

Chikyu DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 101

Site Name : C0002 Hole Name : C0002P Lat. : 33° 18.0507'N Long. : 136° 38.2029'E Report Date : 23/Dec/2013
 Depth @24:00 : 4140.0 mBRT 2172.5 mbsf Progress : 4139.50 m Sealed Depth : 1,967.50 mBRT RT-MSL : 28.6 m
 Depth @06:00 : 4140.0 mBRT 2172.5 mbsf Drilling/Coring/Letting Hrs. : 3.25 hrs LAST CASING : 13-3/8" x 1,936.50 mbsf(3,904.0 mBRT)
 Summary of Operation on 22-Dec : Rig up Core line BOP. RIH RCB coring BHA. Cut #1 RCB coring.
 Present Operation @ 06:00 on 23-Dec : Recover inner barrel. Sweep out Hi-vis.
 Time Breakdown (00:00 - 24:00 on 22-Dec) mBRT meter below rotary table
 mbsf: meter below sea level

From	To	Hrs	Code	Detail of Operation
0:00	5:15	5:15	RR(N)	Continue rig up coreline BOP Install mud bucket.
5:15	17:30	12:15	Trip	Make up 10-5/8" RCB BHA and RIH to 4076mBRT. Fill up every 15 stands. Move RCB assembly to main well with #2 hydraracker. Gauge of stabilizer. Near bit stab: 10-5/8", No.2: 10-9/16" (-1/16") Mandrel length of coring jar: 27.5" No excess drag when BHA pass to casing window.
17:30	18:15	0:45	Trip	Install drain hose. Meanwhile, circulate 175gpm x 2.6MPa with 20rpm x 6-10KN-m.
18:15	18:30	0:15	Trip	Continue RIH to 4115mBRT. No excess drag.
18:30	18:45	0:15	W&R	Wash down w/300gpm x 4.1MPa and tag bottom w/49N @4130.5mBRT
18:45	20:00	1:15	C&C	Circulation and sweep: 10 m3 of hi-vis mud: 900gpm x 19.5MPa, 30rpm x 8-10KN-m. Boost on rise: 450gpm x 4.9MPa. Drop inner barrel and chase w/60gpm x 3.7MPa. After 22 min, increase SPP to 6.2 MPa and confirm landing.
20:00	20:30	0:30	Core	Check pump pressure. 400-500-600-700-800gpm x 8.1-13.6-17.2-22.4-27.6MPa. Take SCR.
20:30	20:45	0:15	C&C	Cut #1 RCB core from 4130.5 to 4140mBRT.
20:45	24:00	#VALUE!	Core	ROP: 1.68m/h (4131mBRT) - 6.63 m/h(4138mBRT) ave 3.81 m/h WOB: 90-120 kN (4130.5-4131.5mBRT), 150-190 kN (4131.5-4140mBRT) HPS: 60-90 RPM x 6-15 kN-m (4130.5-4131.5mBRT), 120 RPM x 10-12 kN-m (4131.5-4140mBRT) Pump rate: 300-400gpm x 6.3-13.4MPa (4130.5-4132.5mBRT), 600gpm x 21.2MPa (4132.5-4140mBRT) Meanwhile, booster 450gpm x 4.9MPa.
<p>Note: ROV inject glycol seal to LMRP and seal to BOP every 12hrs. Sea current: Chikyu 0.7-1.7knot. SW 5miles 2.2knot.</p>				

From	To	Hrs	Code	Detail of Operation
0:00	2:45	2:45	Other(N)	Troubleshoot coreline winch. Couldn't pass sinker bar to HPS. Coreline was slack and found irregular winding on coreline drum. Pay out and re-wind coreline. Meanwhile, close coreline BOP and start circulation. 200gpm x 4.4MPa. Run sinker bar and recover inner barrel.
2:45	3:30	0:45	Core (other)	Check line tension 80kN @3874.3mBRT. Confirm landing of sinker bar and pull coreline tension to 180kN (tension limit).
3:30	4:00	0:30	Core (N)	Attempt recover inner barrel. Close coreline BOP and circulate 600gpm x 25.6MPa. Pull sinker bar, coreline tension to 180kN.
4:00	5:30	1:30	Core(other)	Close coreline BOP and circulate 700gpm x 32.4MPa with tension 175kN. Tension was decreased to 133kN after open coreline BOP. Continue recover inner barrel.
5:30	6:00	0:30	C&C	Check SPP with 150gpm x 3.2MPa, 300gpm x 5.2MPa. Increase pump rate to 900gpm. SPP was decreased to 24.7 to 19.5MPa. Sweep out 5m3 Hi-vis.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks
1	RCB	5:13	4,130.5	4,140.0	9.5	0.4	4.2%
				3.0			

Sea current: Chikyu 1.2knot. SW 5miles 2.0knot.

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (m)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev. (rev)	Inner	Outer	Dull	Dull Condition
7	10.625	BHC	BHC405	M333	7123665	5 x 18	4130.50	4,140.00	9.5	3.00	68	162	60	121	21.0	

BHA Record

#7	RCB	Bit x Bit sub w/stab x RCB core barrel x Top Sub x Head Sub x 10-5/8" Stab x 8-1/2" Coring DC (12) x Coring Jar x 8-1/2" Coring DC(3) x XO x 5.68" HWDP(12) x XO x 5" DP S-140 44stds x 5-1/2" DP S-140 21stds x 5-1/2" DP S-150 25stds x XO x 6-5/8" DP Z-140
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Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gal St (10', 10')	WL	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (in / out)	K+	n	K	LGS		
KNPP	3:00	pH	1.28	123	47	55	7	11	2.6	0.5	11.7	0.2	113.600	0.2	0	12.5	1.25	9		31,800	0.55	3.37	1.4
KNPP	16:00	pH	1.28	110	45	48	6	10	2.6	0.5	11.5	0.2	110.000	0.2	0	12.5	1.00	11		31,800	0.61	1.00	1.6
KNPP	2:00	Hi vis	1.28	300	59	94	16	34									20			0.47	8.14		

Mud Pumps: 14-P-220 @ 4140.0 mBRT 5.00 gal/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"				
2	6"	120	600	21.1	15
3	6"				

Geologic Information

From	To	Lithology of cuttings

Shale Shaker

No.1	#10, #200 x 2	No.4	#10, #180 x 2	No.7	off
No.2	#10, #180 x 2	No.5	#10, #200 x 2	No.2	off
No.3	#10, #200 x 2	No.6	#10, #180 x 2	No.3	off

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	93.5	102.5	(9.0)
Potable Water	m3	0.0	6.8	(6.8)
Drill Water	m3	0.0	7.1	(7.1)
Fuel	m3	0.0	49.0	(49.0)
Lube Oil	Ltrs	0.0	1,000.0	(1,000.0)
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	0.0
Cement "G"	ton	0.0	0.0	0.0

Boat Information @24:00

Boat Name	Status	Time @Chikyu
Kako	Chikyu	Departed: 15:20
Shindou-manu	Current survey @SW 5 miles	-
Hakuryu-manu	Current survey @S 10miles	-

Weather Information

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Visibility
24:00	bc	7.5	1024.8	6.6	305.0	8.3
		17.3			1.8	20
					6.9	81

Today's Schedule: Continue out RCB core.

Reported by: D. Ikenomoto / S. Kataoka
 Approved by: Y. Uemura