

# Drilling Mechanics Log

DML

C0002R Run2, Measured Depth 1:200



Company: JAMSTEC

Well: C0002R

Field: C0002

Rig Name: D/V Chiky

Prefecture: Wakayama

Country: Japan

Latitude: 33° 18' 3.042" N

Longitude: 136° 38' 12.174" E

Block:

FL: Pacific Ocean

FL1: X = 652,382.39 m

FL2: Y = 3,685,834.62 m

UWID:

Rig Name:

Rig Type:

D/V Chiky

Drill ship

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

Ground Level: 1939.00 m

Acquisition Dates: 30-Dec-2018 -- 05-Jan-2019

Log Interval: 4961.92(m)MD - 5051.00(m)MD

Index Types: Measured Depth

Index Scales: 1:200

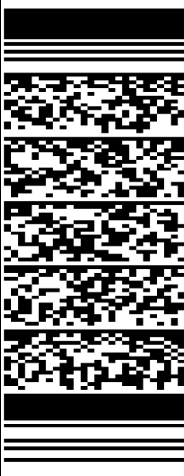
Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 26-Oct-2018

Other Services:  
Direction and Inclination



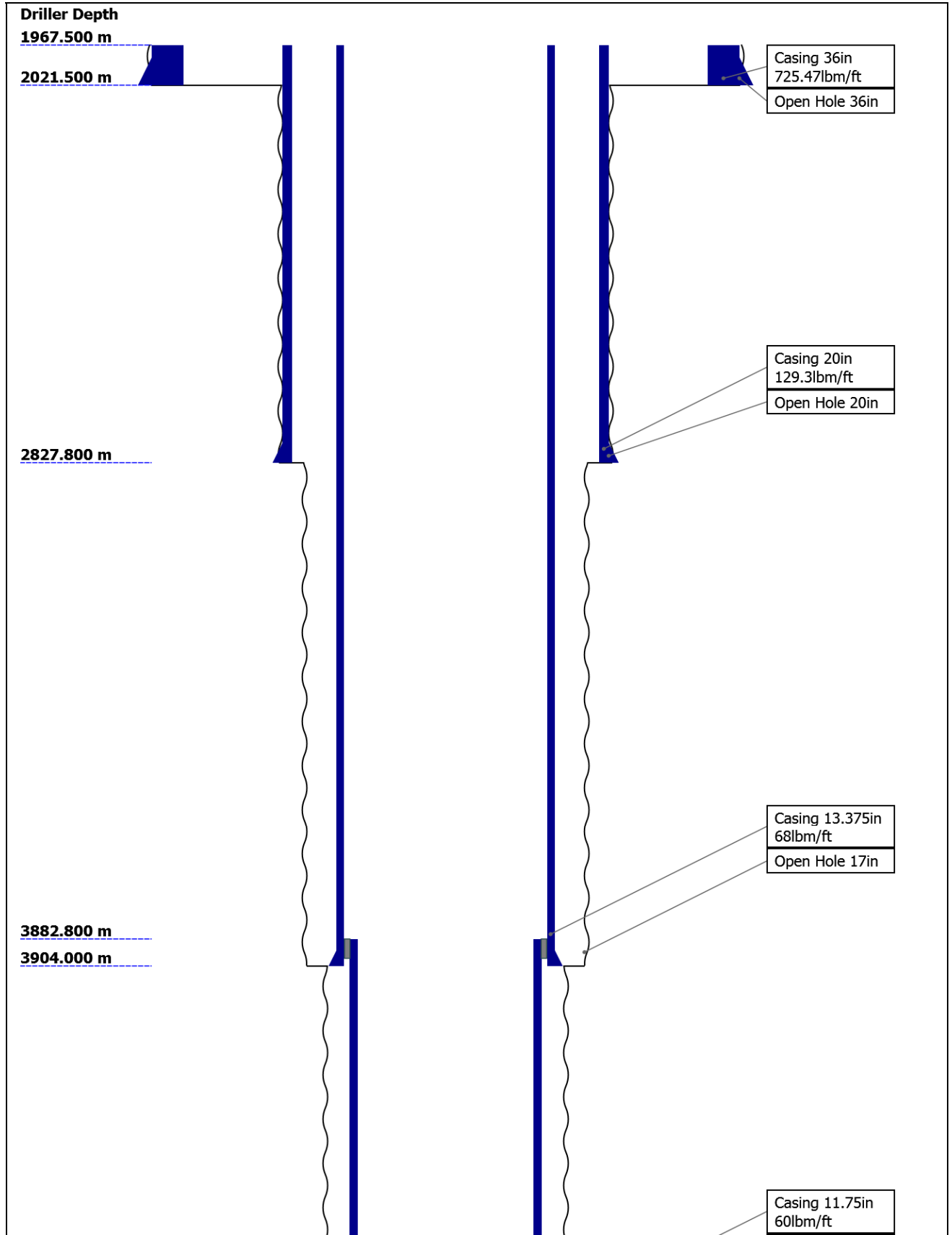
## Disclaimer

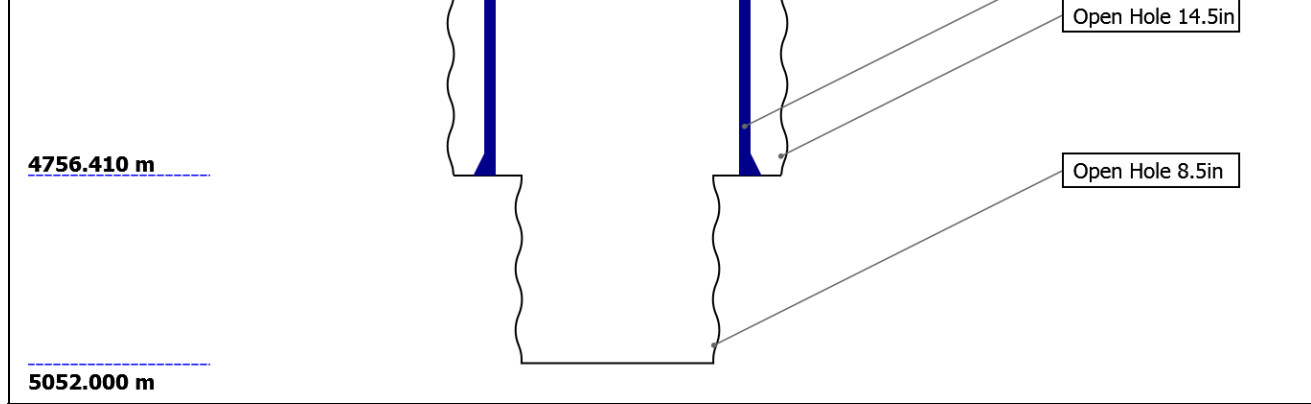
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# Well Sketch





## 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	5052	
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 )	Run2					
Date Log Started	30-Dec-2018					
Time Log Started	05:10:16					
Date Log Finished	05-Jan-2019					
Time Log Finished	10:59:25					
Bit Size ( in )	8.500					
Bit Start Depth ( m )	4963.00					
Bit Stop Depth ( m )	5052.00					
Top Log Interval ( m )	4963.00					
Bottom Log Interval ( m )	5052.00					
Max Hole Deviation ( deg )	1.44					
Azimuth of Max Deviation ( deg )	140.07					
Logging Unit Number	OLU-MB 8054					
Logging Unit Location	Zone2					
Recorded By	SMoriyama/Wan gYong					
Witnessed By	YSanada/YKido					
Service Order Number	18JAP0007					

## Borehole Fluids





ROP 15.65

X/O: 6 3/4"[1]:O 13.85  
SSTJ1407002E

Schlumberger

NMDC: 6 3/4"[1] 13.38  
:YD08070141-1

Schlumberger

Fit Sub: 6 3/4":T 10.54  
H0915936-2

Schlumberger

Stab: 6 3/4":GP7 9.76  
101-11

Schlumberger

Motor: 6 3/4":59 8.09  
25573

Schlumberger

Bit: 8 1/2":RT819 0.24  
9

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:		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 - Run1															
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 - Run2															
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 - Run4															
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															
0 : Long Survey passed all criteria				2 : Long Survey failed mag criteria				9 : Manual							
28 : Tie-In Point															
Survey Correction Index															
0 : No correction															
Survey Description Index															
0 : Not Flagged Survey															
Seq	MD	Incl	Azim	Course	TVD	V Sec	N/ -S	E/ -W	Closure	at Azim	DLS	Tool Type	QI	CI	DI
	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	deg/30m				
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	4794.24	1.20	140.07	6.48	4792.43	2.86	2.86	47.61	47.70	86.56	3.04	TeleScope	2	0	0
5	4805.24	1.38	175.82	11.00	4803.43	2.64	2.64	47.69	47.77	86.83	2.21	TeleScope	2	0	0
6	4823.24	1.20	110.59	18.00	4821.43	2.36	2.36	47.89	47.95	87.18	2.34	TeleScope	2	0	0
7	4836.64	5.20	78.51	13.40	4834.80	2.43	2.43	48.61	48.68	87.14	9.48	TeleScope	2	0	0
8	4844.04	5.77	85.98	7.40	4842.17	2.53	2.53	49.31	49.38	87.07	3.68	TeleScope	2	0	0
9	4866.97	6.61	84.22	22.93	4864.96	2.74	2.74	51.78	51.85	86.97	1.13	TeleScope	2	0	0
10	4901.84	7.21	75.01	34.87	4899.58	3.51	3.51	55.89	56.00	86.41	1.08	TeleScope	2	0	0
11	4933.34	7.79	80.99	31.50	4930.82	4.35	4.35	59.90	60.06	85.84	0.93	TeleScope	0	0	0
12	4942.30	8.07	85.26	8.95	4939.68	4.50	4.50	61.13	61.29	85.79	2.19	TeleScope	0	0	0
13	4960.04	7.46	91.57	17.74	4957.27	4.57	4.57	63.52	63.69	85.88	1.78	TeleScope	2	0	0
14	4975.81	5.38	98.09	15.77	4972.94	4.44	4.44	65.28	65.43	86.11	4.17	TeleScope	2	0	0
15	4985.09	4.13	100.43	9.28	4982.19	4.32	4.32	66.04	66.18	86.26	4.09	TeleScope	2	0	0
16	4993.35	2.82	103.77	8.25	4990.43	4.21	4.21	66.53	66.66	86.38	4.84	TeleScope	2	0	0
17	4998.02	2.44	104.21	4.68	4995.10	4.16	4.16	66.73	66.86	86.43	2.45	TeleScope	2	0	0
18	5003.13	2.20	106.33	5.11	5000.20	4.11	4.11	66.93	67.06	86.49	1.47	TeleScope	2	0	0

19	5008.87	1.87	111.82	5.73	5005.93	4.04	4.04	67.13	67.25	86.55	1.99	TeleScope	2	0	0
20	5020.15	1.03	141.28	11.29	5017.22	3.90	3.90	67.36	67.47	86.69	2.93	TeleScope	2	0	0
21	5031.07	0.85	223.25	10.92	5028.13	3.76	3.76	67.37	67.47	86.81	3.40	TeleScope	2	0	0
22	5052.00	0.85	223.25	20.93	5049.06	3.53	3.53	67.15	67.25	86.99	0.00	Other	9	0	0

## Run2

## Run2\_DML

### 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
Run2	Drilling	Down	4961.92 m	5051.25 m	30-Dec-2018 5:10:16 AM	05-Jan-2019 10:59:25 AM	Yes

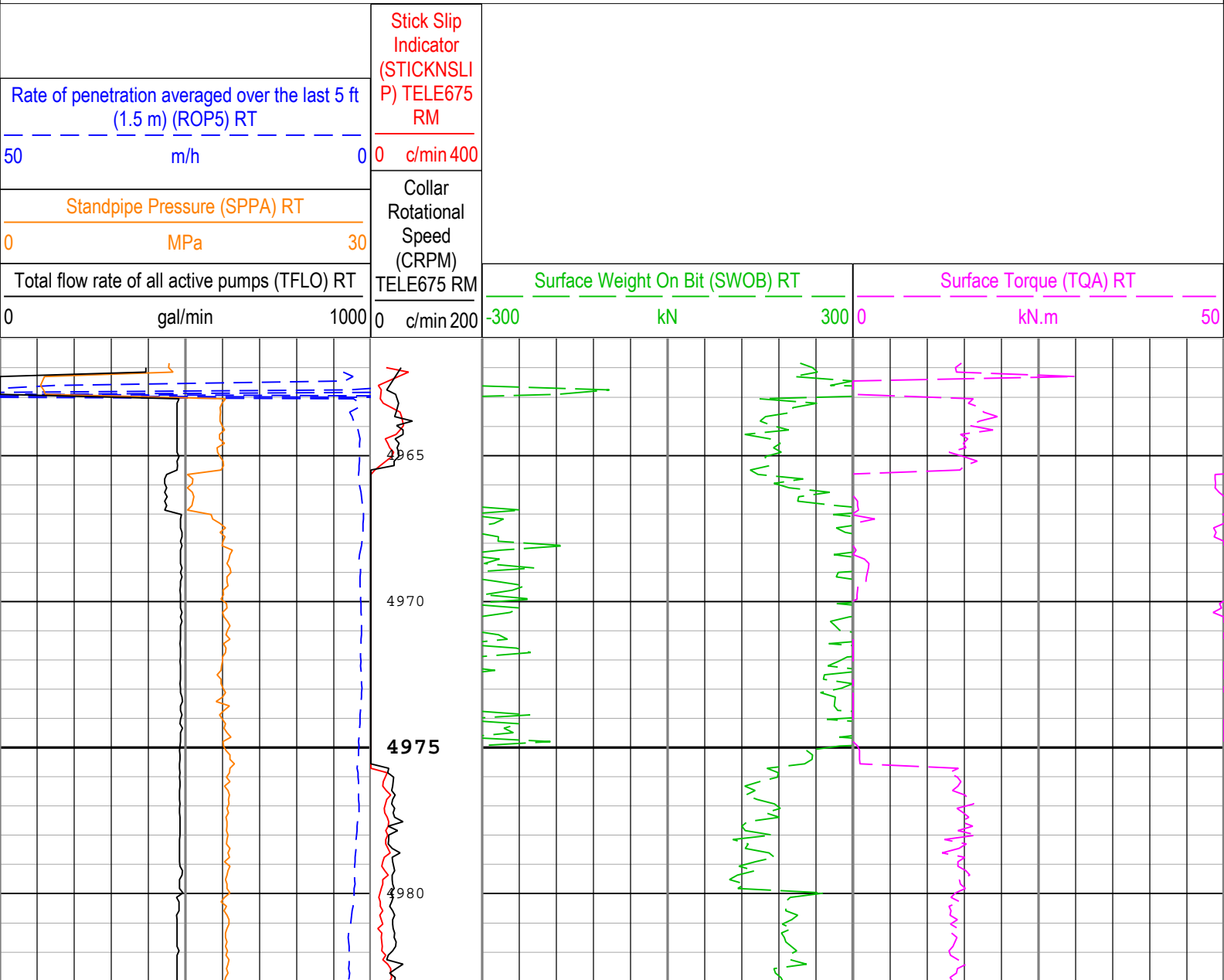
All depths are referenced to toolstring zero

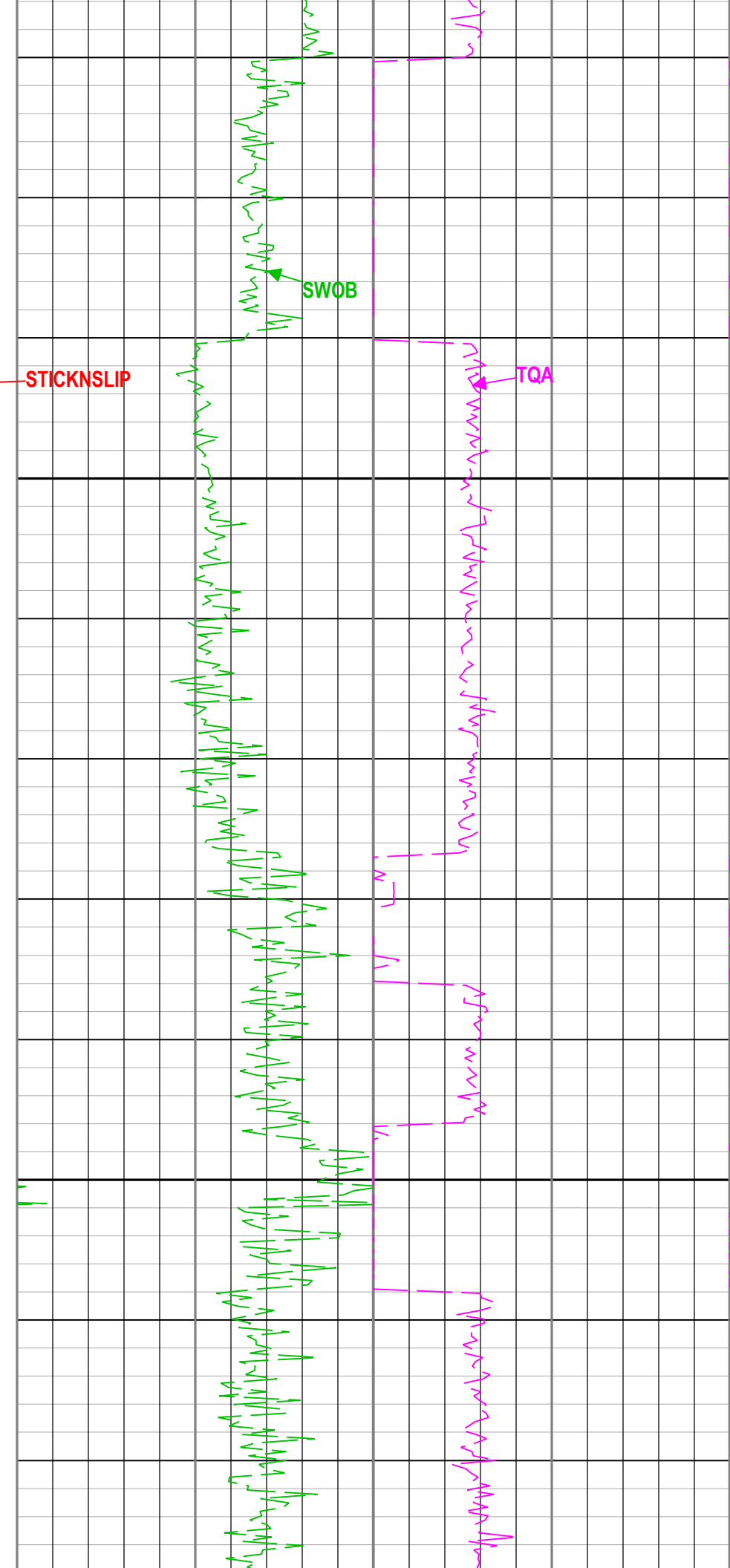
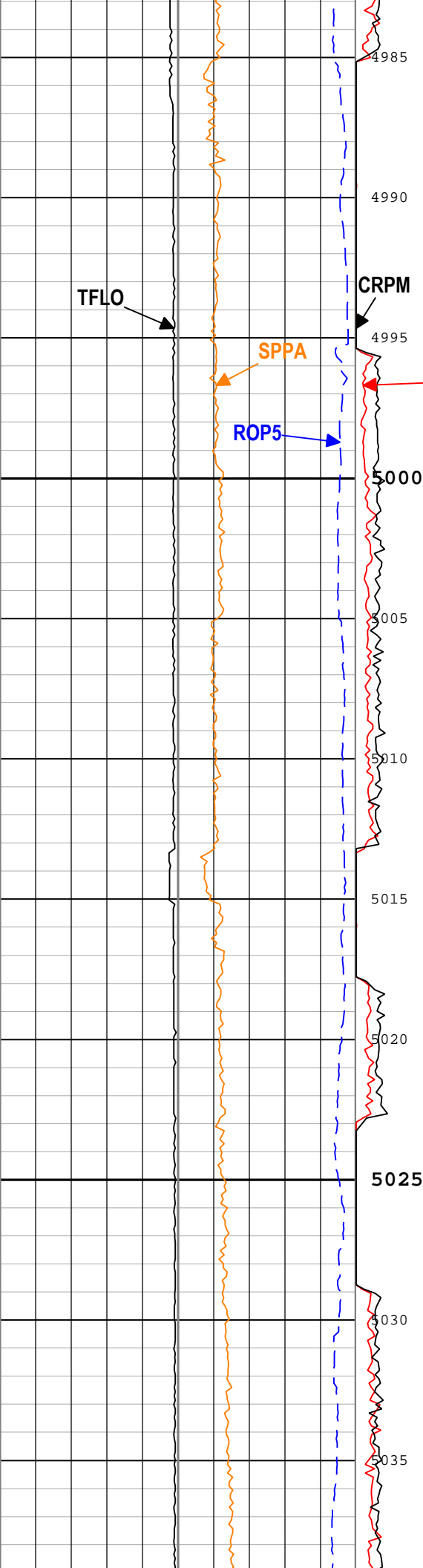
### Log

Company: JAMSTEC Well: C0002R

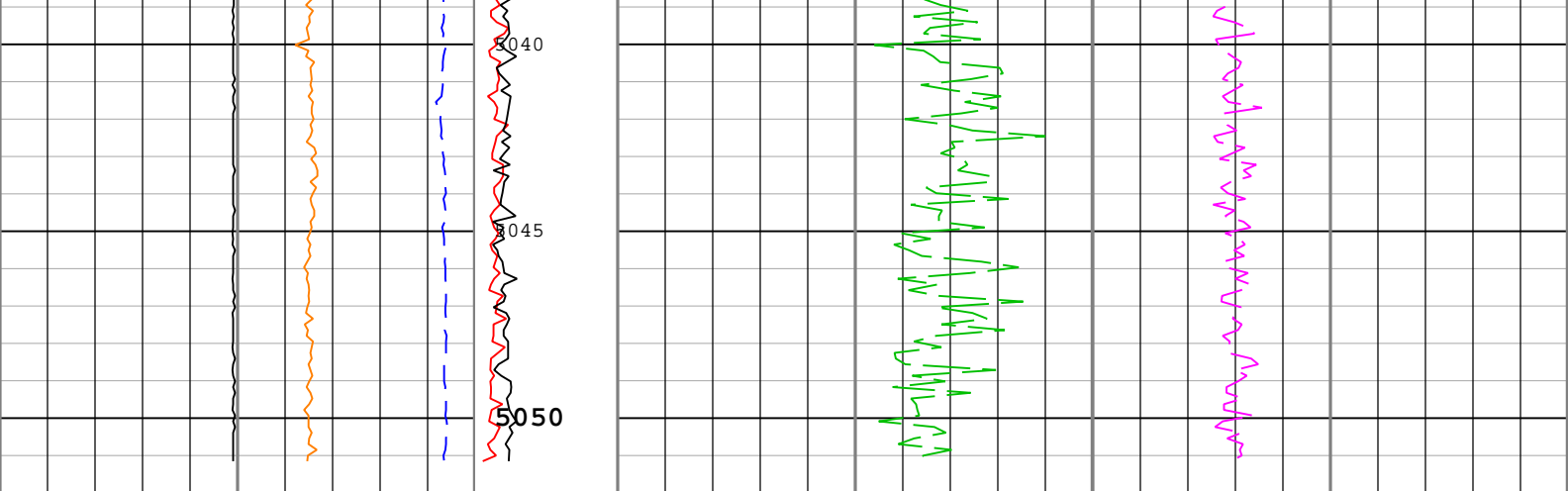
Run2: Drilling: S072

Description: Format: Log ( Drilling Mechanics Log 675 RM MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth Creation Date: 04-Mar-2019 00:47:52









Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 0 50 100 m/h	Stick Slip Indicator (STICKNSLI) TELE675 RM 0 30 40 c/min	Surface Weight On Bit (SWOB) RT -300 0 300 kN	Surface Torque (TQA) RT 0 50 kN.m
Standpipe Pressure (SPPA) RT 0 30 MPa	Collar Rotational Speed (CRPM) TELE675 RM 0 200 c/min		
Total flow rate of all active pumps (TFLO) RT 0 1000 gal/min			

Description: Format: Log ( Drilling Mechanics Log 675 RM MD ) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth Creation Date: 04-Mar-2019 00:47:52

### Channel Processing Parameters

### Tool Control Parameters

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



