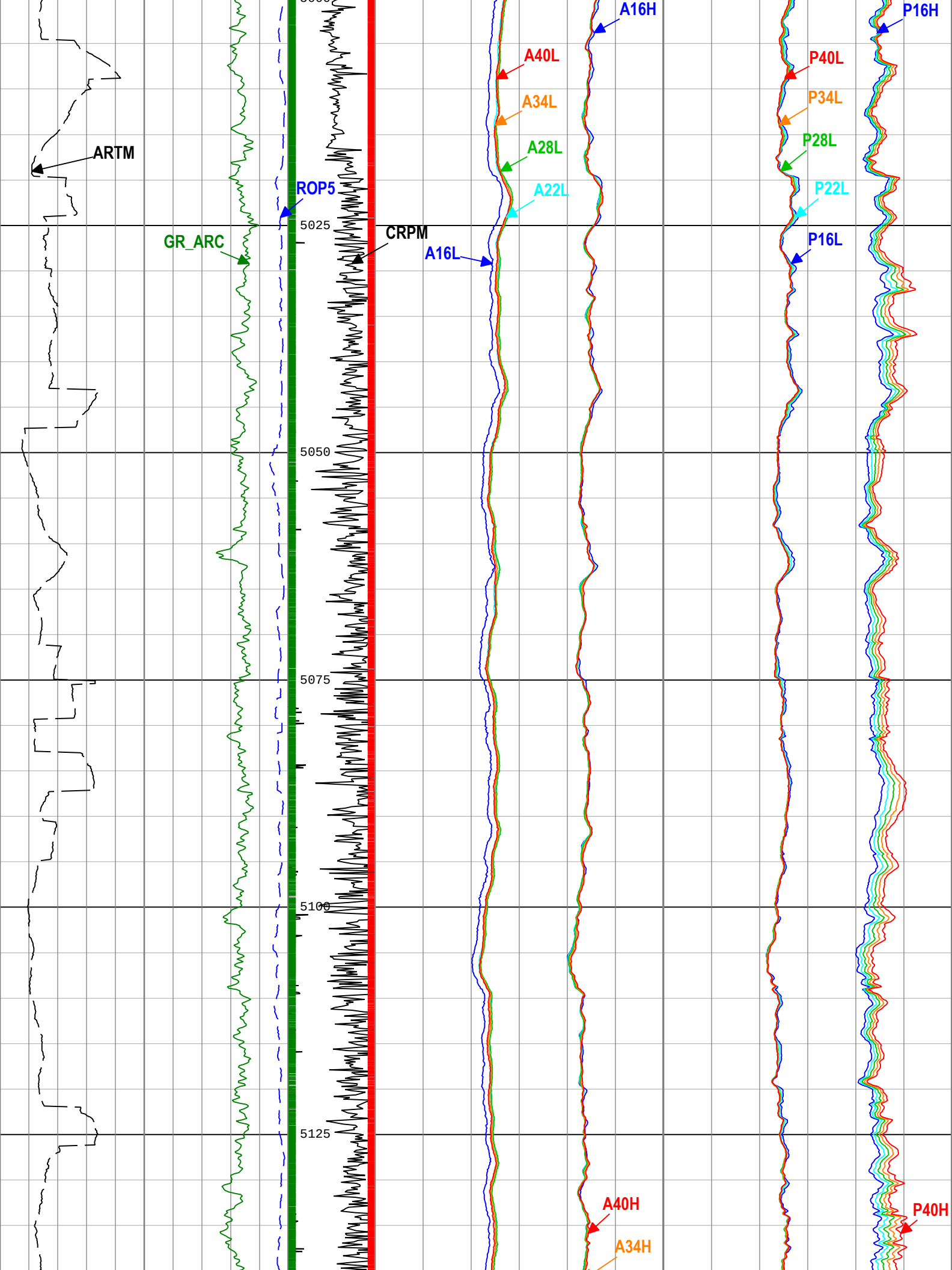
Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity MD) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth
Creation Date: 28-Feb-2019 17:33:32

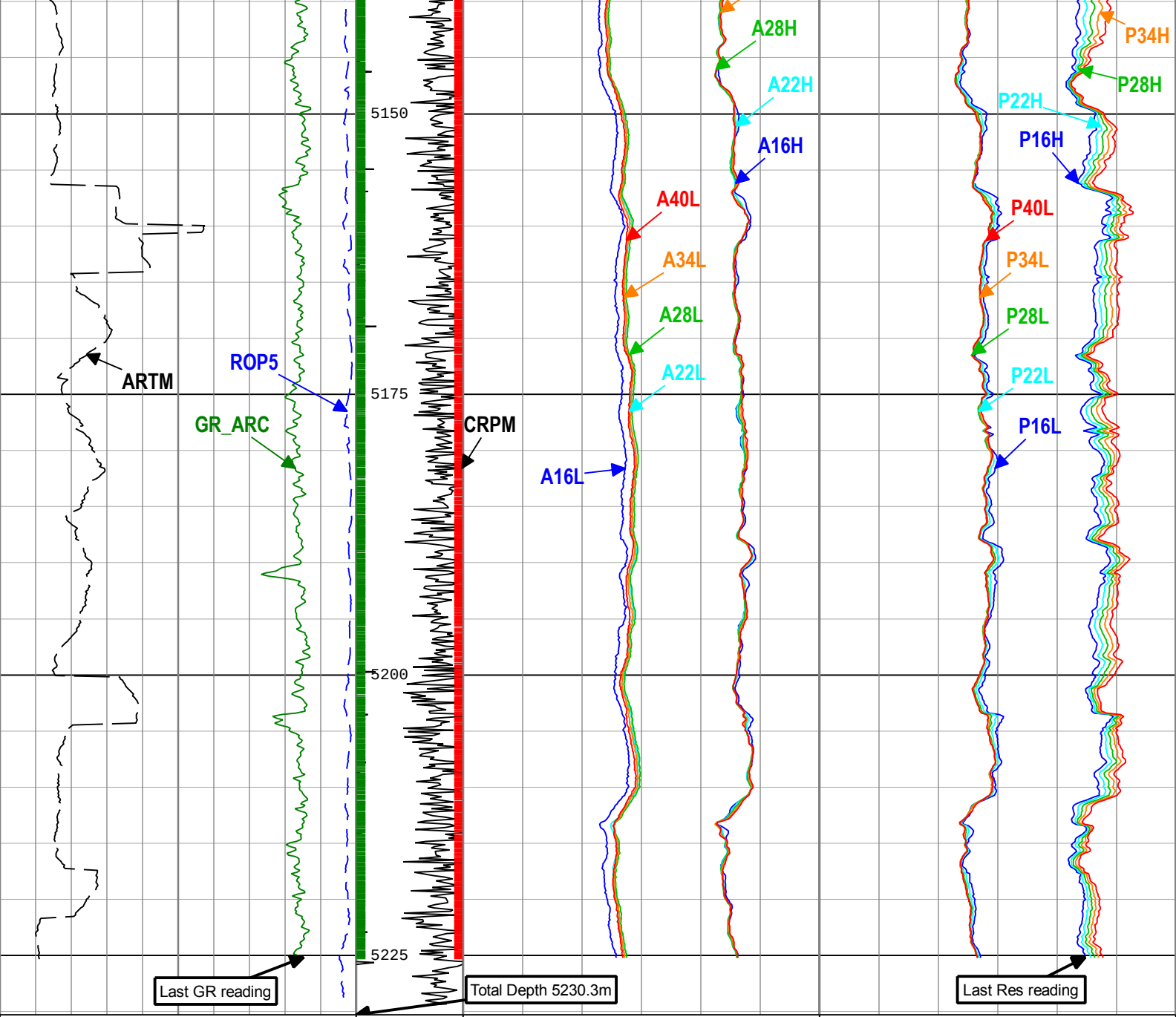
TICK_ARC_GR - Gamma Ray Tick Marks ARC[1] RM

TICK_ARC_RES - Resistivity Tick Marks ARC[1] RM

Attenuation Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected (A16L) ARC[1] RM 0 ohm.m 6	Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM 0 ohm.m 6
Attenuation Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected (A22L) ARC[1] RM 0 ohm.m 6	Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM 0 ohm.m 6
Attenuation Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected (A28L) ARC[1] RM 0 ohm.m 6	Phase Shift Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected. (P28L) ARC[1] RM 0 ohm.m 6
Attenuation Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected (A34L) ARC[1] RM 0 ohm.m 6	Phase Shift Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected. (P34L) ARC[1] RM 0 ohm.m 6
Attenuation Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected (A40L) ARC[1] RM 0 ohm.m 6	Phase Shift Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected. (P40L) ARC[1] RM 0 ohm.m 6
Attenuation Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected (A16H) ARC[1] RM -2 ohm.m 4	Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) ARC[1] RM -2 ohm.m 4
Attenuation Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected (A22H) ARC[1] RM -2 ohm.m 4	Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) ARC[1] RM -2 ohm.m 4
Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) ARC[1] RM	Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM


-2
ohm.m
4
Gamma Ray (GR_ARC) ARC[1] RM
0
gAPI
150
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100
m/h
0
Resistivity Time After Bit (ARTM) ARC[1]
0
h
10
Collar Rotational Speed (CRPM) TeleScope[1] RM
0
c/min
200
Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) ARC[1] RM
Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) ARC[1] RM
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) ARC[1] RM
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) ARC[1] RM
First GR reading
First Res reading
4900
4925
4950
4975
5000
A40H
A34H
A28H
A22H
P40H
P34H
P28H
P22H


ARTM
ROP5
GR_ARC
CRPM
A16L
A16H
A40L
A34L
A28L
A22L
P40L
P34L
P28L
P22L
P16L
P16H
5025
5050
5075
5100
5125
A40H
A34H
P40H



Gamma Ray (GR_ARC) ARC[1] RM

0 gAPI 150

Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT

100 m/h 0

Resistivity Time After Bit (ARTM) ARC[1]

0 h 10

Collar Rotational Speed (CRPM) TeleScope[1] RM

0 c/min 200

Attenuation Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected (A16L) ARC[1] RM

0 ohm.m 6

Attenuation Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected (A22L) ARC[1] RM

0 ohm.m 6

Attenuation Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected (A28L) ARC[1] RM

0 ohm.m 6

Attenuation Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected (A34L) ARC[1] RM

0 ohm.m 6

Attenuation Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected (A40L) ARC[1]

Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM

0 ohm.m 6

Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM

0 ohm.m 6

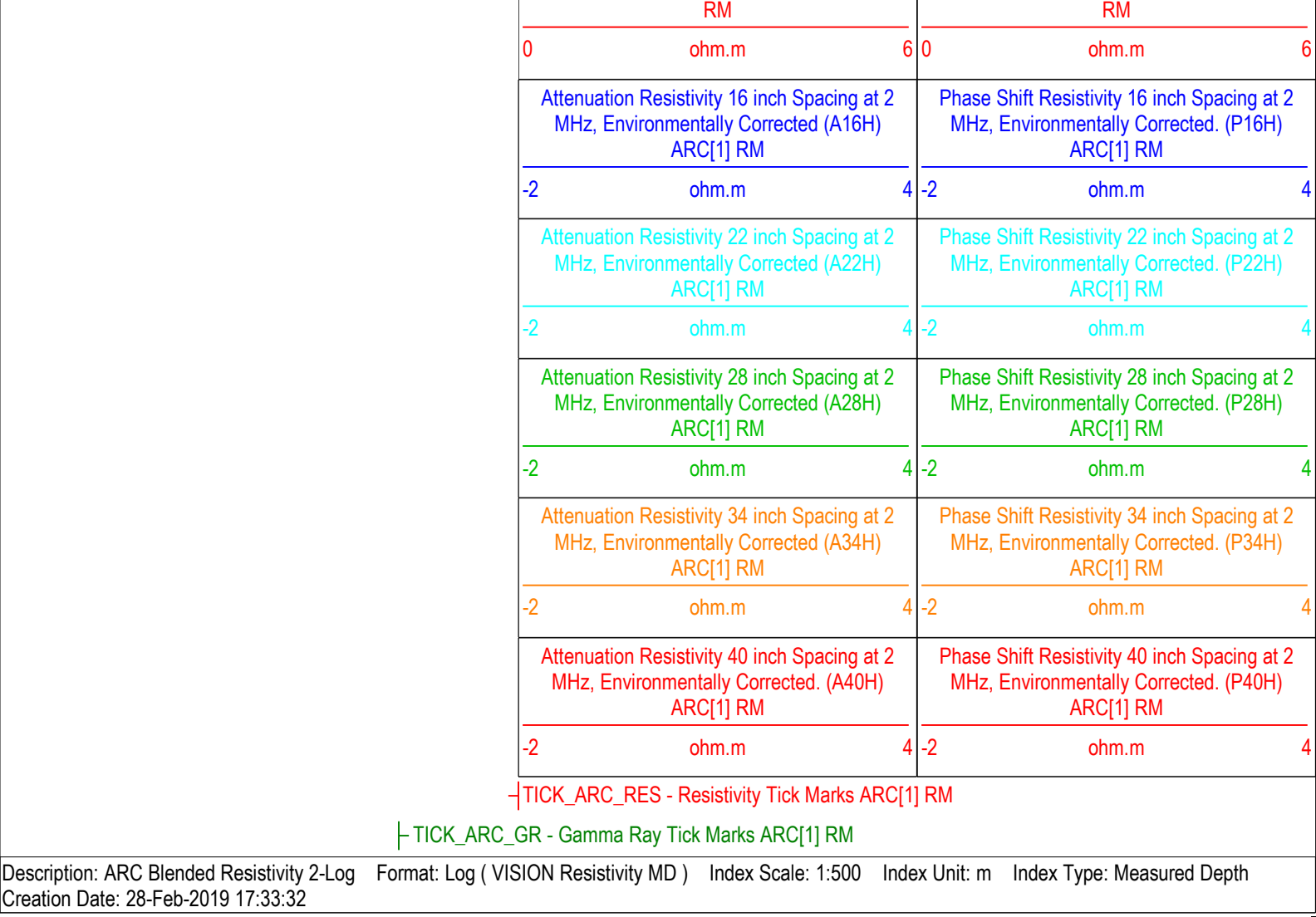
Phase Shift Resistivity 28 inch Spacing at 400 KHz, Environmentally Corrected. (P28L) ARC[1] RM

0 ohm.m 6

Phase Shift Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected. (P34L) ARC[1] RM

0 ohm.m 6

Phase Shift Resistivity 40 inch Spacing at 400 KHz, Environmentally Corrected. (P40L) ARC[1]



Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity MD) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth
Creation Date: 28-Feb-2019 17:33:32

Channel Processing Parameters

Run4: Parameters

Parameter	Description	Tool	Value	Unit
ABNT	Abnormal Transmitter Indicator	ARC6	NO_TX_FAILED	
BHK	Drilling Fluid Potassium Concentration	Borehole	1.53	%
BS	Bit Size	DNMSESSION	8.5	in
DFD	Drilling Fluid Density	Borehole	1.37	g/cm3
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
HIGH_BLEND	High Resistivity Threshold for Blending	ARC6	2	ohm.m
LOW_BLEND	Low Resistivity Threshold for Blending	ARC6	1	ohm.m
RMS	Resistivity of Mud Sample	Borehole	0.06	ohm.m

Tool Control Parameters

Run4

Run_4 DML

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100
Application Patch	DnM_TestKit-PD-DHS31-2018-2_8.2.104864

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run4	Ream Down 3	Down	4894.35 m	4989.98 m	30-Nov-2018	02-Dec-2018	Yes

					4:29:32 AM	11:25:02 PM	
Run4	Drilling	Down	4989.60 m	5229.66 m	27-Nov-2018 9:36:32 AM	09-Dec-2018 5:35:48 AM	Yes

All depths are referenced to toolstring zero

Log

Company:JAMSTEC Well:C0002Q Run4:S120

Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 28-Feb-2019 17:33:35

Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
50 m/h 0

Standpipe Pressure (SPPA) RT
0 MPa 30

Total flow rate of all active pumps (TFLO) RT
0 gal/min 1000

CRPM_Tele Scope
0 c/min 200

Stick Slip Indicator (STICKNSLIP) TeleScope[1] RM
0 c/min 400

Downhole Annulus Pressure (APRS_ARC) ARC[1] RM
0 MPa 80

Downhole Annulus Temperature (ATMP) ARC[1] RM
0 degC 100

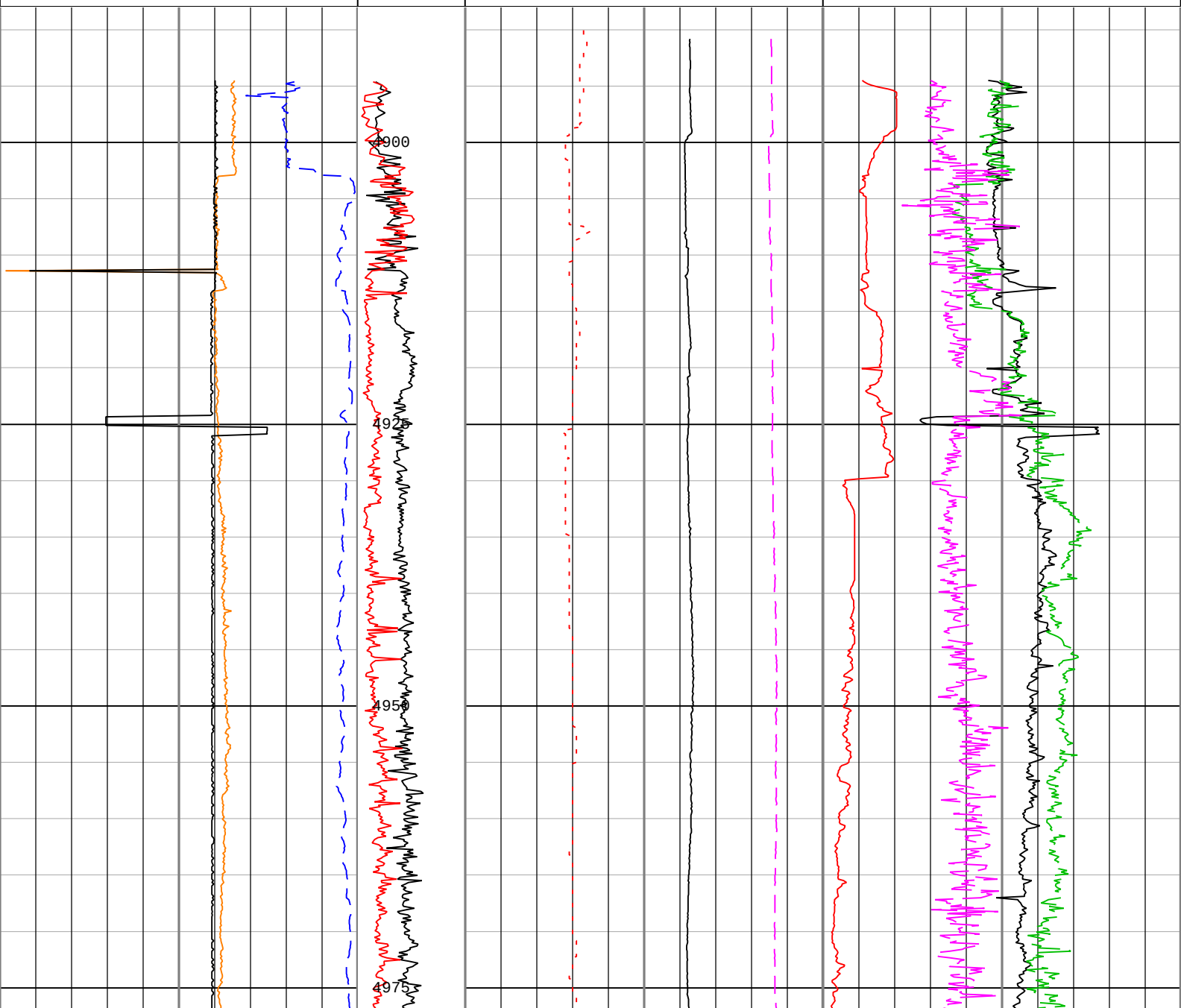
Equivalent Circulating Density (ECD_ARC) ARC[1] RM
0.8 g/cm3 1.8

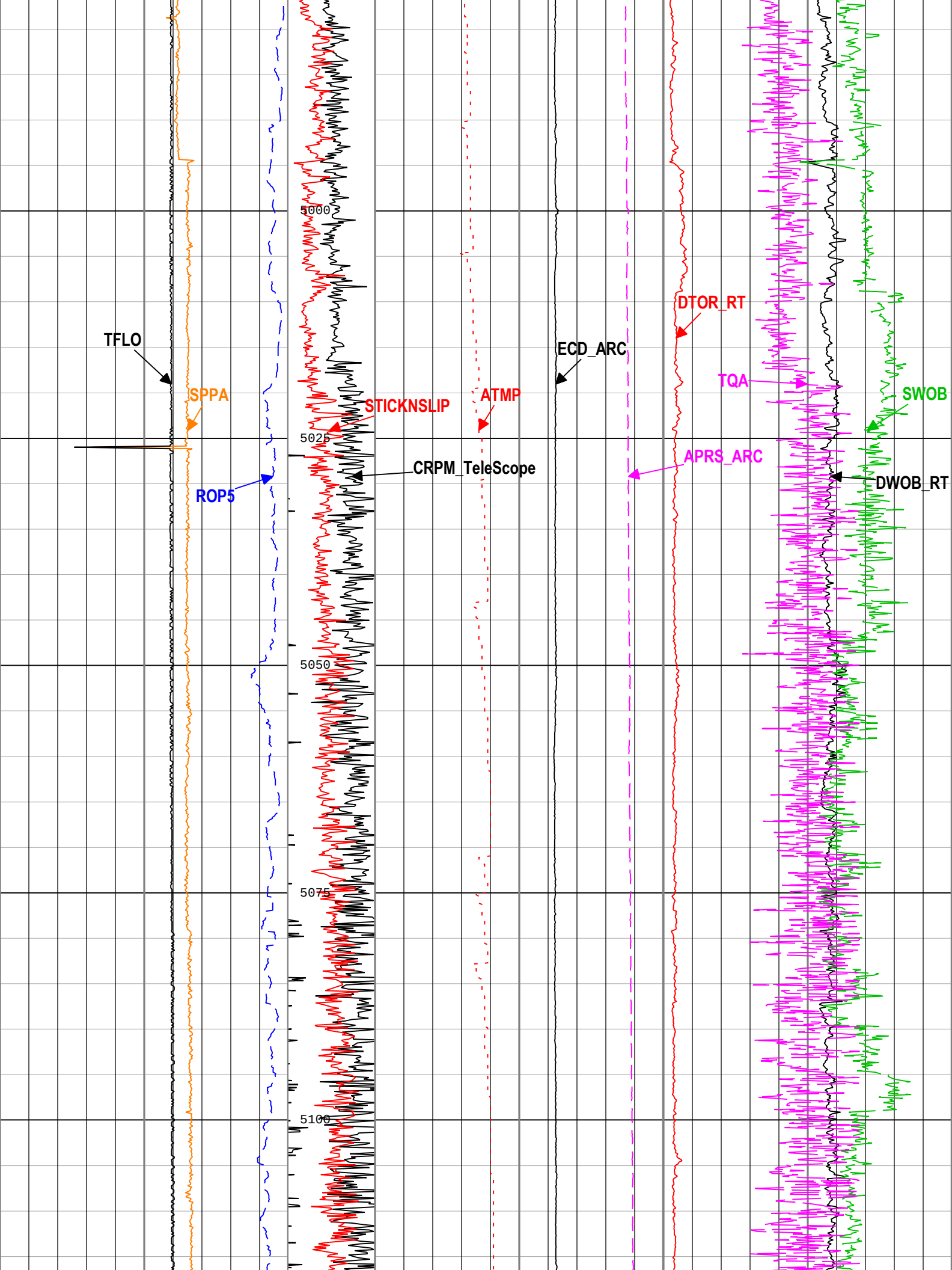
Downhole Weight on Bit (DWOB_RT) TeleScope[1] RT
-300 kN 300

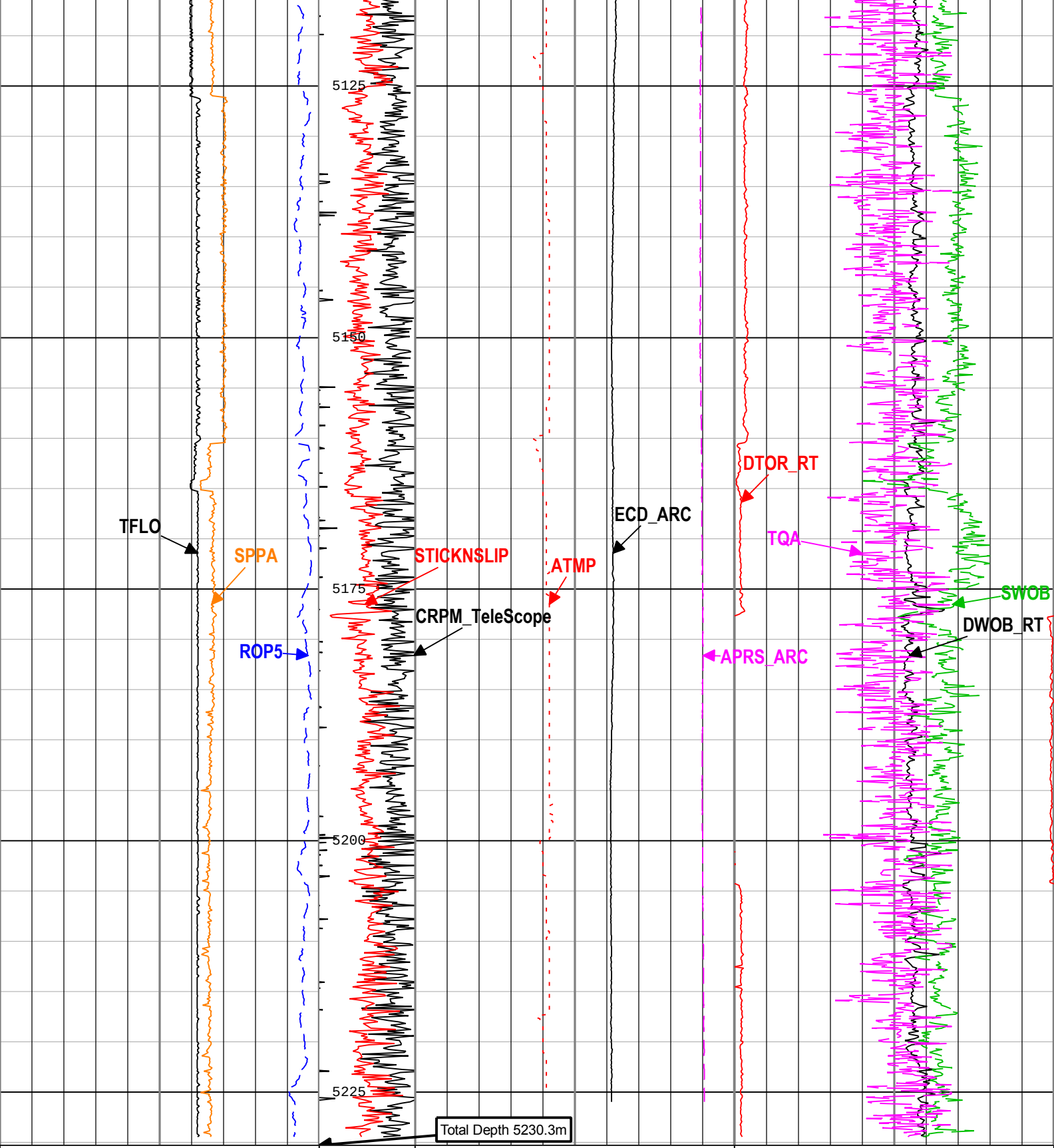
Surface Weight On Bit (SWOB) RT
-300 kN 300

Surface Torque (TQA) RT
0 kN.m 50

Downhole Torque (MWD) (DTOR_RT) TeleScope[1] RT
0 kN.m 50




5000
5025
5050
5075
5100
TFLO
SPPA
ROP5
STICKNSLIP
ATMP
CRPM_TeleScope
ECD_ARC
APRS_ARC
DTOR_RT
TQA
SWOB
DWOB_RT



Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 50 m/h 0	CRPM_Tele Scope 0 c/min 200	Downhole Annulus Pressure (APRS_ARC) ARC[1] RM 0 MPa 80	Downhole Weight on Bit (DWOB_RT) TeleScope[1] RT -300 kN 300
Standpipe Pressure (SPPA) RT 0 MPa 30	Stick Slip Indicator (STICKNSLIP) TeleScope[1] RM	Downhole Annulus Temperature (ATMP) ARC[1] RM 0 degC 100	Surface Weight On Bit (SWOB) RT -300 kN 300
Total flow rate of all active pumps (TFLO) RT 0 gal/min 1000	0 c/min 400	Equivalent Circulating Density (ECD_ARC) ARC[1] RM 0.8 g/cm3 1.8	Surface Torque (TQA) RT 0 kN.m 50
			Downhole Torque (MWD) (DTOR_RT) TeleScope[1] RT

Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:500 Index Unit: m Index Type: Measured Depth Creation Date: 28-Feb-2019 17:33:35

Channel Processing Parameters

Run4: Parameters

Parameter	Description	Tool	Value	Unit
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.37	g/cm3
FLEV	Depth of Drilling Fluid Level to LMF (Log Measured From)	Borehole	3	m
RHO_SEAWATER	Density of the Sea Water	Borehole	1.022	g/cm3
SF_FLAG	Mud Return to Sea Floor (No Riser)?	Borehole	No	

Tool Control Parameters

Run4: Parameters

Parameter	Description	Tool	Value	Unit
DTOF	DTOR Offset	TELE675-IWOB	Time Zoned	kN.m
DWOB_BETA	DWOB Beta Pressure Correction Factor	TELE675-IWOB	Time Zoned	
DWOF	DWOB Offset	TELE675-IWOB	Time Zoned	kN
DWOB_ZEROTOOLP	DWOB Differential Pressure Drop at Zero Weight-on-Bit	TELE675-IWOB	Time Zoned	MPa
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DNMSESSION	0.4	m

Run4Time Zoned Parameters

Pass Drilling

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
DTOF	-26.97	27-Nov-2018 09:36:32	03-Dec-2018 09:20:58	4989.601	5008.905
DTOF	-27.58	03-Dec-2018 09:20:58	04-Dec-2018 04:10:14	5008.905	5047.285
DTOF	-27.46	04-Dec-2018 04:10:14	05-Dec-2018 00:42:02	5047.285	5094.783
DTOF	-27.58	05-Dec-2018 00:42:02	06-Dec-2018 03:52:29	5094.783	5164.125
DTOF	-26.97	06-Dec-2018 03:52:29	06-Dec-2018 04:32:05	5164.125	5164.125
DTOF	-27.09	06-Dec-2018 04:32:05	07-Dec-2018 02:56:52	5164.125	5204.384
DTOF	-25.62	07-Dec-2018 02:56:52	09-Dec-2018 05:35:48	5204.384	5229.657
DWOB_BETA	2.77	27-Nov-2018 09:36:32	03-Dec-2018 09:24:48	4989.601	5008.905
DWOB_BETA	2.98	03-Dec-2018 09:24:48	04-Dec-2018 04:13:57	5008.905	5047.285
DWOB_BETA	2.96	04-Dec-2018 04:13:57	04-Dec-2018 04:14:34	5047.285	5047.285
DWOB_BETA	2.96	04-Dec-2018 04:14:34	05-Dec-2018 00:45:59	5047.285	5094.783
DWOB_BETA	2.97	05-Dec-2018 00:45:59	06-Dec-2018 03:57:07	5094.783	5164.125
DWOB_BETA	2.75	06-Dec-2018 03:57:07	06-Dec-2018 03:57:45	5164.125	5164.125
DWOB_BETA	2.77	06-Dec-2018 03:57:45	06-Dec-2018 03:57:51	5164.125	5164.125
DWOB_BETA	2.77	06-Dec-2018 03:57:51	06-Dec-2018 03:58:16	5164.125	5164.125
DWOB_BETA	2.78	06-Dec-2018 03:58:16	07-Dec-2018 03:01:07	5164.125	5204.384
DWOB_BETA	2.68	07-Dec-2018 03:01:07	07-Dec-2018 03:03:47	5204.384	5204.384
DWOB_BETA	2.67	07-Dec-2018 03:03:47	07-Dec-2018 12:13:02	5204.384	5221.656
DWOB_BETA	2.75	07-Dec-2018 12:13:02	09-Dec-2018 05:35:48	5221.656	5229.657
DWOF	-531.56	27-Nov-2018 09:36:32	03-Dec-2018 09:24:48	4989.601	5008.905
DWOF	-536.01	03-Dec-2018 09:24:48	06-Dec-2018 03:57:45	5008.905	5164.125
DWOF	-538.23	06-Dec-2018 03:57:45	06-Dec-2018 03:57:51	5164.125	5164.125

DWOF	-536.01	06-Dec-2018 03:57:51	07-Dec-2018 03:01:07	5164.125	5204.384
DWOF	-533.79	07-Dec-2018 03:01:07	07-Dec-2018 03:03:47	5204.384	5204.384
DWOF	-531.56	07-Dec-2018 03:03:47	09-Dec-2018 05:35:48	5204.384	5229.657
DWOB_ZEROTOOLP	4.91	27-Nov-2018 09:36:32	03-Dec-2018 09:24:48	4989.601	5008.905
DWOB_ZEROTOOLP	4.91	03-Dec-2018 09:24:48	04-Dec-2018 04:13:57	5008.905	5047.285
DWOB_ZEROTOOLP	4.93	04-Dec-2018 04:13:57	04-Dec-2018 04:14:34	5047.285	5047.285
DWOB_ZEROTOOLP	4.93	04-Dec-2018 04:14:34	05-Dec-2018 00:45:59	5047.285	5094.783
DWOB_ZEROTOOLP	4.99	05-Dec-2018 00:45:59	06-Dec-2018 03:57:07	5094.783	5164.125
DWOB_ZEROTOOLP	5.21	06-Dec-2018 03:57:07	06-Dec-2018 03:57:45	5164.125	5164.125
DWOB_ZEROTOOLP	5.22	06-Dec-2018 03:57:45	06-Dec-2018 03:57:51	5164.125	5164.125
DWOB_ZEROTOOLP	5.22	06-Dec-2018 03:57:51	06-Dec-2018 03:58:16	5164.125	5164.125
DWOB_ZEROTOOLP	5.22	06-Dec-2018 03:58:16	07-Dec-2018 03:01:07	5164.125	5204.384
DWOB_ZEROTOOLP	5.36	07-Dec-2018 03:01:07	07-Dec-2018 03:03:47	5204.384	5204.384
DWOB_ZEROTOOLP	5.26	07-Dec-2018 03:03:47	07-Dec-2018 12:13:02	5204.384	5221.656
DWOB_ZEROTOOLP	5.36	07-Dec-2018 12:13:02	09-Dec-2018 05:35:48	5221.656	5229.657

Pass Ream Down 3

DTOF	-20.87	30-Nov-2018 04:29:32	01-Dec-2018 09:01:40	4894.411	4929.886
DTOF	-26.72	01-Dec-2018 09:01:40	02-Dec-2018 03:59:46	4929.886	4967.122
DTOF	-26.97	02-Dec-2018 03:59:46	02-Dec-2018 23:25:02	4967.122	4989.966
DWOB_BETA	3.36	30-Nov-2018 04:29:32	01-Dec-2018 09:04:35	4894.411	4929.886
DWOB_BETA	2.72	01-Dec-2018 09:04:35	02-Dec-2018 04:02:45	4929.886	4967.122
DWOB_BETA	2.77	02-Dec-2018 04:02:45	02-Dec-2018 23:25:02	4967.122	4989.966
DWOF	-564.92	30-Nov-2018 04:29:32	01-Dec-2018 09:04:35	4894.411	4929.886
DWOF	-531.56	01-Dec-2018 09:04:35	02-Dec-2018 23:25:02	4929.886	4989.966
DWOB_ZEROTOOLP	2.76	30-Nov-2018 04:29:32	01-Dec-2018 09:04:35	4894.411	4929.886
DWOB_ZEROTOOLP	4.91	01-Dec-2018 09:04:35	02-Dec-2018 04:02:45	4929.886	4967.122
DWOB_ZEROTOOLP	4.91	02-Dec-2018 04:02:45	02-Dec-2018 23:25:02	4967.122	4989.966

All depth are at tool zero.

Calibration Report

ARC6 (Array Resistivity Compensated 675) Calibration - Run Run4

Primary Equipment :

Elec. Chassis HP with AIM Receiver AREA 208

RESAIRCAL - Resistivity: Air

Master (Time Frame File): 23:57:48 28-Oct-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Attenuation T1 at 2 MHz	dB	Master	8.500	6.500	8.223	10.500
Attenuation T2 at 2 MHz	dB	Master	6.500	4.500	6.736	8.500
Attenuation T3 at 2 MHz	dB	Master	4.500	2.500	4.846	6.500
Attenuation T4 at 2 MHz	dB	Master	4.600	2.600	4.648	6.600
Attenuation T5 at 2 MHz	dB	Master	3.600	1.600	3.403	5.600
Phase Shift T1 at 2 MHz	deg	Master	0.100	-3.900	0.005	4.100
Phase Shift T2 at 2 MHz	deg	Master	0.100	-3.900	0.026	4.100
Phase Shift T3 at 2 MHz	deg	Master	0.100	-3.900	-0.057	4.100
Phase Shift T4 at 2 MHz	deg	Master	0.100	-3.900	0.019	4.100
Phase Shift T5 at 2 MHz	deg	Master	0.100	-3.900	-0.048	4.100
Attenuation T1 at 400 KHz	dB	Master	8.500	6.500	8.189	10.500
Attenuation T2 at 400 KHz	dB	Master	6.500	4.500	6.784	8.500
Attenuation T3 at 400 KHz	dB	Master	4.500	2.500	4.802	6.500

Attenuation T4 at 400 KHz	dB	Master	4.600	2.600	4.679	6.600	
Attenuation T5 at 400 KHz	dB	Master	3.600	1.600	3.367	5.600	
Phase Shift T1 at 400 KHz	deg	Master	0.100	-3.900	1.036	4.100	
Phase Shift T2 at 400 KHz	deg	Master	0.100	-3.900	-1.137	4.100	
Phase Shift T3 at 400 KHz	deg	Master	0.100	-3.900	1.070	4.100	
Phase Shift T4 at 400 KHz	deg	Master	0.100	-3.900	-1.108	4.100	
Phase Shift T5 at 400 KHz	deg	Master	0.100	-3.900	1.054	4.100	

GRGAIN - Gamma Ray: Blanket

Master (Time Frame File): 18:58:13 29-Oct-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.000	0.580	1.119	1.250	

Company: JAMSTEC

Well: C0002Q

Field: C0002

Rig Name: D/V Chikyu

Prefecture: Wakayama

Country: Japan

Schlumberger

VISION Resistivity

Gamma Ray - Resistivity

Recorded Mode log, Measured Depth 1:500