

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :76

Site NameJTCT-01AHole NameC0019N

Lat.37°56.3303'NLong.143°54.7712'ESeabed Depth :6,924.0 mBRTRT-MSL :28.5 m

Report Date :21/Nov/2024

Depth : @24:007,814.5 mBRT890.5 mbsfProgress :154.5 mDrilling/Coring/Underreaming Hrs. :20.25 hrs

Depth : @06:007,823.0 mBRT899.0 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on20-Nov :Continue to drill down to 7,752.5mBRT. Short trip. Resume to drill down to 7,814.5mBRT. Trouble shoot for HPS.

Present Operation @ 06:00 on21-Nov :Continue to drill down to 7,823.0mBRT.

Time Breakdown (00:00 - 24:00 on20-Nov)

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	4:30	4:30	DRL	7,752.5	Continue to drill down 8-1/2"hole from 7,660.0mBRT to 7,752.5mBRT (736.0-828.5mbsf). Depth (mBRT (mbsf)MP (gpm x MPa)Torque (rpm x kNm)WOB (kN)Ave. ROP (m/hr) 7,660.0 - 7,718.5 (736.0 - 794.5)500 x 10.7-12.270 x 0.1-10.920-7040 7,718.5 - 7,725.0 (794.5 - 801.0)500 x 10.6-11.470 x 0.1-11.240-10026 Sweep out 5m3 SWG every stand. 7,725.0 - 7,752.5 (801.0 - 828.5)500 x 10.7-12.180 x 0.1-14.030-10033 Sweep out 15m3 SWG.
4:30	5:45	1:15	TRIP	7,752.5	Short trip from 7752.5mBRT to 7,487.5mBRT. Up: from 7,752.5mBRT to 7,487.5mBRT (7 stands). Observe no excess drag. Down: from 7,487.5mBRT to 7,529.0mBRT (1 stand). Observe no excess drag.
5:45	6:15	0:30	CORE	7,752.5	Install drain hose.
6:15	8:15	2:00	TRIP	7,752.5	Resume to short trip from 7,529mBRT to 7,752.5mBRT. Down: from 7,529.0mBRT to 7,742.0mBRT (6 stand). Observe no excess drag. Observe taking weight slightly at 7,742.0mBRT. Pick up to 7,740.0mBRT, and start pumping with 250gpm and rotation with 30rpm. Ream down from 7,740mBRT to 7,744.0mBRT two times. WOB: 0-40kN, HPS: 30rpm x 0.9-3.4kNm, MP:250gpm x 3.4-3.8MPa. Increase pump rate and rotation to 50rpm and 500gpm to ream down to 7,752.5mBRT. WOB: 0-50kN, HPS: 30rpm x 0.5-4.8kNm, MP:500gpm x 10.5-11.0MPa.
8:15	12:30	4:15	DRL	7,785.5	Resume to drill down from 7,752.5mBRT to 7,785.5mBRT (828.5-861.5mbsf). Sweep out 10m3 SWG every stand. Depth (mBRT (mbsf)MP (gpm x MPa)Torque (rpm x kNm)WOB (kN)Ave. ROP (m/hr) 7,752.5 - 7,757.0 (828.5 - 833.0)500 x 10.7-11.870 x 0.1-11.820-6025 7,757.0 - 7,770.0 (833.0 - 846.0)500 x 10.2-11.170 x 0.1-12.240-10026 7,770.0 - 7,785.5 (846.0 - 861.5)500 x 10.1-11.080 x 0.1-13.030-10016 Unable HPS to screw out from DP due to malfunction of HPS motor A & B.
12:30	14:45	2:15	RR	7,785.5	Trouble shoot for Motor of HPS. Observe "Run disable" of Motor A & B of HPS and change emergency relay of Motor A to new one, recover Motor A & B function.
14:45	0:00	9:15	C&C	7,814.5	Resume to drill down from 7,785.5mBRT to 7,814.5mBRT (861.5-890.5mbsf). Sweep 10m3 SWG and ream down to back to the bottom. No observation excess drag. Sweep out 10m3 SWG every stand. Reciprocate 1 std twice after kelly down. Depth (mBRT (mbsf)MP (gpm x MPa)Torque (rpm x kNm)WOB (kN)Ave. ROP (m/hr) 7,785.5 - 7,800.0 (861.5 - 876.0)500 x 10.1-10.580 x 0.1-11.030-1007 Observe no progress at 7,795.5mBRT for 30min. Reciprocate strings and get progress. Suspect to encounter hard formation or tend to stick slip. 7,800.0 - 7,814.5 (876.0 - 890.5)500 x 10.2-10.690 x 0.1-12.040-1005 Observe no progress at 7,807.0, 7,808.5, 7,812.5mBRT but after minutes later, get progress. After lay down 1jt and connection, observe torque spike (2.1-3.1kN=>0.1-6.2kN x 40rpm) at 7,806-7,808mBRT. Ream up and down 6 times with 40rpm x 500gpm and 3times with 60rpm x 500gpm around 7,806-7,808mBRT. However, observe torque spike continuously.
(05:00) Ibuki arrives at location.					
From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	DRL	7,823.0	Continue to drill down from 7,814.5mBRT to 7,823.0mBRT (890.5-899.0mbsf). Continue to ream up and down 2times with 60rpm x 500gpm around 7,806-7,808mBRT but observe torque spike continuously. Reciprocate at 7,806-7,808mBRT and observe excess drag (up:30kN / down: 70kN) but decide to continue to drill. When lower to 7,811.0mBRT, observe torque spike again. Stay bit at 7,811.0mBRT a few minute, and torque spike is gone. Pick up to 7,806.0mBRT and stay bit at the same depth. Try to eliminate the torque spkie and observe torque spike is gone. When run back to 7,814.5mBRT, set drilling parameter and eliminate torque spike at 7,812.5mBRT by the same way. Resume to drill down to 7,836.0mBRT. Pump 10m3 SWG (F.vis: 96s). Depth (mBRT (mbsf)MP (gpm x MPa)Torque (rpm x kNm)WOB (kN)Ave. ROP (m/hr)Estimated Tight spot 7,814.5 - 7,823.0 (890.5 - 899.0)500 x 10.2-10.890 x 0.1-12.040-10027,806.0 - 7,808.5mBRT 7,811.0 - 7,812.5mBRT (03:10) Akatsuki arrives at location. (03:40-04:55) Advisory status due to cargo work. APRS not available by abnormal noise from Akatsuki.

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.	ROP (m/hr)	Dull Condition							
							FromTo			Min. : Max.	Min. : Max.	(krev)		Inner	Outer	Dull	Loc.	B	G	O.D.	RP
7	8.5	NOV	CJPC713S	-	312252	7 x 16	7,660.07,814.5	154.5	20.57	0100	090	103.11	7.5								

BHA Record @24:00

9	SD-RCB	8-1/2"Core bit x Float valve sub x Near bit sub (w/o stabilizer) x Outer core barrel x Landing sub (w/o stabilizer) x Head sub x XO#1 x 6-3/4"Coring Collar(5std) x XO#2 x 5"DP V-150 (23stds) x XO#3 x 5"DP S-140 (66stds) x 5-1/2"DP S-140 (22stds) x XO#4 x 5-1/2"DP S-150 (27stds) x XO#5 x 5-1/2"DP UD-165 (30stds) x XO#6 x 6-5/8"DP Z-140 (7stds) x 6-5/8"DP UD-165
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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 InOut	K+	n	K	LGS	FIT 20/40 (mm) 0 min5 min

Mud Pumps : 14-P-2205.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	50	250	12.2	DC 5"DP
2	6"				
4	6"	50	250		

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	246.0	68.7	41.7
Potable Water	m3	251.0	5.0	0.0
Drill Water	m3	860.0	24.0	0.0
Fuel	m3	3,772.2	40.1	0.0
Lube, Oil	Ltrs	107,100	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	6
MQJ Crew	101
MWJ	19
Scientist	28
Outreach officer	2
Grapher	2
Sub-contractor	
OCC	
WL	
Expro	
NuStar	3
GE	
Total	161

Mud Materials on Board @24:00hrs (unit: kg)

Item	Received	Used	Stock
Barite			100,000
Tel-Gel			118,000
Caustic soda			5,025
Lime			5,200
Flowzan			25

Mud volume

PHG (m3)	157
Kill mud (m3)	46
SWG (m3)	161
Pre-Mix (m3)	30

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	240
Riser Tension (kN)	-
V.D. Load (ton)	12062
Max Draught (m)	9.0
Thruster (kW)	1060

Heli Information @24:00

Ft.	Time		Passenger	
No.	Arrived	Departed	Are.	Dept.
1	09:35	09:48	14	14
2	13:57	14:05	3	2

Boat Information @24:00

Akatsuki (Supply boat)	Status	Sail to Chikyu
Ibuki (Guard boat)	Status	Chikyu (Arrive at 5:00)

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	22	

Remarks

Well Cost (1,000 Yen) based on the cost by

Daily	
Cumulative	

Reported by : T. Miyoshi / T.Yokoyama

Approved by : I.Sawada

Today's Schedule: Continue to drill down to 7,836.0mBRT. Recover center bit. Cut SD-RCB Core.