

Drilling Mechanics Log

DML

C0002Q Run1, TVDSS 1:200



Company: JAMSTEC

Well: C0002Q

Field: C0002

Rig Name: D/V Chiky

Prefecture: Wakayama

Country: Japan

Latitude: 33° 18' 3.042" N

Longitude: 136° 38' 12.174" E

Block: Pacific Ocean UVID: D/V Chiky

FL1: X = 652,382.39 m

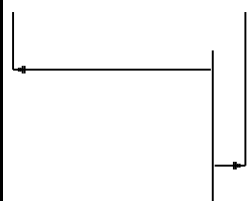
FL2: Y = 3,685,834.62 m

Rig Name:

Drill ship

Log Measured From: - Drill Floor: 28.50 m
Permanent Datum: - Mean Sea Level

Ground Level: 1939.00 m



Acquisition Dates: 17-Nov-2018 -- 21-Nov-2018

Other Services:

Log Interval: 4866.00(m)MD -- 4990.00(m)MD

Direction and Inclination

Index Types: SSTVD

Index Scales: 1:200

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 26-Oct-2018



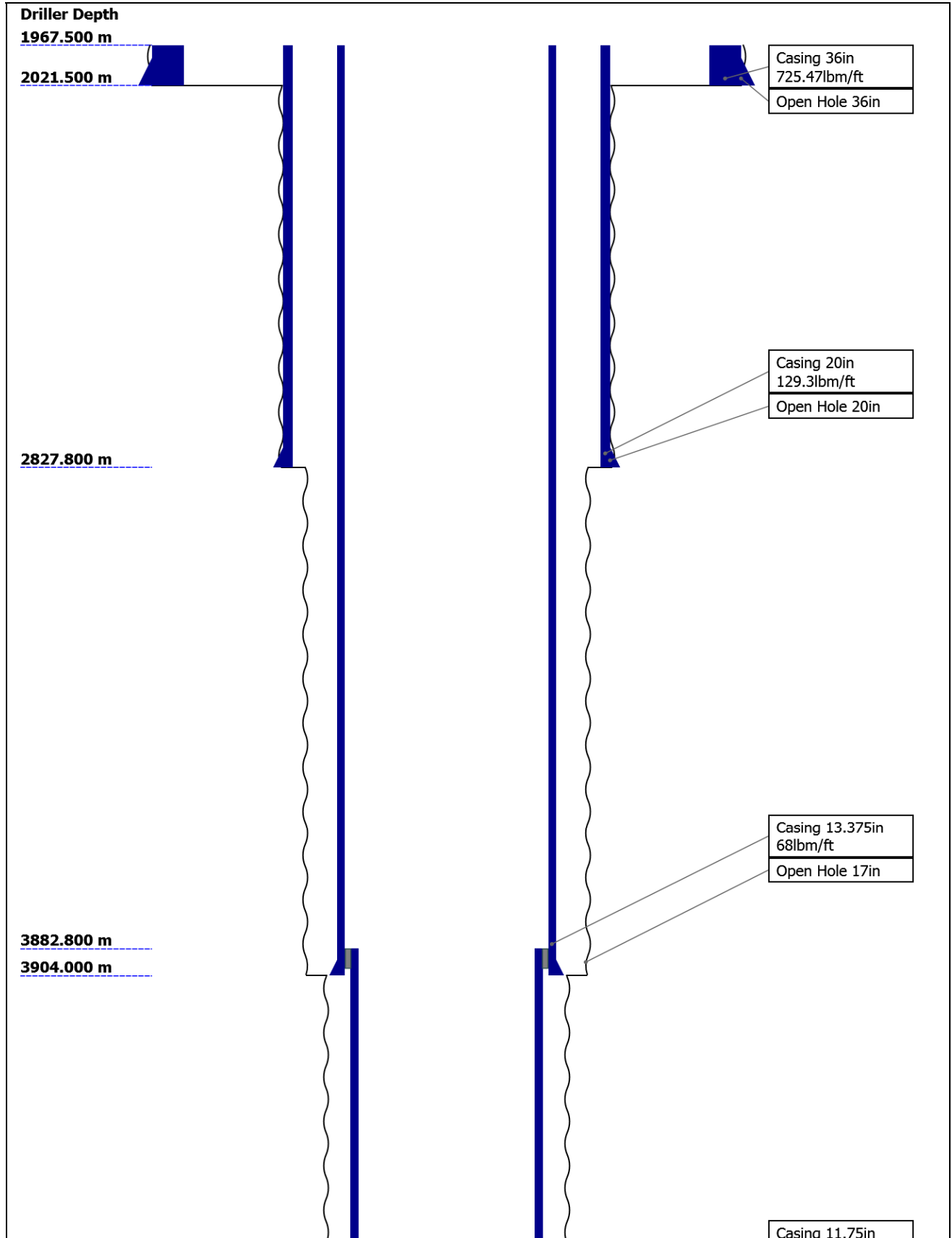
Disclaimer

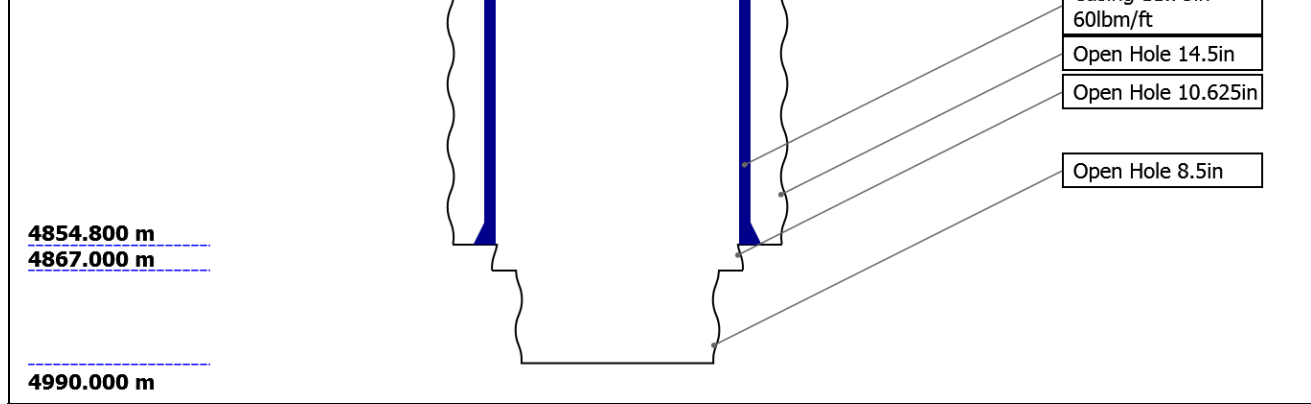
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Contents

1. Header
2. Disclaimer
3. Contents
4. Well Sketch
5. Borehole Size/Casing/Tubing Record
6. Operational Run Summary
7. Borehole Fluids
8. Remarks and Equipment Summary
9. Survey Record
10. Run1
 - 10.1 Integration Summary
 - 10.2 Software Version
 - 10.3 Composite Summary
 - 10.4 Log (Drilling Mechanics Log 675 RM MD)
 - 10.5 Parameter Listing
11. Tail

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	4990
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

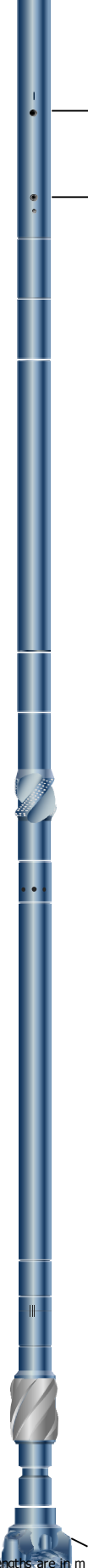
Parameter (unit)	Run1				
Date Log Started	17-Nov-2018				
Time Log Started	11:53:55				
Date Log Finished	21-Nov-2018				
Time Log Finished	12:41:56				
Bit Size (in)	8.500				
Bit Start Depth (m)	4867.00				
Bit Stop Depth (m)	4990.00				
Top Log Interval (m)	4848.00				
Bottom Log Interval (m)	4990.00				
Max Hole Deviation (deg)	4.01				
Azimuth of Max Deviation (deg)	145.27				
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

Parameter(unit)	Run1				
Fluid Type	Water				
Max Recorded Temperatures (degC)	NaN				
Source of Sample	Active Tank				
Salinity (ppm)	34972.18				
Density (g/cm3)	1.37				
Funnel Viscosity (s)	56				
Fluid Loss (cm3)	2.5				
PH					
Source RMF					
RMC	Pressed				
RM @ Meas Temp (ohm.m@degC)	0.2 @ 20				
RMF @ Meas Temp (ohm.m@degC)	0.15 @ 20				
RMC @ Meas Temp (ohm.m@degC)					
RM @ BHT (ohm.m@degC)	0.07 @ 100				
RMF @ BHT (ohm.m@degC)	0.05 @ 100				
RMC @ BHT (ohm.m@degC)	NaN @ 100				
Total Solid (%)	16				
High Gravity Solids (%)	15				

Remarks and Equipment Summary

Run1: Toolstring				Run1: Remarks
Equip name UBHO: 6 3/4":SB D72254	Length 33.43	MP name Schlumberger	Offset	Depth Reference is driller's depth measured from Rotary Table.
NMDC: 6 3/4"[2] :KSBD14856	32.47	Schlumberger		Data presented is Recorded Mode data which was acquired while drilling.
TELE675-IWOB:B 1755	23.04	Schlumberger		
			D&I 18.23	
			GR 17.58	



ROP 15.88

IWOB 14.86

X/O: 6 3/4":OSS 14.03
TJ1407002E

Schlumberger

NMDC: 6 3/4"[1] 13.56
:26939-4

Schlumberger

Fit Sub: 6 3/4":T 10.61
H0915936-2

Schlumberger

Stab: 6 3/4":THD 9.84
0812973-3

Schlumberger

Motor: 6 3/4":61 8.18
50778

Schlumberger

Bit: 8 1/2":RJ819 0.24
8

Smith

TOOL_ZERO

Lengths are in m

Maximum Outer Diameter = 8.500 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

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

Run1

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

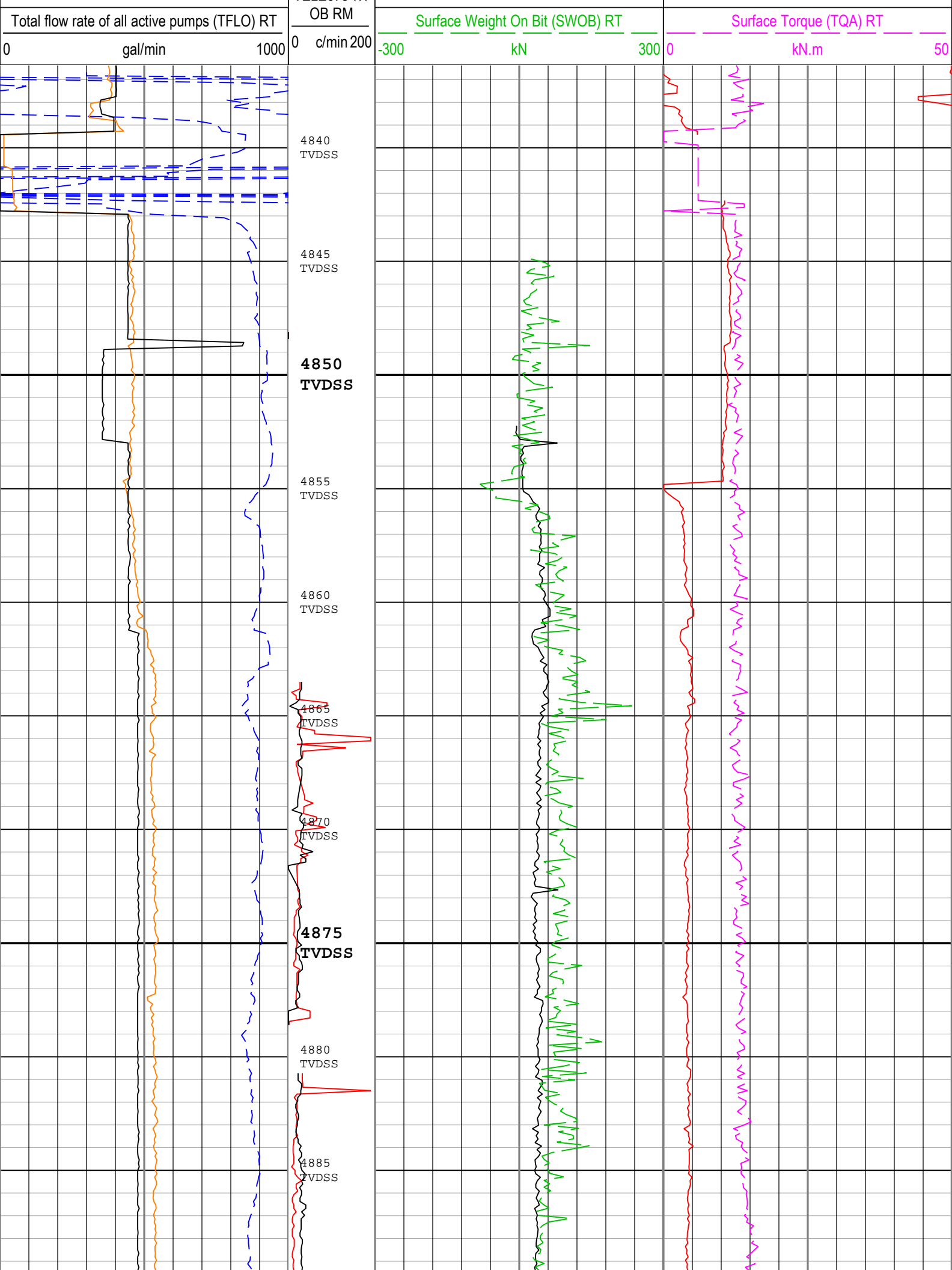
Pass Summary							
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run1	Drilling	Down	4866.69 m	4989.20 m	17-Nov-2018 11:53:55 AM	21-Nov-2018 12:41:56 PM	Yes

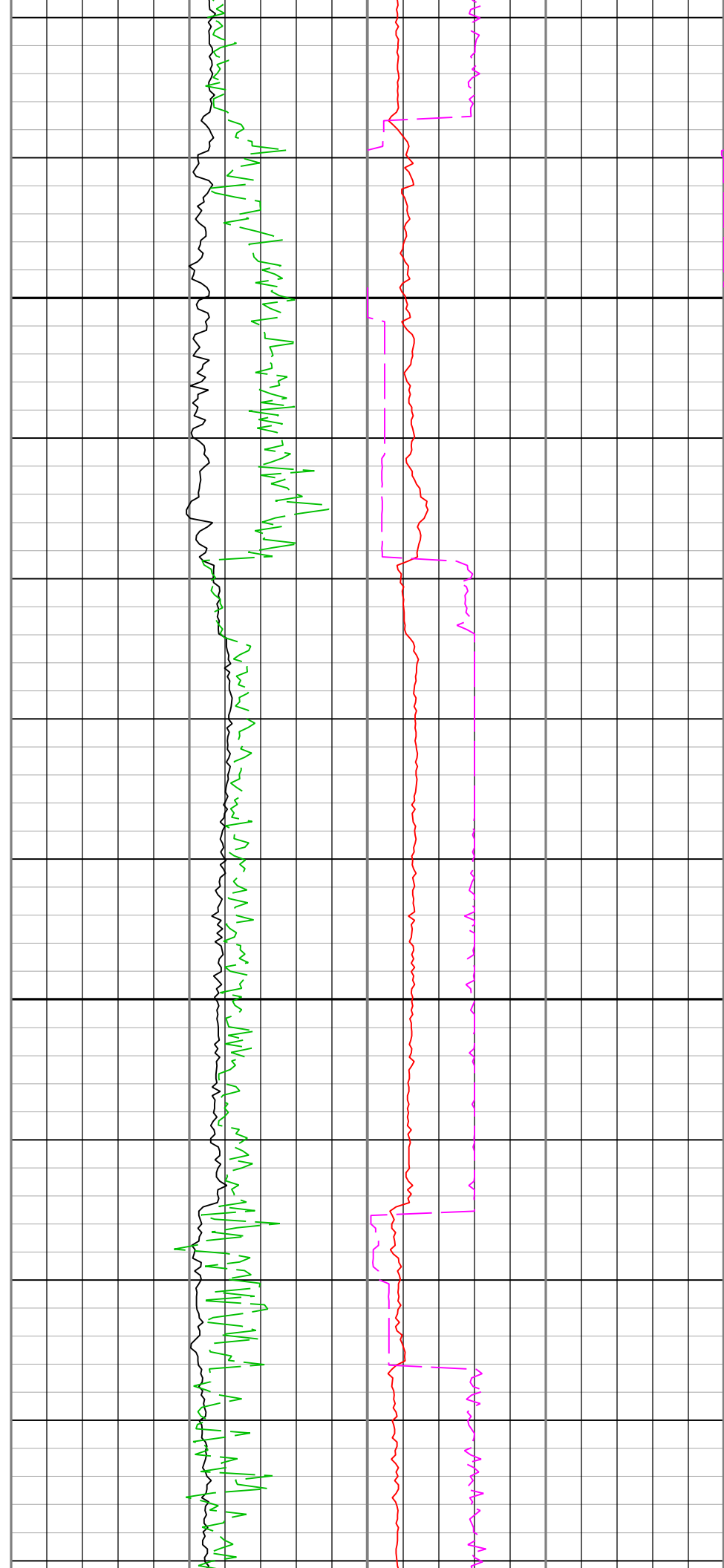
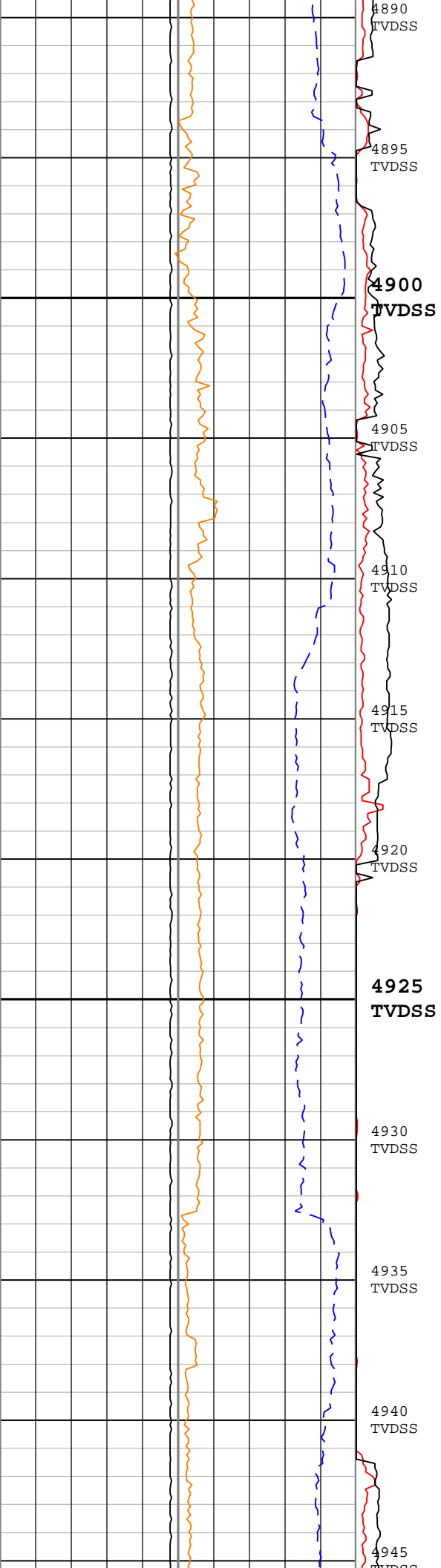
All depths are referenced to toolstring zero

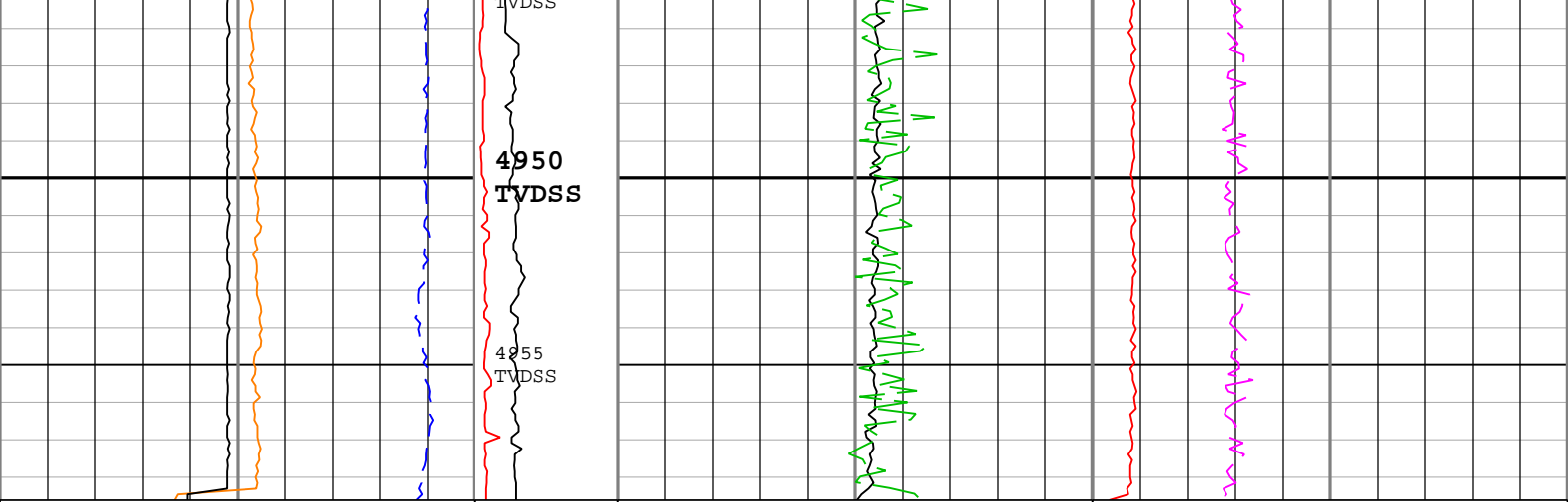
Log	Company: JAMSTEC Well: C0002Q Run1: Drilling: S122
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Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 04-Mar-2019 08:12:56

	Stick Slip Indicator (STICKNSLI P) TELE675-IW OB RM	
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	0 c/min 400	
50 m/h 0	Collar Rotational Speed (CRPM) TELE675-IW	Downhole Weight on Bit (DWOB_RT) TELE675-IWOB RT
Standpipe Pressure (SPPA) RT	-300 kN 300	Downhole Torque (MWD) (DTOR_RT) TELE675-IWOB RT
0 MPa 30		0 kN.m 50







Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 0 m/h 0	Stick Slip Indicator (STICKNSLI P) TELE675-IW OB RM 0 c/min 400	Downhole Weight on Bit (DWOB_RT) TELE675-IWOB RT -300 kN 300	Downhole Torque (MWD) (DTOR_RT) TELE675-IWOB RT 0 kN.m 50
Standpipe Pressure (SPPA) RT 0 MPa 30	Collar Rotational Speed (CRPM) TELE675-IW OB RM 0 c/min 200	Surface Weight On Bit (SWOB) RT -300 kN 300	Surface Torque (TQA) RT 0 kN.m 50
Total flow rate of all active pumps (TFLO) RT 0 gal/min 1000			

Description: Format: Log (Drilling Mechanics Log 675 RM MD) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 04-Mar-2019 08:12:56

Channel Processing Parameters

Run1: Parameters

Parameter	Description	Tool	Value	Unit
DFD	Drilling Fluid Density	Borehole	1.37	g/cm3

Tool Control Parameters

Run1: 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

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
DTOF	-13.06	17-Nov-2018 11:53:55	18-Nov-2018 07:27:18	4838.191	4841.112
DTOF	-14.52	18-Nov-2018 07:27:18	18-Nov-2018 13:38:50	4841.112	4856.453
DTOF	-22.09	18-Nov-2018 13:38:50	21-Nov-2018 12:41:56	4856.453	4960.695
DWOB_BETA	0	17-Nov-2018 11:53:55	18-Nov-2018 12:44:29	4838.191	4854.244
DWOB_BETA	4.25	18-Nov-2018 12:44:29	18-Nov-2018 12:44:39	4854.244	4854.269
DWOB_BETA	4.27	18-Nov-2018 12:44:39	18-Nov-2018 13:02:08	4854.269	4854.98
DWOB_BETA	2.29	18-Nov-2018 13:02:08	18-Nov-2018 13:45:07	4854.98	4856.453
DWOB_BETA	2.13	18-Nov-2018 13:45:07	21-Nov-2018 12:41:56	4856.453	4960.695

DWOF	-313.6	17-Nov-2018 11:53:55	18-Nov-2018 07:27:47	4838.191	4841.112
DWOF	-856.28	18-Nov-2018 07:27:47	18-Nov-2018 12:44:29	4841.112	4854.244
DWOF	-633.87	18-Nov-2018 12:44:29	18-Nov-2018 12:44:39	4854.244	4854.269
DWOF	-642.77	18-Nov-2018 12:44:39	18-Nov-2018 13:02:08	4854.269	4854.98
DWOF	-624.98	18-Nov-2018 13:02:08	18-Nov-2018 13:45:07	4854.98	4856.453
DWOF	-589.39	18-Nov-2018 13:45:07	21-Nov-2018 12:41:56	4856.453	4960.695
DWOB_ZEROOOLP	0	17-Nov-2018 11:53:55	18-Nov-2018 12:44:29	4838.191	4854.244
DWOB_ZEROOOLP	2.65	18-Nov-2018 12:44:29	18-Nov-2018 13:02:08	4854.244	4854.98
DWOB_ZEROOOLP	4.16	18-Nov-2018 13:02:08	18-Nov-2018 13:45:07	4854.98	4856.453
DWOB_ZEROOOLP	4.15	18-Nov-2018 13:45:07	21-Nov-2018 12:41:56	4856.453	4960.695
All depth are at tool zero.					

Company: JAMSTEC

Well: C0002Q

Field: C0002
Rig Name: D/V Chikyu
Prefecture: Wakayama
Country: Japan



Schlumberger

Drilling Mechanics Log

DML

C0002Q Run1, TVDSS 1:200