

Chikyū DAILY MORNING REPORT

Mission No.: CK18-04 Exp. No.: Exp 358

Report No.: 66

Site Name C0002 Hole Name C0002O Lat. 33° 18.0507'N Long. 136° 38.2029'E Seabed Depth: 1,967.5 mBRT RT-MSL: 28.5 m Report Date: 12/Dec/2018

Time Breakdown (00:00 - 24:00) on 12-Dec Detail of Operation From To Hrs Code Depth(mBRT) Continue to replace IBOP to back up one. Install and function check of Hydraulic elevator.

Time Breakdown (00:00 - 06:00) on 12-Dec Detail of Operation From To Hrs Code Depth(mBRT) Take survey at 4,916mBRT. Survey result 4,907.02mBRT. Inclination 1.57deg. Azimuth: 41.38deg

Bit Record @24:00

Bit No. Size (in) MFR Type IADC Code S.No. Nozzles From To Meter-age Hrs. WOB (kN) rpm Total Rev. ROP (m/hr) Inner Outer Dull Loc. B G O.D. RP

#14 LWD 8.5" x 12.25" 8-1/2" Bit x Bit sub w/inon-ported x XO x arcVisior675 x TeleScope675 x XO x 8-1/4" Stabilizer x 6-3/4" DC (1) x 8-1/8" Stabilizer x 6-3/4" DC (1) x 8-1/8" Stabilizer x 6-3/4" DC (1) x 8-1/8" Stabilizer x 6-3/4" DC (3) x 8-1/2" DC (3) x 8" Jar x 8-1/2" DC (3) x XO x 5.88" HWDP (static) x XO

Mud Properties @24:00

KNPP Time Depth (mBRT) MW VIS PV YV 8rpm Gel St. (10, 10) API Cake pH FI CI Sand Oil Solid MBC Temp In Out K+ n K LGS FIT 2040 (mm) 4:00 4,905 1.37 88 23 33 12 11 20 4.4 0.8 10.2 0.1 128,000 0.10 16.5 1.50 9 6 21,400 0.42 3.61 2.40 17 : Over

Mud Pumps: 14-P-220

No. Liner Size SPM GPM Press. (MPa) Ann. Vel. (m/min) 1 6" 60 300 24.5 54 67

Geologic Information @24:00

From To Lithology of cuttings Shale Shaker @24:00 Centrifuge 0.0 hrs No.1 No.2 No.3 No.4 No.5 No.6 No.7 No.8 No.9 No.10

Materials Stock on Board @24:00

Item Unit Stock Used Received Fresh Water m3 268.7 90.1 100.5 Potable Water m3 312.0 2.5 0.0 Drill Water m3 1,594.0 11.0 0.0 Fuel m3 6,042.6 52.2 0.0 Lube Oil Ltrs 98,000 600.0 0.0

Boat Information @24:00

Boat Name Status Time @Chikyū #8 Meiji-maru NE Smile Departed Arrived Akatsuki Shingyu 03:00 Shincho-maru Chikyū

Weather Information

Time Weather Temp. (degC) Barometer Wind Speed (m/s) Dir. (deg) Gust (m/s) Height (m) Wave Dir. (deg) Period (s) Current Speed (kt) Dir. (deg) Visibility (km) 24:00 o 17.5 1016.7 8.5 350 10.0 2.9 70 7.2 0.8 214 22.0

Today's Schedule:

Ream down to 4,920mBRT.

Survey data (Depth: Telescope sensor depth) Depth (mBRT) Inc (deg) Azi (deg) 4,893.190 4.64 137.77 4,896.020 4.12 132.50 4,899.442 0.99 325.78 4,894.001 1.63 171.27 4,882.766 3.16 140.86 4,873.119 3.24 126.98 4,867.542 3.33 148.59 4,901.793 0.14 164.41 4,897.700 0.72 147.74

Hook Wt. (knt) @24:00 4,920.0 mBRT Hook Load 2,931 BHA 330 Below HWDP 290 Below Jar 243 HPS & Traveling block 620 Hook + RRT - Hook block - Jar Rotating time 24h/N: 1762-1636 Today 13.00 Total 0.00 hrs Cutting skip @24:00 Empty Full Total 39 4 43

RDV @24:00 Status Diving Last Dive 12/8/2018 Injection Skid 135 135 gal

Helicopter Information @24:00 Fil. No. Time Passenger 1 09:15 09:26 3 10 2 11:25 11:33 4 10 3 4

Safety (HSE) and other information Incident Last Incident No. LTA LTA HUNTS cards 20

Remarks

Marine Information @24:00 Heave (m) 0.7 Pitch (deg) 0.5 Roll (deg) 0.2 Vessel Heading (deg) 055 Riser Tension (kN) 9600.0 V.D. Load (ton) 14900 Max Draught (m) 9.0 Thruster (kW) 1100

Reported by: N. Sakurai / T. Nishiyama / T. Yokoyama Approved by: T. Saruhashi