

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01Exp. No. :405

Report No. :42

Site NameJTCT-01AHole NameC0019JLat.37°56.3286'NLong.143°54.7764'ESeabed Depth :6,927.5 mBRTRT-MSL :28.5 mReport Date :18/Oct/2024

Depth : @24:007,591.0 mBRT663.5 mbsfProgress :66.5 mDrilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,600.5 mBRT673.0 mbsfLAST CASING :xmbsf(mBRT)

Summary of Operation on17-Oct :Cut SD-RCB #55 - #61

Present Operation @ 06:00 on18-Oct :Cut SD-RCB #62

mBRT: meter below rotary table  
mbsf: meter below sea floor

Time Breakdown ( 00:00 - 24:00 on17-Oct )

| From  | To    | Hrs  | Code | Depth(mBRT) | Detail of Operation   |
|-------|-------|------|------|-------------|---|
| 0:00  | 0:45  | 0:45 | CORE | 7,524.5     | Sweep out SWG w/650gpm x 18.8MPa.<br>Inner barrel is already landed when start pumping with 275gpm x 4.3MPa.  |
| 0:45  | 3:15  | 2:30 | CORE | 7,534.0     | Cut C0019J #55K(SDRCB) core from 7,524.5 - 7,534.0mBRT (597.0 - 606.5mbsf)<br>7,524.5 - 7,534.0mBRT (597.0 - 606.5mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-10.0kNm, WOB 0-40kN<br>Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance.<br>Load and run sinker bar, then recover inner barrel.   |
| 3:15  | 4:30  | 1:15 | CORE | 7,534.0     | Drop C0019J #56K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 37min after dropping.<br>Then sweep out SWG w/650gpm x 19.2MPa   |
| 4:30  | 7:00  | 2:30 | CORE | 7,543.5     | Cut C0019J #56K(SDRCB) core from 7,534.0 - 7,543.5mBRT (606.5 - 616.0mbsf)<br>7,534.0 - 7,543.5mBRT (606.5 - 616.0mbsf), MP 450gpm x 9.2-10.4MPa, HPS 90rpm x 0.1-11.0kNm, WOB 10-80kN<br>Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance.<br>Load and run sinker bar, then recover inner barrel. |
| 7:00  | 8:00  | 1:00 | CORE | 7,543.5     | Drop C0019J #57K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.6 to 4.5MPa w/275gpm 36min after dropping.<br>Then sweep out SWG w/650gpm x 19.8MPa   |
| 8:00  | 10:30 | 2:30 | CORE | 7,553.0     | Cut C0019J #57K(SDRCB) core from 7,543.5 - 7,553.0mBRT (616.0 - 625.5mbsf)<br>7,543.5 - 7,553.0mBRT (616.0 - 625.5mbsf), MP 450gpm x 9.3-10.3MPa, HPS 90rpm x 0.1-11.0kNm, WOB 10-50kN, Auto ROP 40m/hr<br>Load and run sinker bar, then recover inner barrel.  |
| 10:30 | 11:45 | 1:15 | CORE | 7,553.0     | Drop C0019J #58K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.3MPa w/275gpm 35min after dropping.<br>Then sweep out SWG w/650gpm x 19.6MPa   |
| 11:45 | 14:15 | 2:30 | CORE | 7,562.5     | Cut C0019J #58K(SDRCB) core from 7,553.0 - 7,562.5mBRT (625.5 - 635.0mbsf)<br>7,553.0 - 7,562.5mBRT (625.5 - 635.0mbsf), MP 450gpm x 9.2-9.7MPa, HPS 90rpm x 0.5-12.0kNm, WOB 10-50kN, Auto ROP 40m/hr<br>Load and run sinker bar. Recover inner barrel.  |
| 14:15 | 15:45 | 1:30 | CORE | 7,562.5     | Drop C0019J #59K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel. Pump SWG 7m3 then make drill pipe stand connection<br>Pump w/275gpm and confirm inner barrel landing by increasing pressure from 2.7 to 4.6MPa w/275gpm 44min after dropping.<br>Sweep out SWG w/650gpm x 20.0MPa.                              |
| 15:45 | 18:30 | 2:45 | CORE | 7,572.0     | Cut C0019J #59K(SDRCB) core from 7,562.5 - 7,572.0mBRT (635.0 - 644.5mbsf)<br>7,562.5 - 7,572.0mBRT (635.0 - 644.5mbsf), MP 450gpm x 9.2-10.0MPa, HPS 90rpm x 0.1-10.6kNm, WOB 5-40kN, Auto ROP 40m/hr<br>Observe pressure increases to 10.0MPa from 9.5MPa at 7,567.5mBRT.<br>Load and run sinker bar. Recover inner barrel.       |
| 18:30 | 19:30 | 1:00 | CORE | 7,572.0     | Drop C0019J #60K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.7 to 4.7MPa w/275gpm 35min after dropping.<br>Then sweep out SWG w/650gpm x 20.1MPa   |
| 19:30 | 22:00 | 2:30 | CORE | 7,581.5     | Cut C0019J #60K(SDRCB) core from 7,572.0 - 7,581.5mBRT (644.5 - 654.0mbsf)<br>7,572.0 - 7,581.5mBRT (644.5 - 654.0mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-11.3kNm, WOB 10-65kN, Auto ROP 40m/hr<br>Observe pressure increases to 9.9MPa from 9.5MPa at 7,576.5mBRT.<br>Load and run sinker bar. Recover inner barrel.        |
| 22:00 | 23:15 | 1:15 | CORE | 7,581.5     | Drop C0019J #61K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 35min after dropping.<br>Then sweep out SWG w/650gpm x 19.2MPa   |
| 23:15 | 24:00 | 0:45 | CORE | 7,591.0     | Cut C0019J #61K(SDRCB) core from 7,581.5 - 7,591.0mBRT (654.0 - 663.5mbsf)<br>7,581.5 - 7,591.0mBRT (654.0 - 663.5mbsf), MP 450gpm x 9.2-9.8MPa, HPS 90rpm x 0.5-11.0kNm, WOB 40-110kN, Auto ROP 40m/hr<br>Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance.<br>Load and run sinker bar, on going. |
|       |       |      |      |             | Meanwhile,<br>(04:30-05:00)Shift RGR to 0.8m offset position when current come from AFT side of Vessel  |

Time Breakdown (00:00 - 06:00 on18-Oct )

\* The data on 00:00 - 06:00 is unofficial.

| From | To   | Hrs. | Code | Depth(mBRT) | Detail of Operation  |
|------|------|------|------|-------------|--|
| 0:00 | 2:00 | 2:00 | CORE | 7,591.0     | Recover inner barrel.  |
| 2:00 | 3:00 | 1:00 | CORE | 7,591.0     | Drop C0019J #62K(SDRCB) inner barrel.<br>Unload sinker bar after drop inner barrel.<br>Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 37min after dropping.<br>Then sweep out SWG w/650gpm x 19.6MPa  |
| 3:00 | 6:00 | 3:00 | CORE | 7,600.5     | Cut C0019J #62K(SDRCB) core from 7,591.0 - 7,600.5mBRT (663.5 - 673.0mbsf)<br>7,591.0 - 7,600.5mBRT (663.5 - 673.0mbsf), MP 450gpm x 9.2-10.2MPa, HPS 90rpm x 0.5-12.0kNm, WOB 20-80kN, Auto ROP 40m/hr<br>Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance.<br>Load and run sinker bar. Install grease remover and recover inner barrel. |
|      |      |      |      |             | Meanwhile,<br>(03:15-04:30)Advisory status due to loading from Akatsuki.   |

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) | Inner | Outer | Dull | Loc. | B | G | O.D. | RP |
|---------|-----------|-----|------------|-----------|---------|---------|-------------------|-----------|-------|----------|---------|-------------------|------------|-------|-------|------|------|---|---|------|----|
| 3       | 8.5       | NOV | CJPC713-A1 | -         | F312253 | 7 x 16  | 6,927.5 - 7,591.0 | 663.5     | 21.47 | 0 - 120  | 0 - 100 | 74.23             | 30.9       |       |       |      |      |   |   |      |    |

BHA Record @24:00

|   |       |   |
|---|-------|---|
| 5 | SDRCB | 6-1/2 Core bit x Pilot valve sub x Near bit sub w/6-1/2 stabilizer x Outer core barrel x Landing sub w/6-1/2 stabilizer x Head sub x XO#1 x 6-3/4 Coring Collar (3stds) x XO#2 x 5-DP UD-150 (3stds) x XO#3 x 5-DP S-140 (66stds) x 5-1/2"DP S-140 (22stds) x XO#4 x 5-1/2"DP S-150 (25stds) x XO#5 x 5-1/2"DP UD-165 (30stds) x XO#6 x 6-5/8"DP Z-140 (13stds) x 6-5/8"DP UD-165 |
|---|-------|---|

Mud Properties @24:00

| Mud Type | Time | Depth (mBRT) | MW | VIS | PV | YV | 6rpm | Gel St. (10", 10') | API | Cake | pH | PI | Cl- | Sand | Oil | Solid | MBC | Temp In | Temp Out | K+ | n | K | LGS | FIT 20/40 (mm) 0 min | 5min |
|----------|------|--------------|----|-----|----|----|------|--------------------|-----|------|----|----|-----|------|-----|-------|-----|---------|----------|----|---|---|-----|----------------------|------|
|          |      |              |    |     |    |    |      |                    |     |      |    |    |     |      |     |       |     |         |          |    |   |   |     |                      |      |

Mud Pumps : 14-P-220

5.00 gallon/stroke @97%

| No. | Liner Size | SPM | GPM | Press. (MPa) | Ann. Vel. (m/min) |
|-----|------------|-----|-----|--------------|-------------------|
| 1   | 6"         | 65  | 325 | 20.1         | 6"DC 5"DP         |
| 2   | 6"         |     |     |              |                   |
| 4   | 6"         | 65  | 325 |              |                   |

Materials Stock on Board @24:00

| Item          | Unit | Stock   | Used    | Received |
|---------------|------|---------|---------|----------|
| Fresh Water   | m3   | 271.0   | 60.4    | 39.4     |
| Potable Water | m3   | 221.0   | 2.0     | 0.0      |
| Drill Water   | m3   | 1,295.0 | 11.0    | 0.0      |
| Fuel          | m3   | 5,203.9 | 37.9    | 0.0      |
| Lube Oil      | Ltrs | 119,600 | 1,800.0 | 0.0      |
| Heli Fuel     | Ltrs | 0.0     | 0.0     | 0.0      |
|               |      |         |         |          |
|               |      |         |         |          |

Personnel @24:00

|                |     |
|----------------|-----|
| MarE3          | 5   |
| MQJ Crew       | 101 |
| MWJ            | 20  |
| Scientist      | 25  |
| Outreach       | 2   |
| JAMSTEC PR     |     |
|                |     |
|                |     |
| Sub-contractor |     |
| WL             | 2   |
| Expro          |     |
| NuStar         | 3   |
| GE             |     |
| Total          | 158 |

Mud Materials on Board @24:00hrs

(unit: kg)

| Item         | Received | Used | Stock   |
|--------------|----------|------|---------|
| Barite       |          |      | 76,000  |
| Tel-Gel      |          |      | 190,000 |
| Caustic soda |          | 250  | 8,125   |
| Lime         |          | 240  | 8,080   |
| Flowzan      |          |      | 25      |

Mud volume

|               |     |
|---------------|-----|
| PHG (m3)      | 245 |
| Kill mud (m3) | 48  |
| SWG (m3)      | 130 |
| Pre-Mix (m3)  | 60  |

Marine Information @24:00

|                      |       |
|----------------------|-------|
| Heave (m)            | 0.8   |
| Pitch (deg)          | 0.4   |
| Roll (deg)           | 0.1   |
| Vessel Heading (deg) | 330   |
| Riser Tension (kN)   | -     |
| V.D. Load (ton)      | 14070 |
| Max Draught (m)      | 9.0   |
| Thruster (kW)        | 500   |

Hell Information @24:00

| Flt. No. | Time Arrived | Time Departed | Passenger Are. | Passenger Dept. |
|----------|--------------|---------------|----------------|-----------------|
| 1        |              |               |                |                 |
| 2        |              |               |                |                 |

Boat Information @24:00

|                        |        |                                       |
|------------------------|--------|---------------------------------------|
| Akatsuki (Supply boat) | Status | On the way to Chikyu (ETA 6AM 18 Oct) |
| Ibuki (Guard boat)     | Status | Standby at Chikyu                     |

HSQE and other information

|            |               |         |
|------------|---------------|---------|
| Incident   | Last Incident | No. LTI |
| LTI        | 11/14/19      |         |
| HUNS cards | 40            |         |

Remarks

Well Cost (1,000 Yen) based on the cost by

|                                   |  |
|-----------------------------------|--|
| Daily                             |  |
| Cumulative                        |  |
| Reported by : T.Yokoyama, Y.Oishi |  |
| Approved by : T.Saruhashi         |  |

Today's Schedule: Cut SD-RCB core