

**Chikyu DAILY MORNING REPORT**

**Mission No. :**

**CK16-02**

**Exp. No. 365**

**Report No. :**

**26**

**Site Name :** C0010

**Hole Name :** C0010C

**Lat. 33° 12.5899'N**

**Long. 136°41.1748'E**

**Report Date : 21/Apr/2016**

Depth 10C : @24.00 **2,948.0** mBRT **395.0** mbsf Progress : **28.5** m Seabed Depth : **2,553.00** mBRT RT-MSL : **28.5** m  
 Depth 10D : @06.00 mBRT mbsf Drilling/Coring/Jetting Hrs. : **19.25** hrs LAST CASING : x mbsf  
 Summary of Operation on **20-Apr** : Cut Core from 2853.0 to 2919.5 mBRT (C0010C-7R, 8R, 9R, 10R, 11R, 12R), Circulation, Cut Core of C0010C -13R.  
 Present Operation to 06:00 on **21-Apr** : POOH, move to C0010D, Rig service mBRT: meter below rotary table  
 Time Breakdown (00:00 - 24:00 on **20-Apr**) mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	0:45	0:45	CORE	Continue retrieve C0010C -7R (RCB 2910.0 - 2919.5mBRT 9.5m) by coreline winch (19th/Apr/2016 23:40 - 0:40) Load Sinker bar and recover core, unload Sinker bar.
0:45	4:15	3:30	CORE	Cut Core of C0010C -8R (RCB 2919.5 - 2929.0mBRT) (0:50 - 1:01) Drop inner barrel. Pump 20m3 SWG (SWG 5m3: chase and sweep out w/80spm x 6.0MPa, SWG 15m3: spot to annulars for drill pipe connection) While SWG start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ: 12kN-m+/-), SPP 8.6MPa x 80spm. (2:10 - 3:15) Cut Core -8R- 9.5m Coring Parameter: WOB 60-90kN, 15-20rpm x 2.2-5.6kNm, 30spm x 1.1MPa. Ave. ROP: 9.5m/hr. (3:15 - 4:15) Load Sinker bar and recover core, unload Sinker bar.
4:15	7:15	3:00	CORE	Cut Core of C0010C -9R (RCB 2929.0 - 2933.5mBRT) (4:15 - 4:36) Drop inner barrel. Chase w/50spm. Sweep out 10m3 SWG, 60spm x 3.8MPa. While SWG start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ: 12kN-m+/-), SPP 6.7MPa x 60spm. (5:35 - 6:00) Cut Core -9R- 4.5m Coring Parameter: WOB 50-75kN, 20rpm x 2.2-8.1kNm, 30spm x 1.2-2.0MPa. Ave. ROP: 10m/hr. (Hole condition good) (6:10 - 7:10) Load Sinker bar and recover core, unload Sinker bar.
7:15	10:15	3:00	CORE	Cut Core of C0010C -10R (RCB 2933.5 - 2938mBRT) (7:15 - 7:45) Drop inner barrel. Chase w/50spm. Sweep out 10m3 SWG, 30spm x 3.8MPa. While SWG start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ: 15kN-m+/-), SPP 8.4MPa x 60spm. (8:50 - 9:10) Cut Core -10R- 4.5m Coring Parameter: WOB 40-75kN, 15-20rpm x 2.9-9.5kNm, 30spm x 1.2-2.5MPa. Ave. ROP: 10m/hr. * Pipe stall @2937.6mBRT, but continue to coring w/releasing TRQ. (9:15 - 10:15) Load Sinker bar and recover core, unload Sinker bar.
10:15	14:15	4:00	CORE	Cut Core of C0010C -11R (RCB 2938.0 - 2943.0mBRT) (10:15 - 12:15) Drop inner barrel. Sweep out 10m3 of SWG w/ 50spm. While SWG start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ: 15kN-m+/-), increase Pump pressure. Take a long time for remedying hole condition by reaming and reciprocation. (12:15 - 13:00) Cut Core -11R- 5.0m Coring Parameter: WOB 50-70kN, 30rpm x 5.0-12.0kNm, 30spm x 1.5MPa. Ave. ROP: 18.4m/hr. * Pipe stall @2941.0mBRT, but continue to coring w/releasing TRQ. (13:00 - 14:00) Load Sinker bar and recover core, unload Sinker bar.
14:15	19:15	5:00	CORE	Cut Core of C0010C -12R (RCB 2943.0 - 2948.0mBRT) (14:15 - 17:30) Drop inner barrel. Sweep out 5m3 of 1.30sg Kill mud w/ 50spm. While SWG start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ: 18kN-m+/-), increase Pump pressure. Take a long time for remedying hole condition by reaming and reciprocation. (17:30 - 18:15) Cut Core -12R- 5.0m Coring Parameter: WOB 30-60kN, 20-30rpm x 2.0-7.0kNm, 30spm x 1.5MPa. Ave. ROP: 15.0m/hr. * Pipe stall (HPS TRQ: 18kN-m+/-) @2947.5mBRT, but continue to coring w/releasing TRQ. (18:15 - 19:15) Load Sinker bar and recover core, unload Sinker bar.
19:15	22:30	3:15	CIRC	Circulation for remedying hole condition. Pump and sweep out 10kL of Guar Gum mud. While Guar Gum mud start flowing from Bit, observe indication of Pack off condition. * Pipe stall (HPS TRQ and Pump pressure). Increase pump stroke w/monitoring hole condition (20spm x 0.7MPa - 80spm x 1.9MPa).
22:30	24:00	1:30	CORE	Cut Core of C0010C -13R. (22:30 - 23:00) Drop inner barrel and chase w/20spm x 1.0 -> 1.6MPa. (23:00 - 24:00) Attempt to start coring, but unable to set coring parameter due to severe hole condition. -> Make a decision to abandon C0010C hole. * Unable to rotate lower 60rpm and increase pump rate due to pipe stall (HPS TRQ 18kN-m +/-). * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	1:45	1:45	TRIP	Start POOH 10-5/8" RCB BHA from 2948 to 2510mBRT, 40m above seabed @C0010C
1:45	2:30	0:45	MOVE	Vessel move to C0010D hole (Latitude: 33°12.6024' N, Longitude: 136°41.2042' E) Observe 2 Bit nozzles plugged (total 5 nozzles). Apply pump 140spm x 12.6MPa to clear all nozzles. Confirm all nozzles unplugged by ROV.
2:30	3:30	1:00	OTHER	Load Sinker bar and recover inner barrel, unload Sinker bar.
3:30	5:00	1:30	RS	Service Rig / Lubricate T.B, HPS, Dolly.
5:00	6:00	1:00	OTHER	Circulate without centre bit @2510mBRT and check pressure. Check P.P. 30-0.4, 40-0.4, 50-0.4, 60-0.7, 80-1.0, 100-1.8 (spm-MPa). (23:00 - 24:00) Attempt to start coring, but unable to set coring parameter due to severe hole condition. -> Make a decision to abandon C0010C hole. Drop Centre bit, chase w/50spm, land with 1.0MPa and check pressure. Check P.P. 30-0.4, 40-0.6, 50-1.0, 60-1.4, 80-2.6, 100-4.0 (spm-MPa)

Bit	Size (in)	MFR	Type	IADC Code	S/No	Nozzles	Depth (mBRT)	Meter- age	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	Inner	Outer	Dull Condition
RR3a	10-5/8"	BHI	BHC405C	M333	7152743	5 x 18/32"	From : 2,553 ; To : 2,948.0	395.0	33.3	Min. : 10 ; Max. : 90	30 ; 60	177.8			

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10 <sup>4</sup> , 10 <sup>5</sup> )	WL	Cake	pH	Pl	Cl-	Sand	Oil	Solid	K+	LGS	MBC	Temp (In, Out)	n	K
PHG	10:00	-	1.05	221	65	65	40 ; 74			8.5									20 ; 20	0.58	3.39
SWG	11:00	-	1.04	124	9	56	16 ; 17			12.3									20 ; 20	0.19	20.25
Rester	17:30	-	1.03	59	16	24	5 ; 7			9.8									20 ; 20	0.49	1.94

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)	31.0 (DP)
2	6	35				
3						

Personnel @24:00	CODEX	Count
Scientist	6	6
MIQJ Crew	11	11
MIQJ (Other)	2	2
MWJ	16	16
ROV	6	6
NuStar	0	0
Cementing (Sch)	1	1
ODI	0	0
Telrite	1	1
Franks	0	0
Swellpacker(Halliburton)	0	0
Total	143	143

Mud Materials on Board @24:00hrs (unit: kg)	Item	Received	Used	Stock
Barrite (Bulk)				
Kunigel-VO (Bulk)		6,500		17,000
Calcium hydroxide		160		1,720
Caulstic soda		200		1,475
XCD-Polymer				150
Defoamer: 30C				160
Telrite GXL				144
Rester		540		3,160
Telrite HS				1,000
Barrite (Bulk)				23,930
Loaded materials @Shimizu				
Total				

HELICOPTER INFORMATION			
Flt. No.	Time Arrived	Time Departed	Passenger Arr. / Dept.
1	9:20	9:30	9 / 9
2	11:30	11:40	7 / 7
3			
4			

Weather Information		Temp. (degC)		Barometer		Wind		Wave		Current		Visibility	
Time	Weather	Air	SW	(hPa)	Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	(km)
24:00	c	18.0	20.9	1023.1	3.4	199.0	4.8	1.3	50	6.0	3.9	104	22

Today's Schedule : Drill down to 2935 mBRT (inc. wash down), Cut RCB core @C0010D

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