

**Chikyū DAILY MORNING REPORT**

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

Report No.: **70**

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: **16/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: **12/14/2018** Next BOP PT: **1/4/2019**  
 Depth: @06:00 **5,230.0** mBRT **3262.5** mbsf LAST CASING: **11-3/4"** x **2,922.50** mbsf( **4,890.00** mBRT) Last BOP FT: **12/14/2018** Next BOP FT: **12/21/2018**  
 Summary of Operation on **15-Dec**: **Cont. Slip and cut. Conduct brake test, Dolly maintenance, Rig up wireline equipment, Troubleshoot Wireline unit** Last Glycol 35gal Inj. **12/11/2018**  
 Present Operation @ 06:00 on **16-Dec**: **Depth correlation between 4,650~4,810mBRT w/Up log.** mBRT: meter below rotary table  
 Time Breakdown ( 00:00 - 24:00 ) on **15-Dec** mbsf: meter below sea floor

| From  | To    | Hrs  | Code   | Depth(mBRT) | Detail of Operation  |
|-------|-------|------|--------|-------------|--|
| 0:00  | 4:15  | 4:15 | OTHER  | 5,230.0     | Continue to slip and cut drilling line.  |
| 4:15  | 4:45  | 0:30 | OTHER  | 5,230.0     | Break test of DW.  |
| 4:45  | 10:00 | 5:15 | OTHER  | 5,230.0     | Replace dolly solenoid valve of traveling block<br>Meanwhile: Lay out 7joint of NSD subs (Total 1joints) at aux well.  |
| 10:00 | 15:00 | 5:00 | OTHER  | 5,230.0     | Install pipe handler and elevator.<br>Prepare 11-3/4" EZSV for ready to run<br>Remove Tension sleeve and take off the seal<br>Push down sliding sleeve by using long bar then confirm sleeve in "open position" by water<br>Install bridging plug to sealing area then replace Tension sleeve<br>Meanwhile: NSD subs maintenance, pressure test ongoing  |
| 15:00 | 17:15 | 2:15 | OTHER  | 5,230.0     | Rig up wireline equipment<br>Meanwhile: NSD subs maintenance, pressure test ongoing  |
| 17:15 | 24:00 | 6:45 | LOG(N) | 5,230.0     | Troubleshoot for Schlumberger wireline unit<br>Malfunction Wireline unit due to communication failure between data receiving unit and data processing unit.<br>Find malfunction on Ethernet cable on data receiving unit. Replace to spare unit but not able to communicate with data processing unit. NG<br>Switching over between original and spare unit for several times and try to fix by using spare electronic board and re-arrange Ethernet cable. Ongoing<br>Meanwhile: Check 9-5/8" and 9-3/8" casing stands of bottom thread condition by picking up Hydraracker (9-5/8" x 2ea, 9-3/8" x 1ea): OK<br>After check, put thick dope onto thread and rack back again.<br>Conduct measurement for Whipstock and 10-1/2" Tri-mill assembly<br>Perform NSD subs maintenance, pressure test ongoing<br><br>Ditch magnet: 0.0kg (Total 178.8kg) |

Time Breakdown (00:00 - 06:00) on **16-Dec** \* The data on 00:00 - 06:00 is unofficial.

| From | To   | Hrs. | Code   | Depth(mBRT) | Detail of Operation  |
|------|------|------|--------|-------------|--|
| 0:00 | 0:30 | 0:30 | LOG(N) | 5,230.0     | Continue to Troubleshoot for Schlumberger wireline unit<br>Recover communication between data receiving unit and data processing unit. OK<br>The reason of failure is not clear yet, investigation ongoing.  |
| 0:30 | 1:45 | 1:15 | LOG    | 5,230.0     | Prepare plug setting tool.<br>Fill up hydraulic oil then install explosive and igniter.<br>Install 11-3/4" EZSV at the bottom of plug setting tool.<br>Measure the length from top of EZSV to CCL, 2.88m   |
| 1:45 | 6:00 | 4:15 | LOG    | 5,230.0     | RIH plug setting tool w/EZSV.<br>Set wireline depth counter "Zero" at CCL sensor depth at rotary.<br>Activate CMC at 50mBRT.<br>Conduct depth correlation at 6m pup while RIH for 3 times.<br>RIH to 4,810mBRT and conduct depth correlation between 4,650~4,810mBRT w/Up log for 3 times.<br><br>00:30: Find leakage from hydraulic hose on #1 Hydra racker |

**Bit Record @24:00**

| Bit No. | Size (in) | MFR | Type | IADC Code | S/No. | Nozzles | Depth (mBRT) |    | Meter-age | Hrs. | WOB (kN) |      | rpm  |      | Total Rev. (krev) | ROP (m/hr) | Dull Condition |       |      |      |   |   |
|---------|-----------|-----|------|-----------|-------|---------|--------------|----|-----------|------|----------|------|------|------|-------------------|------------|----------------|-------|------|------|---|---|
|         |           |     |      |           |       |         | From         | To |           |      | Min.     | Max. | Min. | Max. |                   |            | Inner          | Outer | Dull | Loc. | B | G |
|         |           |     |      |           |       |         |              |    |           |      |          |      |      |      |                   |            |                |       |      |      |   |   |

**BHA Record @24:00**

| Hook Wt. (knt) @24:00 |  | 0.0 | mBRT |
|-----------------------|--|-----|------|
| Hook Load             |  | -   |      |
| BHA                   |  | -   |      |
| Below HWDP            |  | -   |      |
| Below Jar             |  | -   |      |
| HPS & Traveling block |  | -   |      |
| Hook + RRT            |  | -   |      |
| Hook block            |  | -   |      |

**Mud Properties @24:00**

| Mud Type | Time | Depth (mBRT) | MW   | VIS | PV | YV | 6rpm | Gel St. (10", 10') | API | Cake | pH  | Pf   | Cl- | Sand    | Oil  | Solid | MBC  | Temp |        | K+   | n    | K    | LGS | FIT 20/40 (mm) |       |
|----------|------|--------------|------|-----|----|----|------|--------------------|-----|------|-----|------|-----|---------|------|-------|------|------|--------|------|------|------|-----|----------------|-------|
|          |      |              |      |     |    |    |      |                    |     |      |     |      |     |         |      |       |      | In   | Out    |      |      |      |     | 0 min          | 5 min |
| KNPP     | 1:30 | Pit          | 1.37 | 70  | 26 | 34 | 14   | 12                 | 20  | 5.1  | 0.7 | 10.0 | 0.1 | 124,000 | 0.20 | 17.0  | 1.50 | 8    | 22,000 | 0.40 | 4.12 | 3.60 | 19  | Over           |       |

**Mud Pumps - 14-P-220**

| No. | Liner Size   | SPM | GPM | Press. (MPa) | Ann. Vel. (m/min) |
|-----|--------------|-----|-----|--------------|-------------------|
| 1   | 6"           | 90  | 450 | 3.9          | 5.87DP            |
| 2   | 6"           | 0   | 0   |              |                   |
| 3   | 6" (Booster) | 0   | 0   |              |                   |

**Geologic Information @24:00**

| From | To | Lithology of cuttings |
|------|----|-----------------------|
|      |    |                       |

**Shale Shaker @24:00**

| No.  | 20, 170 | No.4 | 30, 170 | No.1 | off |
|------|---------|------|---------|------|-----|
| No.2 | 20, 170 | No.5 | 30, 170 | No.2 | off |
| No.3 | 30, 170 | No.6 | 30, 170 | No.3 | off |

**Materials Stock on Board @24:00**

| Item          | Unit | Stock   | Used | Received |
|---------------|------|---------|------|----------|
| Fresh Water   | m3   | 330.0   | 89.2 | 100.2    |
| Potable Water | m3   | 285.4   | 4.6  | 0.0      |
| Drill Water   | m3   | 1,552.0 | 8.0  | 0.0      |
| Fuel          | m3   | 5,843.4 | 45.0 | 0.0      |
| Lube Oil      | Ltrs | 95,500  | 0.0  | 0.0      |
| Heli 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**

| Boat Name     | Status   | Time @Chikyū |         |
|---------------|----------|--------------|---------|
|               |          | Departed     | Arrived |
| #8 Meiji-maru | NE 5mile |              |         |
| Akatsuki      | Chikyū   |              | 22:00   |
| Shincho-maru  | Shingu   |              |         |

**Weather Information**

| Time  | Weather | Temp. (degC) |      | Barometer (hPa) | Wind Speed (m/s) | Dir. (deg) | Gust (m/s) | Wave Height (m) |            | Current Speed (knt) |            | Dir. (deg) | Visibility (km) |
|-------|---------|--------------|------|-----------------|------------------|------------|------------|-----------------|------------|---------------------|------------|------------|-----------------|
|       |         | Air          | SW   |                 |                  |            |            | Dir. (deg)      | Period (s) | Dir. (deg)          | Dir. (deg) |            |                 |
| 24:00 | bc      | 8.5          | 19.3 | 1029.0          | 6.2              | 30         | 8.3        | 1.3             | 10         | 5.3                 | 0.5        | 231        | 22.0            |

Today's Schedule: Set Bridge plug. Pressure test against EZSV w/3,050psi. RIH Whipstock assembly.

**Personnel @24:00**

| Name            | Count |
|-----------------|-------|
| CDEX            | 7     |
| MQJ Crew        | 103   |
| MQJ (Other)     | 2     |
| MWJ             | 15    |
| Scientist       | 4     |
| Telrite         | 2     |
| Oceanering      | 6     |
| SLB Cementing   | 1     |
| SLB WL          | 3     |
| Geoservices     | 6     |
| M-I SWACO       | 4     |
| SLB Underreamer | 2     |
| SLB LWD         | 2     |
| SLB Seismic     | 0     |
| AFGlobal        | 2     |
| ENVENTURE       | 0     |
| SLB DD          | 0     |
| Franks          | 0     |
| Total           | 159   |

**Mud volume@24:00**

| Mud Volume (m3) | Count |
|-----------------|-------|
| KNPP mud (1.37) | 464   |
| Slug mud        | 2     |
| KNP mud (1.35)  | 92    |
| Total           | 126   |

**Mud Materials on Board @24:00hrs**

| Item                   | Received |       | Used |           | Stock |                   |
|------------------------|----------|-------|------|-----------|-------|-------------------|
|                        | Unit     | Count | Unit | Count     | Unit  | Count             |
| Barite (Bulk)          |          |       |      |           |       | 544,000           |
| Caustic Soda           |          |       |      |           |       | 1,200             |
| Lime                   |          |       |      |           |       | 200               |
| Soda Ash               |          |       |      | 175       |       | 675               |
| Caustic Potash         |          |       |      | 450       |       | 2,000             |
| Tel-Polymer DX / L / H |          |       |      | 800/200/0 |       | 5820/1300/0       |
| XCD-Polymer            |          |       |      | 50        |       | 1,225             |
| Lignite NC             |          |       |      |           |       | 4,500             |
| Clean Lube W           |          |       |      |           |       | 0                 |
| Tel Clean W            |          |       |      |           |       | 6,400             |
| Astex-S                |          |       |      |           |       | 0                 |
| Deformer 30C           |          |       |      |           |       | 352               |
| Tell DD                |          |       |      |           |       | 3,200             |
| Bi-Carbonate           |          |       |      |           |       | 1,250             |
| Citric Acid            |          |       |      |           |       | 2,275             |
| Tan Cal M / F / FF     |          |       |      |           |       | 1,020 / 210 / 510 |
| Telrite GXL            |          |       |      |           |       | 684               |
| Treat-HS               |          |       |      |           |       | 9,200             |
| Mud Seal P             |          |       |      |           |       | 130               |
| Tel Plug C / M / F     |          |       |      |           |       | 500 / 500 / 500   |
| Tel Stop P / G         |          |       |      |           |       | 500 / 260         |
| Balolift               |          |       |      |           |       | 105               |
| Driscald               |          |       |      |           |       | 0                 |
| Tel Flow P             |          |       |      |           |       | 0                 |
| Poro Seal              |          |       |      |           |       | 0                 |
| Steel Seal 50          |          |       |      | 1,250     |       | 4,250             |
| KCl                    |          |       |      | 3,000     |       | 7,000             |
| NaCl                   |          |       |      | 8,000     |       | 22,000            |
| Fracseal               |          |       |      |           |       | 20,500            |
| Stopseal               |          |       |      |           |       | 8,000             |
| Bentonate(Bulk)        |          |       |      |           |       | 46,000            |

**Hook Wt. (knt) @24:00**

| Empty | Full | Total |
|-------|------|-------|
| 48    | 1    | 49    |

**ROV @24:00**

| Status         | On deck       |
|----------------|---------------|
| Last Dive      | 12/15/2018    |
| Injection Skid | 135 / 135 gal |

**Heli Information @24:00**

| Fit. No. | Time    |          | Passenger |       |
|----------|---------|----------|-----------|-------|
|          | Arrived | Departed | Are.      | Dept. |
| 1        | 14:02   | 14:14    | 3         | 0     |
| 2        |         |          |           |       |
| 3        |         |          |           |       |
| 4        |         |          |           |       |

**Safety (HSE) and other information**

| Incident   | Last Incident | No. LTA |
|------------|---------------|---------|
| LTA        |               |         |
| HUNS cards | 46            |         |
| Remarks    |               |         |

**Marine Information @24:00**

|                      |        |
|----------------------|--------|
| Heave (m)            | 0.6    |
| Pitch (deg)          | 0.2    |
| Roll (deg)           | 0.1    |
| Vessel Heading (deg) | 005    |
| Riser Tension (kN)   | 9600.0 |
| V.D. Load (ton)      | 14942  |
| Max Draught (m)      | 9.0    |
| Thruster (kW)        | 720    |

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