

Chikyū DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 99

Site Name : C0002 Hole Name : C0002P Lat. : 33° 18.0507'N Long. : 136° 38.2029'E Report Date : 21/Dec/2013  
 Depth @24:00 : 4130.0 mBRT 2162.5 mbsf Progress : 4130.00 m Seabed Depth : 1,967.50 mBRT RT-AUAS : 28.6 m  
 Depth @06:00 : 4130.0 mBRT 2162.5 mbsf Drilling/Coring/Jetting Hrs. : 13.25 hrs LAST CASING : 13-3/8" x 1,936.50 mbsf( 3,904.0 mBRT)  
 Summary of Operation on 20-Dec : RIH to bottom. Resume drill 12-1/4" hole.  
 Present Operation @ 06:00 on 21-Dec : Circulation and bottoms up. POOH.  
 Time Breakdown ( 00:00 - 24:00 on 20-Dec ) mBRT: meter below rotary table  
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation	Angle	Deg
0:00	1:00	1:00	RR	Continue repair hydraulic hose of thread compensator of HPS.		
1:00	7:30	6:30	Trip	Open DVS and RIH 12-1/4" kick off BHA to 4035.2mBRT. Fill up every 15 stands. "Auto lock" gator lock. Open CMC and pass CSG window with 150gpm x 3.0MPa, no excess drag. Ream down to 4035.2mBRT with 400gpm x 9.0MPa, 50rpm x 8-16K-m.	LFJ	0.0
7:30	13:00	5:30	DRL	Resume drill 12-1/4" hole and kick off 4035.2 - 4075mBRT (2067.7 - 2107.5mbsf, 39.8m). (7:00 - 8:00) Sliding from 4035.2 - 4040.1mBRT, WOB 80-164kN, 850gpm x 30-32MPa. (8:00 - 13:00) Rotary from 4040.1 - 4075mBRT, WOB 100-180kN, 850gpm x 30MPa, 100rpm x 10.5-24.5kN-m T gas Max: 0.5%, C1: 0.33%, C2: 0.021%, @4062.0mBRT. Base: 0.17%.	BOP	170.0
13:00	14:00	1:00	RR(N)	Repair for hydraulic oil leakage from HPS. Rack back 1stand for investigation and repair leakage. While pick up stand. Stall HPS @4070mBRT, SPP was increased from 29 to 31MPa. Slack 120kN and release. Stall HPS @4069mBRT, SPP was increased from 29 to 31MPa. Slack 210kN and release. Connect HPS after rack back 1stand. Circulation 400gpm x 8.3MPa while investigation and repairing. Investigation of leakage, found loose hydraulic hose connection of link tilt cylinder on HPS and tighten it. Function test "OK". Run back to bottom.		
14:00	23:15	9:15	DRL	Resume drill 12-1/4" hole from 4075.4-1300mBRT (2107.5-2162.5mbsf, 55m). Kick off drilling, build up hole inclination to 3.88deg(@4074.32mBRT, BTM depth 4190mBRT), then drop inclination (14:00 - 16:30) Rotary from 4075 - 4092mBRT, WOB 50-160kN, 850gpm x 30MPa, 100rpm x 11-18kN-m (16:30 - 18:15) Sliding from 4092 - 4100mBRT, WOB 70-160kN, 850gpm x 28.5-32.5MPa. (18:15 - 21:45) Rotary from 4100 - 4075mBRT, WOB 85-191kN, 850gpm x 30.5MPa, 100rpm x 10-24kN-m Survey and sweep 10m3 Hi-vis after every connection. No caved cuttings observed.		
23:15	24:00	0:45	C&C	Sweep out 10m3 of Hi-vis mud.		
Meanwhile, make up RCB inner barrel assembly in auxiliary well.					from	to
					adv.	ROP (m/hr)
						Ave.
						Max
						min
						MD (m)
						Inc (deg)
						Azm (deg)
						DLS (deg/100ft)
					4035	4040
					4040	4092
					4092	4100
					4100	4130
Note:						
(14:00 - 18:00) DP status change to "Advisory" due to wind speed over 18m/s.						
(18:00) DP status change to "Green".						
(21:00 - 24:00) DP status change to "Advisory" due to wind speed over 18m/s.						
ROV inject glycol 3gal to LMWP and 5gal to BOP every 12hrs.						
Sea current: Chikyū 0.4-1.1knot, SW 5miles 0.5-2.2knot.						
The data on 00:00 - 06:00 is unofficial.						

From	To	Hrs	Code	Detail of Operation	Depth (mBRT)	Drag (kN)
0:00	1:30	1:30	C&C	Circulate and bottoms up, 850gpm x 28.6MPa.	4085.0	120
1:30	6:00	4:30	Trip	POOH to 2948.8mBRT. Normal drag, 50-80kN in open hole and 30-50kN in CSG.	4085.0	250
Lay out single joint for enter CSG window.					4086.0	250
Open CMC and enter CSG window, normal drag 40kN.					4028.4	190
Meanwhile, continue make up RCB inner barrel assembly in auxiliary well.					4012.2	250
					4009.4	250
					3988.2	240
					3979.2	270
					3977.8	180
Sea current: Chikyū 0.7knot, SW 5miles 1.5knot, S 11miles 3.6knot.						

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mair)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev.	Inner	Outer	Dull	Dull Condition	
6	12.25	Smith	XR+CPS	117	PW9782	22 x 3, 19 x 1	3922.00	1	4,130.00	208.0	18.54	34	220	110	215	542.0	

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mair)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev.	Inner	Outer	Dull	Dull Condition
#6																4,087.0 mBRT
Kick off bit x Motor x 12" Slab x HOC x DH screen x Float Sub. (w/Float) x 8-1/2" DC(12) x Drilling Jar x 8-1/2" DC(2) x XO x 5.68" HWDP(12) x XO x 5" DP S-140 44stds x 5-1/2" DP S-140 21stds x XO x 5-1/2" DP S-150 25stds x XO x 6-5/8" DP Z-140																

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gal St. (10" St)	WL	Cake	pH	PI	Cl.	Sand	Oil	Solid	MBC	Temp (In/Out)	K+	n	K	LGS		
KNPP	3:00	Pit	1.28	105	39	54	6	7	2.7	0.5	11.7	0.2	110,000	0.2	0	12.5	1.00	8		30,000	0.51	3.59	1.7
KNPP	14:00	4,075	1.28	102	43	46	6	9	2.7	0.5	11.6	0.2	103,000	0.2	0	12.5	1.00	13	11	30,600	0.63	0.83	2.0

Mud Pumps	14-P-220	@	5.00	gallon/stroke @97%	
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"				
2	6"	171	855	29.5	21
3	6"				

Geologic Information	From	To	Lithology of cuttings
	4035.0	4130.0	Cly. 70-85, Silt. 10-20, Sand. 5-15

Shale Shaker	Centrifuge	Hrs
No.1 #10, #20 x 2	No.4 #10, #180 x 2	No.1 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	94.2	102.2	336.3	
Portable Water	m3	0.0	1.6	248.5	
Drill Water	m3	0.0	24.5	1,337.2	
Fuel	m3	0.0	59.0	3,650.9	
Lube Oil	Ltrs	0.0	1,000.0	57,400.0	
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 @Chikyū
	Kaiyu	Current survey @SW 5miles	Departed - Arrived -
	Shinchou-manu	Shingyu	- -
	Hakuryu-manu	Current survey @S 10miles	- -

Weather Information	Time	Weather	Temp. (degC)	Barometer (hPa)	Wind (m/s)	Wave (deg)	Height (m)	Dir. (deg)	Period (s)	Current (Speed/knt)	Dir. (deg)	Visibility (km)
	24:00	bc	9.0	1012.3	20.0	286.0	2.7	280	7.2	0.5	127	22.0

Today's Schedule: Continue POOH to surface. Install corline BOP. Make up and RH RCB BHA.

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