

Chikyū DAILY MORNING REPORT

Mission No. : CK16-02 Exp. No. 365

Report No. : 24

Site Name : C0010 Hole Name : C0010B Lat. 33° 12.5930'N Long. 136°41.1806'E Report Date : 19/Apr/2016

Depth 10C : @24:00 2,853.0 mBRT 300.0 mbsf Progress : 0.0 m Seabed Depth : 2,553.00 mBRT RT-MSL : 28.5 m

Depth 10C : @06:00 2,863.5 mBRT 309.5 mbsf Drilling/Coring/Jetting Hrs. : 13.00 hrs LAST CASING : x mbsf

Summary of Operation on 18-Apr : Drill down to 2854mBRT, Cut Core of C9010B-1R, POOH, Move vessel to C0010C, Spud in and drill down to 2853mBRT.
 Present Operation on 19-Apr : Cut Core from 2853 to 2872 mBRT (18.0 m :C0010C-1R, C0010B-2R) mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on 18-Apr) mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	4:45	4:30	DRL	Continue Drill down from 2802 to 2854mBRT. WOB: 10-30kN, TRQ: 30-70rpm x 0.5 - 4.5kNm, STPP: 60spm x 2.4MPa, Ave. ROP: 29m/hr. Sweep out 5m3 SWG and reaming one time every stand (03:00) Run RCB sinker bar, confirm landing and retrieve center bit successfully (plugged two nozzles)
4:30	8:00	3:30	CORE	Cut Core of C0010B -1R (RCB 2854.0 - 2863.5mBRT 9.5m). Activate CMC and AHC. (04:45) Drop inner barrel. Chase w/50spm 0.6MPa to 2.2MPa (9min). Check P.P. 40-1.4, 50-2.2, 60-2.7, 80-4.3 (SPM-MPa). (04:45 - 05:30) While SWG sweep out from Bit, observe pump pressure and HPS TRQ rapidly increases (Indication of Pack-off). Pump Pressure w/80spm: 4.6 -> 8.0MPa, HPS TRQ w/70spm: 2.7 -> 12.0kN-m. Remedy hole condition w/reciprocating pipe and reaming. Confirm hole condition is good and make a decision to start RCB coring. Coring Parameter: WOB 0-25kN, 40rpm x 2.0-7.0kNm, 40spm x 2.4MPa, Ave. ROP: 35m/hr. Sweep out 5m3 SWG. (07:00 - 08:00) While unloading sinker bar, observe HPS TRQ & P.P. rapidly increases over 12kN-m, 4.5 Mpa (Indication of Pack-off). Make a decision to abandon C0010B hole due to bad hole condition by Scientist.
8:00	9:00	1:00	TRIP	POOH 10-5/8" RCB BHA from 2850 to 2544mBRT (10m above seabed).
9:00	10:00	1:00	MOVE	Move vessel to C0010C (Latitude: 33°12.5899' N, Longitude: 136°41.1748' E). Check bit condition by ROV (obviously NO dull) Drop center bit (chase 50spm, pressure 1.1MPa), confirm center bit landing by ROV. Tag seabed @2553mBRT
10:00	24:00	14:00	DRL	Spud in C0010C and drill down 10-5/8"RCB BHA to 2853mBRT. Activate CMC and AHC. Jetting down with 30 - 40spm x 1.5 - 1.9MPa @ 2553 - 2586mBRT. WOB: 10-30kN, TRQ: 30-60rpm x 0.8 - 4.7kNm, STPP: 60-70spm x 3.8MPa, Ave.ROP: 30 - 35m/hr. Sweep out 5m3 SWG and reaming one time every stand * Drill down w/continuously pumping SWG @ 2845 - 2853mBRT. Confirm hole condition is good (23:55) Run sinker bar for retrieving center bit.

Time Breakdown (00:00 - 06:00 on 19-Apr) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	1:30	1:30	DRL	Continue run sinker bar and retrieve center Bit. After retrieve center bit, sweep out by hi-vis. Check P.P. without inner barrel 30-0.4, 40-0.5, 50-1.7, 60-1.0, 80-1.7 (spm-MPa).
1:30	4:15	2:45	CORE	Cut Core of C0010C -1R (RCB 2853.0 - 2862.5mBRT 9.5m). Drop inner barrel. Chase w/50spm 0.6MPa to 1.6MPa (11min). Check P.P. 30-0.6, 40-1.0, 50-1.6, 60-2.2, 80-4.0 (spm-MPa). Coring Parameter: WOB 0-40kN, 20-30rpm x 0.3-4.0kNm, 30-50spm x 0.6-1.8MPa, Ave. ROP: 12m/hr. *Cut with 20rpm, 30spm and low ROP around 10m/h at the beginning then increase each parameter, step by step. *Conduct two times sinker bar run for retrieving inner barrel. Sweep out 5m3 SWG with 80spm
4:15	6:00	1:45	CORE	Cut Core of C0010C -2R (RCB 2862.5 - 2872mBRT 9.5m). Drop inner barrel. Chase w/50spm 0.6MPa to 1.3MPa (12min). Sweep out 5m3 SWG. Coring Parameter: WOB 0-30kN, 20-45rpm x 0.3-5.5kNm, 30-50spm x 0.6-1.5MPa, Ave. ROP: 10m/hr. Sweep out 5m3 SWG.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)		Meter-age	Hrs.	WOB (kN)			rpm	Total Rev. (krev)	Dull Condition												
							From	To			Min.	Max.	Min.			Max.	Min.	Max.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP		
RR3a	10-5/8"	BHI	BHC405C	M333	7152743	5 x 18/32"	2,553	2,853.0	300.0	14.0	10	30	30	60	65.1													

BHA Record		Hook Wt. (kN) @ 2853mBRT														
3	RCB	10-5/8"Core bit x Long bit sub w/stab. x 8-1/2"Core Barrel x Top sub x Head sub x 10-5/8"Stabilizer x 8-1/2"Core DC (2) x XO x 10-5/8"Stabilizer x XO x 8-1/2"Core DC (6) x XO														
		Total Hook Weight 1,908														
		RCB BHA 140														
		HPS & Traveling block 750														

Mud Properties		Mud Materials on Board @24:00hrs (unit: kg)																				
Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel SL (10", 10')	WL	Cake	pH	PF	Cl-	Sand	Oil	Solid	K+	LGS	MBC	Temp In	Temp Out	n	K
PHG	8:00	-	1.05	284	64	70	54	87		8.2									22		0.56	4.00
SWG	10:00	-	1.04	115	24	54	15	16		11.8									22		0.39	6.99
Kill mud	15:00	-	1.30	142	36	42	22	40		9.7									22		0.55	2.57

Mud Pumps : 14-P-220 @ 5.00 gallon/stroke @97%					
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6	35	350	3.8	65.0 (DC)
2	6	35	350	3.8	31.0 (DP)

Geologic Information		Lithology of core	
From	To		

Materials Stock on Board @24:00				
Item	Unit	Received	Used	Stock
Fresh Water	m3	87.4	53.2	325.7
Potable Water	m3	0.0	3.4	275.1
Drill Water	m3	0.0	0.0	2,216.0
Fuel	m3	0.0	51.8	6,490.0
Lube Oil	Ltrs	0.0	0	115,900
Hel Fuel	Ltrs	0.0	0	0.0

Personnel @24:00	
CDEX	6
Scientist	11
MQJ Crew	99
MQJ (Other)	2
MWJ	15
ROV	5
NuStar	1
Cementing (Sch)	1
ODI	1
Telnte	1
Franks	0
Swelppacker(Halliburton)	0
Total	141

Mud Volume (m3)	
Prehy Gel (1.05sg)	92
SWG (1.04sg)	102
Kill Mud (1.30sg)	23

Mud Materials on Board @24:00hrs (unit: kg)			
Item	Received	Used	Stock
Barite (Bulk)			
Kunigel-VO (Bulk)			31,000
Calcium hydroxide		120	2,080
Caustic soda		200	1,775
XCD-Polymer			190
Defoamer 30C			180
Telnitz GXL			144
Resler			3,700
Treat HS			1,000

BOAT INFORMATION			
Boat Name	Status	Time	
Heisel-maru	Current survey	Departed	Arrived
Akatsuki	Current survey	-	10:00

Weather Information		Temp. (degC)		Barometer		Wind		Wave		Current		Visibility	
Time	Weather	Air	SW	(hPa)	(mPa)	Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed/(knt)	Dir. (deg)
24:00	o	15.5	19.9	1015.9	1015.9	4.5	31.0	5.3	1.5	90	6.6	2.7	117
Today's Schedule:		Continue Cut RCB core @C0010C											

HELICOPTER INFORMATION			
Fit. No.	Time Arrived	Time Departed	Passenger
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-

Safety (HSE) and other information		
Incident	Last Incident	No. LTA
LTA		
HUNTS cards	16	
Remarks	Muster drill : oil Spill Drill	

Marine Information @24:00	
Heave (m)	0.3
Pitch (deg)	0.4
Roll (deg)	0.1
Vessel Heading (deg)	271
Riser Tension (ton)	-
V.D. Load (Moon)	15184.6
Max Draught (m)	9.00
Thruster (kW)	2,000

Reported by : N.Sakurai / T.Shiohara
 Approved by : T.Ikawa