

Chikyu DAILY MORNING REPORT

Mission No. :

CK12-06

Exp. No. :

Exp 338

Report No. :

100

Site Name : C0021 Hole Name : C0021B Lat. 33°10.055'N Long. 136°39.861'E Report Date : 9/Jan/2013  
 Depth @24.00 3,167.00 mBRT 194.50 mbsf Progress: 67.00 m Seabed Depth: 2,972.50 mBRT RT-MSL: 28.5 m  
 Depth @06.00 3,167.00 mBRT 194.50 mbsf Drilling/Coring/Jetting Hrs.: 3.75 hrs LAY OUT CASING: x mbsf ( mBRT)  
 Summary of Operation on 8-Jan : Cut HPCS core (#7-#12) and EPCS core (#13-#14). Spot Kill mud.  
 Present Operation to 06:00 on 9-Jan : Lay out 5-1/2" DP mBRT: meter below rotary table  
 Time Breakdown (00:00 - 24:00) on 8-Jan mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	0:15	0:15	Core	Cut #7 HPCS core (3100-3109.5mBRT, 127.5-137mbsf). Close coreline BOP and pump with 40spm, pressure increase 17.6MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW180KN.
0:15	0:45	0:30	Core(Other)	Recover inner barrel, 30spm x 0.9-1.5MPa.
0:45	1:00	0:15	DRL	Drill down to 3109.5mBRT. Pump: 60spm x 0.7-1.0MPa, HPS: 40rpm x 0.5-0.5KN-m.
1:00	1:45	0:45	C&C	Sweep 5m3 SWG, 100spm x 2.4-2.8MPa.
1:45	2:15	0:30	Core(Other)	Run HPCS inner barrel with sinker bar (flow control valve open x 3ea and 2 shear pin).
2:15	2:30	0:15	Core	Cut #8 HPCS core (3109.5-3119.0mBRT, 137-146.5mbsf). Close coreline BOP and pump with 40spm, pressure increase 24.8MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW 130KN.
2:30	3:00	0:30	Core(Other)	Recover inner barrel. Meanwhile, drill down to 3119.0mBRT. WOB: 0-50KN, Pump: 30spm x 0.3-1.4MPa, HPS: 40spm x 1.2-7.5KN-m.
3:00	3:30	0:30	C&C	Circulation 30spm x 0.4MPa.
3:30	4:00	0:30	Core(Other)	Run HPCS inner barrel with sinker bar (flow control valve open x 3 ea and 2 shear pin).
4:00	4:15	0:15	Core	Cut #9 HPCS core (3119.0-3127.5mBRT, 146.5-155mbsf). Close coreline BOP and pump with 40spm, pressure increase 20.5MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW 212KN
4:15	4:30	0:15	Core(Other)	Recover inner barrel, 10spm x 0.4MPa.
4:30	5:45	1:15	Core(Other)	Replace HPCS piston due to seal damage. Meanwhile, circulation 30spm x 0.3MPa.
5:45	6:15	0:30	Core(Other)	Run HPCS inner barrel with sinker bar (flow control valve: fully open and 2 shear pin).
6:15	6:30	0:15	Core	Meanwhile, drill down 3119.0-3127.5mBRT. WOB: 10-55KN, Pump: 60spm x 1.0-2.3MPa, HPS: 40rpm x 1.0-6.9KN-m.
6:30	7:30	1:00	Core(Other)	Cut #10 HPCS core (3127.5-3137mBRT, 155-164.5mbsf). Close coreline BOP and pump with 40spm, pressure increase 20.1MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW 230KN.
7:30	7:45	0:15	DRL	Recover inner barrel, 7spm x 0.7MPa. Core cannot be loaded because core liner stuck in inner barrel.
7:45	8:00	0:15	C&C	Drill down to 3137mBRT with pumping SWG 5m3. Pump: 60spm x 0.6-2.9MPa, HPS: 40rpm x 0.4-6.3KN-m.
8:00	8:30	0:30	Core(Other)	Sweep 5m3 SWG, 100spm x 2.6MPa.
8:30	9:15	0:45	C&C	Lay out angle joint and make EBT connection.
9:15	9:45	0:30	Core(Other)	Circulation 100spm x 2.5MPa while attempt to unload #10 HPCS core because core liner stuck in inner barrel (cannot unload).
9:45	10:00	0:15	Core	Run HPCS inner barrel with sinker bar (flow control valve open x 3ea and 2 shear pin).
10:00	11:30	1:30	Core(Other)	Cut #11 HPCS core (3137-3142mBRT, 164.5-169.5mbsf). Close coreline BOP and pump with 40spm, pressure increase 18.6MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW 190KN.
11:30	11:45	0:15	DRL	Recover inner barrel. Core cannot be loaded because core liner stuck in inner barrel.
11:45	13:45	2:00	C&C	Drill down to 3142mBRT. WOB: 26-61KN, Pump: 40spm x 0.6-1.8MPa, HPS: 60rpm x 0.7-7.1KN-m.
13:45	14:30	0:45	Core(Other)	Meanwhile, attempt to unload #11 HPCS core liner from inner barrel with heating inner barrel.
14:30	14:45	0:15	Core	Run HPCS inner barrel with sinker bar (flow control valve full close and 2 shear pin).
14:45	16:15	1:30	Core(Other)	Cut #12 HPCS core (3142-3148mBRT, 169.5-175.5mbsf). Close coreline BOP and pump with 40spm, pressure increase 21.8MPa and shoot HPCS inner barrel. Overpull on CLW assist by DW 250KN.
16:15	16:45	0:30	DRL	Recover inner barrel. Core cannot be loaded because core liner stuck in inner barrel.
16:45	17:00	0:15	Core(Other)	Drill down to 3148mBRT. WOB: 0-74KN, Pump: 60spm x 0.7-1.4MPa, HPS: 40rpm x 0.4-5.9KN-m.
17:00	17:30	0:30	Core(Other)	Drop EPCS inner barrel. Pumping with 60spm x 0.4MPa. Landing after 15min, pressure increase to 9.0MPa. Run sinker bar and stand-by at 17:10m.
17:30	18:00	0:30	Core	Pull sinker bar to use wireline ball valve (leakage from wiper).
18:00	19:45	1:45	Core(Other)	Cut #13 EPCS core (3148-3157.5mBRT, 175.5-185mbsf). Close coreline BOP and pump with 40spm, pressure increase 17.5-18.5MPa.
19:45	20:00	0:15	C&C	WOB: 10-100kN, Pump: 30spm x 2.3-5.5MPa, HPS: 40rpm x 0.0-8.9KN-m, ROP ave 43.8m/hr.
20:00	20:30	0:30	Core(Other)	Recover inner barrel (Difficult to latch sinker bar into inner barrel assembly).
20:30	21:00	0:30	Core	Sweep out 10m3 of SWG with 200spm x 10.2MPa.
21:00	22:30	1:30	Core(Other)	Drop EPCS inner barrel. Pumping with 50spm x 0.2MPa. Landing after 15min, pressure increase to 5.3MPa.
22:30	24:00	1:30	P&A	Cut #14 EPCS core (3157.5-3167mBRT, 185-194.5mbsf). WOB: 15-95kN, Pump: 30spm x 2.4-2.8MPa, HPS: 0.5-7.3KN-m, ROP ave 36m/hr. Recover inner barrel (Difficult to latch sinker bar into inner barrel assembly). Spot kill mud (1.30sg) 24m3 and displace 30m3 seawater.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks
			from to	m	m %		
7	HPCS	00:29	3,100.0 3,109.5	9.5	10.21 107.5	Dark greenish gray firm clay	
8	HPCS	03:09	3,109.5 3,119.0	9.5	10.15 106.8	Dark greenish gray firm clay	
9	HPCS	04:35	3,119.0 3,127.5	8.5	112.9	Dark greenish gray firm clay	
10	HPCS	06:51	3,127.5 3,137.0	9.5	N/A N/A	Dark greenish gray firm clay	Stuck in inner barrel, pump inner barrel.
11	HPCS	10:27	3,137.0 3,142.0	5.0	N/A N/A	Dark greenish gray firm clay	Stuck in inner barrel, heat inner barrel.
12	HPCS	15:04	3,142.0 3,148.0	6.0	N/A N/A	Dark greenish gray firm clay	Stuck in inner barrel, pump inner barrel. Retrieve core(lin) by pump.
13	EPCS	19:32	3,148.0 3,157.5	9.5	8.23 86.6	Dark greenish gray firm clay	
14	EPCS	22:23	3,157.5 3,167.0	9.5	9.5 100.0	Dark greenish gray firm clay with fine sand	

Time Breakdown (00:00 - 06:00) on 9-Jan \* The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	Other	Lay out 5-1/2" S-150 DP (80js) while POOH. Meanwhile, circulate sea water (2 times of string volume) @2633.5mBRT (above the seawater), 120-140spm x 2.5-4.6MPa. (3:00-) Start drift 0.9knot for mitigate vibration.

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meterage	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	Inner	Outer	Dull Condition
							From : To			Min. : Max.	Min. : Max.				Loc. B G O.D. RP
RRSC	11.4375	ULTERRA	CC3	537	CZ099	4 x 16	2972.50 : 3167.00	194.5	3.50	0 : 100	10 : 50	3.9			Hook Wt. (kN) @24.00 3,160.0 mBRT BHA 275 below 8-1/2"DC 220 Hook load 2200 Hook block w/HPS 720

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St (10', 10')	WL	Cake	pH	PI	C-	Sand	Oil	Solid	K+	LGS	MBC	Temp (in / Out)	n	K
SWG		Pit	1.04	84	8	38	10 : 11			11.0									17	0.23	10.87
kill mud		Pit	1.30	72	27	18	5 : 14			10.2									18	0.68	0.66

Mud Pumps - 14-P-220 @ 3112.5 mBRT 4.98 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press (MPa)	Ann. Vel (m/min)	DC	DP
1	6"	180	896	8.2		114	63
2	6"						
3	6"						

Personnel @24:00

COEX	Received	Used	Stock
Barite (Bulk)	0	0	312,000
Kunings-V0 (Bulk)	0	0	18,000
Lime	0	0	1,400
MWJ (Addr subsea E)	0	0	14,000
MWJ	20	0	0/0/600
Scientist, IODP	15	0/0/0	0/0/0
Telinite	1	0	200
Core-IRM	5	0	250
NLC	1	0	1,800
Core-IRM	1	0	6,400
JAPEX	1	0	0
Schlumberger	3	0	0
K2 Velosi	2	0	0
Cameron	0/0/0	0/0/0	1600
ModuSpec	2	0	0
MIR Inspection	1	0	0
Total	168		

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	87.8	89.2	293.5
Potable Water	m3	0.0	5.8	159.5
Drill Water	m3	0.0	2.5	710.7
Fuel	m3	0.0	49.4	1,818.9
Lube Oil	Ltrs	0.0	0.0	62,300.0
Hull 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
Shincho-maru	Chikyu	20:25
Hakuryu-maru	Chikyu	

Weather Information

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir (deg)	Gust (m/s)	Height (m)	Wave Dir (deg)	Period (s)	Current Speed(knt)	Dir (deg)	Visibility (km)
24:00	o	12.0	1016.2	1.5	297.0	3.1	1.0	20	7.6	3.0	89	22.0

Today's Schedule Continue lay out 5-1/2"DP S-150 while POOH. Make up SD-RCB BHA.

Reported by : K. Takase / S. Kataoka / T. Yokoyama  
 Approved by : T. Saruhashi