

Chikyū DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 96

Site Name : C0002 Hole Name : C0002P Lat. 33° 18.0507'N Long. 136° 38.2029'E Report Date : 18/Dec/2013
 Depth @24:00 3965.4 mBRT 1997.9 mbsf Progress : 5.40 m Seabed Depth : 1,967.50 mBRT 2012.8 mbsf RTASL : 28.5 m
 Depth @06:00 3980.3 mBRT 2012.8 mbsf Drilling/Coring/Letting Hrs. : 13.00 hrs LAST CASING : 13-3/8" x 1,936.50 mbsf (3,904.0 mBRT)
 Summary of Operation on 17-Dec : Drill 12-1/4" hole. Work stop pipe. Condition mud. Resume drill 12-1/4" hole.
 Present Operation @ 06:00 on 18-Dec : Continue drilling 12-1/4" hole with kick off assembly.
 Time Breakdown (00:00 - 24:00 on 17-Dec) mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	9:15	9:15	DRL	Continue drill 12-1/4" hole from 3927.4 to 3960.0mBRT (1959.5-1992.5mbsf, 33m). 3 or 4m slide, 6m rotation Sliding: WOB 20-120kN, 800gpm x 26.4-27.7MPa. Rotation: WOB 40-150kN, 800-850gpm x 24.9-27.6MPa, 50-100rpm x 6.7-17.8kN-m. Increase MW to 1.25sg while drilling. T Gas: Max 1.03% @3959.5mBRT, C1: 0.77%, Base 0.2-0.3%. Increase HPS torque limiter to 40kN-m and rotate right. HPS stall. Release torque to 20kN-m. Ream up string 3959 to 3956mBRT with 100rpm, HPS torque increased to 26kN-m and HPS stalled. SPP up from 26 to 30MPa, 90kN of over pull. Suspect pack off. Work stop pipe. (8:30-13:00) Work pipe down to free, slack down 1000kN w/ torq 30kN and 500kN w/35kN-m and neutral w/40kN-m. Try to jar down - no success. Regain circulation with 65gpm/7.6MPa, stage up to 250gpm x 10.5MPa, -loss observed, circulate at 200gpm x 9.2MPa, -no losses observed. Add clean lube to active to lubricate (4-7%). Pumped 5m3 Hi-vis mud (1.25sg) @12:15. Pumped 5m3 Clean lube (30%) to lubricate string @13:30. Miss fired jar up with 340kN overpull, SPP was increased to 11.2MPa. Continue circulation, SPP was decreased to 9.2MPa. Increase HPS torque limiter to 40kN-m and rotate right. HPS stall. Release torque to 20kN-m. Stop pump with hold torque. SPP is decreased to 2.5MPa, gradually. (13:00-13:30) Release HPS torque and work pipe, overpull 50-300kN and slack 1000kN. Jar down. SPP was decreased after every jar down and to 1.0MPa. Jar down fired only when pick up to neutral slowly. (13:30-13:45) Start pump 200gpm x 9.7MPa. Continue working pipe, overpull 320kN and slack down 1000kN. SPP was increased to 11.4MPa after jar up (miss fired) with 320kN overpull. Set Max overpull 250kN on DW. Decreased WOB from 100kN to 280kN and SPP from 9.0 to 7.5MPa with 200gpm after down jar (11 times). Rotate string -confirmed free pipe.
13:45	16:30	2:45	WR	Ream up to CSG window. Pumped 5m3 Hi-vis mud. Increase HPS speed (100rpm x 10 - 13kN-m) and flow rate (800gpm x 25.3MPa) w/booster 80rpm x 3.5MPa. Ream up to 3923.6mBRT
16:30	17:00	0:30	Trip	Pull string through CSG window. Stop rotation and decrease pump rate 500gpm x 11.7MPa. Open CMC, pull string through CSG window and to 3902.0mBRT, normal drag 80-100kN while pick up. Run back to 3930.4mBRT with 500gpm x 11.3MPa, found normal drag 20-48kN. Start rotation 50rpm x 7.9-8.5kN-m and run to 3935.4mBRT.
17:00	20:00	3:00	C&C	Condition mud (increase MW to 1.28sg). Circulate 800gpm x 25.7-26.2MPa, ream up/down from 3944-3954mBRT
20:00	20:15	0:15	C&C	Take SCR and CLFP
20:15	20:45	0:30	Trip	Run back to 3960mBRT
20:45	24:00	3:15	DRL	Resume drilling 12-1/4" hole 3960.0-3965.4mBRT Slide: WOB 30-100kN, 850gpm x 28.7MPa. MW=1.28sg, 3946mBRT SCR, CLFP 20 30 40 MP1 Riser 450 545 640 MP2 Riser 450 545 665 MP3 Choke 145 195 240 3927 3931 3.6 Rotary 6.98 8.93 5.48 3931 3934 3 Slide 4.17 7.40 3.08 3934 3940 6 Rotary 6.67 11.39 4.25 3940 3943 3 Slide 4.11 6.84 2.20 3943 3949 6 Rotary 10.00 14.32 6.46 3949 3953 4 Slide 2.52 10.75 2.26 3953 3960 7 Rotary 13.22 17.70 6.75 3960 3965 5 Slide 3.31 9.79 2.24
Note: Glycol injection: BOP: 5gal, LMRP: 3+60gal Sea current: Chikyū 0.8 - 3.0knot, SW 5mile 2.8 - 3.5 knot.				

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	DRL	Continue drilling from 3965.4 to 3980.3mBRT Check shots to confirm inclinations along reamed section while conditioning mud. Sliding: WOB 30-40kN, 850gpm x 29.4MPa. Rotation: WOB 120-150kN, 850gpm x 30.5MPa, 100rpm x 10.5-12.3kN-m. Check shots from to adv. ROP (m/hr) Check shots MD (m) Inc (deg) BUR (deg/30m) 3953 3960 7 Rotary 4.54 6.86 3.39 3960 3965 5 Slide 18.13 26.83 8.13 3965 3972 7 Rotary 14.23 21.68 9.27 3972 3980 6 Rotary 9.0 13.8 3.9 3980 16 0.53 -1.99 3985 0.11 -2.59 3955 41 0.62 4.84 3959 40 1.18 4.21 3962 39 1.88 4.18 3966 34 2.10 3.19
Note: Shincho maru departed to Shingu at 03:05. Sea current: Chikyū 1.4 knot, SW 5mile 2.0 knot @ 6:00.				

Bit	Size	MFR	Type	IADC	S/No.	Nozzles	Depth (m)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev.	Inner	Outer	Dull	Dull Condition
B	12.25	Smith	XR+CP5	117	PW8782	22 x 3, 19 x 1	3922.00	3,965.40	43.4	7.85	0	150	80	230	164.0	

Bit	Size	MFR	Type	IADC	S/No.	Nozzles	Depth (m)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev.	Inner	Outer	Dull	Dull Condition
BHA	Reared															

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gal (St/10')	WL	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (In/Out)	K+	n	K	LGS		
KNPP	4:00	3,940	1.25	97	45	45	6	9	2.9	0.5	11.8	0.2	88.000	0.3	0	11.0	1.00	14	11	32,400	0.58	2.35	0.9
KNPP	19:30	3,959	1.28	110	45	53	6	11	2.8	0.5	12.0	0.2	106.500	0.3	0	12.5	1.00	13	12	35,600	0.51	2.18	1.6
	22:30		1.28	300	59	94	15	30								16				0.47	8.14		

No.	Liner Size	SPM	GPM	Press (MPa)	Ann. Vel. (m/min)
1	6"				DC DP
2	6"	170	850	28.7	21
3	6"				18

From	To	Lithology of cuttings
3922.0	3958.0	Claystone: 100%

No.1	#10, #145 x 2	No.4	#10, #145 x 2	No.1	off
No.2	#10, #145 x 2	No.5	#10, #145 x 2	No.2	off
No.3	#10, #145 x 2	No.6	#10, #145 x 2	No.3	off

Item	Unit	Received	Used	Stock
Fresh Water	m3	89.9	94.5	(4.6)
Potable Water	m3	0.0	6.9	(6.9)
Drill Water	m3	0.0	0.0	0.0
Rust	m3	0.0	81.2	(81.2)
Lube Oil	Ltrs	0.0	1,400.0	(1,400.0)
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

Item	Received	Used	Stock
CDEX	8		
MOJ Crew	95		
MOJ (sc.crew)	1		
MOJ (Sub sea & Hyd)	2		
MWJ	16		
Scientist	24		
TeIte	2		
Oceanengineering	6		
Schlumberger-CMT	1		
SLB WL	0		
Geoservice	6		
Velco	9		
Halliburton-LND	3		
Halliburton-DD	1		
Weatherford (CSG)	0		
Mi-Swaco	4		
Whipstock	1		
TV Crew	0		
Total	170		

Boat Name	Status	Time @Chikyū
Kalyū	Current survey, SW 5miles	18:30
Shincho-maru		
Hakuryū-maru	Current survey, S 10miles	

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	r	12.0	1015.5	12.5	18.0	12.7	0.9

Today's Schedule : Continue drilling 12-1/4" hole, pull to BOP for rough weather, continue drill 12-1/4" hole.
 Reported by : S. Kataoka / T.Yokoyama / S. Yamada
 Approved by : T.Sarushashi