

Drilling Mechanics Log

DML

C0002R Run2, True Vertical Depth Sub Sea 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: Pacific Ocean UVID: D/V Chiky

FL1: X = 652,382.39 m

FL2: Y = 3,685,834.62 m

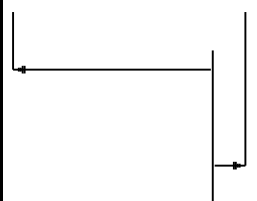
Rig Name:

Drill ship

Rig Type:

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

Other Services:

Log Interval: 4961.92(m)MD - 5051.00(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

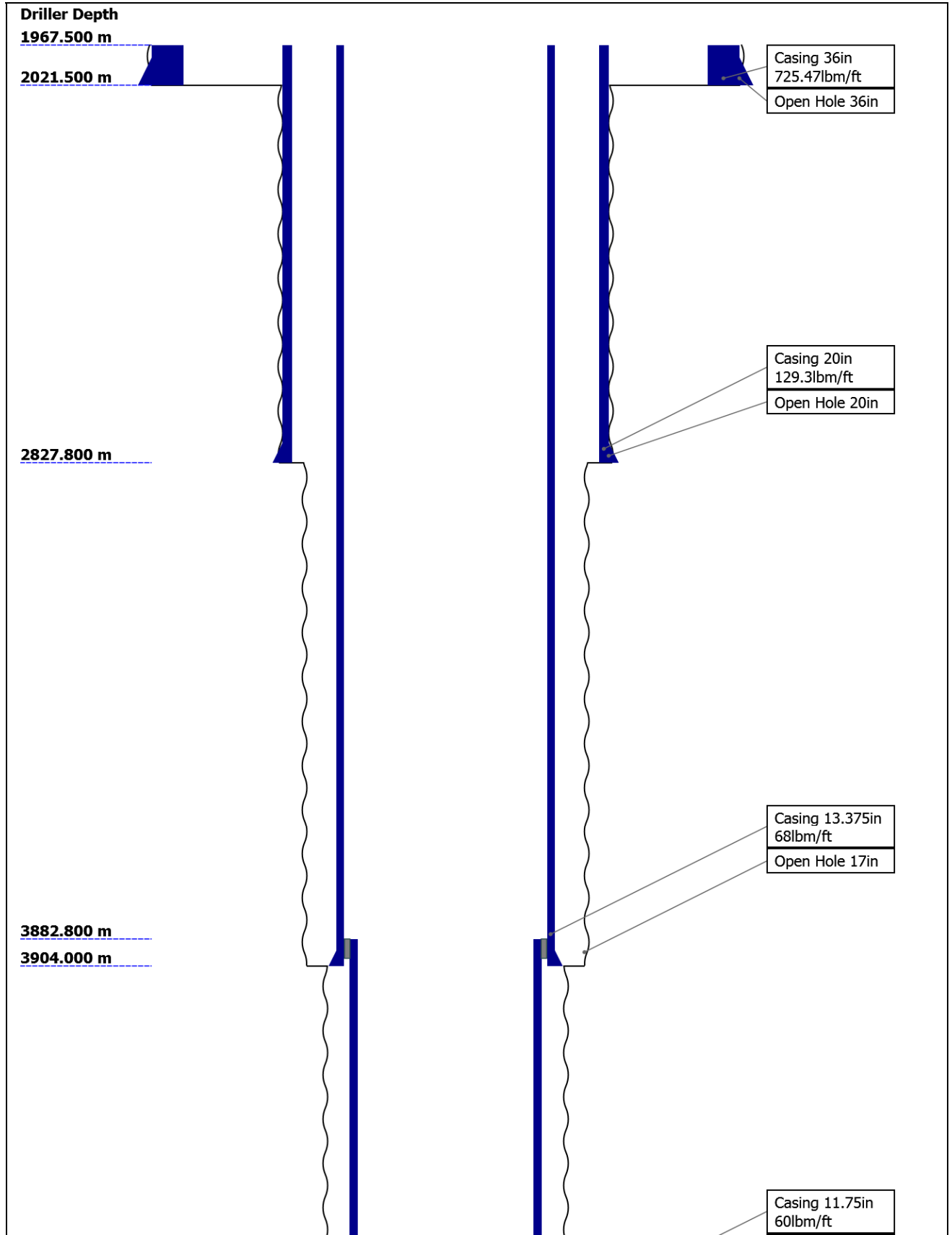
Disclaimer

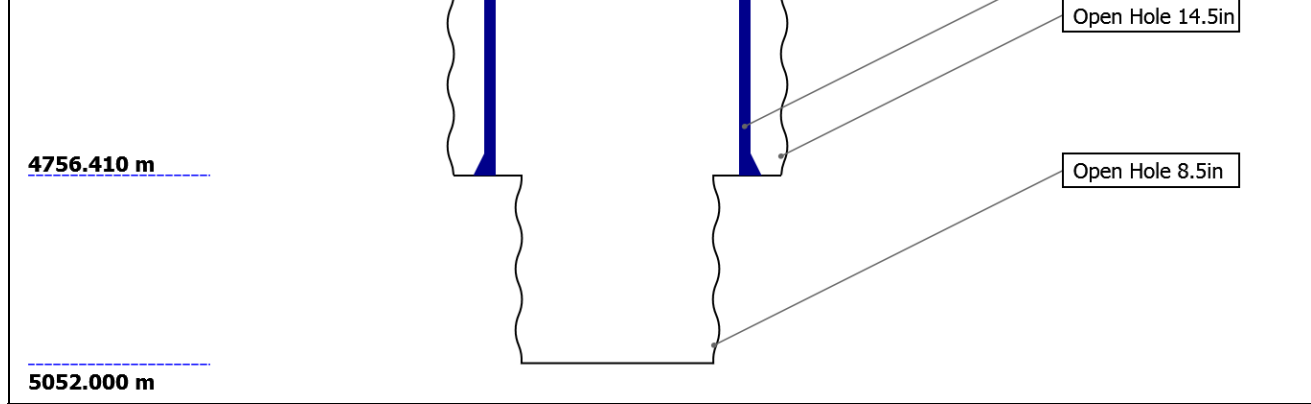
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Well Sketch





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 (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	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

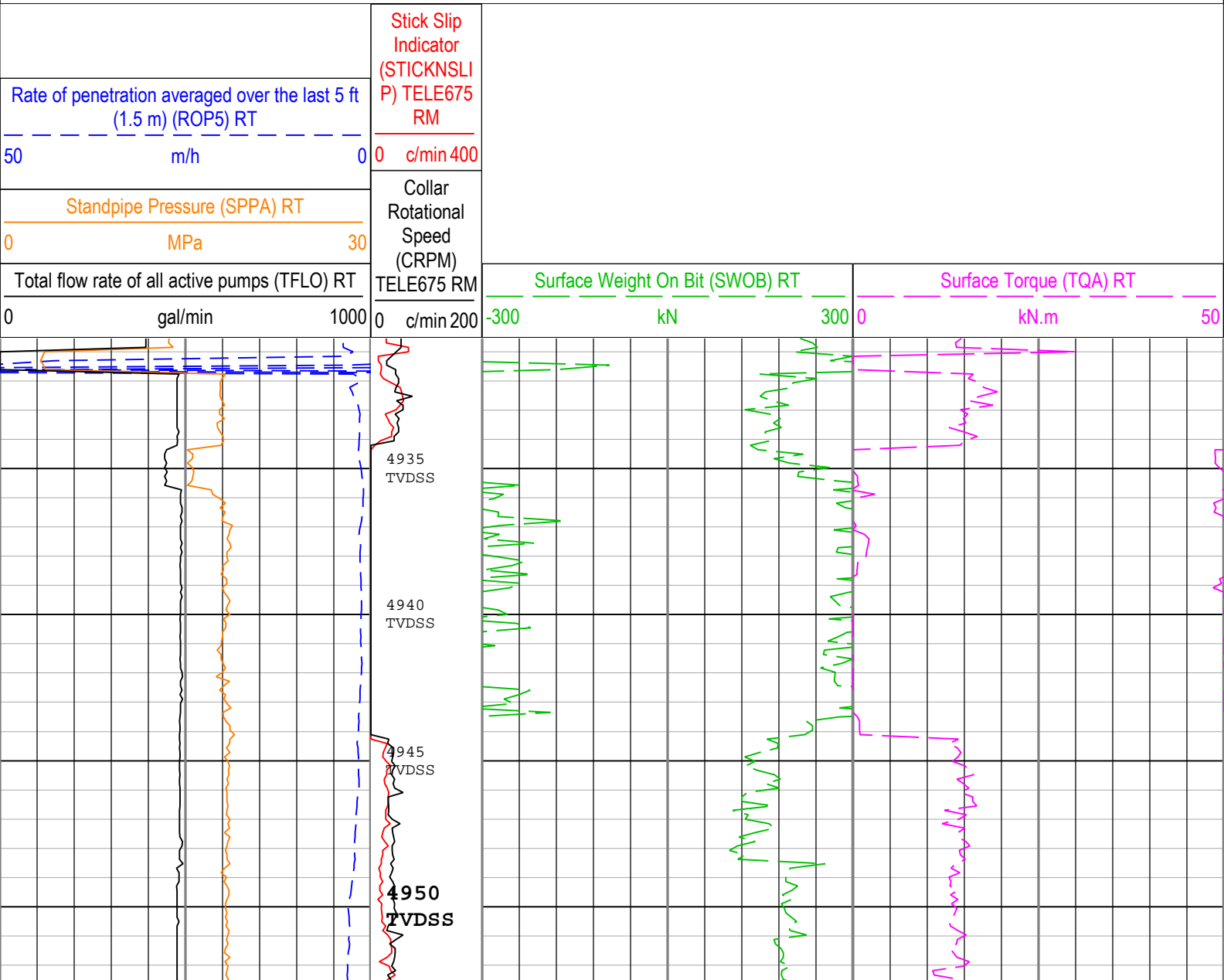
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run2	Drilling	Down	4961.92 m	5051.25 m	30-Dec-2018 5:10:16 AM	05-Jan-2019 10:59:25 AM	Yes

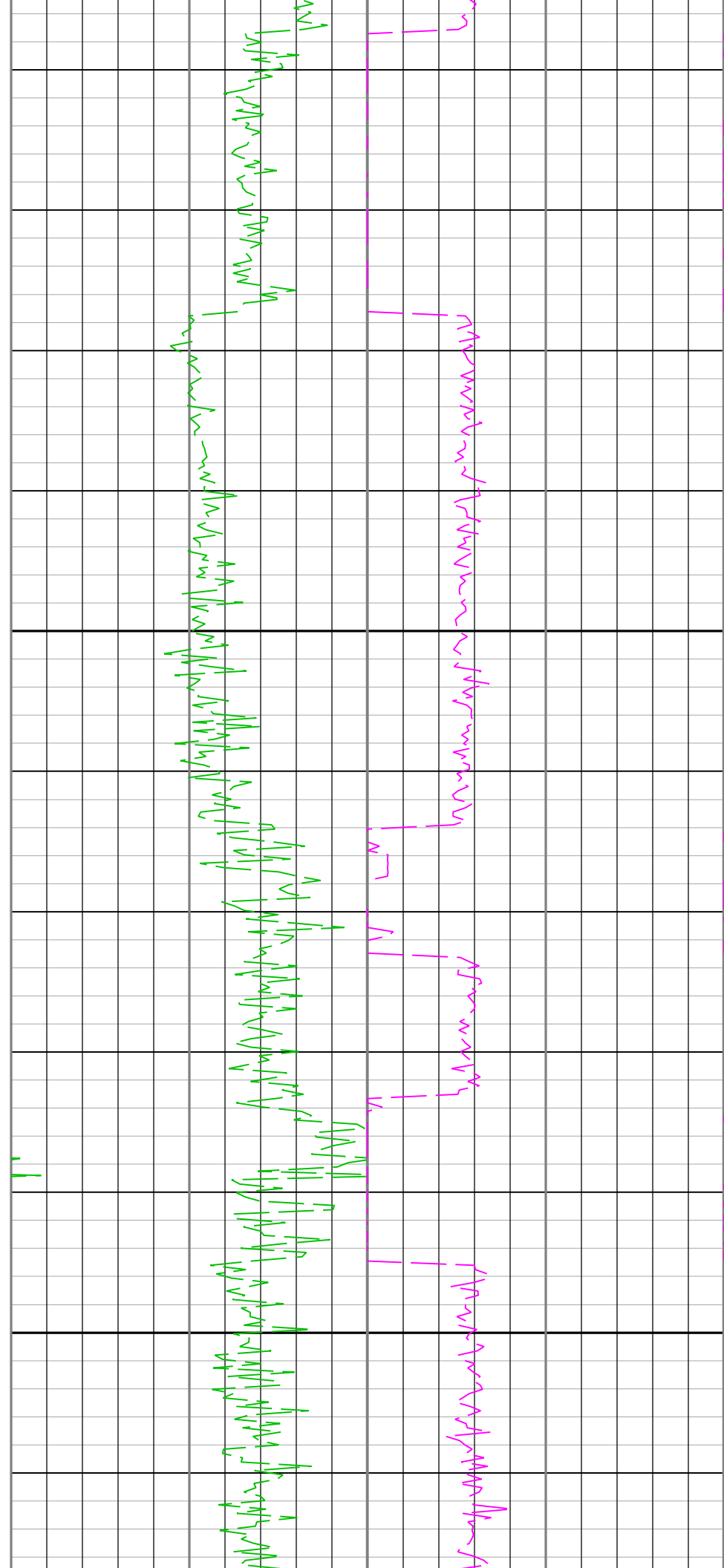
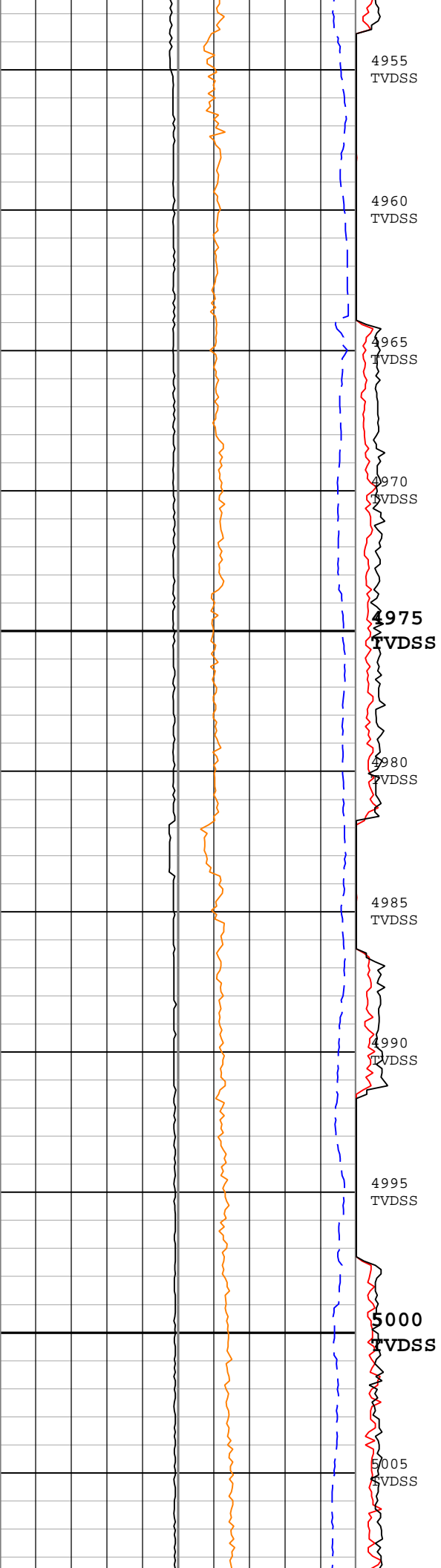
All depths are referenced to toolstring zero

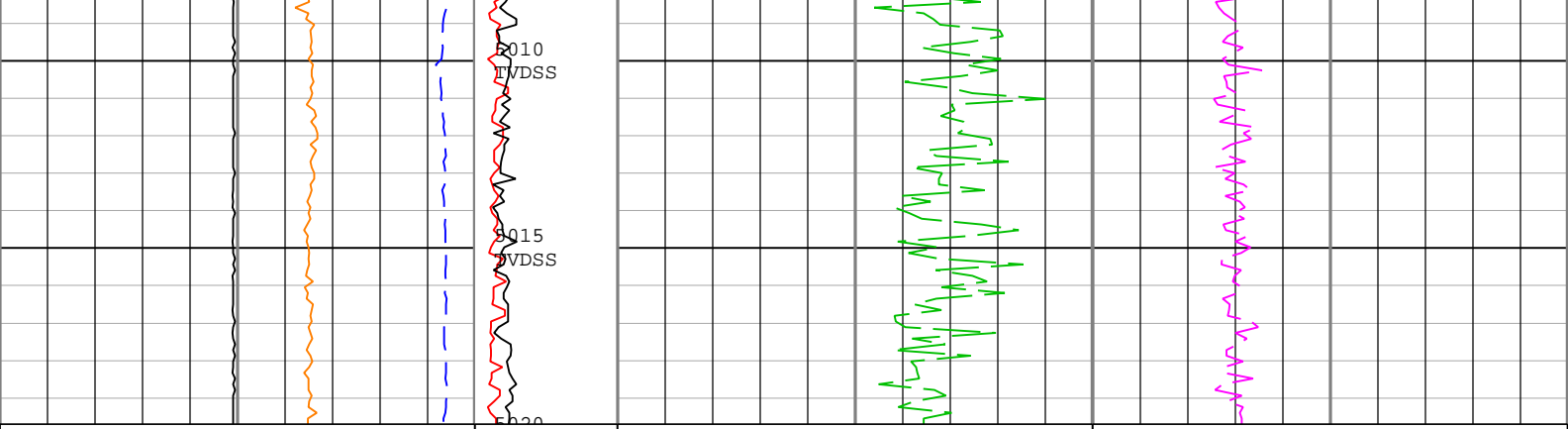
Log

Company: JAMSTEC Well: C0002R
Run2: Drilling: S072

Description: Format: Log (Drilling Mechanics Log 675 RM TVDSS) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 04-Mar-2019 00:48:05







Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT 0 50 m/h 0	Stick Slip Indicator (STICKNSLIP) TELE675 RM 0 c/min 400	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 c/min 200		
Total flow rate of all active pumps (TFLO) RT 0 1000 gal/min			

Description: Format: Log (Drilling Mechanics Log 675 RM TVDSS) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 04-Mar-2019 00:48:05

Channel Processing Parameters	
Tool Control Parameters	

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



