

Chikyu DAILY MORNING REPORT

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

Report No. : **65**

| | | | | | | | | | | | | | |
|---|--------|--------------|-------------|-------------|---------------|-----------------------------------|----------------|--------------|--------------|--------------|--------------|-------------|-------------|
| Site Name | C0002 | Hole Name | C0002Q | Lat. | 33° 18.0507'N | Long. | 136° 38.2029'E | Seabed Depth | 1,967.5 mBRT | RT-MSL | 28.5 m | Report Date | 11/Dec/2018 |
| Depth | @24.00 | 5,230.0 mBRT | 3262.5 mbsf | Progress | 0.0 m | Drilling/Coring/Underreaming Hrs. | 0.00 hrs | Last BOP PT: | 12/8/2018 | Next BOP PT: | 12/29/2018 | | |
| Depth | @06.00 | 5,230.0 mBRT | 3262.5 mbsf | LAST CASING | 11-3/4" | x | 2,922.50 mbsf | 4,890.0 mBRT | Last BOP FT: | 12/8/2018 | Next BOP FT: | 12/15/2018 | |
| Summary of Operation on 10-Dec : Cont. RIH 8-1/2" x 12-1/4" LWD BHA to 4.845mBRT. Wash and ream down to 4.880mBRT. Troubleshoot for IBOP. | | | | | | | | | | | | | |
| Present Operation @ 06:00 on 10-Dec : Cont. Troubleshoot for IBOP. Take survey. Wash / Ream down to 4.922.5mBRT. | | | | | | | | | | | | | |
| Time Breakdown (00:00 - 24:00 on 10-Dec) | | | | | | | | | | | | | |

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|-------|-------|-------|------|-------------|---|
| 0:00 | 11:15 | 11:15 | TRIP | 5,230.0 | Continue to RIH 8-1/2" x 12-1/4" hole opening assembly from 1.437mBRT to 4.845mBRT. Fill up every 15stds. Flow check at 1.926mBRT. Confirm well static. At 3.876mBRT (Inside 13-3/8" casing) Record slack off weight (2,215kN) and pick up weight (2,350kN). Confirm LWD signal w/500gpm x 15.5MPa. Record free rotating torque inside 13-3/8" casing w/500gpm x 15.5MPa. CMC on while bit and 10-5/8" stabilizer pass through the top of 11-3/4" liner hanger. Observe no excess drag while passing through the hanger. At 4.843mBRT (Inside 11-3/4" liner casing) Take SCR: 100gpm x 320psi, 150gpm x 420psi, 200psi x 550psi by #1 Mud pump. Pump 3m3 12ppb fracseal. Record slack off weight (2,750kN) and pick up weight (2,950kN). Confirm LWD signal w/500gpm x 16.9MPa. Record free rotating torque 12m above the casing window w/500gpm x 16.9MPa. 60rpm x 14.5-16.0kNm, 100rpm x 16.0-18.0kNm, 120rpm x 17.5-20.0kNm. Pump booster line w/450gpm to clean mud. |
| 11:15 | 12:30 | 1:15 | W&R | 5,230.0 | Wash and ream down from 4.845mBRT to 4.880mBRT. Wash down w/900gpm x 16.9MPa and observe taking weight from 4.873mBRT. 170kN at 4.875mBRT. Rotate string w/5rpm x 24kNm at 4.876mBRT, and pick up string to 4.872mBRT. Ream down w/500gpm x 17.2MPa & 5rpm x 27.5kNm to 4.876mBRT, and decrease WOB and HPS torque. Continue ream down to 4.882.5mBRT and pick up to 4.880mBRT. Take survey at 4.880mBRT. Fail to get survey data. After connection, start pumping with IBOP closed position and pressure increase to 39.4MPa, then unable to open IBOP. |
| 12:30 | 14:00 | 1:30 | RR | 5,230.0 | Troubleshoot for IBOP. Attempt to open IBOP manually with hydraulic torque wrench, but not success. Decision make to change out IBOP inside CSG. |
| 14:00 | 14:15 | 0:15 | RR | 5,230.0 | POOH 8-1/2" x 12-1/4" hole opening assembly from 4.880mBRT to 4.845mBRT. No excessive over pull. |
| 14:15 | 24:00 | 9:45 | RR | 5,230.0 | Replace IBOP to back up one. Break connection of IBOP but unable to make up IBOP by pipe handler. Remove HPS accessories. Rig up heavy duty rig tong and make up IBOP by the tong. Change shale shaker bottom side screen to API 100. Ditch magnet: 0.0kg (Total 166.8kg) |

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|------|------|------|-------|-------------|--|
| 0:00 | 0:30 | 0:30 | RR | 5,230.0 | Continue to replace IBOP to back up one. |
| 0:30 | 1:30 | 1:00 | RR | 5,230.0 | Install and function check of Hydraulic elevator. |
| 1:30 | 3:30 | 2:00 | W&R | 5,230.0 | Wash down from 4.845mBRT to 4.906.5mBRT. WOB: 100-200kN, MP: 200gpm x 5.4MPa. Pump 3m3 12ppb fracseal after connection. Observe taking weight of 170-200kN from 4.872.5mBRT to 4.874mBRT. Wait a few minutes after taking weight and observe WOB decreased. Continue wash down to 4.906mBRT. Pick up string to 4.903mBRT due to high WOB and resume wash down. Observe 280kN WOB and increase pump rate to 300gpm x 6.9MPa, but unable to pass through 4.906.5mBRT. |
| 3:30 | 3:45 | 0:15 | W&R | 5,230.0 | Ream down from 4.906.5mBRT to 4.910mBRT. WOB: 100-160kN, HPS: 30rpm x 8-28kNm, MP: 300gpm x 7.8-8.0MPa. |
| 3:45 | 4:15 | 0:30 | OTHER | 5,230.0 | Take survey w/500gpm x 18.0MPa at 4.905mBRT. Pick up 5m from 4.910mBRT. 1st and 2nd trials fail. Change rotation speed from 30rpm to 40rpm before survey when 3rd trial. |
| 4:15 | 4:30 | 0:15 | W&R | 5,230.0 | Wash down from 4.905mBRT to 4.913mBRT. WOB: 120-250kN, MP: 500gpm x 18.2MPa. Pump 3m3 12ppb fracseal. |
| 4:30 | 5:00 | 0:30 | OTHER | 5,230.0 | Take survey w/500gpm x 17.6MPa at 4.910mBRT. Pick up 3m from 4.913mBRT. Rotate string w/40rpm x 15.5-16.5kNm before survey. |
| 5:00 | 6:00 | 1:00 | W&R | 5,230.0 | Wash and ream down from 4.910mBRT to 4.922.5mBRT. Wash down from 4.910mBRT to 4.913mBRT and 4.913.5mBRT to 4.918.5mBRT. WOB: 120-270kN, MP: 500gpm x 16.8MPa. Observe WOB increased gradually. BHA can pass through once pick up string and wash down. Ream down from 4.913mBRT to 4.913.5mBRT and 4.918.5mBRT to 4.922.5mBRT. WOB: 60-160kN, HPS: 40rpm x 13-30kNm, MP: 500gpm x 17.0MPa. Stall HPS at 4.921mBRT. Observe standpipe pressure increase to 23.0MPa at 500gpm and reduce pump rate to 425gpm x 17.7MPa. Stall top drive and work pipe. |

| Bit No. | Size (in) | MFR | Type | IADC Code | S/No. | Nozzles | Depth (mBRT) | Meter-age | Hrs. | WOB (kN) | rpm | Total Rev. (Rev) | RQP (m/hr) | Dull Condition | | | | | | | | |
|---------|-------------|-----------|---------------|-----------|--------|------------------|--------------|-----------|------|----------|-----|------------------|------------|----------------|-------|------|------|---|---|------|----|--|
| | | | | | | | From | To | | | | | | | | | | | | | | |
| 5 | 8.5 | Smith | Helixide X581 | M323 | DF3237 | 3x12.02, 3x13.02 | | | | | | | | Inner | Outer | Dull | Loc. | B | G | O.D. | RP | |
| 5 | 8.5 x 12.25 | Drillstar | Z-Reamer690 | NA | 52764 | 1x17.02, 2x 8.32 | | | | | | | | | | | | | | | | |

| Bit Record @24.00 | BHA Record @24.00 | Hook Wt. (knt) @24.00 |
|---|-------------------|-----------------------|
| #14 8.5x12.25" 8-1/2" Bit x Bit sub w/in-ported x XO x ar/Vision675 x TeleScope675 x XO x 8-1/4" Stabilizer x 6-3/4" DC (1) x Z-Reamer x Float sub w/in-ported float x 6-3/4" DC (1) x 8-1/8" Stabilizer x 6-3/4" DC (10) x XO x 8-1/2" DC (3) x 10-5/8" Stabilizer x 8-1/2" DC (3) x 8" Jar x 8-1/2" DC (3) x XO x 5.88" HWDP (3stds) x XO | | 4,845.0 mBRT |

| Mud Type | Time | Depth (mBRT) | MW | VIS | PV | YV | 6rpm | Gel St. (10 ³ / 10 ²) | API | Clay | pH | PI | Cl- | Sand | Oil | Solid | MBC | Temp (In / Out) | K+ | n | K | LGS | FIT 20/40 (mm) | |
|----------|-------|--------------|------|-----|----|----|------|--|-----|------|-----|------|-----|--------|------|-------|------|-----------------|----|--------|------|------|----------------|--|
| KNPP | 4:30 | Pit | 1.37 | 68 | 21 | 37 | 13 | 11 | 20 | 4.4 | 0.8 | 0.3 | 0.1 | 128.00 | 0.10 | 16.5 | 1.50 | 9 | 6 | 21.400 | 0.38 | 4.72 | 2.40 | |
| KNPP | 20:00 | Pit | 1.37 | 68 | 24 | 34 | 13 | 11 | 19 | 4.3 | 0.7 | 10.3 | 0.1 | 128.00 | 0.10 | 16.5 | 1.50 | 9 | 6 | 21.400 | 0.39 | 4.44 | 3.40 | |

| Mud Pumps | 14-P-220 | 5.00 | gallon/stroke @97% | | |
|-----------|-------------|------|--------------------|--------------|-------------------|
| No. | Liner Size | SPM | GPM | Press. (MPa) | Ann. Vel. (m/min) |
| 1 | 6" | 50 | 250 | 17.2 | 50.1 |
| 2 | 6" | 50 | 250 | 17.2 | 50.1 |
| 3 | 6"(Booster) | 90 | 450 | | 63 |

| Personnel @24:00 | Mud Materials on Board @24:00hrs |
|------------------|----------------------------------|
| CDEX | 10 |
| MCU Crew | 104 |
| MCUJ (Other) | 9 |
| MWJ | 15 |
| Scientist | 14 |
| Telinite | 2 |
| Oceanseering | 6 |
| SLB Cementing | 2 |
| SLB WL | 0 |
| Gasconics | 6 |
| M-I SWACO | 4 |
| SLB Underreamer | 2 |
| SLB LWD | 2 |
| SLB Seismic | 0 |
| AFGlobal | 2 |
| ENVENTURE | 0 |
| SLB DD | 0 |
| Frankie | 0 |
| Total | 169 |

| Shale Shaker @24:00 | Centrifuge @0 hrs |
|---------------------|-------------------|
| No.1 | 20, 100 |
| No.2 | 20, 100 |
| No.3 | 30, 100 |

| Materials Stock on Board @24:00 | Mud volume @24:00 | | | |
|---------------------------------|-------------------|---------|------|----------|
| Item | Unit | Stock | Used | Received |
| Fresh Water | m3 | 258.3 | 82.4 | 50.1 |
| Potable Water | m3 | 314.5 | 6.5 | 49.3 |
| Drill Water | m3 | 1,805.0 | 18.0 | 0.0 |
| Fuel | m3 | 6,094.8 | 47.4 | 0.0 |
| Lube, Oil | Ltrs | 98,600 | 0.0 | 0.0 |
| Helix Fuel | Ltrs | 0.0 | 0.0 | 0.0 |
| Cement "GWC" | ton | 186.0 | 0.0 | 0.0 |
| Cement "G" | ton | 97.0 | 0.0 | 0.0 |

| Boat Information @24:00 | Mud Volume (m3) | Mud Materials on Board @24:00hrs |
|-------------------------|-----------------|----------------------------------|
| Boat Name | Status | Time @Chikyu |
| #8 Meiji-maru | NE Smile | Departed |
| Akatsuki | Shingu | 03:00 |
| Shincho-maru | Chikyu | |

| Weather Information | Marine Information @24:00 | | | | | | |
|---------------------|---------------------------|--------------|-----------|------|------|---------|------------|
| Time | Weather | Temp. (degC) | Barometer | Wind | Wave | Current | Visibility |
| 24:00 | c | 10.5 | 1028.0 | 9.2 | 10 | 1.3 | 231 |
| | | 19.4 | 1028.0 | 9.2 | 10 | 4.8 | 22.9 |

Today's Schedule: Continue to wash & ream down. Pump up to 4.894mBRT. Activate Z-Reamer. Drill 8-1/2"x12-1/4"LWD hole.

Reported by : T. Nishijima / T. Yokoyama
Approved by : T. Saruhashi