

Chikyu DAILY MORNING REPORT

Mission No. : CK18-04

Exp. No. : Exp 358

Report No. : 90

Site Name C0002 Hole Name C0002R Lat. 33° 18.0507'N Long. 136° 38.2029'E Seabed Depth: 1,967.5 mBRT RT-MSL: 28.5 m Report Date: 5/Jan/2019

Depth: @24:00 5,052.0 mBRT 3084.5 mbsf Progress: 7.5 m Drilling/Coring/Underreaming Hrs.: 18.25 hrs Last BOP PT: 12/14/18 Next BOP PT: 1/4/19

Summary of Operation on 4-Jan: Ream down from 4,820mBRT to 4,849mBRT. Drill down to 4,860mBRT. Troubleshoot for HPS. POOH to 4,440mBRT. BOP pressure test.

Time Breakdown (00:00 - 24:00 on 4-Jan): From 0:00 To 11:30 Hrs 11:30 Code W&R Depth(mBRT) 5,052.0

Detail of Operation: Ream down from 4,820mBRT to 4,849mBRT. (00:00-05:30) Attempt to pass 4,840-4,842mBRT with varying parameters without success.

Parameters: WOB 0-180kN, 5-60rpm x 11-23kNm, 150-450gpm x 4-15MPa. Attempt to face GTF to high side and lower the string down, but unable to pass due to high drag.

(05:30-06:30) Continue to reaming down to pass 4,840-4,842mBRT with increased parameters. Parameters: WOB 100-150kN, 30-50rpm x 13-20kNm, 350-400gpm x 12-16MPa.

(06:30-11:30) Slide to 4,838mBRT to 4,849mBRT to back to C0002R hole. Adjust GTF to high side and lower down the string.

Parameters: WOB 100-200kN, 400gpm x 12.5MPa (Off bottom) / 13-15MPa (On bottom). Observe standpipe pressure dropped (1-2MPa at on bottom) at 4,844mBRT, 4,845.5-4,846.5mBRT.

Pick up string to 4,840mBRT and drill down from 4,849 to 4,860mBRT with rotary. Parameters: WOB 70-80kN, 40rpm x 11-16kNm, 480gpm x 19.5MPa.

Take survey at 4,858mBRT, 4,850mBRT, 4,840mBRT, 4,830mBRT and 4,820mBRT. Wipe stand prior to take survey. No excessive drag/overpull while wiping.

After taking survey, take weight at 4,838mBRT while lowering stand. Ream down from 4,838mBRT to 4,841mBRT.

Parameters: WOB 0-100kN, 10-60rpm x 14-20kNm, 100-480gpm x 3.0-18.1MPa. When picking up string, stand pipe pressure increasing sharply from 12.5 to 24.2MPa.

Pressure decrease gradually, but higher than usual, 250gpm x 19.7MPa. Lower string to confirm mud motor condition.

HPS torque fluctuate at 4,837mBRT and stand pipe pressure decrease to 6.6MPa at 300gpm, but pressure increase to 16.4MPa once picking up string.

DD confirm mud motor has fault. Make decision to POOH to surface to check BHA. Troubleshoot for breaking HPS connection.

When attempt to break connection between 6-5/8" DP UD-165 and HPS saver sub, pipe handler die slip and unable to break the connection.

Lower string as lower as possible and clamp bottom connection on 3rd joint of 6-5/8" DP UD-165 stand. Attempt to break HPS connection by HPS motor but break connection between 3rd and 4th joint.

Break 2nd joint bottom connection by rough neck. Clamp 3rd joint bottom connection by EBT and break the 2nd joint top connection by rig tong.

Lay out 2nd joint of the stand. Make connection between 1st and 3rd joint. Clamp 4th joint bottom connection by EBT and break HPS connection by HPS motor spin successfully with 98kNm.

POOH 8-1/2" kick off BHA to 4400mBRT. Change elevator from #1 to #2 due to door close function failure.

No losses in last 24 hours. Ditch magnet: 3.0kg (Total 92.5kg for Kick off hole)

* The data on 00:00 - 06:00 is unofficial. Time Breakdown (00:00 - 06:00 on 5-Jan)

From 0:00 To 0:45 Hrs 0:45 Code RR Depth(mBRT) 5,052.0

Continue to change elevator from #1 to #2 due to door close function failure. BOP pressure test by Blue (#1-#3) and Yellow (#4-#7) from drillers house. 500psi x 5min and 4,600psi x 5min.

#1 pressure test for OGB, UOC, LOC, UOK, and LOK: Good test. #2 pressure test for IGB, UIC, LIC, UIK, and LIK: Good test.

#3 pressure test for LA, Test ram and UIK: Good test. #4 pressure test for UPR, UOK: Good test.

#5 pressure test for MPR: Good test. #6 pressure test for UA, IGB, UIC and LIC: Good test.

#7 pressure test for OGB, UOC, LOC: Good test. Bit Record @24:00

Table with columns: Bit No., Size (in), MFR, Type, IADC Code, S/No., Nozzles, Depth (mBRT) From/To, Meter-age, Hrs., WOB (kN) Min/Max, rpm Min/Max, Total Rev. (krev), ROP (m/hr), Inner, Outer, Dull, Loc., B, G, O.D., RP.

Table with columns: Mud Type, Time, Depth (mBRT), MW, VIS, PV, YV, 6rpm, Gel St. (10', 10'), API, Cake, pH, PF, Cl-, Sand, Oil, Solid, MBC, Temp In/Out, K+, n, K, LGS, FIT 20/40 (mm) 0 min/5 min.

Table with columns: No., Liner Size, SPM, GPM, Press. (MPa), Ann. Vel. (m/min), Personnel @24:00, Item, Received, Used, Stock.

Table with columns: No., To, Lithology of cuttings, Shale Shaker @24:00, Centrifuge:0 hrs, Materials Stock on Board @24:00.

Table with columns: No., Unit, Stock, Used, Received, Boat Information @24:00.

Table with columns: Boat Name, Status, Time @Chikyu Departed, Arrived, Weather Information.

Table with columns: Time, Weather, Temp. (degC), Barometer/Wind, Wave, Current, Visibility.

Today's Schedule: Function test BOP / POOH to surface / RIH with 8-1/2" x 12-1/4" LWD BHA

Table with columns: Incident, Last Incident, No. LTA, HUNS cards, Status, Last Dive, 1/1/19, Injection Skid, Dive w/135 gal skid.

Table with columns: Fit, Time, Passenger, No., Arrived, Departed, Are., Dept., Heli Information @24:00.

Table with columns: Incident, Last Incident, No. LTA, Remarks, Safety (HSE) and other information.

Table with columns: Heave (m), Pitch (deg), Roll (deg), Vessel Heading (deg), Riser Tension (kN), V.D. Load (ton), Max Draught (m), Thruster (kW), Marine Information @24:00.

Reported by: T. Yokoyama / T.Nishiyama

Approved by: T.Saruhashi