

Chikyu DAILY MORNING REPORT

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

Report No.: **6**

Site Name: **C9034** Hole Name: **C9034E** Lat: **34°16.7974 N** Long: **138°32.8876 E** Seabed Depth: **1,697.0** mBRT RT-MSL: **28.3** m Report Date: **13/Oct/2018**

Depth @ 06:00: **1,770.0** mBRT **73.0** mbsf Progress: **73.0** m Drilling/Coring/Underreaming Hrs.: **6.57** hrs

Summary of Operation on **12-Oct**: Cont. RIH 10-5/8"RCB BHA. Tag seabed. Wash / drill down to 1,717mBRT. Cut #1-#3 RCB cores. POOH to surface.
 Present Operation @ 06:00 on **13-Oct**: Cont. POOH 10-5/8" RCB BHA. Sail to C0002 site. Prepare riser handling tools.

Time Breakdown (00:00 - 24:00) on **12-Oct**

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|-------|-------|------|------|-------------|--|
| 0:00 | 3:30 | 3:30 | TRIP | | RIH to 1,650mBRT. Dive ROV to seabed @01:45 |
| 3:30 | 3:45 | 0:15 | C&C | | Break circulation and check pressure w/300-400-500gpm x 0.9-1.6-2.6MPa. |
| 3:45 | 4:15 | 0:30 | CORE | | Install drain hose |
| 4:15 | 4:30 | 0:15 | TRIP | 1,697.0 | Run 10-5/8"RCB BHA to sea bed and tag sea bed @1,697.0mBRT. Lat: 34°16.7974N, Long: 138°32.8876E |
| 4:30 | 6:00 | 1:30 | W&R | 1,717.0 | Wash down from 1,697.0 to 1,717.0mBRT (0.0 - 20.0mbsf). Pump 100gpm x 0.7MPa. Ave. ROP: 15m/hr. Inject Silicon Oil into BOP Cans / Charge LMRP Acc. / Install Riser Flange Bolts / Transfer RRT Function check ROV in water. Good condition in water. |
| 6:00 | 7:00 | 1:00 | DRL | 1,747.0 | Drill down from 1,717.0 to 1,747.0mBRT (20.0 - 50.0mbsf). WOB: 0-9kN. Pump: 150gpm x 0.6MPa. HPS: 20rpm x 0.6-2.2kNm. Ave.ROP: 27m/hr. |
| 7:00 | 7:30 | 0:30 | C&C | 1,747.0 | Sweep out 5m3 of SWG. |
| 7:30 | 9:00 | 1:30 | CORE | 1,747.0 | Recover RCB center bit and unload sinker bar. |
| 9:00 | 9:15 | 0:15 | CORE | 1,747.0 | Drop #1 RCB inner barrel. Confirm inner barrel landing by increasing pressure from 0.8MPa to 1.5MPa w/250gpm after 10min. Check pressure w/200-250-300-350-400gpm x 0.8-1.5-1.8-2.1-2.9MPa. |
| 9:15 | 9:45 | 0:30 | CORE | 1,756.5 | Cut #1 RCB core from 1,747.0 to 1,756.5mBRT (50.0 - 59.5mbsf). WOB: 0-5kN. Pump: 150gpm x 0.5MPa. HPS: 40rpm x 0.0-2.2kNm. Ave.ROP: 19m/hr. |
| 9:45 | 10:45 | 1:00 | CORE | 1,756.5 | Recover inner barrel and unload sinker bar. |
| 10:45 | 11:15 | 0:30 | C&C | 1,756.5 | Sweep out 5m3 of SWG. |
| 11:15 | 11:30 | 0:15 | CORE | 1,756.5 | Drop #2 RCB inner barrel. Confirm inner barrel landing by increasing pressure from 0.7MPa to 1.3MPa w/250gpm after 10min. Check pressure w/200-250-300-350-400gpm x 0.8-1.3-1.7-2.3-2.9MPa. |
| 11:30 | 14:30 | 3:00 | CORE | 1,765.0 | Cut #2 RCB core from 1,756.5 to 1,765.0mBRT (59.5 - 68.0mbsf). WOB: 20-80kN. Pump: 250-300gpm x 1.0-1.4MPa. HPS: 60-80rpm x 2.0-10.5kNm. Ave.ROP: 3m/hr. |
| 14:30 | 15:30 | 1:00 | CORE | 1,765.0 | Recover inner barrel and unload sinker bar. |
| 15:30 | 16:30 | 1:00 | C&C | 1,765.0 | Sweep out 10m3 of SWG |
| 16:30 | 16:45 | 0:15 | CORE | 1,765.0 | Drop #3 RCB inner barrel. Confirm inner barrel landing by increasing pressure from 0.6MPa to 1.2MPa w/250gpm after 10min. Check pressure w/ 200-250-300-400gpm x 0.8-1.2-1.7-2.3-2.9MPa. |
| 16:45 | 18:00 | 1:15 | CORE | 1,770.0 | Cut #3 RCB core from 1,765.0 to 1,770.0mBRT (68.0 - 73.0mbsf). WOB: 20-60kN. Pump: 300gpm x 1.4MPa. HPS: 60-80rpm x 2.0-12.0kNm. Ave.ROP: 5.5m/hr. |
| 18:00 | 20:00 | 2:00 | CORE | 1,770.0 | Recover inner barrel and unload sinker bar. |
| 20:00 | 20:30 | 0:30 | TRIP | 1,770.0 | POOH 10-5/8"RCB BHA to 1,652.0mBRT (above sea bed) |
| 20:30 | 20:45 | 0:15 | CORE | 1,770.0 | Remove drain hose from HPS. |
| 20:45 | 24:00 | 3:15 | TRIP | 1,770.0 | Resume POOH 10-5/8"RCB BHA to surface. Pressure test C/K lines: OK. Charge accumulators with Nitrogen. |

Time Breakdown (00:00 - 06:00) on **13-Oct** * The data on 00:00 - 06:00 is unofficial.

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|------|------|------|------|-------------|---|
| 0:00 | 0:45 | 0:45 | TRIP | 1,770.0 | Continue to POOH 10-5/8"RCB BHA to surface. Lay out 10-5/8" RCB assembly. Find some cores inside core bit. Start to sail to C0002 site. |
| 0:45 | 6:00 | 5:15 | MOVE | | Sail to C0002 site (ETA 11:00 on 13th Oct). Make up XO x WBRRT x XO x 6m pup joint of 5-1/2" S150 and lay out Middle pipe deck. Lay out 7-3/8" SD-RCD Outer barrel. Remove 750ston hydraulic elevator. Service T-block. Remove coring mouse holes. Install Riser Guide Head to #1 Hydratracker. |

| Bit No. | Size (in) | MFR | Type | IADC Code | S/No. | Nozzles | Depth (mBRT) | Meter-age | Hrs. | WOB (kN) | rpm | Total Rev. (kern) | Inner | Outer | Dull | Loc | B | G | O.D. | RP |
|---------|-----------|-----|----------|-----------|---------|----------------|-------------------|-----------|------|----------|---------|-------------------|-------|-------|------|-----|---|---|------|----|
| 1 | 10.625 | NOV | CJPH713S | N/A | A249898 | 312-215 215 | 1,697.0 : 1,770.0 | 73.0 | 6.57 | 0 : 80 | 40 : 80 | 21.4 | 7 | 4 | BT | C | X | 1 | BU | TD |

| BHA Record | Hook Wt. (kN) @24:00hrs |
|---|-------------------------|
| 2 10-5/8"RCB 10-5/8"core bit x Float sub x Near bit sub x CLOCB x Top sub x Head sub x 8-1/2" coring collar (6) x XO | 40.0 |

| Mud Properties | Hook + HPS |
|---|------------|
| Mud Type: KNPP Time: Pit Depth (mBRT): MW: VIS: PV: YV: 6rpm: Gal St (10", 10): WL: Cake: pH: PI: Cl: Sand: Oil: Solid: MBC: Temp In: Temp Out: K+: n: K: LGS: FIT 20/40 (mm) 0 min : 5 min | 535 |

| Mud Pumps - 14-P-220 @ 1765.0 mBRT 5.00 gallon/stroke @97% | Personnel @24:00 | Mud Materials on Board @24:00hrs (unit: kg) |
|---|---|--|
| No. Liner Size SPM GPM Press. (MPa) Ann. Vel. (m/min) DC DP | COEX 11 MJQ Crew 104 MJQ (SC,Other) 2 MWJ 15 Scientist 1 Science Media 2 | Barite (Bulk) 813.000 Caustic Soda 1.000 Lime 2.200 Soda Ash 0 Caustic Potash 1.625 Tel-Polymer DX / L / H 6,400 / 1,200 / 0 XCD-Polymer 1.325 Lignite NC 4.500 Clean Lube W 10.000 Tel Clean W 6.400 Astex-S 6.300 Deformor 30C 448 Tell DD 3.200 Bi-Carbonate 2.000 Citric Acid 1.300 Tan Cal M / F / FF 1,020 / 210 / 0 Telinite GXL 684 Treat-HS 9.200 Mud Seal P 130 Tel Plug C / M / F 500 / 500 / 500 Tel Stop P / G 500 / 260 Balofit 163 Driscad D 0 Tel Flow P 0 Poro Seal 2.310 Steel Seal 50 5.250 KCI 16.000 NaCl 18.000 Fraceal 9.000 Stopsal 8.000 |

| Geologic Information | Shale Shaker | Materials Stock on Board @24:00 | Personnel @24:00 |
|-------------------------------|---|--|--|
| From To Lithology of cuttings | No.1 No.4 Centrifuge: hrs No.2 No.5 No.3 No.6 | Item Unit Stock Used Received Fresh Water m3 291.4 67.2 43.7 Potable Water m3 342.1 5.7 0.0 Drill Water m3 1,996.0 4.0 0.0 Fuel m3 8,032.9 41.4 0.0 Lube Oil Ltrs 138,300.0 600.0 0.0 Heil Water Ltrs 0.0 Cement "GWC" ton 186.0 Cement "G" ton 97.0 | AXON 1 Oceanering 6 SLB Cementing 1 SLB WL 0 Geoservices 0 AFGlobal 0 Frank's International 0 Enventure 0 |

| Boat Information @24:00 | Mud Volume (m3) | Hel Information |
|--|---|--|
| Boat Name Status Time @Chikyu Departed Arrived #8 Meiji-maru Chikyu | KNPP mud (1.33) 1156 PHG (1.06sg) 30 SWG (1.07sg) 0 total 1186 | Flt. No. Arrived Time Departed Passenger Are. Dept 1 2 3 4 |

| Weather Information | Safety (HSE) and other information | Marine Information @24:00 |
|--|---|---|
| Time Weather Temp. (degC) Barometer Wind Wave Current Visibility Air : SW (hPa) Speed (m/s) : Dir. (deg) : Gust (m/s) Height (m) : Dir. (deg) : Period (s) Speed(knt) : Dir. (deg) (km) | Incident Last Incident No. LTA LTA HUNS cards 25 Remarks | Heave (m) 0.1 Pitch (deg) 0.1 Roll (deg) 0.1 Vessel Heading (deg) 239 Riser Tension (kN) - V.D. Load (ton) 19206 Max Draught (m) 9.2 Thruster (kW) 13000 |

| Today's Schedule: |
|---|
| Cont. Sail to C2site. Set DP mode. Install cursor rail. Dive ROV. Set Transponders. Seabed survey. Wellhead cleaning. |