

Drilling Mechanics Log

DML

Single Run Log, True Vertical Depth Sub Sea 1:500

Company: JAMSTEC

Well: C0002T

Field: C0002

Rig Name: D/V Chiky
Wakayama

Prefecture: Wakayama

Country: Japan

Latitude: 33° 18' 3.042" N

Longitude: 136° 38' 12.174" E

Block: Pacific Ocean

FL1: X=652382.39m

FL2: Y=3685843.62m

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: 14-Feb-2019 -- 17-Feb-2019

Log Interval: 4784.00(m)MD - 4804.00(m)MD

Index Types: SSTVD

Index Scales: 1:500

Depth Source: Driller's Depth

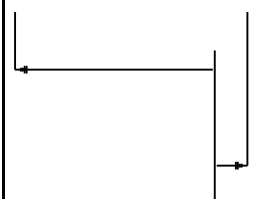
Depth Sensor: DES

Print Type: Final

Spud Date: 26-Oct-2018

Other Services:

Direction and Inclination



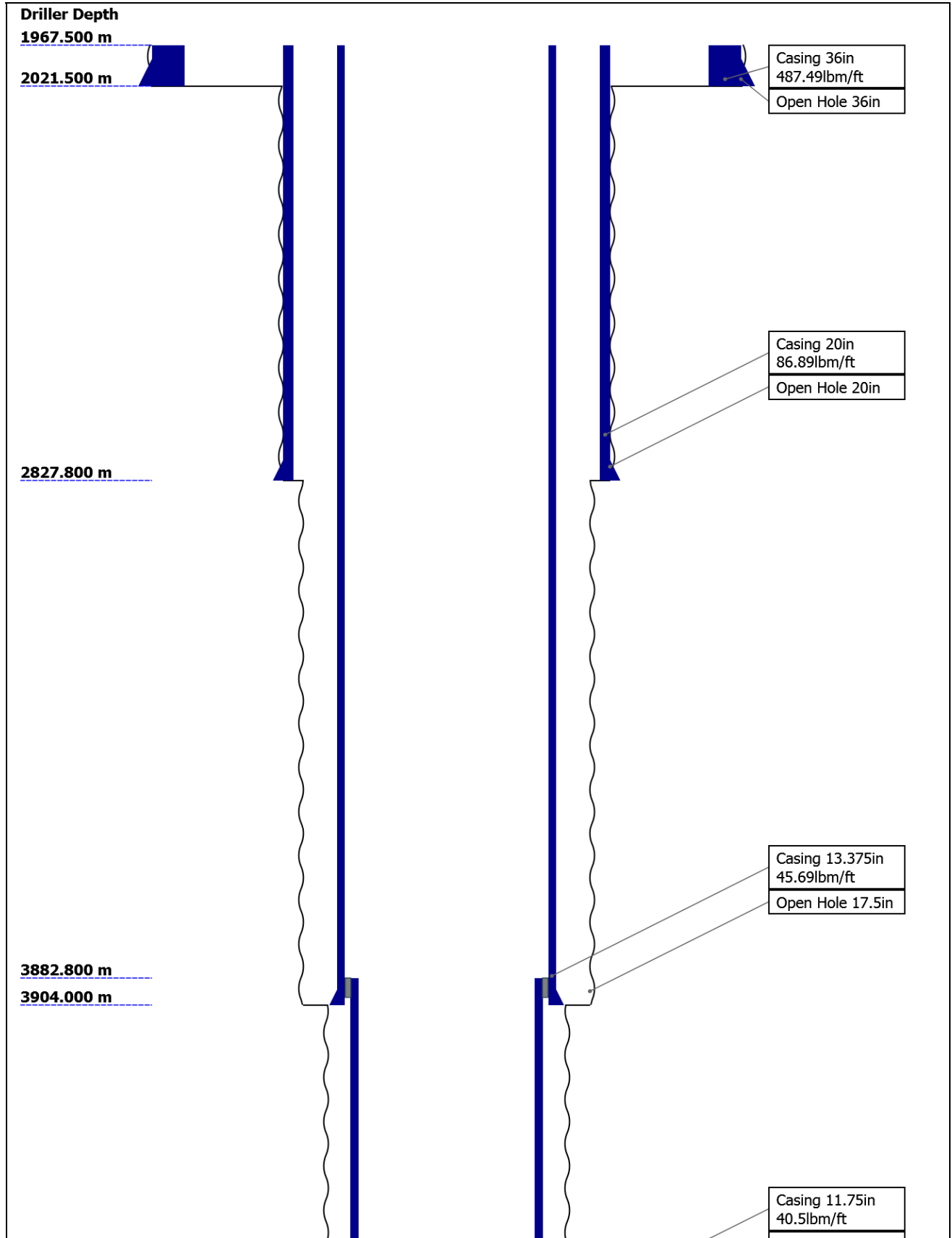
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Well Sketch



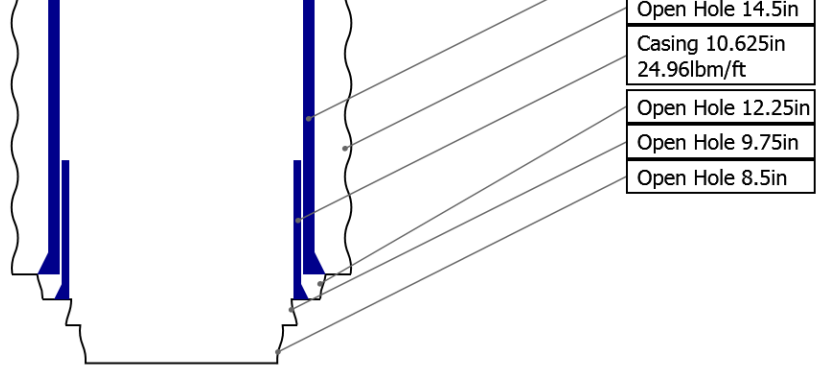
4603.500 m

4756.410 m

4770.220 m

4780.000 m

4804.000 m



Borehole Size/Casing Record

Bit						
Bit Size (in)	36	20	17.5	14.5	12.25	9.75
Top Driller (m)	1967.5	2021.5	2827.8	3904	4756.41	4770.22
Bottom Driller (m)	2021.5	2827.8	3904	4756.41	4770.22	4780
Casing						
Size (in)	36	20	13.375	11.75	10.625	
Weight (lbm/ft)	487.49	86.89	45.69	40.5	24.96	
Inner Diameter (in)	32	18.75	12.415	10.772	9.95	
Grade	X56	X56	N/A	N/A	N/A	
Top Driller (m)	1967.5	1967.5	1967.5	3882.8	4603.5	
Bottom Driller (m)	2021.5	2827.8	3904	4756.41	4770.22	
Bit						
Bit Size (in)	8.5					
Top Driller (m)	4780					
Bottom Driller (m)	4804					
Casing						
Size						
Weight						
Inner Diameter						
Grade						
Top Driller						
Bottom Driller						

Operational Run Summary


Parameter (unit)	Run 1					
Date Log Started	14-Feb-2019					
Time Log Started	21:47:33					
Date Log Finished	17-Feb-2019					
Time Log Finished	11:14:07					
Bit Size (in)	8.500					
Bit Start Depth (m)	4784.00					
Bit Stop Depth (m)	4804.00					
Top Log Interval (m)	4784.00					

Bottom Log Interval (m)	4804.00				
Max Hole Deviation (deg)	5.00				
Azimuth of Max Deviation (deg)	202.00				
Logging Unit Number	OLU-MB8054				
Logging Unit Location	Zone2				
Recorded By	YePu/Ikhsan Anugrah				
Witnessed By	YSanada/YKido				
Service Order Number	18JAP0007				

Borehole Fluids

Parameter(unit)	Run 1				
Fluid Type	Water				
Max Recorded Temperatures (degC)	37.84				
Source of Sample	Active Tank				
Salinity (ppm)	34972.18				
Density (g/cm3)	1.36				
Funnel Viscosity (s)	68				
Fluid Loss (cm3)	7				
PH	11.9				
Source RMF	Pressed				
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 (%)	18				
High Gravity Solids (%)					

Remarks and Equipment Summary

Run 1: Toolstring	Run 1: Remarks
<p>Equip name Length NMDC: 6 3/4"[2] 31.99 :KSBD14859</p>  <p>MP name Offset Schlumberger</p> <p>UBHO: 6 3/4":SB 22.51 Schlumberger D72254</p> <p>X/O: 6 3/4"[2]:7 21.55 Schlumberger 4ET002-06/02</p> <p>TELE675-IWOB:B 21.06 Schlumberger 1755</p>	<p>Depth Reference is driller's depth measured from Rotary Table.</p> <p>Data presented is Recorded Mode data which was acquired while drilling.</p> <p>Reason of POOH: Client called well TD</p> <p>Drilling Time: 10.42 hrs</p> <p>Pumping Time: 20.65 hrs</p> <p>No DTOR reading because of the dpoint issue.</p>

D&I 16.71

ROP 14.36

IWOB 13.35

X/O: 6 3/4"[1]:B 12.51
T-2746-06

Schlumberger

NMDC: 6 3/4"[1] 12.03
:CNLK09012

Schlumberger

Fit Sub: 6 3/4":T 9.15
H0915936-1

Schlumberger

Motor: 6 3/4":61 8.44
250778

Schlumberger





Bit: 8 1/2"

0.25

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: 4780.00 m Inclination: 0.46 deg Azimuth: 202.42 deg
 True Vertical Depth: 4778.21 m North Displacement: 3.60 m East Displacement: 47.26 m
 N-S VSec Origin: 0.00 m E-W VSec Origin: 0.00 m Vertical Section Azimuth: 95.07 deg

D&I Inits Computed and Values Used - Run 1

Geomagnetic Model : HDGM 2018 Geomagnetic Date : 14-Feb-2019
 Computed Location B : 46173.37 nT +/- 300.00nT Used Location B : 46173.37 nT +/- 300.00nT
 Computed Location G : 998.92 mgn +/- 2.50mgn Used Location G : 998.92 mgn +/- 2.50mgn
 Computed Magnetic Dip : 47.03 deg +/- 0.45deg Used Magnetic Dip : 47.03 deg +/- 0.45deg
 Computed Magnetic Dec : -7.17 deg Used Magnetic Dec : -7.17 deg
 Computed Total Correction : -8.07 deg Used Total Correction : -8.07 deg

Survey Quality Index

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 7 : Projection to Bit

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	4764.83	1.96	109.98	----	----	----	----	----	----	----	----	TeleScope	2	0	0
2	4780.00	0.46	202.42	15.17	4778.21	46.76	3.60	47.26	47.40	85.64	0.00	TIP	28	0	0
3	4784.97	2.06	129.90	4.97	4783.18	46.82	3.52	47.32	47.45	85.74	11.91	TeleScope	2	0	0
4	4787.03	2.39	82.62	2.07	4785.24	46.90	3.51	47.39	47.52	85.77	26.27	TeleScope	2	0	0
5	4804.00	5.00	160.00	16.97	4802.18	47.56	2.86	48.00	48.08	86.59	8.92	Other	9	0	7

Run 1

Run 1_DML

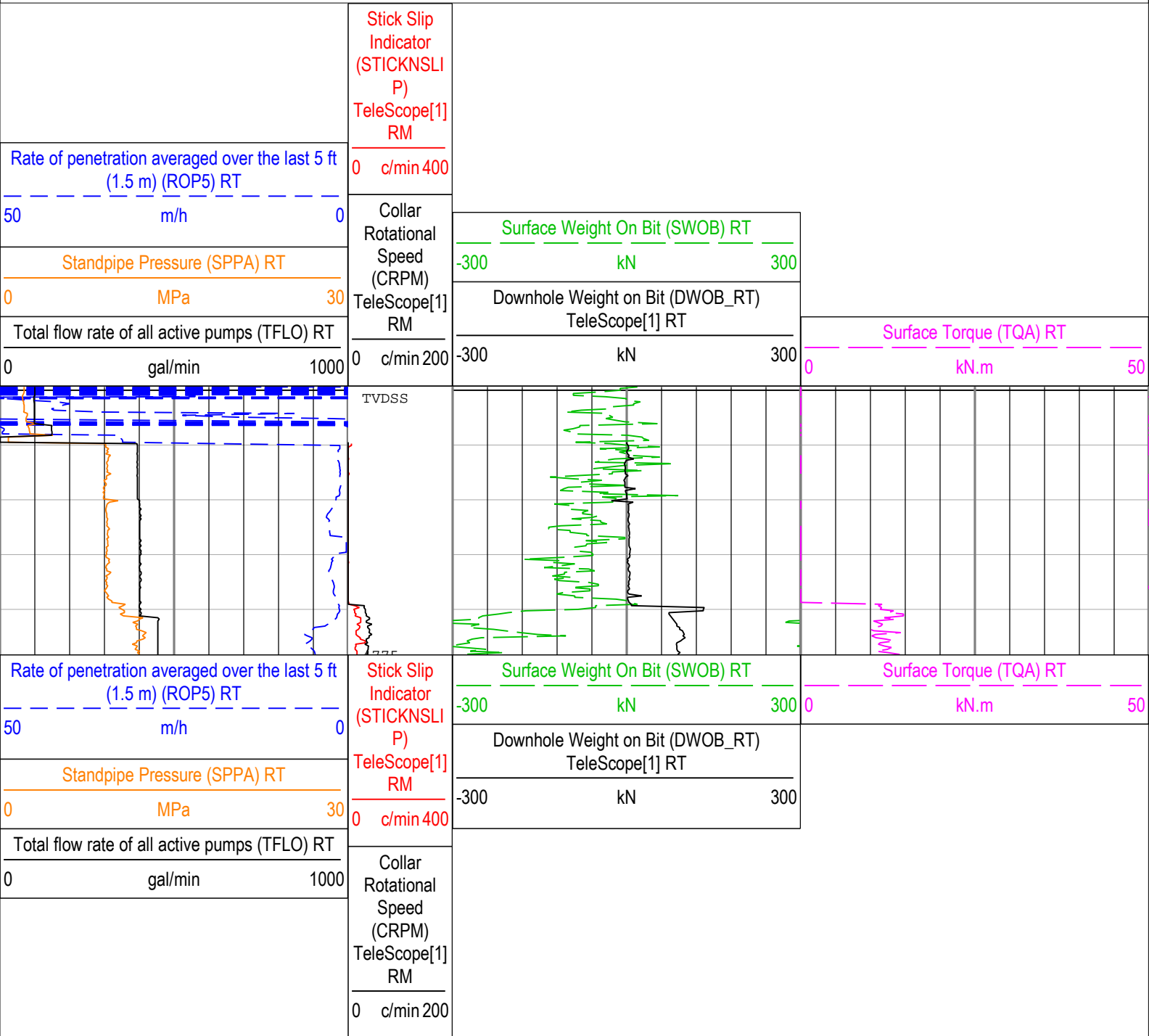
Software Version

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
Run 1	Ream Down 1	Down	4785.21 m	4793.67 m	16-Feb-2019 8:01:15 AM	16-Feb-2019 1:46:21 PM	Yes
Run 1	Drilling	Down	4779.44 m	4804.74 m	14-Feb-2019 9:47:33 PM	17-Feb-2019 11:14:07 AM	Yes

All depths are referenced to toolstring zero



Channel Processing Parameters

Run 1: Parameters

Parameter	Description	Tool	Value	Unit
DFD	Drilling Fluid Density	Borehole	1.36	g/cm3

Tool Control Parameters

Run 1: Parameters

Parameter	Description	Tool	Value	Unit
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

Run 1 Time Zoned Parameters

Pass Drilling

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
DWOB_BETA		14-Feb-2019 21:47:33	16-Feb-2019 07:58:52	4750.942	4765.166
DWOB_BETA	5.88	16-Feb-2019 07:58:52	16-Feb-2019 12:31:31	4765.166	4765.166
DWOB_BETA	5.7	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4765.166	4765.166
DWOB_BETA	5.68	16-Feb-2019 12:31:49	17-Feb-2019 11:14:07	4765.166	4776.24
DWOF		14-Feb-2019 21:47:33	16-Feb-2019 07:58:52	4750.942	4765.166
DWOF	-447.05	16-Feb-2019 07:58:52	16-Feb-2019 12:31:31	4765.166	4765.166
DWOF	-1011.97	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4765.166	4765.166
DWOF	-442.6	16-Feb-2019 12:31:49	17-Feb-2019 11:14:07	4765.166	4776.24
DWOB_ZEROTOOLP		14-Feb-2019 21:47:33	16-Feb-2019 07:58:52	4750.942	4765.166
DWOB_ZEROTOOLP	1.33	16-Feb-2019 07:58:52	16-Feb-2019 12:31:31	4765.166	4765.166
DWOB_ZEROTOOLP	1.37	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4765.166	4765.166
DWOB_ZEROTOOLP	1.37	16-Feb-2019 12:31:49	17-Feb-2019 11:14:07	4765.166	4776.24

Pass Ream Down 1

DWOB_BETA	5.88	16-Feb-2019 08:01:15	16-Feb-2019 12:31:31	4756.708	4761.864
DWOB_BETA	5.7	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4761.864	4761.864
DWOB_BETA	5.68	16-Feb-2019 12:31:49	16-Feb-2019 13:46:21	4761.864	4765.166
DWOF	-447.05	16-Feb-2019 08:01:15	16-Feb-2019 12:31:31	4756.708	4761.864
DWOF	-1011.97	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4761.864	4761.864
DWOF	-442.6	16-Feb-2019 12:31:49	16-Feb-2019 13:46:21	4761.864	4765.166
DWOB_ZEROTOOLP	1.33	16-Feb-2019 08:01:15	16-Feb-2019 12:31:31	4756.708	4761.864
DWOB_ZEROTOOLP	1.37	16-Feb-2019 12:31:31	16-Feb-2019 12:31:49	4761.864	4761.864
DWOB_ZEROTOOLP	1.37	16-Feb-2019 12:31:49	16-Feb-2019 13:46:21	4761.864	4765.166

All depth are at tool zero.

Calibration Report

Company: JAMSTEC
Well: C0002T
Field: C0002
Rig Name: D/V Chikyu
Prefecture: Wakayama
Country: Japan



Schlumberger

Drilling Mechanics Log

DML

Single Run Log, True Vertical Depth Sub Sea 1:500