

Chikyu

DAILY MORNING REPORT

Mission No.:CK24-01Exp. No.:405Report No.:22

Site NameJTCT-02AHole NameC0026A

Lat.37°55.602'NLong.143°04.1280'ESeabed Depth :6,957.0mBRT

Depth : @24:007,405.0mBRT448.0mbsfProgress :166.0mDrilling/Coring/Underreaming Hrs.:22.00hrs

Depth : @06:007,405.0mBRT448.0mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on27-Sep:Continue to 8-1/2"LWD hole (C0026A) to 7,405.0mBRT. Work pipe at 7,401mBRT.

Present Operation @ 06:00 on28-Sep:Continue to Work pipe at 7,401mBRT.

mBRT: meter below rotary table
mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on27-Sep)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation																																																																																																			
0:00	22:00	22:00	DRL	7,405.0	Continue to drill 8-1/2"LWD hole (C0026A) to 7,405mBRT (448mbsf). Sweep 7m3 of SWG twice every stand. <table><thead><tr><th colspan="2">Depth, mBRT</th><th colspan="2">Depth, mbsf</th><th>WOB, kN</th><th>rpm</th><th>Torque</th><th>Pump, gpm</th><th>Pressure, MPa</th><th>ROP set, m/hr</th><th>Remarks</th></tr><tr><th>From</th><th>To</th><th>From</th><th>To</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>7,340.0</td><td>7,345.0</td><td>383.0</td><td>388.0</td><td>40-90</td><td>70</td><td>0.3-14.5</td><td>590</td><td>20.5 - 21.0</td><td><6</td><td>Increase rpm to reduce stick slips</td></tr><tr><td>7,345.0</td><td>7,351.0</td><td>388.0</td><td>394.0</td><td>40-90</td><td>75</td><td>0.4-13.0</td><td>590</td><td>20.5 - 21.5</td><td><6</td><td>Increase rpm to reduce stick slips</td></tr><tr><td>7,351.0</td><td>7,357.5</td><td>394.0</td><td>400.5</td><td>40-100</td><td>80</td><td>1.0-11.6</td><td>590</td><td>20.7 - 21.6</td><td><6</td><td>Increase rpm to reduce stick slips Observe high shock level.</td></tr><tr><td>7,357.5</td><td>7,362.5</td><td>400.5</td><td>405.5</td><td>40-100</td><td>70</td><td>1.1-10.8</td><td>590</td><td>20.8 - 21.7</td><td><6</td><td>Decrease rpm to minimize shock level.</td></tr><tr><td>7,362.5</td><td>7,364.5</td><td>405.5</td><td>407.5</td><td>40-120</td><td>60</td><td>1.1-10.9</td><td>590</td><td>20.7 - 21.2</td><td><6</td><td>Increase WOB and decrease rpm to minimize shock level.</td></tr><tr><td>7,364.5</td><td>7,379.5</td><td>407.5</td><td>422.5</td><td>40-120</td><td>55</td><td>1.1-10.9</td><td>590</td><td>20.7 - 23.2</td><td><6</td><td>Decrease rpm to minimize shock level.</td></tr><tr><td>7,379.5</td><td>7,405.0</td><td>422.5</td><td>448.0</td><td>40-120</td><td>70</td><td>1.1-10.9</td><td>590</td><td>20.7 - 22.3</td><td><6</td><td>Increase rpm to reduce stick slips</td></tr></tbody></table> Meanwhile, Space out SD-RCB center bit and Deplugger Lay out 6-1/2"Hydraulic-Mechanical Jars. (05:00) Akatsuki arrives Chikyu. MWD data mBRT inclination (deg.) azimuth (deg.) 7,004.0 0.2 266 7,039.8 0.3 305 7,079.8 0.1 269 7,115.0 0.1 356 7,284.7 0.4 163 7,345.3 0.2 320	Depth, mBRT		Depth, mbsf		WOB, kN	rpm	Torque	Pump, gpm	Pressure, MPa	ROP set, m/hr	Remarks	From	To	From	To								7,340.0	7,345.0	383.0	388.0	40-90	70	0.3-14.5	590	20.5 - 21.0	<6	Increase rpm to reduce stick slips	7,345.0	7,351.0	388.0	394.0	40-90	75	0.4-13.0	590	20.5 - 21.5	<6	Increase rpm to reduce stick slips	7,351.0	7,357.5	394.0	400.5	40-100	80	1.0-11.6	590	20.7 - 21.6	<6	Increase rpm to reduce stick slips Observe high shock level.	7,357.5	7,362.5	400.5	405.5	40-100	70	1.1-10.8	590	20.8 - 21.7	<6	Decrease rpm to minimize shock level.	7,362.5	7,364.5	405.5	407.5	40-120	60	1.1-10.9	590	20.7 - 21.2	<6	Increase WOB and decrease rpm to minimize shock level.	7,364.5	7,379.5	407.5	422.5	40-120	55	1.1-10.9	590	20.7 - 23.2	<6	Decrease rpm to minimize shock level.	7,379.5	7,405.0	422.5	448.0	40-120	70	1.1-10.9	590	20.7 - 22.3	<6	Increase rpm to reduce stick slips
Depth, mBRT		Depth, mbsf		WOB, kN	rpm	Torque	Pump, gpm	Pressure, MPa	ROP set, m/hr	Remarks																																																																																														
From	To	From	To																																																																																																					
7,340.0	7,345.0	383.0	388.0	40-90	70	0.3-14.5	590	20.5 - 21.0	<6	Increase rpm to reduce stick slips																																																																																														
7,345.0	7,351.0	388.0	394.0	40-90	75	0.4-13.0	590	20.5 - 21.5	<6	Increase rpm to reduce stick slips																																																																																														
7,351.0	7,357.5	394.0	400.5	40-100	80	1.0-11.6	590	20.7 - 21.6	<6	Increase rpm to reduce stick slips Observe high shock level.																																																																																														
7,357.5	7,362.5	400.5	405.5	40-100	70	1.1-10.8	590	20.8 - 21.7	<6	Decrease rpm to minimize shock level.																																																																																														
7,362.5	7,364.5	405.5	407.5	40-120	60	1.1-10.9	590	20.7 - 21.2	<6	Increase WOB and decrease rpm to minimize shock level.																																																																																														
7,364.5	7,379.5	407.5	422.5	40-120	55	1.1-10.9	590	20.7 - 23.2	<6	Decrease rpm to minimize shock level.																																																																																														
7,379.5	7,405.0	422.5	448.0	40-120	70	1.1-10.9	590	20.7 - 22.3	<6	Increase rpm to reduce stick slips																																																																																														
22:00	24:00	2:00	SP	7,405.0	Work pipe at 7,401mBRT After connect stand, observe high torque and stall pipe at 7,401mBRT. Encounter stuck pipe. Pump 10m3 of SWG. Attempt to break string with overpull 300kN >30times with pump 590gpm x 22MPa. No success																																																																																																			

Time Breakdown (00:00 - 06:00 on28-Sep) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	SP	7,405.0	Work pipe at 7,401mBRT Attempt to break string with overpull 300kN >15times with pump 590gpm x 22MPa. No success Layout stand with one single on the Hydraracker no.2 and pick up one single and connect to HPS Attempt to break string with overpull 500kN >9times with pump 590gpm x 22MPa. No success Attempt to rotate string with pump 590gpm x 22MPa. No success Sweep 10m3 of SWG and apply pump 715gpm x 31.9MPa. Attempt to jarring down and apply slack off weight 400kN >15times . No success (suspect DP above seabed is bending). Apply 900kN overpull and attempt to jarring up 15times w/o pump. Success to fire only one time (5th attempt). Apply 1050kN overpull and attempt to jarring up 20times w/pump and w/o pump. No success. *Hook position becomes 10m higher while overpulling.

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)		Meter-age	Hrs.	WOB (kN)		rpm		Total Rev. (krev)	ROP (m/hr)	Dull Condition							
							From	To			Min.	Max.	Min.	Max.			Inner	Outer	Dull	Loc.	B	G	O.D.	RP
2	8.5	Smith	BXZ716M	-	QG1124	7 x 12	7,340.0	7,405.0	65.0	54.14	0	120	0	70	705.03	1.2								

BHA Record @24:00

4	8-1/2"LWD	8-1/2" Bit x 6-1/2" Mud motor x MicroScope x TeleScope x SonicScope x 6-3/4" drilling DC(1jt) x Float sub w/float x Filter sub x 6-3/4" drilling DC(3stds) x 6-1/2"H-M Jar x 6-3/4" drilling DC(1std) x XO#1 x 5" DP V-150 (24stds) x XO#2 x 5" DP S-140 (66stds) x 5-1/2" DP S-140 (22stds) x XO#3 x 5-1/2" DP S-150(26stds) x XO#4 x 5-1/2" DP UD-165 (30stds) x XO#5 x 6-5/8" DP Z-140 (7stds) x 6-

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10", 10')	API	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp In Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min 5min

Mud Pumps : 14-P-220 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"			22.0	6"DC 5"DP
2	6"	65	325		
2	6"				
4	6"	53	265		

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	349.9	61.5	74.9
Potable Water	m3	284.5	2.5	0.0
Drill Water	m3	1,580.0	0.0	0.0
Fuel	m3	6,101.7	47.1	0.0
Lube, Oil	Ltrs	129,400	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	7
MQJ Crew	97
MWJ	11
Scientist	25
LSS	