Chikyu DAILY MORNING REPORT

Mission No. : CK24-01 **Exp. No. :** 405 **Report No. :** 100

Site Name JTCT-01A Hole Name C0019Q Lat (UWTV). 37°56.2988'N Long.(UWTV) 143°54.7733'E Seabed Depth : 6,928.0 mBRT RT-MSL : 28.5 m **Report Date :** 15/Dec/2024

Lat (Ship). 37°56.3086'N Long.(Ship) 143°54.7737'E

Depth : @24:00 7,853.0 mBRT 925.0 mbsf Progress : 0.0 m Drilling/Coring/Underreaming Hrs. : 0.00 hrs

Depth : @06:00 7,853.0 mBRT 925.0 mbsf LAST CASING : 13-3/8" x 45.00 mbsf(6,973.0 mBRT)

Summary of Operation on 14-Dec : Continue POOH 4-1/2" CSG hanger. RIH 4-1/2"TBG w/drillpipe. Run sensor assembly

Present Operation @ 06:00 on 15-Dec : Continue to run sensor assembly. Recover coreline sinker bar.

Time Breakdown (00:00 - 24:00 on 14-Dec

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	10:15	10:15	COMPLETION(N)	7,853.0	Continue RIH 4-1/2"TBG w/drillpipe to 6,843.0mBRT
					Fill up every 15stds.
					Break circulation and check pressure.
					Pressure increase to 5.0MPa when fill up string with 150gpm.
					Stop pumping and start to pump from 100gpm for check pressure.
					100 - 150 - 200 - 250 - 300gpm x 1.3 - 1.5 - 1.9 - 2.6 - 3.4MPa.
					Pump 1 x string volume with 300gpm x 3.4MPa, ongoing.
					Meanwhile,
					(09:30-10:15) Run UWTV.
					Open RGR door and skid working cart to well center.
					Install and PU UWTV. Skid working cart to FWD.
					Run UWTV to 100m with painting at 50m and 100m, ongoing.
10:15	13:30	3:15	UWTV(N)	7,853.0	Run UWTV to 7m above shoe
					Meanwhile,
					Pump 1 x string volume with 300gpm x 3.4MPa.
13:30	14:00	0:30	COMPLETION(N)	7,853.0	Continue to run 4-1/2"TBG w/drillpipe to 6,925.0mBRT.
					Lowering with UWTV, maintain UWTV position 7m above 4-1/2in TBG shoe
					Move Vessel to previous re-entry position of C0019Q
14:00	18:00	4:00	COMPLETION(N)	7,853.0	Seabed survey
					(14:00-16:45)
					Check seabed depth by tagging with 4-1/2in TBG shoe, tag depth is 6,931.0mBRT which shows more deeper area than C0019Q.
					Observe Hole C0019D and C0019Q on Sonar screen
					Attempt to move seven times to find C0019Q as following sonar, but no success
					Check Vessel position and move 80m to C0019D
					(16:45-18:00) Move to C0019D as following previous re-entry Vessel position, success to find Hole C0019D by Sonar.
					Attempt to move 40m(265deg) from C0019D, then find C0019Q successfully
					After find C0019Q wellhead, immediately open CMC and Re-enter and RIH C0019Q hole directly.
					Observe cuttings accumulate around the Wellhead, approximately 2m (Wellhead stick up 4m, same as before)
18:00	20:45	2:45	COMPLETION(N)	7,853.0	Continue RIH 4-1/2"TBG w/drillpipe to 7,823.0mBRT.
					Observe no excess drag
					Fill up string w/200gpm x 2.0MPa at 7,257.0mBRT
20:45	21:15	0:30	COMPLETION(N)	7,853.0	Install drain hose
					Fill up string w/200gpm x 2.0MPa
21:15	21:30	0:15	COMPLETION(N)	7,853.0	Land 4-1/2"CSG hanger onto wellhead
					Confirm 4-1/2"CSG hanger landing to wellhead properly w/70kN
21:30	21:45	0:15	COMPLETION(N)	7,853.0	Load sinker bar.
					Pick up string and load sinker bar to drill floor.
					Break connection and retract dolly.
					Remove Yellow tugger from return hose for using sensor running.
21:45	24:00	2:15	COMPLETION	7,853.0	Run sensor assembly
					(21:45-23:15)
					MU and run Sinker w/Impression block, sensor rope w/128ea sensors with Blue and Yellow tugger inside drillpipe
					PU 200kg sinker bar (bottom) with Blue tugger and connect same to sensor rope. Lower and secure sinker bar (bottom) with C-plate.
					PU another 200kg sinker bar (top) with Blue tugger and connect to 200kg sinker bar (bottom). Lower and secure sinker bar (top) with C-plate.
					Connect MTL hanger w/short loop rope to coreline sinker bar, and connect MTL hanger w/short loop rope to 200kg sinker bar (top).
					(23:15-24:00)
					Run sensor assembly by coreline sinker bar w/ 50m/min. Set coreline length zero at MTL hanger bottom.
					While running sensor assmebly, apply pump 50 to 75gpm x 1.1 to 1.2MPa
					Meanwhile,
					(04:00-06:00) Advisory status due to wind speed >18m/sec

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	2:30	2:30	COMPLETION	7,853.0	Continue to run and set sensor assembly
					Depth / Coreline speed / Pump rate / Coreline tension
					0 - 1,650m / 50m/min / 50gpm x 1.2MPa / 22kN (Down) at 1,650m
					1,650 - 2,050m / 50m/min / 75gpm x 1.2MPa / 26kN (Down) at 2,050m
					2,050 - 5,500m / 50m/min / 50gpm x 1.2MPa / 75kN (Down) at 5,500m
					5,500 - 6,820m / 30m/min / 50gpm x 1.2MPa / 92kN (Down) at 6,820m
					6,820 - 6,910m / 10m/min / 0gpm / 97kN (Static) *Check static weight at 6,910m
					6,910 - 6,943m / 5m/min / 0gpm / 97kN (Down)
					Landing MTL hanger at 6,943m (4-1/2"CSG hanger) by reducing coreline tension to 92kN from 97kN.
					Check static weight 93kN at 6,943m and confirm the MTL hanger landing.
					Apply jarring down 3times to release MTL hanger from coreline sinker bar.
					Shear pin would be sheared at 1st jarring down. Another 2times of jarring down is applied for confirmation.
					Check static weight at 6,910m once pick up to 6,900m.
					Observe the weight is decreased to 92kN and confirm MTL hanger is properly released.
2:30	5:45	3:15	COMPLETION	7,853.0	Recover coreline sinker bar to surface.
					Start pumping with 50gpm x 1.2MPa, but observe pressure increased to 1.4MPa, and stop pumping.
					Continue to recover coreline sinker bar.
					Observe coreline tension drop to 55kN from 62kN (-7kN) at 3,737m.
					Check if the tension drop happens again at 3,737m: No observation at same tension drop.
					Suspect MTL hanger released at that time, but decide to pick up coreline to surface.
					Observe tension drop happens at 3,070m (-3~4kN), 2,660m (-3~4kN) and 1,934m (-3~4kN) when coreline at the edge of drum while recovering.
					Pump 25gpm to confirm if float shoe is plugged because 5MPa of pressure is required to break the shoe before re-entry.
					Pressure increases to 5.5MPa and hole pressure.: Unable to determine whether the holding pressure happens by float shoe or sensor assembly.
					Continue to recover coreline sinker bar to surface to drift coreline sinker bar to 4-1/2"CSG hanger.
					Observe tension drop happens at 1,510m(-3~4kN) and 1,112m(-5kN) when coreline at the edge of drum while recovering.
5:45	6:00	0:15	COMPLETION	7,853.0	Drift run through drillpipe to confirm no dropping object inside, ongoing.
					Replace weakend shear pin and run coreline sinker bar.

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT) From	Depth (mBRT) To	Meter-age	Hrs.	WOB (kN) Min.	WOB (kN) Max.	rpm Min.	rpm Max.	Total Rev. (krev)	ROP (m/hr)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP

BHA Record @24:00

13	Completion	Float shoe x 4-1/2"TBG 1m pup (2jts) x 4-1/2"TBG 3m pup x 4-1/2"TBG R2 (94jts) x 4-1/2"TBG 1m pup x CSG hanger x HART x 8-1/2"coring DC 6m pup x 8-1/2"coring DC (2stds) x XO#1 x 5"DP V-150 (22stds) x XO#2 x 5"DP S-140 (42stds) x 5-1/2"DP S-140 (22stds) x XO#3 x 5-1/2"DP S-150 (27stds) x XO#4 x 5-1/2"DP UD-165 (30stds) x XO#5 x 6-5/8"DP Z-140 (11stds) x 6-5/8"DP UD-165

Hook Wt. (knt) @24:00 7,830.0 mBRT

Hook Load	4,050
BHA	90
4-1/2"TBG	190
HPS & Traveling block	660
CSG/TBG	80

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	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min	FIT 20/40 (mm) 5min

Jar Rotating Time @24:00 S/N:

Today		Total	hrs

Motor Pumping time @24:00 S/N:

Today		Total	hrs

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	60	300	3.4	DC	5"DP
2	6"					
4	6"					

Personnel @24:00

MarE3	7
MQJ Crew	99
MWJ	19
Scientist	27
JAMSTEC PR	1
Outreach officer	1
Sub-contractor	
Expro	6
NuStar	3
Total	163

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

Item	Received	Used	Stock
Barite			100,000
Tel-Gel			94,000
Caustic soda			3,425
Lime			3,600
Flowzan			25

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1				
2				

Boat Information @24:00

Kaiyu (Supply boat)	Status	Off hire
Ibuki (Guard boat)	Status	Off hire

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	164.6	70.4	24.0
Potable Water	m3	172.0	3.5	0.0
Drill Water	m3	595.0	244.2	63.2
Fuel	m3	2,671.8	47.6	0.0
Lube, Oil	Ltrs	90,100	600.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Mud volume

PHG (m3)	0
Kill mud (m3)	44
SWG(m3) 85se	0
SWG(m3) 61se	44
Pre-Mix (m3)	0

Marine Information @24:00

Heave (m)	0.7
Pitch (deg)	0.4
Roll (deg)	0.2
Vessel Heading (deg)	305
Riser Tension (kN)	-
V.D. Load (ton)	10535
Max Draught (m)	9.0
Thruster (kW)	1000

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	37	

Remarks

Weather Information

Time	Weather	Temp. (degC) Air	Temp. (degC) SW	Barometer (hPa)	Wind Speed (m/s)	Wind Dir. (deg)	Wind Gust (m/s)	Wave Height (m)	Wave Dir. (deg)	Wave Period (s)	Current Speed(knt)	Current Dir. (deg)	Visibility (km)
24:00	bc	8.0	20.3	1009.0	15.3	307	17.7	3.1	320	6.6	0.4	323	22.0

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

Daily	
Cumulative	

Today's Schedule: Continue drift run. Unlock HART. POOH to surface.

Reported by : N.Sakurai / T. Yokoyama

Approved by : I. Sawada / T.Saruhashi