

Chikyu DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 60

Site Name : C0002 Hole Name : C0002N Lat. 33° 18.0607'N Long. 136° 38.2029'E Report Date : 12/Nov/2013
 Depth : @24.00 4004.0 mBRT 2036.5 mbsf Progress : 28.00 m Sealed Depth : 1,967.50 mBRT RT.MSL : 28.6 m
 Depth : @06.00 4004.0 mBRT 2036.5 mbsf Drilling/Coring/Jetting Hrs. : 4.00 hrs LAST CASING : 20" x 860.30 mbsf (2,827.8 mBRT)
 Summary of Operation on 11-Nov : RIH and ream down to bottom. Resume drill 17" LWD hole.
 Present Operation @ 06:00 on 11-Nov : Spot LCM mud. Circulation and bottoms up.
 Time Breakdown (00:00 - 24:00) on 11-Nov mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation	SCR	40	50	60	80	(ppm)	Angle	Deg
0:00	4:45	4.45	TRIP	Continue make up and RIH 17" LWD hole BHA to 86.51mBRT. Check function of float valve - OK. Shallow hole test : 140spm x 7.1MPa @86.51mBRT - OK	No.2	580	690	820	820	(psi)	LFJ	0
4:45	6:00	1:15	RR	Repair #1 Hydrascraper. Check and change encoder of main arm.	No.3	565	680	820	820	(psi)	LMPR	130
6:00	14:30	8:30	TRIP	Continue RIH to 2807mBRT. Fill up every 15 stands.							BOP	160
14:30	15:15	0:45	RS	Service block and dolly.							BOP	160
15:15	19:00	3:45	TRIP	Resume RIH from 2807mBRT to 3889mBRT. Take weight below 3543mBRT.							BOP	160
19:00	21:30	2:30	W&R	Connect HPS @3888mBRT. Ream up and down w/80rpm and 80spm x 8.0MPa. Up to 150rpm and 80spm x 21-22MPa. Pipe is free. Ream down from 3888 to 3971mBRT. Reaming torque 150spm x 20.1MPa, 150rpm x 5.20kN-m.							BOP	160
21:30	22:15	0:45	C&C	Circulation. Take SCR. Sweep 15 m ³ of Hi-vis mud.							BOP	160
22:15	23:45	1:30	Drig	Resume drill 17" LWD hole from 3976.0 to 4004.0mBRT (2008.5-2036.5mbsf, 28m). Set auto drill ROP 50m/hr. WOB: 40-120kN, 180spm x 30.9-33.3MPa, boost riser w/83spm, 180rpm x 15.4-23.6kN-m. ROP : ave 27.8 m/h							BOP	160
23:45	24:00	0:15	C&C	Observe drop active volume. Stop drilling @4004mBRT. Monitor well with circulation, 190spm x 33.0MPa. Mud loss 48m ³ /hr. Notes: Kaiyu Sea current survey to South 67mile. Observe max sea current 3.0 knot @ 34 mile S from the site. Shincho-maru: Stand-by @ Chikyu. ROV (00:00-06:30) Continue diving in cage while bad weather passes in case of unloading LMRP (13:00-16:30) Dive and inject 25 gals of glycol each into LMRP and BOP. Bullseye checks and observe hydrates formed below LMRP and BOP. Sea current @ Chikyu: 0.2-1.2knot, 5miles SW: 0.3 -1.3knot.							BOP	160

From	To	Hrs	Code	Detail of Operation	S-150 stand #	mBRT	Weight (kN)
0:00	1:45	1:45	C&C	Continue monitor mud loss volume. 190spm x 32.2MPa with booster 80spm x 4.0MPa @3999.5mBRT. Mud loss 15m ³ /hr (dynamic). Change line and monitor with trip tank. Mud loss 6m ³ /hr (static). 90spm x 10.1MPa with booster 80spm x 3.7MPa @3997.3mBRT. Mud loss 6m ³ /hr. Meanwhile, make 10m ³ LCM mud (10%). Spot 10m ³ LCM mud. Run back bottom and spot LCM mud @4004mBRT. Pick up to 3998mBRT and monitor loss volume with trip tank. Mud loss 1m ³ /hr.	6	3545	180-220
1:45	2:30	0:45	C&C	Spot 10m ³ LCM mud.	7	3570	160-200
2:30	6:00	3:30	C&C	Circulation and hole cleaning for reduce annulus density. Sweep 15m ³ mud (every 2000cts) @4004mBRT and bottoms up. Meanwhile, make 10m ³ LCM mud (10%). Observe caving cutting come back.	8	3595	160-240

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (m)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev (krev)	Inner	Outer	Dull	Dull Condition
2	17"	Smith(S519)	PDC	S223	SD0749	12 x 10	3976.0 to 4,004.00	28.0	1.01	40 ; 120	160 ; 180	29.0				

17" DRLG	2	17" Bore x 6m Pony DC x 16-7/8" IL Stab x 8"DGR x 8"EWR x 8"PWD x 8"HCM (new) x MWD Down screen x Float Sub (w/float) x XO x 16-5/8"stab x XO x 8-1/2"DC(12) x 8" Hydraulic Jar x 8-1/2"DC(2) x XO x 5.68"HWDP(12) x XO x 5"DP S-140 62 stds x 5-1/2"DP S-140 19stds x XO x 5-1/2"DP S-150	Hook Wt. (kN) @	4,004.0	mBRT
			Hook load		2,570
			BHA		390
			below HWDP		320
			below Jar		310

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	VV	Gel St (10 ⁻¹⁰)	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp (In / Out)	K+	n	K	LGS
KNPP	04:00	Pr	1.13	70	29	28	5 ; 8	3.9	0.5	11.7	0.1	76.300	0.2	0	8	1	20	27.500	0.59	1.41	2.8
KNPP	21:30	3.976	1.13	85	33	32	4 ; 8	3.5	0.5	11.7	0.1	78.100	0.2	0	8	0.75	15 ; 12	28.700	0.57	0.94	2.7

No.	Linear Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"						
2	6"	190	950	33.3	25	22	
3	6"						

From	To	Lithology of cuttings

No.1	#20, #200 x 2	No.4	#20, #200 x 2	No.1	1.67
No.2	#20, #200 x 2	No.5	#20, #200 x 2	No.2	11.67
No.3	#20, #200 x 2	No.6	#20, #200 x 2	No.3	off

Item	Unit	Received	Used	Stock
Fresh Water	m ³	91.1	107.2	241.0
Potable Water	m ³	0.0	5.4	263.9
Drill Water	m ³	0.0	9.9	1,774.8
Fuel	m ³	0.0	45.8	533.2
Lube Oil	Ltra	0.0	1,000.0	84,200.0
Heli Fuel	Ltra	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	82.0
Cement "G"	ton	0.0	0.0	161.0

Boat Name	Status	Time @Chikyu	Departed	Arrived
Kaiyu	Chikyu	-	-	-
Shincho-maru	Chikyu	-	16:00	-
Hakuryu-maru	Current survey @ 5miles SW	-	-	-

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	bc	14.0 ; 23.2	1014.2	10.6 ; 13.0 ; 12.7	2.3 ; 265 ; 6.3	0.6 ; 332	22.0

Today's Schedule : Continue bottoms up. Monitor mud loss volume.

Reported by : D. Ikenomoto / T. Yokoyama / S. Kataoka
 Approved by : T. Saruhashi