

Chikyu DAILY MORNING REPORT

Mission No. : **CK12-06**

Exp. No. : **Exp 338**

Report No. : **93**

Site Name : **C0022** Hole Name : **C0022B** Lat. **33°13.0833'N** Long. **136°43.4667'E** Report Date : **2/Jan/2013**
 Depth : @24.00 **2,817.00** mBRT **114.50** mbsf Progress : **57.00** m Seabed Depth : **2,702.50** mBRT
 Depth : @06.00 **2,836.00** mBRT **133.50** mbsf Drilling/Coring/Jetting Hrs. : **5.50** hrs LAST CASING : **28.5** m
 Summary of Operation on **1-Jan** : RIH 11-716' HPCS / EPCS / ESCS coring Assembly, Spud-in C0022B hole, Cut core.
 Present Operation to 06.00 on **2-Jan** : Cut ESCS core (#15-17) mBRT: meter below rotary table
 Present Operation to 06.00 on **2-Jan** : Cut ESCS core (#15-17) mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	1:45	1:45	Core	Cut #6 HPCS core (2760-2769.5mBRT, 57.5-67.0mbsf). Close corline BOP and pump with 40spm, pressure increase 20.2MPa and shoot HPCS inner barrel. Recover inner barrel with 250KN of DW assist.
1:45	2:15	0:30	DRL	Uninstall sinker bar. Drill down to 2769.5mBRT. Sweep 5m3 of SWG w/140spm+8MPa. HPS: 40rpm x 0.1-4.5KN-m.
2:15	3:00	0:45	Core(Other)	Install sinker bar, Run HPCS inner barrel.
3:00	3:45	0:45	Core	Cut #7 HPCS core (2769.5-2779mBRT, 67.0-76.5mbsf). Close corline BOP and pump with 40spm, pressure increase 17.9MPa and shoot HPCS inner barrel. Recover inner barrel with 276.5KN of DW assist.
3:45	4:15	0:30	DRL	Uninstall sinker bar. Drill down to 2779mBRT. Sweep 5m3 of SWG.
4:15	5:00	0:45	Core(Other)	Install sinker bar, Run HPCS inner barrel.
5:00	5:15	0:15	Core	Cut #8 HPCS core (2779.5-2789mBRT, 76.5-84.5mbsf). Close corline BOP and pump with 40spm, pressure increase 18.5MPa (max pressure 277.6MPa) and shoot HPCS inner barrel.
5:15	6:45	1:30	Core (N)	Pull inner barrel with 450kN (max overpull) of DW assist but recover unsuccessful. Overdrill from 2779.5-2786.5mBRT. Keep core line tension 35kN and lower BHA to 2779mBRT. Start over drill as per instruction. (2779-2781.5mBRT 2.5m) Pump 30spm x 0.1-1.6MPa. HPS 10rpm x 0.4-3.0KN-m. Oversee pressure increase to 9.2 and 16.2MPa. Stop overdrill and attempt to pick up DW w/450KN, unsuccessfully. (2781.5-2784mBRT 2.5m) Pump 10spm x 0.1-1.6MPa. HPS 10rpm x 0.4-3.0KN-m. Control ROP under 20m/h. Attempt to pick up DW w/450KN, unsuccessfully. (2784-2786.5mBRT 2.5m) Pump 10spm x 0.1-1.6MPa. HPS 10rpm x 0.4-3.0KN-m. Control ROP below 20m/h. Pull with 162kN of DW assist, successfully.
6:45	8:45	2:00	Core(Other)	Recover # 8 HPCS inner barrel. Hard to disconnect quick release connection between upper section and lower section of inner barrel @ drill floor due to deformation of connection. Grind the objection of the connection then disconnect inner barrel. Measure the core recovery meanwhile Sweep out w/5m3 of SWG.
8:45	9:00	0:15	DRL	Drill down to 2787mBRT.
9:00	9:30	0:30	Core(Other)	Drop EPCS inner barrel and chase w/60spm. Landing after 10min and pressure increase 0.3 to 8.2MPa. Check pressure 80-100spm x 13.2-20.9MPa.
9:30	9:45	0:15	Core	Cut #9 EPCS core (2787-2792mBRT, 84.5-89.5mbsf, 5.0m). WOB: 10-60kN, Pump: 30spm x 1.7-2.0MPa, HPS: 40rpm 1.1-1.6.3KN-m.
9:45	11:15	1:30	Core(Other)	Run sinker bar and recover EPCS inner barrel. Sweep out w/180 spm x 7.5MPa.
11:15	11:30	0:15	Core(Other)	Drop EPCS inner barrel and chase w/60spm. Landing after 10min and pressure increase 0.3 to 8.2MPa. Check pressure 80-100spm x 13.2-20.9MPa.
11:30	12:00	0:30	Core	Cut #10 EPCS core (2792-2797mBRT, 89.5-94.5mbsf, 5.0m). WOB: 10-60kN, Pump: 30spm x 1.7-2.0MPa, HPS: 40rpm x 1.1-1.6.3KN-m.
12:00	13:30	1:30	Core(Other)	Run sinker bar and recover EPCS inner barrel.
13:30	14:15	0:45	C&C	Sweep out 5m3 SWG, 180spm x 7.8MPa.
14:15	15:00	0:45	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 13min and pressure increase 0.4 to 7.3MPa. Check pressure 80-100-120spm x 13.3-20.5-28.9MPa.
15:00	15:30	0:30	Core	Cut #11 EPCS core (2797-2802mBRT, 94.5-99.5mbsf, 5.0m). WOB: 10-60kN, Pump: 30spm x 1.7-2.2MPa, HPS: 40rpm x 1.1-1.6.9KN-m.
15:30	16:45	1:15	Core(Other)	Run sinker bar and recover EPCS inner barrel with 10spm x 0.2MPa.
16:45	17:30	0:45	C&C	Sweep out 5m3 SWG, 180spm x 7.7MPa.
17:30	17:45	0:15	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 14min and pressure increase 0.5 to 5.9MPa. Check pressure 80-100-120-140spm x 10.4-16.1-22.7-29.5MPa.
17:45	18:00	0:15	Core	Cut #12 ESCS core (2802-2807mBRT, 99.5-104.5mbsf, 5.0m). WOB: 5-42kN, Pump: 30spm x 1.5-1.6MPa, HPS: 45-50rpm x 0.1-5.1KN-m.
18:00	19:30	1:30	Core(Other)	Run sinker bar and recover ESCS inner barrel with 10spm x 0.2MPa.
19:30	19:45	0:15	C&C	Sweep out 5m3 SWG, 180spm x 7.8MPa.
19:45	20:00	0:15	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 13min and pressure increase 0.5 to 5.8MPa. Check pressure 80-100-120spm x 10.6-16.4-22.8MPa.
20:00	20:15	0:15	Core	Cut #13 ESCS core (2807-2812mBRT, 104.5-109.5mbsf, 5.0m). WOB: 17-50kN, Pump: 30spm x 1.5-2.0MPa, HPS: 45rpm x 1.1-1.5.7KN-m.
20:15	21:45	1:30	Core(Other)	Run sinker bar and recover ESCS inner barrel with 10spm x 0.2MPa.
21:45	22:15	0:30	C&C	Sweep out 5m3 SWG, 180spm x 7.5MPa.
22:15	22:30	0:15	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 13min and pressure increase 0.5 to 5.9MPa. Check pressure 80-100-120spm x 10.5-16.0-22.2MPa.
22:30	22:45	0:15	Core	Cut #14 ESCS core (2812-2817mBRT, 109.5-114.5mbsf, 5.0m). WOB: 6-46kN, Pump: 30-40spm x 1.4-2.8MPa, HPS: 45rpm x 2.3-7.4KN-m.
22:45	24:00	1:15	Core(Other)	Run sinker bar and recover ESCS inner barrel with 10spm x 0.2MPa.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks		
6	HPCS	01:26	2,760.0	2,769.5	9.5	10.2	107.4%	Dark greenish gray firm clay	Core liner broken with a tang crack
7	HPCS	03:39	2,769.5	2,779.0	9.5	10.2	107.4%	Dark greenish gray firm clay	
8	HPCS	07:08	2,779.0	2,787.0	8.0	8.7	108.8%	Dark greenish gray firm clay	partial penetration / overdrill 7.5m / inner barrel @
9	EPCS	10:50	2,787.0	2,792.0	5.0	5.45	109.0%	Dark greenish gray firm clay	
10	EPCS	13:36	2,792.0	2,797.0	5.0	5.44	108.8%	Dark greenish gray firm clay	widark gray fine sand
11	EPCS	16:29	2,797.0	2,802.0	5.0	1.08	21.6%	Dark greenish gray firm clay	
12	ESCS	19:13	2,802.0	2,807.0	5.0	7.72	154.4%	Dark greenish gray firm clay	
13	ESCS	21:33	2,807.0	2,812.0	5.0	6.95	139.0%	Dark greenish gray firm clay	widark gray fine sand
14	ESCS	00:18	2,812.0	2,817.0	5.0	9.45	189.0%	Dark greenish gray soft silty clay	

From	To	Hrs	Code	Detail of Operation
0:00	0:30	0:30	Core	Continue recover inner barrel.
0:30	0:45	0:15	C&C	Sweep out 5m3 SWG, 180spm x 7.8MPa.
0:45	1:00	0:15	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 14min and pressure increase 0.5 to 6.0MPa. Check pressure 80-100-120spm x 9.7-15.9-22.6MPa.
1:00	2:45	1:45	Core	Cut #15 ESCS core (2817-2826.5mBRT, 114.5-124mbsf, 9.5m). WOB: 8-60kN, Pump: 30spm x 1.5-2.0MPa, HPS: 40rpm x 10-55KN-m (ROP ave 28.5m/h). Install sinker bar. Recover #15 core.
2:45	3:00	0:15	C&C	Sweep out 5m3 SWG, 180spm x 7.8MPa.
3:00	3:15	0:15	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 14min and pressure increase 0.5 to 5.9MPa. Check pressure 80-100-120spm x 9.7-15.9-21.8MPa.
3:15	5:00	1:45	Core	Cut #16 ESCS core (2826.5-2836mBRT, 124-133.5mbsf, 9.5m). WOB: 20-80kN, Pump: 30spm x 1.5-2.0MPa, HPS: 40rpm x 2.0-5.0KN-m. (ROP ave 31.7m/h). Install sinker bar. Recover #16 core.
5:00	5:15	0:15	C&C	Sweep out 5m3 SWG, 180spm x 7.8MPa.
5:15	6:00	0:45	Core(Other)	Drop ESCS inner barrel and chase w/60spm. Landing after 14min and pressure increase 0.5 to 6.0MPa. Check pressure 80-100-120spm x 10.3-16.0-21.9MPa. Make stand connection.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks		
15	ESCS	02:39	2,817.0	2,826.5	9.5	9.3	97.9%	Dark greenish gray soft clay	
16	ESCS	04:48	2,826.5	2,836.0	9.5	8.4	88.4%	Dark greenish gray firm clay	gas expand in liner and core up to quick release assembly

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meterage	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	Inner	Outer	Dull	Loss	Dull Condition
RR5b	11.4375	ULTERRA	CC3	537	CZ059	4 x 16	2702.50 ; 2817.00	114.5	2.06	0 ; 60	10 ; 45	3.7					

BHA Record	Hook Wt. (kN) @24.00	2810.0 mBRT
HPCS/ESCS ; RRSb	Core Bit x bit sub x core barrel x Landing sub x Top sub x Head sub x 7"DC(15) x XO x 5-1/2" DP S-150 (12) x 5"DP S-140 42 stds x 5-1/2"DP S-150	275
	BHA below 8-1/2"DC	220
	Hook load	1950
	Hook block w/HPS	720

Mud Properties	Temp	In	Out	n	K					
SWG	1.04	103	12	50	17	19	10.5	18	0.26	12.83
kill mud	1.30	80	37	18	9	15	10.5	18	0.74	0.54

Mud Pumps : 14-P-220 @ 2801 mBRT	4.98	gallon/stroke @97%			
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	180	896	7.8	DC DP
3	6"				114 63

Mud Materials on Board @24.00hrs	(unit: kg)		
Item	Received	Used	Stock
Barite (Bulk)	0	0	312,000
Kunite-VQ (Bulk)	0	0	18,000
Line	0	0	1,700
NaCl	0	0	14,000
Tel-Polymer DX L / H	0/0/0	0/0/0	0/0/600
XCD-Polymer	0	0	275
Soda Ash	0	0	250
Clean Lube	0	0	6,400
Tel DD	0	0	0
Lignite NC	0	0	0
Astex S	0	0	0
Treat HS	0	0	0
Defoamer 30C / 15	0/0	0/0	160/0
Telinite GXL	0	0	0
Tel Clean	0	0	0
Baracor-100 (gal)	0	0	0
Tel Stop G / P	0/0	0/0	0/0
Tel Mix C / M / F	0/0/0	0/0/0	0/0/0
Tel Plug C / M / F	0/0/0	0/0/0	0/0/0
Tan Cal C / M / F / FF	0/0/0/0	0/0/0/0	0/0/0/0
Speeder P / X	0/0	0	0/0
Telinite OS-5	0	0	120
Telinite HEC	0	0	0

Geologic Information	From	To	Lithology of core

Materials Stock on Board @24:00	Item	Unit	Received	Used	Stock
Fresh Water	m3	94.4	84.1	323.1	
Potable Water	m3	0.0	7.1	217.2	
Drill Water	m3	0.0	0.8	722.3	
Fuel	m3	0.0	47.8	2,271.1	
Lube, Oil	Ltrs	0.0	900.0	6,500.0	
Helix Fuel	Ltrs	0.0	0.0	800.0	
Cement "G"	ton	0.0	0.0	280.0	

Boat Information @24:00	Boat Name	Status @24:00	Time @Chikyu
	Shinchou-manu	Chikyu	Departed
	Hakuryu-manu	Chikyu	Arrived

Weather Information	Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir (deg)	Wave Height (m)	Dir (deg)	Period (s)	Current Speed (knt)	Dir (deg)	Visibility (km)
	24:00	c	13.0	1022.1	13.6	239.0	14.1	1.3	260	4.7	2.1	106

Mud Volume (m3)	Item	Volume
	Kill Mud (1.30sg)	59
	Heavy Seawater (1.10sg)	33
	SWG (1.04sg)	84
	Prehy Gel (1.05sg)	135

Today's Schedule	Item	Time
	Cut ESCS core.	

File No.	Arrived	Time	Departed	Area	Passenger	Dept.
1						
2						

Incident	Last Incident	No. LTA

Remarks
HLINS cards 25
General Safety Meeting.

Marine Information @24:00	Item	Value
Heave (m)		0.3
Pitch (deg)		0.2
Roll (deg)		0.2
Vessel Heading (deg)		286
Riser Tension (kN)		-
V.D. Load (Moon)		10256.3
Max Draught (m)		9.0
Thruster (kW)		3500

Reported by : S. Kataoka / D. Ikenomoto
 Approved by : T. Sawada