

Chikyu DAILY MORNING REPORT

Mission No.: **CK18-04**

Exp. No.: **Exp 358**

Report No.: **22**

Site Name: **C0002** Hole Name: **C0002P** Lat: **33° 18.0507'N** Long: **136° 38.2029'E** Seabed Depth: **1,967.5** mBRT RT-MSL: **28.5** m Report Date: **29/Oct/2018**
 Depth: @24:00 **3,485.0** mBRT mbsf Progress: **0.0** m Drilling/Coring/Underreaming Hrs.: **0.00** hrs Last BOP PT: **10/25/2018** Next BOP PT: **11/15/2018**
 Depth: @06:00 **3,844.6** mBRT mbsf LAST CASING: **11-3/4"** x **2,922.50** mbsf **4,890.0** mBRT Last BOP FT: **10/25/2018** Next BOP FT: **11/1/2018**
 Summary of Operation on **28-Oct**: **Troubleshoot HPS brake failure. RIH 12-1/4" drill out BHA to 3,471mBRT. Drill out cement to 3,485mBRT** Last Glycol 35gal Inj: **24 October 2018**
 Present Operation @ 06:00 on **29-Oct**: **Continue drill out cement to 3,523mBRT. Wash down to 3,646mBRT. RIH 12-1/4" drill out BHA to 3,844.6mBRT** mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **28-Oct**) mbsf: meter below sea floor

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|-------|-------|-------|------|-------------|---|
| 0:00 | 16:30 | 16:30 | RR | | Continue Troubleshoot for HPS (0:00-4:00) Continue installing New brake for B motor then put cover back onto brake (4:00-7:30) Conduct HPS function test. Check A and B motor brake condition by rotating Top drive - Check brake noise physically w/30rpm. Not observe any noise and smoke. OK - Rotation w/o DP: Adjust B motor encoder alignment. Encoder signal shows motor rotate unstable. NG HPS: 50-100rpm x 1.3-2.1kNm. - Rotation w/DP: Adjust B motor encoder alignment. Encoder signal shows motor rotate unstable. NG HPS: 50rpm x 2.6kNm (7:30-10:30) Remove B motor brake cover and encoder for check the gap between Motor shaft hub and brake - No Rotation: Confirm the gap between Motor shaft hub and brake, the overall gap shows 2.3 to 2.7mm. Not observe any contact. OK - Rotation w/o DP: Confirm the gap between Motor shaft hub and brake. Not observe any contact. OK (10:30-14:30) Re-install cover and encoder to B motor - Rotation w/o DP: Adjust B motor encoder alignment. Encoder signal shows motor rotate stable. OK HPS: 50-100rpm x 0.9-1.4kNm - Rotation w/DP: Adjust B motor encoder alignment. Encoder signal shows motor rotate stable. OK HPS: 50-100rpm x 1.8-2.6kNm (14:30-16:45) Secure all bolts and nuts for HPS brake by securing wire Meanwhile: Keep monitoring the well by pumping from booster line. 250gpm x 1.9MPa |
| 16:30 | 20:45 | 4:15 | RR | | RIH 12-1/4" DO BHA from 1,856mBRT to 3,345mBRT. |
| 20:45 | 21:45 | 1:00 | RR | | Find a piece of rubber (15 x 7 x 1cm) dropped to rig floor. Stop operation for investigation - rubber protector for elevator clamp dropped. Observe another damaged rubber on main motor exhaust during the investigation. Change out the damaged rubber on main motor exhaust. Meanwhile, circulate well at 300gpm down string and 350gpm on riser booster |
| 21:45 | 22:45 | 1:00 | RR | | Wash down string at 150gpm from 3,347mBRT to 3,470mBRT. Tag TOC at 3,470mBRT (1m higher: Tide difference). |
| 22:45 | 24:00 | 1:15 | DRL | | Drill out 13-3/8" cement plug from 3,470mBRT to 3,485mBRT. - Blue communication CH.B - Blue lower annular UOK/Close, Leak - Blue UIC/Open, Leak - Blue Booster/Close, Leak [Other] - Vessel status Advisory status(7:00-11:25): Observe #4 AFT PORT Azimuth thr. Drive trouble, after change sensor, back to "Green". OK - Loading Load whipstock, wireline, gyro equipment, etc. from Akatsuki to Chikyu. - Investigate HPS brake Replaced solenoid valve for HPS brake. Investigation ongoing |

Time Breakdown (00:00 - 06:00 on **29-Oct**) * The data on 00:00 - 06:00 is unofficial.

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|------|------|------|-------|-------------|--|
| 0:00 | 1:00 | 1:00 | DRL | | Continue Drill out cement from 3,485mBRT to 3,495mBRT. 3,485-3,495mBRT: HK:2,320-2325kN, WOB:7-30kN, 800gpm x 16MPa, 100rpm x 6-14kNm [BOP failure] Stop rotation at 3,495mBRT and check cement with 150gpm x 2.1MPa, take weight 40kN - Blue communication CH.B |
| 1:00 | 2:30 | 1:30 | DRL | | Continue Drill out cement from 3,495mBRT to 3,517mBRT. 3,495-3,517mBRT: HK:2,326-2350kN, WOB:17-40kN, 800gpm x 16MPa, 100rpm x 6-15kNm - Blue lower annular UOK/Close, Leak Stop rotation at 3,517mBRT and check cement with 150gpm x 2.2MPa, take weight 40kN - Blue UIC/Open, Leak |
| 2:30 | 3:15 | 0:45 | DRL | | Continue Drill out cement from 3,517mBRT to 3,530mBRT. 3,517-3,530mBRT: HK:2,390-2400kN, WOB:5-20kN, 800gpm x 16.5MPa, 100rpm x 6-15kNm - Blue Booster/Close, Leak |
| 3:15 | 5:00 | 1:45 | W&R | | Wash down from 3,530mBRT to 3,646mBRT 3,530-3,533mBRT: Stop rotation and wash down with 150gpm x 2.3MPa, WOB:0-10kN, take weight 60kN at 3,530mBRT 3,533-3,646mBRT w/rotation: HK:2,390-2450kN, WOB:0kN, 800gpm x 16.5MPa, 100rpm x 2-6kNm, Observe cement remaining partially, WOB 20-30kN. |
| 5:00 | 5:15 | 0:15 | OTHER | | Conduct flow check, OK |
| 5:15 | 6:00 | 0:45 | TRIP | | RIH 12-1/4" Drill out BHA from 3,646mBRT to 3,844.6mBRT. |

| Bit No. | Size (in) | MFR | Type | IADC Code | S/No. | Nozzles | Depth (mBRT) | Meterage | Hrs. | WOB (kN) | rpm | Total Rev. (kern) | Dull Condition | | | | | | | |
|---------|-----------|-----|------|-----------|---------|---------|--------------|----------|------|----------|-----|-------------------|----------------|-------|------|---|---|------|----|--|
| | | | | | | | From | To | | Min | Max | | Inner | Outer | Dull | B | G | O.D. | RP | |
| 1 | 12.25 | NOV | PDC | M423 | A162762 | 9 x 13 | 3,373.0 | 3,485.0 | | | | | | | | | | | | |

| #2 | 12-1/4" Drill Out | 12-1/4" Bit x Bit Sub w/float(non-ported) x 8-1/2" DC (4stds) x XO x 5.68" HWDP (3stds) x XO x 5-1/2" DP S140 (30stds) x XO x 5-1/2" DP S-150(47stds) x XO x 6-5/8" DP UD-165 |
|----|-------------------|---|
| | | |

| 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) |
|----------|-------|--------------|------|-----|----|----|------|--------------------|-----|------|-----|-----|---------|------|------|-------|-----|---------------|--------|---|---|-----|----------------|
| KNPP | 15:00 | 1,856 | 1.33 | 62 | | | | 7 9 | 2.5 | 0.5 | 9.5 | 1.1 | 149,000 | Tr | 14.0 | | | 10 11 | 23,100 | | | 0.6 | 11 79 |

| No. | Liner Size | SPM | GPM | Press. (MPa) | Ann. Vel. (m/min) | DC | DP |
|-----|------------|-----|-----|--------------|-------------------|----|----|
| 1 | 6" | | | | | | |
| 2 | 6" | 160 | 800 | 18.0 | 147 | | 70 |
| 3 | 6" | | | | | | |

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

| No.1 | 20, 120 x 2ea | No.4 | 20, 120 x 2ea | No.1 | off |
|------|---------------|------|---------------|------|-----|
| No.2 | 20, 120 x 2ea | No.5 | 20, 120 x 2ea | No.2 | off |
| No.3 | 20, 120 x 2ea | No.6 | 20, 120 x 2ea | No.3 | off |

| Item | Unit | Stock | Used | Received |
|---------------|------|---------|------|----------|
| Fresh Water | m3 | 288.0 | 79.5 | 97.5 |
| Potable Water | m3 | 290.0 | 7.0 | 0.0 |
| Drill Water | m3 | 1,937.0 | 0.0 | 0.0 |
| Fuel | m3 | 7,261.2 | 44.2 | 0.0 |
| Lube Oil | Ltrs | 128,200 | 900 | 0 |
| Hell 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 Name | Status | Time @Chikyu | |
|---------------|--------|--------------|---------|
| | | Departed | Arrived |
| #8 Meiji-maru | Chikyu | | |
| Akatsuki | Chikyu | | |

| Item | Count |
|----------------|-------|
| CDEX | 6 |
| MQJ Crew | 99 |
| MQJ (SC,Other) | 2 |
| MWJ | 15 |
| Scientist | 2 |
| Telrite | 2 |
| Oceaneering | 6 |
| SLB Cementing | 1 |
| SLB WL | 3 |
| Geoservices | 4 |
| BHGE | 1 |
| M-SWACO | 4 |
| Gyrodala | 1 |
| HAL UR | 1 |
| SLB Whipstock | 2 |
| Total | 149 |

| Item | Received | Used | Stock |
|------------------------|----------|------|-------------------|
| Barite (Bulk) | | | 810,500 |
| Caustic Soda | 400 | | 800 |
| Lime | | | 200 |
| Soda Ash | 1,600 | | 0 |
| Caustic Potash | 1,100 | | 1,625 |
| Tel-Polymer DX / L / H | | | 6,040 / 1,200 / 0 |
| XCD-Polymer | 875 | 150 | 1,175 |
| Lignite NC | | | 4,500 |
| Clean Lube W | | | 10,000 |
| Tel Clean W | | | 6,400 |
| Astex-S | | | 6,300 |
| Defomer 30C | | | 416 |
| Tel DD | | | 3,200 |
| Bi-Carbonate | 250 | | 1,375 |
| Citric Acid | 900 | 500 | 2,350 |
| 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 | | | 163 |
| Driscald | | | 0 |
| Tel Flow P | | | 0 |
| Poro Seal | | | 2,310 |
| Steel Seal 50 | | | 5,250 |
| KCI | | | 16,000 |
| NaCl | | | 18,000 |
| Fracseal | 12,000 | | 9,000 |
| Stopseal | | | 8,000 |
| Bentonate(Bulk) | | | 46,000 |

| Mud Volume (m3) | Count |
|------------------|-------|
| KNPP mud (1.33) | 420 |
| Old Mud(Comtami) | 308 |
| Slug mud | 12 |
| total | 740 |

| Item | Value |
|------------------------|--------------|
| Hook Load | 2,346 |
| BHA | - |
| Below HWDP | - |
| below Jar | - |
| HPS & Traveling block | 600 |
| Hook & RRT | - |
| Hook block | - |
| Jar Rotating time S/N: | - |
| Today | - |
| Total | - |
| hrs | - |
| Cutting skip @24:00 | |
| Empty | 30 |
| Full | 10 |
| Total | 40 |
| ROY @24:00 | |
| Status | On deck |
| Last Dive | 10/28/2018 |
| Injection Skid | 135 /135 gal |

| Flt. No. | Time Arrived | Time Departed | Passenger |
|----------|--------------|---------------|-----------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

| Item | Value |
|----------------------|---------|
| Heave (m) | 1.1 |
| Pitch (deg) | 1.1 |
| Roll (deg) | 0.2 |
| Vessel Heading (deg) | 170 |
| Riser Tension (kN) | 10600.0 |
| V.D. Load (ton) | 16677 |
| Max Draught (m) | 9.0 |
| Thruster (kW) | 1450 |

Weather Information
 Time: 24:00 Weather: bc Temp. (degC): Air: 19.0, SW: 23.1, Barometer: 1013.0, Wind: 7.1, Dir: 273, Gust: 8.5, Wave: Height: 5.1, Dir: 160, Period: 9.3, Current: Speed: 0.9, Dir: 229, Visibility: 22.0
 Today's Schedule: Continue to wash down and tag on liner top. POOH BHA. RIH 10-5/8" slick assembly.
 Reported by: A. Suzuki / N.Sakurai
 Approved by: T. Iikawa