VISION Resistivity

Gamma Ray - Resistivity

Schlumberger

C0002R Run4, Recorded Mode Log, TVDSS 1:500

Company:	JAMSTEC
Well:	C0002R
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

Log Measured From: - Drill Floor: 28.50 m

Permanent Datum: - Mean Sea Level

Ground Level: 1939.00 m

Acquisition Dates:	10-Jan-2019 -- 11-Jan-2019	Other Services:
Log Interval:	4766.31(m)MD -- 4833.82(m)MD	Direction and Inclination
Index Types:	SSTVD	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: C0002R
Company: JAMSTEC

Disclaimer

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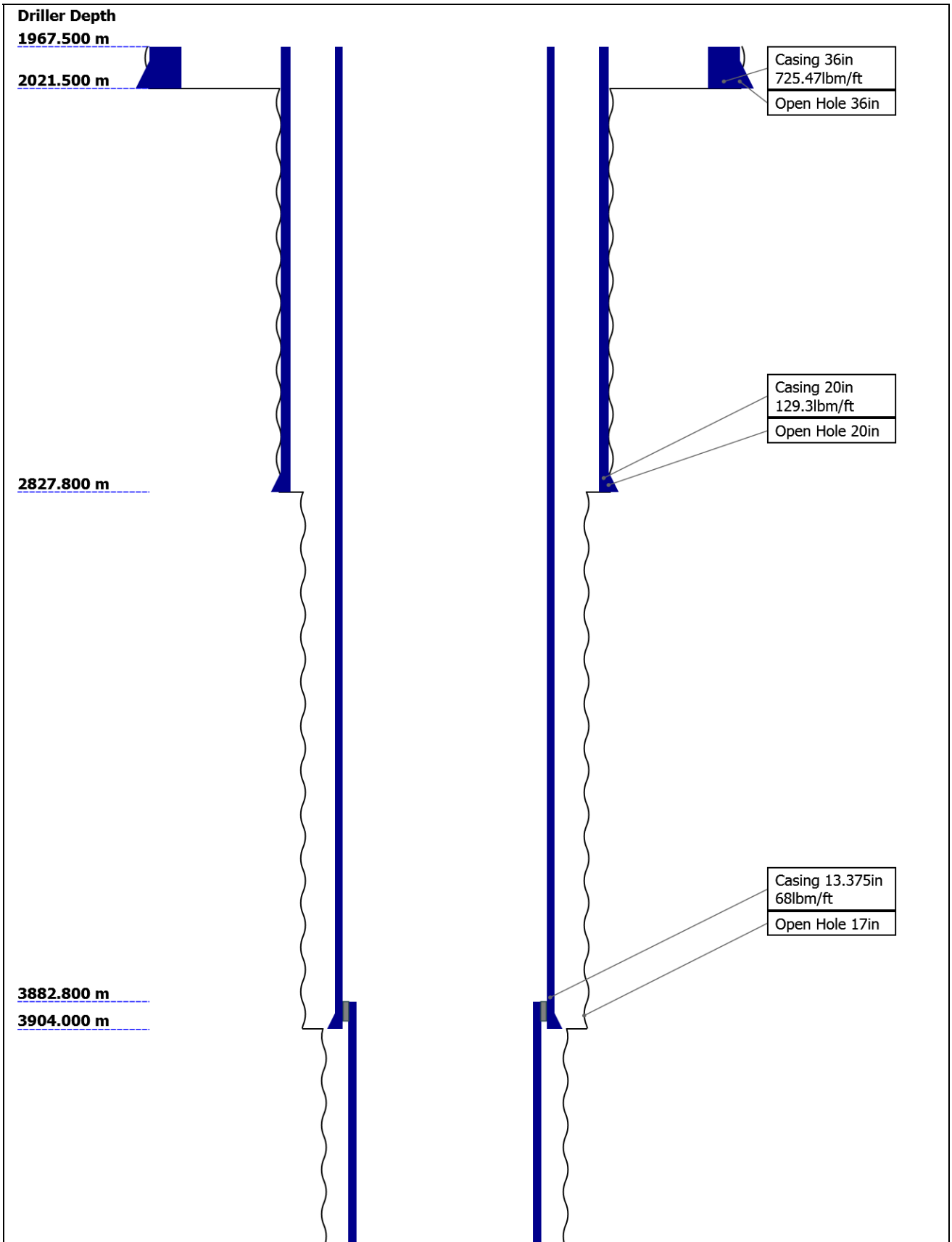
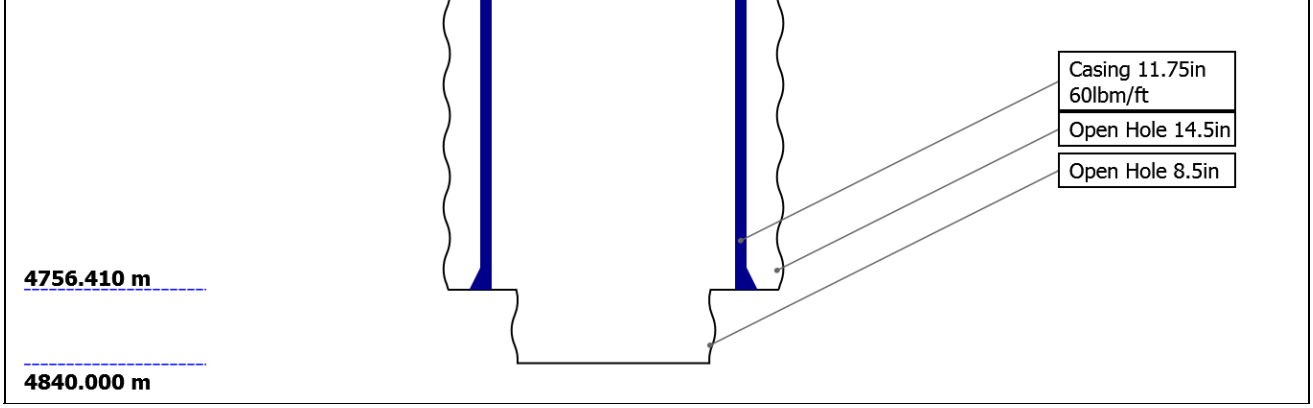
Well Sketch





Borehole Size/Casing Record

Bit						
Bit Size (in)	36	20	17	14.5	8.5	
Top Driller (m)	1967.5	2021.5	2827.8	3904	4756.41	
Bottom Driller (m)	2021.5	2827.8	3904	4756.41	4840	
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	4756.41		

Operational Run Summary

Parameter (unit)	**Run 4**					
Date Log Started	10-Jan-2019					
Time Log Started	03:35:49					
Date Log Finished	12-Jan-2019					
Time Log Finished	10:53:07					
Bit Size (in)	8.500					
Bit Start Depth (m)	0.00					
Bit Stop Depth (m)	0.00					
Top Log Interval (m)	4766.31					
Bottom Log Interval (m)	4833.82					
Max Hole Deviation (deg)	1.62					
Azimuth of Max Deviation (deg)	93.01					
Logging Unit Number	OLU-MB 8054					
Logging Unit Location	Zone2					
Recorded By	SMoriyama/YWang					
Witnessed By	YSanada/YKido					
Service Order Number	18JAP0007					

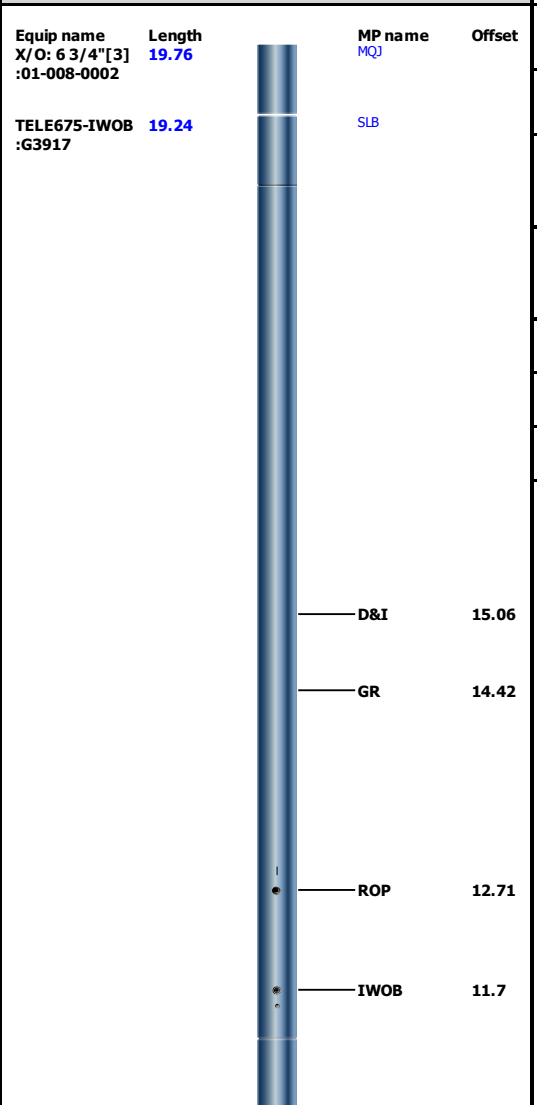
Borehole Fluids

Borehole Fluids

Parameter(unit)	Run 4					
Fluid Type	Water					
Max Recorded Temperatures (degC)	41					
Source of Sample	Active Tank					
Salinity (ppm)	121287.1					
Density (g/cm3)	1.39					
Funnel Viscosity (s)	67					
Fluid Loss (cm3)	7.3					
PH	9.6					
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp (ohm.m@degC)	0.07 @ 18.5					
RMF @ Meas Temp (ohm.m@degC)	0.05 @ 18.5					
RMC @ Meas Temp (ohm.m@degC)	0.08 @ 18.5					
RM @ BHT (ohm.m@degC)	0.06 @ 30					
RMF @ BHT (ohm.m@degC)	0.04 @ 30					
RMC @ BHT (ohm.m@degC)	0.06 @ 30					
Total Solid (%)	18					
High Gravity Solids (%)						

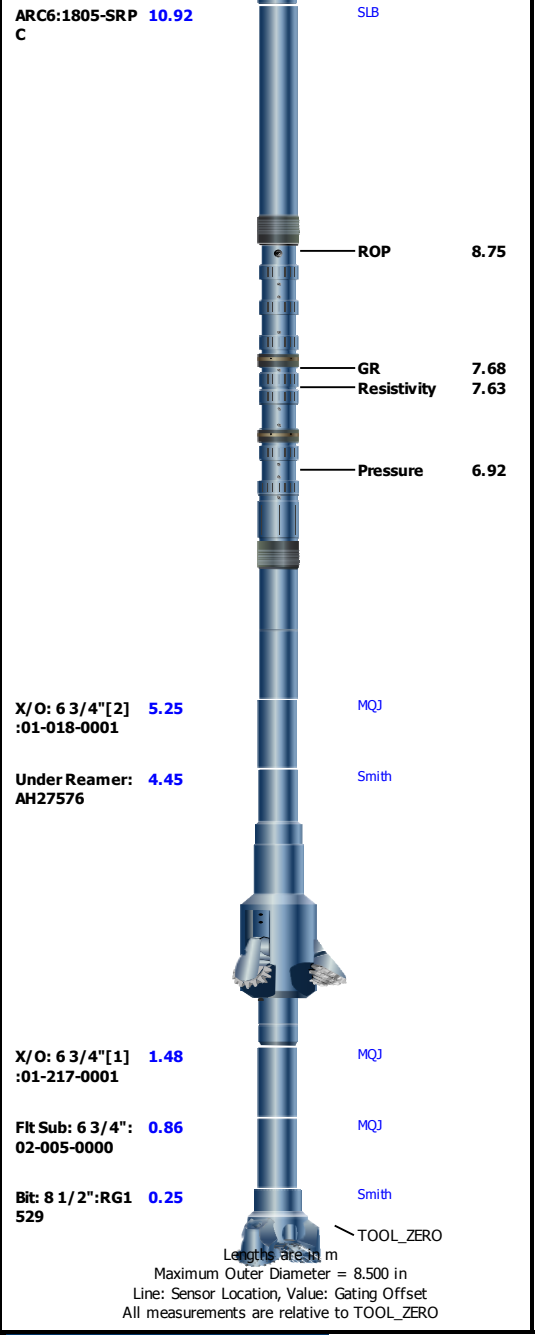
Remarks and Equipment Summary

Run 4: Toolstring



Run 4: Remarks

Run 4: 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 (1.54%) in the mud.
Resistivity measurement is borehole compensated and environmentally corrected for hole size and mud resistivity.
Reason of POOH: Hole Problem.
Drilling Time: 0hrs.
Pumping Time: 24.07hrs.



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:	4724.76 m	Inclination:	1.62 deg	Azimuth:	93.01 deg
True Vertical Depth:	4722.98 m	North Displacement:	3.97 m	East Displacement:	46.10 m
N/-S VSec Origin:	0.00 m	E/-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run 1

Geomagnetic Model :	HDGM 2018	Geomagnetic Date :	22-Dec-2018
Computed Location B :	46168.20 nT +/- 300.00nT	Used Location B :	46168.20 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

D&I Inits Computed and Values Used - Run 3

Geomagnetic Model :	HDGM 2018	Geomagnetic Date :	22-Dec-2018

Computed Location B :	46168.20 nT +/- 300.00nT	Used Location B :	46168.20 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 12 : Checkshot

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	4724.76	1.62	93.01	- - - -	4722.98	3.97	3.97	46.10	46.27	85.08	0.00	TIP	28	0	0
2	4771.81	1.92	149.07	47.05	4770.01	3.26	3.26	47.17	47.28	86.05	1.08	TeleScope	2	0	0
3	4787.76	1.44	113.28	15.94	4785.95	2.95	2.95	47.49	47.58	86.45	2.13	TeleScope	2	0	0
4	4810.46	2.33	160.16	22.71	4808.64	2.40	2.40	47.91	47.97	87.13	2.25	TeleScope	2	0	0
5	4827.23	3.01	148.57	16.77	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	TeleScope	2	0	12
6	4827.52	2.64	160.63	0.29	4825.69	1.70	1.70	48.16	48.19	87.97	0.55	TeleScope	2	0	0
7	4839.85	3.18	130.85	12.32	4838.00	1.21	1.21	48.51	48.53	88.57	3.85	TeleScope	2	0	0
8	4853.77	3.62	152.36	13.93	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	TeleScope	2	0	12
9	4860.55	3.10	122.03	6.77	4858.67	0.54	0.54	49.42	49.42	89.37	0.71	TeleScope	2	0	0
10	4867.25	3.04	93.24	6.70	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	TeleScope	2	0	12

Run4

Run4 LWD Log

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 4	Ream Down 2	Down	4680.41 m	4824.30 m	10-Jan-2019 5:43:25 PM	11-Jan-2019 1:57:18 AM	Yes
Run 4	Ream Down 3	Down	4800.40 m	4841.62 m	11-Jan-2019 1:57:24 AM	11-Jan-2019 4:41:34 AM	Yes
Run 4	Ream Down 4	Down	4837.43 m	4840.12 m	11-Jan-2019 4:41:41 AM	11-Jan-2019 7:37:30 PM	Yes

All depths are referenced to toolstring zero

Log

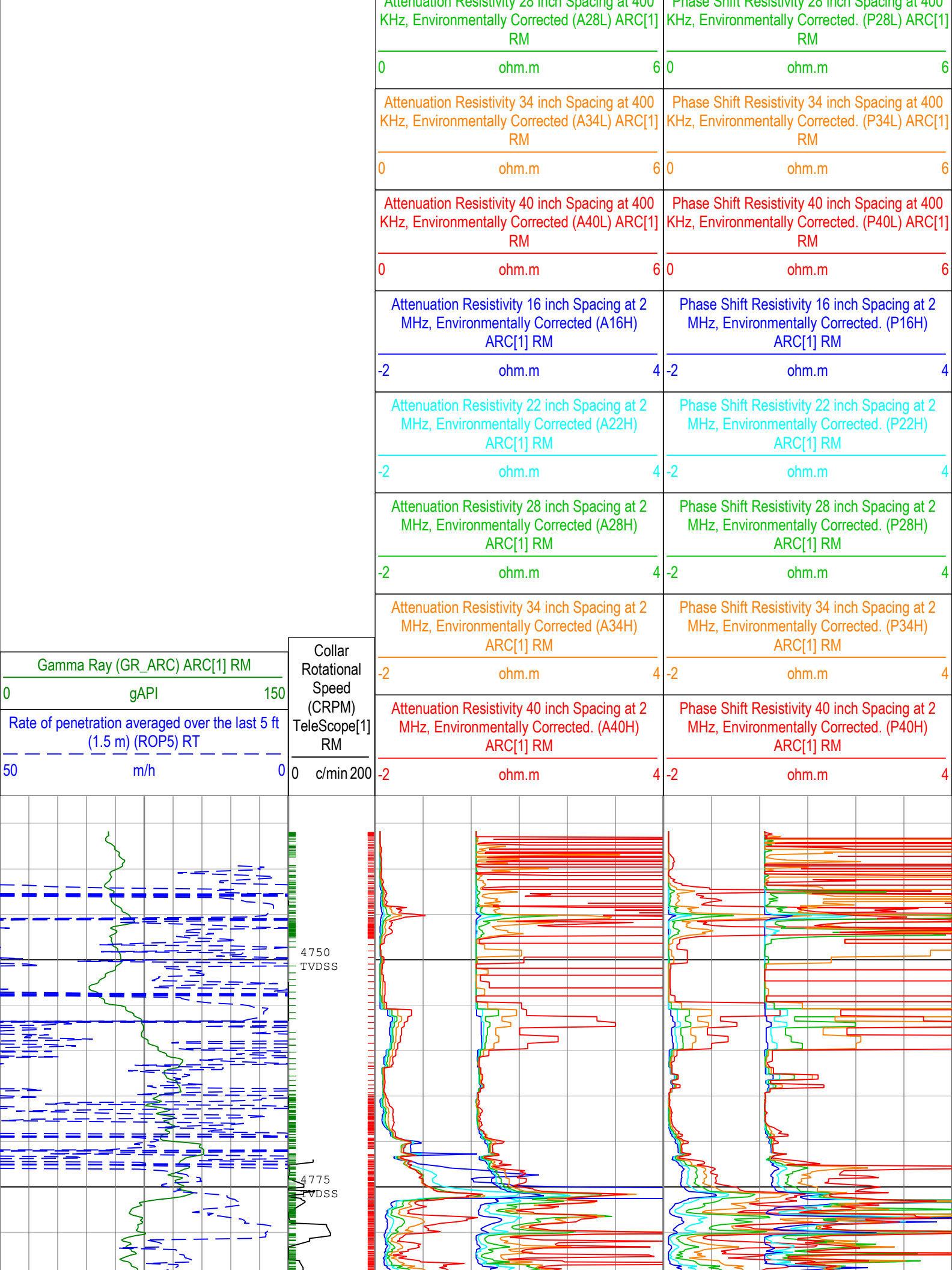
Company:JAMSTEC Well:C0002R Run4:S074

Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity MD) Index Scale: 1:500 Index Unit: m Index Type: SSTVD Creation Date: 05-Mar-2019 19:58:20

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	Phase Shift Resistivity 16 inch Spacing at 400 KHz, Environmentally Corrected. (P16L) ARC[1] RM
0 ohm.m 6	0 ohm.m 6
Attenuation Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected (A22L) ARC[1] RM	Phase Shift Resistivity 22 inch Spacing at 400 KHz, Environmentally Corrected. (P22L) ARC[1] RM
0 ohm.m 6	0 ohm.m 6
Attenuation Resistivity 28 inch Spacing at 400	Phase Shift Resistivity 28 inch Spacing at 400


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
-2 ohm.m 4
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM
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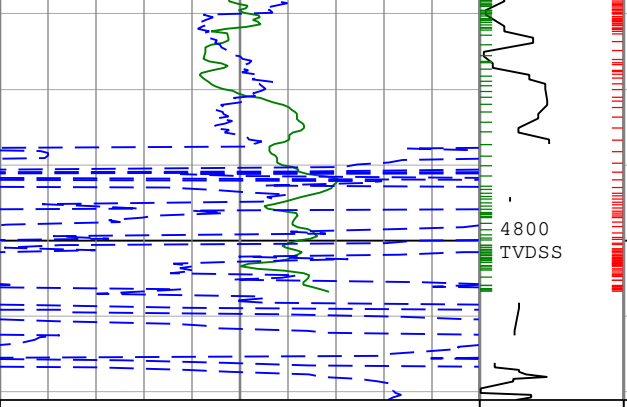
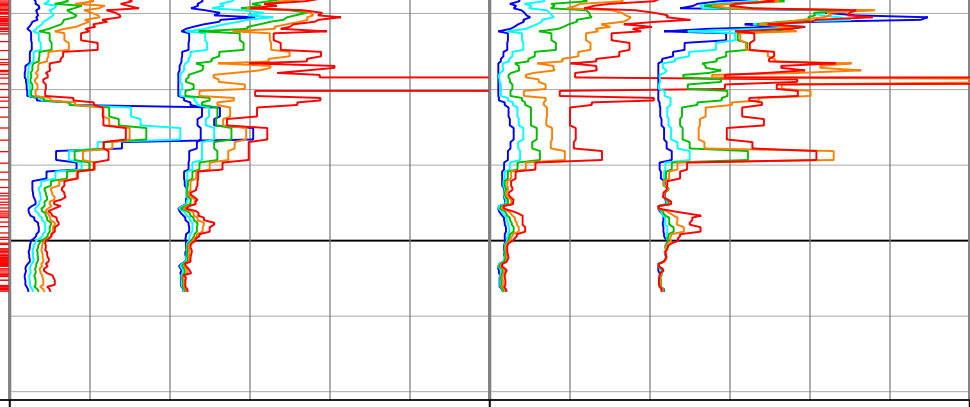
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) ARC[1] RM
-2 ohm.m 4
Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) ARC[1] RM
-2 ohm.m 4
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) ARC[1] 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
50 m/h 0
Collar Rotational Speed (CRPM) TeleScope[1] RM
0 c/min 200
4750 TVDSS
4775 TVDSS





Gamma Ray (GR_ARC) ARC[1] RM
0 gAPI 150

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

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

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
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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
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Attenuation Resistivity 34 inch Spacing at 400 KHz, Environmentally Corrected (A34L) ARC[1] RM
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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
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Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) ARC[1] RM
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Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) ARC[1] RM
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Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) ARC[1] RM
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Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) ARC[1] RM
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Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) ARC[1] RM
-2 ohm.m 4

Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) ARC[1] RM
-2 ohm.m 4

TICK_ARC_RES - Resistivity Tick Marks ARC[1] RM

├ TICK_ARC_GR - Gamma Ray Tick Marks ARC[1] RM

Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity MD) Index Scale: 1:500 Index Unit: m Index Type: SSTVD Creation Date: 05-Mar-2019 19:58:20

Channel Processing Parameters

Run 4: Parameters

Parameter	Description	Tool	Value	Unit
ABNT	Abnormal Transmitter Indicator	ARC6	NO_TX_FAILED	
BH_COMPUTE	Borehole Effect Computation Option	ARC6	No	
BHK	Drilling Fluid Potassium Concentration	Borehole	1.54	%
BHT	Bottom Hole Temperature	Borehole	30	degC
BS	Bit Size	DNMSESSION	Depth Zoned	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.39	g/cm3
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
GGRD	Geothermal Gradient	Borehole	18.23	degC/km
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS(RM)	
GTSE_RM	Generalized Temperature Selection for Recorded Mode	Borehole	GTEM_GRDSURF	
HIGH_BLEND	High Resistivity Threshold for Blending	ARC6	2	ohm.m
INVAS_COMPUTE	Invasion Computation Option	ARC6	No	
LOW_BLEND	Low Resistivity Threshold for Blending	ARC6	1	ohm.m
MST	Mud Sample Temperature	Borehole	18.5	degC
MULTIEFFECT_COMPUTE	Multi-effect Computation Option	ARC6	No	
RMS	Resistivity of Mud Sample	Borehole	0.07	ohm.m
SHT	Surface Hole Temperature	Borehole	20	degC
ATMP_ARC	ARC Temperature Selection	ARC6	Annular	
UNIFORM_COMPUTE	Uniform Rock Computation Option	ARC6	No	

Tool Control Parameters

Run 4: Parameters

Parameter	Description	Tool	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DNMSESSION	0.4	m

Run4

Run4 DML

Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 4	Ream Down 2	Down	4680.41 m	4824.30 m	10-Jan-2019 5:43:25 PM	11-Jan-2019 1:57:18 AM	Yes
Run 4	Ream Down 3	Down	4800.40 m	4841.62 m	11-Jan-2019 1:57:24 AM	11-Jan-2019 4:41:34 AM	Yes
Run 4	Ream Down 4	Down	4837.43 m	4840.12 m	11-Jan-2019 4:41:41 AM	11-Jan-2019 7:37:30 PM	Yes

All depths are referenced to toolstring zero

Log

Company:JAMSTEC Well:C0002R Run4:S074

Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:500 Index Unit: m Index Type: SSTVD Creation Date: 05-Mar-2019 19:58:22

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

Collar Rotational Speed (CRPM) TeleScope[1] RM
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

Equivalent Static Density (ESD) ARC[1] RT
0.8 g/cm3 1.8

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

Surface Torque (TQA) RT
0 kN.m 50

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

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

4750 TVDSS

4775 TVDSS

4800 TVDSS

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

Collar Rotational Speed (CRPM) TeleScope[1] RM
0 c/min 200

Stick Slip Indicator (STICKNSLIP) TeleScope[1] RM

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

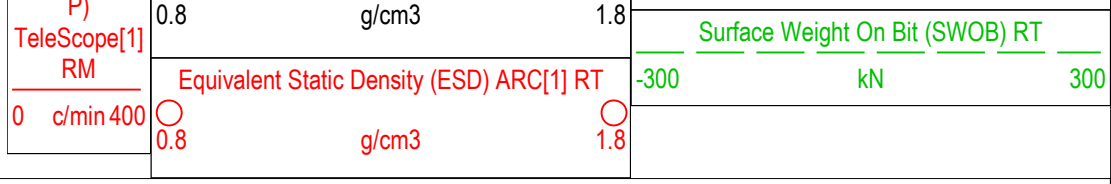
Downhole Annulus Temperature (ATMP) ARC[1] RM
0 degC 100

Equivalent Circulating Density (ECD_ARC) ARC[1] RM

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

Surface Torque (TQA) RT
0 kN.m 50

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



Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:500 Index Unit: m Index Type: SSTVD Creation Date: 05-Mar-2019 19:58:22

Channel Processing Parameters

Run 4: Parameters

Parameter	Description	Tool	Value	Unit
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.39	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

Run 4: 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

Run 4Time Zoned Parameters

Pass Ream Down 2

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
DTOF		10-Jan-2019 17:43:25	11-Jan-2019 00:20:15	4741.5	4781.041
DTOF	-14.15	11-Jan-2019 00:20:15	11-Jan-2019 00:41:18	4781.041	4785.232
DTOF	-11.84	11-Jan-2019 00:41:18	11-Jan-2019 00:42:34	4785.232	4785.232
DTOF	-12.08	11-Jan-2019 00:42:34	11-Jan-2019 00:43:12	4785.232	4785.232
DTOF	-11.96	11-Jan-2019 00:43:12	11-Jan-2019 01:57:18	4785.232	4795.72
DWOB_BETA		10-Jan-2019 17:43:25	11-Jan-2019 00:23:18	4741.5	4781.041
DWOB_BETA	4.37	11-Jan-2019 00:23:18	11-Jan-2019 00:24:23	4781.041	4781.041
DWOB_BETA	4.36	11-Jan-2019 00:24:23	11-Jan-2019 00:44:59	4781.041	4785.232
DWOB_BETA	4.09	11-Jan-2019 00:44:59	11-Jan-2019 00:45:44	4785.232	4785.232
DWOB_BETA	4.17	11-Jan-2019 00:45:44	11-Jan-2019 01:57:18	4785.232	4795.72
DWOF		10-Jan-2019 17:43:25	11-Jan-2019 00:23:18	4741.5	4781.041
DWOF	-696.15	11-Jan-2019 00:23:18	11-Jan-2019 00:44:59	4781.041	4785.232
DWOF	-649.44	11-Jan-2019 00:44:59	11-Jan-2019 01:57:18	4785.232	4795.72
DWOB_ZEROTOOLP		10-Jan-2019 17:43:25	11-Jan-2019 00:23:18	4741.5	4781.041
DWOB_ZEROTOOLP	4.77	11-Jan-2019 00:23:18	11-Jan-2019 00:24:23	4781.041	4781.041
DWOB_ZEROTOOLP	4.77	11-Jan-2019 00:24:23	11-Jan-2019 00:44:59	4781.041	4785.232
DWOB_ZEROTOOLP	4.76	11-Jan-2019 00:44:59	11-Jan-2019 00:45:44	4785.232	4785.232
DWOB_ZEROTOOLP	4.76	11-Jan-2019 00:45:44	11-Jan-2019 01:57:18	4785.232	4795.72

Pass Ream Down 3

DTOF	-11.96	11-Jan-2019 02:36:30	11-Jan-2019 04:41:34	4795.735	4812.943

DWOB_BETA	4.17	11-Jan-2019 02:36:30	11-Jan-2019 04:41:34	4795.735	4812.943
DWOF	-649.44	11-Jan-2019 02:36:30	11-Jan-2019 04:41:34	4795.735	4812.943
DWOB_ZEROTOOLP	4.76	11-Jan-2019 02:36:30	11-Jan-2019 04:41:34	4795.735	4812.943

Pass Ream Down 4

DTOF	-11.96	11-Jan-2019 04:41:48	11-Jan-2019 19:37:30	4808.981	4810.352
DWOB_BETA	4.17	11-Jan-2019 04:41:48	11-Jan-2019 19:37:30	4808.981	4810.352
DWOF	-649.44	11-Jan-2019 04:41:48	11-Jan-2019 19:37:30	4808.981	4810.352
DWOB_ZEROTOOLP	4.76	11-Jan-2019 04:41:48	11-Jan-2019 19:37:30	4808.981	4810.352

All depth are at tool zero.

Calibration Report

ARC6 (Array Resistivity Compensated 675) Calibration - Run 4

Primary Equipment :

Elec. Chassis HP with AIM Receiver AREA 126

RESAIRCAL - Resistivity: Air

Master (Time Frame File): 18:57:26 15-Nov-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Attenuation T1 at 2 MHz	dB	Master	8.500	6.500	8.275	10.500
Attenuation T2 at 2 MHz	dB	Master	6.500	4.500	6.730	8.500
Attenuation T3 at 2 MHz	dB	Master	4.500	2.500	4.874	6.500
Attenuation T4 at 2 MHz	dB	Master	4.600	2.600	4.625	6.600
Attenuation T5 at 2 MHz	dB	Master	3.600	1.600	3.419	5.600
Phase Shift T1 at 2 MHz	deg	Master	0.100	-3.900	1.048	4.100
Phase Shift T2 at 2 MHz	deg	Master	0.100	-3.900	-1.065	4.100
Phase Shift T3 at 2 MHz	deg	Master	0.100	-3.900	0.993	4.100
Phase Shift T4 at 2 MHz	deg	Master	0.100	-3.900	-1.095	4.100
Phase Shift T5 at 2 MHz	deg	Master	0.100	-3.900	1.001	4.100
Attenuation T1 at 400 KHz	dB	Master	8.500	6.500	8.324	10.500
Attenuation T2 at 400 KHz	dB	Master	6.500	4.500	6.691	8.500
Attenuation T3 at 400 KHz	dB	Master	4.500	2.500	4.919	6.500
Attenuation T4 at 400 KHz	dB	Master	4.600	2.600	4.580	6.600
Attenuation T5 at 400 KHz	dB	Master	3.600	1.600	3.477	5.600
Phase Shift T1 at 400 KHz	deg	Master	0.100	-3.900	0.501	4.100
Phase Shift T2 at 400 KHz	deg	Master	0.100	-3.900	-0.470	4.100
Phase Shift T3 at 400 KHz	deg	Master	0.100	-3.900	0.493	4.100
Phase Shift T4 at 400 KHz	deg	Master	0.100	-3.900	-0.501	4.100
Phase Shift T5 at 400 KHz	deg	Master	0.100	-3.900	0.480	4.100

GRGAIN - Gamma Ray: Blanket

Master (Time Frame File): 00:06:52 15-Nov-2018

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Gamma Ray Calibration Gain		Master	1.000	0.580	1.081	1.250

Company:	JAMSTEC
Well:	C0002R
Field:	C0002
Rig Name:	D/V Chikyu
Prefecture:	Wakayama
Country:	Japan

Schlumberger

VISION Resistivity

Gamma Ray - Resistivity

C0002R Run4, Recorded Mode Log, TVDSS 1:500