

Site Name : C0002 Hole Name : C0002/C0002K Lat. 33°18.0173'N/133°18.0065'N Exp. No. : Exp 338 Long. 136°38.2312'E/136°38.2103'E Report Date : 21/Dec/2012

Depth : @24.00 2,170.50 mBRT 204.50 mbsf Progress : 204.50 m Seabed Depth : 1,966.00 mBRT RT-MSL : 28.5 m

Depth : @06.00 2,186.00 mBRT 220.00 mbsf Progress : 204.50 m Seabed Depth : 1,966.00 mBRT RT-MSL : 28.5 m

Summary of Operation on 20-Dec : POOH. Preparation for ESCS core. RIH 11-7/16" HPCS/ESCS coring assembly. Wash down and drill down. Cut #1-2 HPCS core.

Present Operation on 21-Dec : Cut EPCS core

Time Breakdown (00:00 - 24:00) on 20-Dec

From	To	Hrs	Code	Detail of Operation
0:00	5:45	5:45	Trip	Continue to POOH to surface. Meanwhile, drift vessel w/0.5-1.0 knot to mitigate VIV while POOH from 1000mBRT. (00:00-03:45) POOH to 118mBRT. (03:45-04:30) POOH 3 bits of coring DC. Stop drifting for current speed less than 2.0knt. (04:30-05:45) Pick up and make up to HPCS/ESCS core barrel. Rack back last DC with core barrel stand. Check and break bit, head sub, top sub, landing saver sub. Lay out RCB core barrel. Check stabilizer gauge/In gauge. (04:45-06:00) Meanwhile, move vessel upstream 2mile to C0002K site.
End of job for C0002J hole.				
Start of job for C0002K hole.				
5:45	8:00	2:15	Other	Preparation for HPCS/ESCS core. Service HPS.
8:00	13:00	5:00	Trip	Make up and RIH 11-7/16" HPCS/ESCS coring assembly to 1966mBRT. (08:00-10:15) Pick up and Make up bit, bit sub, core barrel, landing saver sub, top sub and head sub. (10:15-12:00) Space out of HPCS/ESCS. Confirm 2ea x EPCS retract test: OK. Extended shoe length from head of bit. one is 7', another one is 6-1/4' extended. (12:00-13:00) RIH to 155mBRT. Install ESCS inner barrel without check valve for wash down and drill down to 200mbsf. Circulation pressure test with 60-80-100spm x 3.6-5-10.8MPa.
13:00	13:15	0:15	Core(C&C)	Resume RIH from 155mBRT to 1953mBRT.
13:15	16:30	3:15	Trip	Circulation pressure test with 60-80-100-120spm x 4.0-7-11.1-12.15.8MPa.
16:30	16:45	0:15	W&R	Pump down from 1953mBRT to 1966mBRT with 30spm x 1.0MPa.
16:45	17:00	0:15	W&R	Wash down 11-7/16" hole 1966mBRT to 1996mBRT (0-30mbsf, 30m). Wash down 100-140mH with 30-60spm x 0.3-4.5MPa. For spud in, observe increase SPP 0.7 to 0.9MPa and took weight 20kN @1967mBRT (official sea bed depth: 1966mBRT)
17:00	20:00	3:00	DRL	Drill down 11-7/16" hole 1996mBRT to 2150mBRT (30-184mbsf, 154m). WOB: 0-60kN. Pump: 70-110spm x 5.6-17.2MPa. HPS: 10-60rpm x 1-8.0kNm. Drill down 2m in 10min up strings for unexpected inclination increase. Sweep out 5m3 SWG mud every stand.
20:00	20:30	0:30	Core(Other)	Install return hose on mud bucket.
20:30	20:45	0:15	DRL	Drill down 11-7/16" hole 2150mBRT to 2166mBRT (184-200mbsf, 16m).
20:45	21:15	0:30	Core(C&C)	Sweep out 5m3 SWG mud with 120spm x 16-20MPa.
21:15	22:00	0:45	Core(Other)	Run sinker bar and recover ESCS inner barrel. No damage on ESCS shoe.
22:00	22:30	0:30	Core(Other)	Install and run #1 HPCS inner barrel with 10spm x 0.3MPa.
22:30	23:00	0:30	Core	Cut #1 core at 2166mBRT (200mbsf). Pump 40spm and shoot 18.4MPa. Pressure max 26.9MPa. Recover inner barrel with 200kN over pull with DW.
23:00	23:30	0:30	Core(Other)	Install and run #2 HPCS inner barrel with 10spm x 0.3MPa.
23:30	23:45	0:15	W&R	Drill down to advance 2166-2107.5mBRT (200-204.5mbsf) with 60spm x 1.2MPa. WOB 30-60kN. HPS 40rpm x 0-6kNm.
23:45	24:00	0:15	Core	Cut #2 core at 2170.5mBRT (204.5mbsf). Pump 40spm and shoot at 18.8 MPa. Pressure max. 24.5MPa. Recover inner barrel while no over pulled.

Time Breakdown (00:00 - 06:00) on 21-Dec

From	To	Hrs	Code	Detail of Operation
0:00	0:30	0:30	Core (N)	Continue to recover inner barrel. Unsuccessfully fail to recover inner barrel. due to shear the pin of sinker bar.
0:30	1:15	0:45	Core	Re-run sinker bar and recover # 2 HPCS core.
1:15	2:15	1:00	Core	Change core system to EPCS. Prepare for EPCS.
2:15	2:30	0:15	Core	Drop inner barrel. Chase w/ 50spm. Confirm landing to pressure up from 0.2MPa to 5.5MPa (11min). Check pump pressure 50spm x 5.5MPa, 60spm x 8.0MPa, 80spm x 14.4MPa, 100spm x 21.8MPa.
2:30	3:15	0:45	Core	Cut EPCS core 2171.5-2181mBRT (206-215.5mbsf, 9.5m) WOB 50kN, 10spm x 0.1-0.9MPa, 30rpm (last 1m 40rpm) 2.8-7.8 kN-m. ROP 18.4m/h.
3:15	4:15	1:00	Core	Lower sinker bar from 1900mBRT to bottom and recover inner barrel. Latch and pull w/40kN x 3 times and recover same.
4:15	4:45	0:30	Core	Drop inner barrel. Chase w/ 50spm. Confirm landing to pressure up from 0.2MPa to 5.5MPa (12min). Check pump pressure 50spm x 5.5MPa, 60spm x 8.0MPa, 80spm x 14.4MPa, 100spm x 22.1MPa.
4:45	5:15	0:30	Core	Recover sinker bar due to core line wiper leakage. Meanwhile 40rpm and 10spm pumping x 0.2MPa.
5:15	5:45	0:30	Core	Sweep out 5m3 of SWG w/100spm 22.1-24.4MPa.
5:45	6:00	0:15	Core	Cut EPCS core 2181-2186mBRT (206-211mbsf, 5.0m) WOB 50kN, 20spm x 0.2-1.6MPa, 40rpm 2.8-6.0 kN-m. ROP 30m/h.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks
1	HPCS	02:56	2,166.0	2,170.5	4.5	100.0%	Dark greenish gray firm clay
2	HPCS	01:22	2,170.5	2,171.5	1.0	100.0%	Dark greenish gray firm clay
3	EPCS	04:00	2,171.5	2,181.0	9.5	72.6%	Dark greenish gray firm clay w/Med. Dark gray fine sand.
4	EPCS		2,181.0	2,186.0	5.0	-	

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev.	Dull Condition
RR4a	10.625	BHC	BHC405		7128364	5 x 18	1966.00 : 2,906.00	940.0	13.91	20 : 99	0 : 50	73.0	CT x 4ea C.N.T X 1 ER.PN(15) TD
5	11.4375	ULTERRA	CC3	537	C2059	4 x 16	1966.00 : 2,170.50	204.5	2.17	0 : 60	0 : 60	4.0	

BHA Record

RCB core	RR4a	Core bit x Bit sub w/10-5/8" Slab x RCB core barrel x Top sub x Head sub x 10-5/8" coring stab x 8-1/2" Core DC(11) x XO x 5-1/2" DP S-150(12) x XO	Hook Wt. (kN) @24:00
		x 5" DP S-140 42stds x 5-1/2" DP S-150	220
HPCS/ESCS	5	Core bit x Bit sub x core barrel x Landing sub x Top sub x Head sub x 8-1/2" Core DC(11) x XO x 5-1/2" DP S-150(3stds) x XO x 5" DP S-140(42stds) x 5-1/2" DP S-150	275

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	VV	Gel St (10, 10')	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	K+	LGS	MCB	Temp (°C)	n	K
SWG		Pt	1.04	300	11	68	20	22		11.8									18	0.19	24.46
kill mud		Pt	1.30	155	35	58	21	37		9.8									18	0.46	5.26

Mud Pumps : 14-F-220 @ 2170.5 mBRT 4.98 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"				
2	6"	120	598	20.0	76
3	6"				

Geologic Information

From	To	Lithology of cuttings
2,166.0	2,170.5	Dark greenish gray firm clay
2,170.5	2,171.5	Dark greenish gray firm clay
2,171.5	2,181.0	Dark greenish gray firm clay w/Med. Dark gray fine sand.

Shale Shaker

No.1	#20 x 3#110 x 4	No.4	#20 x 3#110 x 4	No.1	0.00
No.2	#20 x 3#230 x 4	No.5	#20 x 3#230 x 4	No.2	0.00
No.3	#20 x 3#110 x 4	No.6	#20 x 3#110 x 4	No.3	0.00

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	95.4	82.9	250.9
Potable Water	m3	0.0	6.3	316.2
Drill Water	m3	0.0	87.5	887.2
Fuel	m3	0.0	48.1	2,918.5
Lube, Oil	Ltrs	0.0	1,000.0	71,900.0
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	Departed	Arrived
Shincho-maru	Chikyu			
Hakuryu-maru	Chikyu			

Weather Information

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Wave Height (m)	Dir. (deg)	Period (s)	Current Speed(knt)	Dir. (deg)	Visibility (km)
24:00	bc	9.5	1028.0	4.8	333.0	7.4	0.9	100	6.8	2.8	101	30.0

Today's Schedule : Cut 11-7/16" EPCS/ESCS core.

Reported by : T. Otani / D. Ikenomoto / T. Yokoyama
Approved by : T. Saruhashi