

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :46

Site NameJTCT-01A

Hole NameC0019J

Lat.37°56.3286'N

Long.143°54.7764'E

Seabed Depth:6,927.5 mBRT

RT-MSL:28.5 m

Report Date:22/Oct/2024

Depth : @24:007,734.5 mBRT807.0 mbsf

Depth : @06:007,737.5 mBRT810.0 mbsf

Summary of Operation on 21-Oct : Cut SD-RCB #75 - #80

Present Operation @ 06:00 on 22-Oct : Cut SD-RCB #81

Time Breakdown ( 00:00 - 24:00 on 21-Oct )

Detail of Operation

FromToHrsCodeDepth(mBRT)

0:000:300:30CORE7,715.0Continue to sweep out 15m3 of SWG w/650gpm x 12.6MPa.

0:301:150:45CORE7,715.0Drop C0019J #75K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.6 to 4.1MPa w/275gpm 34min after dropping.

1:153:452:30CORE7,719.5Cut C0019J #75K(SDRCB) core from 7,715.0 - 7,719.5mBRT (787.5 - 792.0mbsf)  
7,715.0 - 7,719.5mBRT (787.5 - 792.0mbsf), MP 450gpm x 9.4-9.8MPa, HPS 90rpm x 0.1-11.8kNm, WOB 10-45kN, Auto ROP 40m/hr  
No observation of pressure increase while coring.  
Load and run sinker bar. Recover inner barrel.  
\* Torque indication is observed from 7,716.0mBRT.

3:455:001:15CORE7,719.5Drop C0019J #76K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.9 to 4.6MPa w/275gpm 35min after dropping.  
Increase pump rate to 650gpm x 18.9MPa and sweep out 10m3 SWG.

5:007:152:15CORE7,722.5Cut C0019J #76K(SDRCB) core from 7,719.5 - 7,722.5mBRT (792.0 - 795.0mbsf)  
7,719.5 - 7,722.5mBRT (792.0 - 795.0mbsf), MP 450gpm x 9.2-9.8MPa, HPS 90rpm x 0.1-11.4kNm, WOB 10-60kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm from 90rpm after reaching 7,722.5mBRT and keep the bit 1min at 7,722.5mBRT.  
No observation of pressure increase while coring.  
Load and run sinker bar. Recover inner barrel.  
\* Torque indication is observed from 7,720.0mBRT.

7:158:451:30CORE7,722.5Drop C0019J #77K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 35min after dropping.  
Increase pump rate to 650gpm x 18.8MPa and sweep out 10m3 SWG.

8:4511:002:15CORE7,725.5Cut C0019J #77K(SDRCB) core from 7,722.5 - 7,725.5mBRT (795.0 - 798.0mbsf)  
7,719.5 - 7,722.5mBRT (792.0 - 795.0mbsf), MP 450gpm x 9.2-9.8MPa, HPS 90rpm x 0.1-11.4kNm, WOB 10-60kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm and stop pumping after reaching 7,725.5mBRT and keep the bit 1min at 7,725.5mBRT, and stop rotation and take 10-20kN WOB.  
Observe pressure increases to 10.0MPa from 9.5MPa at 7,732.5mBRT.  
Load and run sinker bar. Recover inner barrel.  
\* Torque indication is observed from 7,722.5mBRT.

11:0012:151:15CORE7,725.5Drop C0019J #78K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.7 to 4.7MPa w/275gpm 35min after dropping.  
Increase pump rate to 650gpm x 19.0MPa and sweep out 10m3 SWG.

12:1515:453:30CORE7,728.5Cut C0019J #78K(SDRCB) core from 7,725.5 - 7,728.5mBRT (798.0 - 801.0mbsf)  
7,725.5 - 7,728.5mBRT (798.0 - 801.0mbsf), MP 450gpm x 9.2-9.7MPa, HPS 90rpm x 0.1-11.0kNm, WOB 10-45kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm from 90rpm after reaching 7,728.5mBRT and keep the bit 1min at 7,728.5mBRT. Stop rotation and take 140kN WOB for plugging at  
No observation of pressure increase while coring.  
Load and run sinker bar. Recover inner barrel.  
\* Torque indication is observed from 7,725.5mBRT same as planned depth.

15:4517:301:45RR7,728.5Secure service loop of HPS.  
One of the service loop sheath is loosen.  
Pick up sheath upward by chain block and secure it with turn buckle.

17:3018:451:15CORE7,731.5Drop C0019J #79K(SDRCB) inner barrel.  
Drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 38min after dropping.  
Increase pump rate to 650gpm x 18.8MPa and sweep out 10m3 SWG.

18:4521:453:00CORE7,731.5Cut C0019J #79K(SDRCB) core from 7,728.5 - 7,731.5mBRT (801.0 - 804.0mbsf)  
7,728.5 - 7,731.5mBRT (801.0 - 804.0mbsf), MP 450gpm x 9.2-9.6MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-45kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm from 90rpm after reaching 7,731.5mBRT and keep the bit 1min at 7,731.5mBRT. Stop rotation and take 50kN WOB for plugging at  
No observation of pressure increase while coring.  
Load and run sinker bar. Recover inner barrel.  
\* Torque indication is observed from 7,729.0mBRT.

21:4523:001:15CORE7,734.5Drop C0019J #80K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 2.7 to 4.6MPa w/275gpm 33min after dropping.  
Increase pump rate to 650gpm x 19.2MPa and sweep out 10m3 SWG.

23:0024:001:00CORE7,734.5Cut C0019J #80K(SDRCB) core from 7,731.5 - 7,734.5mBRT (804.0 - 807.0mbsf)  
7,731.5 - 7,734.5mBRT (804.0 - 807.0mbsf), MP 450gpm x 9.2-10.1MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-60kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm from 90rpm after reaching 7,734.5mBRT and keep the bit 1min at 7,734.5mBRT.  
Observe pressure increases to 10.1MPa from 9.6MPa at 7,732.5mBRT.  
Load and run sinker bar. Recover inner barrel, ongoing.  
\* Torque indication is observed from 7,730.0mBRT.

Meanwhile,  
(00:00-01:05) Advisory status due to the maintenance of exhaust temperature sensor alarm No.3 main generator  
(08:20-11:15) Advisory status due to the maintenance of exhaust temperature sensor alarm No.3 main generator

Time Breakdown (00:00 - 06:00 on 22-Oct)

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

Detail of Operation

FromToHrsCodeDepth(mBRT)

0:001:301:30CORE7,734.5Continue to recover inner barrel.

1:302:451:15CORE7,734.5Drop C0019J #81K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 10m3 SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 3.1 to 4.9MPa w/275gpm 35min after dropping.  
Observe torque increases at 7,732mBRT when SWG comes out from bit. Suspect torque are increased by cuttings at stabilizers.  
Pick up string to 7,730mBRT and run back to 7,732mBRT. Observe no torque and pressure increase.  
Increase pump rate to 650gpm x 18.7MPa and sweep out 10m3 SWG.

2:455:152:30CORE7,737.5Cut C0019J #81K(SDRCB) core from 7,734.5 - 7,737.5mBRT (807.0 - 810.0mbsf)  
7,734.5 - 7,737.5mBRT (807.0 - 810.0mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-12.1kNm, WOB 10-45kN, Auto ROP 40m/hr  
Reduce HPS speed to 30rpm from 90rpm after reaching 7,737.5mBRT and keep the bit 1min at 7,737.5mBRT. Stop rotation and take 50kN WOB for plugging at  
No observation of pressure increase while coring.  
Load and run sinker bar. Recover inner barrel.

5:156:000:45CORE7,737.5Drop C0019J #82K(SDRCB) inner barrel.  
Unload sinker bar after drop inner barrel. Pump 15m3 of SWG.  
Pump to chase and confirm inner barrel landing by increasing pressure from 3.1 to 5.0MPa w/275gpm 35min after dropping.  
Increase pump rate to 650gpm x 19.0MPa and sweep out 15m3 SWG, ongoing.

Bit Record @24:00

Bit No.

Size (in)

MFR

Type

IADC Code

S/No.

Nozzles

Depth (mBRT)  
From : To

Meter-age

Hrs.

WOB (kN)  
Min. : Max.

rpm  
Min. : Max.

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 7,734.5

807.0

25.87

0 120

0 100

97.36

31.2

BHA Record @24:00

5

SDRCB

8-1/2"Core bit x Float valve sub x Near bit sub w/8-1/2"stabilizer x Outer core barrel x Landing sub w/8-1/2"stabilizer x Head sub x XO#1 x 6-3/4"Coring Collar (5stds) x XO#2 x 5"DP V-150 (23stds) 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

Hook Wt. (knt) @24:007,708.0 mBRT

Hook Load

4,100

BHA

140

Below Jar

HPS & Traveling block

680

CSG/TBG

Mud Properties @24:00

Mud Type

Time

Depth (mBRT)

MW

VIS

PV

VV

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)  
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

2

6"

4

6"

65

325

182 103

Materials Stock on Board @24:00

Item

Unit

Stock

Used

Received

Fresh Water

m3

236.0

70.1

82.1

Potable Water

m3

207.0

5.0

0.0

Drill Water

m3

1,110.0

2.0

0.0

Fuel

m3

5,029.1

40.7

0.0

Lube, Oil

Ltrs

119,600

0.0

0.0

Hell Fuel

Ltrs

0.0

0.0

0.0

Personnel @24:00

MarE3

5

MQJ Crew

101

MWJ

20

Scientist

25

Outreach

JAMSTEC PR

Sub-contractor

WLP

Expro

NuStar

3

GE

Total

154

Mud Materials on Board @24:00hrs (unit: kg)

Item

Received

Used

Stock

Barite

76,000

Tel-Gel

172,000

Caustic soda

25

7,825

Lime

7,840

Flowzan

25

Mud volume

PHG (m3)

233

Kill mud (m3)

48

SWG (m3)

137

Pre-Mix (m3)

0

Marine Information @24:00

Heave (m)

0.2

Pitch (deg)

0.2

Roll (deg)

0.1

Vessel Heading (deg)

135

Riser Tension (kN)

-

V.D. Load (ton)

13454

Max Draught (m)

9.0

Thruster (kW)

580

Heli Information @24:00

Fil. No.

Time  
Arrived  
Departed

Passenger  
Are.  
Dept.

1

2

Boat Information @24:00

Akatsuki (Supply boat)

Status

Standby at Chikyu

Ibuki (Guard boat)

Status

Shiogama Port

HSQE and other information

Incident

Last Incident

No. LTI

11/14/19

HUNS cards

45

Remarks

(07:00, 13:00, 19:00) General Safety Meeting English version

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

Daily

Cumulative

Reported by : T.Miyoshi, T.Yokoyama

Approved by : I.Sawada