Chikyu DAILY MORNING REPORT

Mission No. : CK24-01 **Exp. No. :** 405 **Report No. :** 10

Site Name	JTCT-01A	Hole Name	C0019F	Lat.	37°56.3451'N	Long.	143°54.7940'E	Seabed Depth :	6,924.0 mBRT	RT-MSL :	28.5 m
	JTCT-01A		C0019G		37°56.3451'N		143°54.7940'E		6,924.0 mBRT		

Depth : @24:00 7,024.0 mBRT 100.0 mbsf Progress : 100.0 m Drilling/Coring/Underreaming Hrs. : 8.50 hrs
6,936.5 mBRT 12.5 mbsf 12.5
Depth : @06:00 mBRT mbsf LAST CASING : x mbsf(mBRT)

Summary of Operation on 15-Sep : Run 8-1/2"LWD assembly, Dive UWTV, Conduct seabed survey, Drill 8-1/2"LWD hole (C0019F / G), Troubleshoot TeleScope
Present Operation @ 06:00 on 16-Sep : Troubleshoot TeleScope, POOH 8-1/2"LWD assembly
Time Breakdown (00:00 - 24:00 on 15-Sep)

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:00	1:00	TRIP		Continue to run 8-1/2"LWD assembly to 6,851mBRT
					(00:30-01:00)Check Circulating pressure 100, 200, 300, 400, 500, 600gpm x 1.7, 3.5, 6.2, 10.2, 15.2, 20.9MPa.
1:00	4:00	3:00	UWTV		Dive UWTV to 6,800m
					(01:00-02:45)Pump w/200gpm x 3.8MPa
					(01:00)Start drifting with 0.5knot from 1.5NM
					(3:20)Change drifting speed from 0.5knot to 0.7, 0.9knot.
					(03:45)Observe offset between vessel and UWTV gets 500m from UWTV's beacon.
4:00	5:45	1:45	OTHER(N)		Stop vessel and wait for UWTV catching up on vessel
					Lay out 1std and 1jt of 6-5/8"DP(Z-140), & pick up another 1std & 1jt of same due to possibility of overstress on top of string by large offset of string while drifting.
5:45	10:00	4:15	OTHER		Conduct seabed survey
					Lower LWD assembly and UWTV and find JFAST Observatory's wellhead.
					Move vessel to LWD hole and tag on seabed at 6,919.5mBRT, plan is 6,926.5mBRT.
					Move vessel from LWD hole to 5m, 10m in the direction of 208deg, and tag on seabed at each point.
					The decision is made to move LWD hole, observatory hole, and SD-RCB hole 10m in the direction of 208deg from plan.
					Move vessel to updated SD-RCB hole, updated Observatory hole, HPCS hole and updated LWD hole.
					Finalized seabed depth, LWD:6,924mBRT, SD-RCB:6,927.5mBRT, Observatory:6,928mBRT, HPCS:6,905mBRT
10:00	11:00	1:00	DRL	6,934.0	Spud 8-1/2"LWD hole (C0019F) and Wash down 6,924.0 - 6,934.0mBRT(0.0 - 10.0mbsf) w/150gpm x 2.7MPa
					(10:40)Change Pump rate from 150gpm to 250gpm x 4.8MPa
11:00	14:15	3:15	UWTV	6,934.0	Recover UWTV to surface
					Pick up the string 2m off bottom with 150gpm x 2.6MPa
14:15	15:00	0:45	OTHER	6,934.0	Move RGR to well center.
					Close RGR door and install retainer plate underneath RGR door.
15:00	21:45	6:45	DRL	7,024.0	Drill down 8-1/2"LWD hole (C0019F) from 6,933.0mBRT to 7,024.0mBRT (9 - 100mbsf).
					6,934.0 - 6,957.0mBRT (10.0 - 33.0mbsf): WOB 0-10kN, HPS 60rpm x 0.5 - 6.0kNm, MP 500gpm x 15.0-15.9MPa.
					Set Auto ROP 30m/hr. Reciprocate string 5m every 5m advance. Take survey: 7.2deg inclination at 6.7mbsf(6,930.7mBRT).
					6,957.0 - 6,992.5mBRT (33.0 - 68.5mbsf): WOB 0-10kN, HPS 50rpm x 1.0 - 4.0kNm, MP 500gpm x 14.9-15.7MPa.
					Set Auto ROP 30m/hr. Reciprocate string 3m every 3m advance and 20m at half stand advance. Take survey, but fail to get the inclination.
					6,992.5 - 7,024.0mBRT (68.5 - 100.0mbsf): WOB 0-10kN, HPS 60rpm x 0.5 - 5.0kNm, MP 500gpm x 15.0-15.8MPa.
					Set Auto ROP 30m/hr. Reciprocate string 4.5m every 4.5m advance. Take survey: 9.0deg inclination at 81.3mbsf(7,005.3mBRT).
					(19:51)Observe low oil level alarm at TeleScope.
21:45	22:15	0:30	LOG(N)		POOH to 6,921.0mBRT
22:15	23:00	0:45	LOG(N)	6,936.5	Spud 8-1/2"LWD hole (C0019G) and wash down 6,924.0 - 6,936.5mBRT (0.0 - 12.5mbsf)
					6,924.0 - 6,933.5mBRT (0.0 - 9.5mbsf): WOB 0-5kN, MP 250gpm x 4.5-4.8MPa.
					6,933.5 - 6,936.5mBRT (9.5 - 12.5mbsf): WOB 0-10kN, MP 500gpm x 15.3-15.8MPa.
					Reciprocate string 3m every 3m advance.
					Observe standpipe pressure decreased from 15.6MPa to 14.9MPa and lose TeleScope signal right after.
23:00	24:00	1:00	LOG(N)	6,936.5	Observe TeleScope signal failure and troubleshoot same, ongoing.
					Attempt to acquire TeleScope signal by increasing pump rate to 550gpm, 600gpm and 650gpm, but fail to acquire the signal.
					Stop #1 Mud Pump due to the belt tripping when increase pump rate to 700gpm.
					After swapping #1 Mud Pump and #3 Mud Pump, increase pump rate to 700gpm and 750gpm, but fail.

Time Breakdown (00:00 - 06:00 on **16-Sep**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:30	1:30	LOG(N)		Continue to troubleshoot TeleScope signal failure
					Attempt to acquire TeleScope signal by down link, and increasing pump rate to 500gpm with single mud pump, but fail to acquire the signal.
					Decision is made to POOH and replace TeleScope with backup.
					Suspected telescope lost due to insulation oil leakage.
1:30	6:00	4:30	LOG(N)		POOH to 8-1/2"LWD assembly to surface (4,744m at 6:00)

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
2	8.5	Smith	BXZ716M	-	QG1125	7 x 12	6,924.0	7,024.0	100.0	4.87	0	10	50	60	51.67	20.8	Re-Run for C0019G hole after bit is clear from seabed							
RR2a	8.5	Smith	BXZ716M	-	QG1125	7 x 12	6,924.0	6,936.5	12.5	5.24	0	10	0	0	54.16	46.7								

BHA Record @24:00

2	8-1/2"LWD	8-1/2" Bit x 6-1/2" Mud motor x Float sub w/float x MicroScope x TeleScope x SonicScope x 6-3/4" drilling DC(1jt) x Filter sub x 6-3/4" drilling DC(2stds) 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(25stds) x XO#4 x 5-1/2" DP UD-165 (29stds) x XO#5 x 6-5/8" DP Z-140 (1 x 6-5/8" DP UD-165

Hook Wt. (knt) @24:00 6936,5 mBRT

Hook Load	3,450
BHA	146
Below Jar	120
HPS & Traveling block	680
CSG/TBG	

Jar Rotating Time @24:00 S/N: 474-69575

Today	5.24	Total	5.24	hrs

Motor Pumping time @24:00 S/N: 624094

Today	9.80	Total	9.80	hrs

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

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) 6"DC	Ann. Vel. (m/min) 5"DP
1	6"			30.6	-	-
2	6"	75	375			
3	6"	75	375			

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	206.2	58.4	53.6
Potable Water	m3	314.1	2.1	0.0
Drill Water	m3	1,700.0	0.0	0.0
Fuel	m3	6,658.0	51.2	0.0
Lube, Oil	Ltrs	136,400	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	5
MQJ Crew	101
MWJ	7
Scientist	27
LSS	2
Outreach	
JAMSTEC	
Sub-contractor	
SLB-WL	
SLB-LWD	4
Expro	
NuStar	3
Total	149

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

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			208,000
Caustic soda			9,375
Lime			9,320
Flowzan			25

Mud volume

PHG (m3)	376
Kill mud (m3)	60
SWG (m3)	122
Pre-Mix (m3)	60

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	210
Riser Tension (kN)	-
V.D. Load (ton)	15515
Max Draught (m)	9.0
Thruster (kW)	1700

Heli Information @24:00

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

Boat Information @24:00

Akatsuki (Supply boat)	Status	-
Ibuki (Guard boat)	Status	Chikyu

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	41	

Remarks

(10:00)Emergency drill

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	r	25.5	28.4	1015.0	7.7	318	9.4	2.0	230	6.4	2.6	40	22.0

Today's Schedule: POOH 8-1/2"LWD assemby to surface, Lay out TeleScope and pick up backup one, MU and run 8-1/2"LWD assembly

Reported by : T.Yokoyama, Y.Oishi
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