

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :57

Site NameJTCT-02AHole NameC0026B

Lat.37°55.5857'NLong.144°04.1280'ESeabed Depth :6,956.0 mBRTRT-MSL :28.5 m

Report Date :2/Nov/2024

Depth : @24:007,045.5 mBRT89.5 mbsfProgress :89.5 mDrilling/Coring/Underreaming Hrs. :8.00 hrs

Depth : @06:007,055.5 mBRT99.5 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on1-Nov :RIH SD-RCB Ass'y, Wash down, Recover center bit, Cut SD-RCB core

Present Operation @ 06:00 on2-Nov :Cut SD-RCB core

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

Time Breakdown (00:00 - 24:00)on1-Nov

FromToHrsCodeDepth(mBRT)

Detail of Operation

0:0013:4513:45TRIPMU & Run 8-1/2" SD-RCB assembly to 6,906mBRT.
Fill up every 10 stds.

13:4515:001:15C&CConduct break circulation at 6,906.0mBRT
Pump one string volume with 500gpm x 7.2MPa
Check pressure: 150 / 200 / 300 / 400 / 500 / 600 / 650 gpm x 1.0 / 1.5 / 3.0 / 4.8 / 7.2 / 10.2 / 11.9 MPa.
Meanwhile
Install drain hose to Mud bucket

15:0016:001:00OTHER6,956.0Drop Center bit at 6,906.0mBRT
Pump to chase and confirm center bit landing by increasing pressure from 2.3 to 3.6MPa w/275gpm 29min after dropping.
Check pressure: 150 / 200 / 300 / 400 / 500 / 600 / 650gpm x 1.4 / 2.1 / 4.2 / 7.2 / 10.6 / 14.2 / 16.4 MPa.
Lowering string with 150gpm x 1.4MPa, then spud SD-RCB hole(15:59).

16:0019:453:45W&RWash down to 7,036.0mBRT (0.0 ~ 80.0mbsf).
Reciprocate 3m every 3m wash down (1st reciprocation starts from 10mbsf).
6,956.0 - 7,008.0mBRT (0.0 - 52.0mbsf) Pump 300gpm x 4.0-5.3MPa, WOB 0-20kN.
7,008.0 - 7,036.0mBRT (52.0 - 80.0mbsf) Pump 400gpm x 6.5-7.2MPa, WOB 0-20kN.
Pump 5m3 of SWG and sweep out with 400gpm x 6.5MPa.

19:4522:152:30CORE7,036.0Recover center bit
While running CBRT, reciprocate and pump w/10spm.
Tag w/CBRT at 7,030mBRT(Bit depth is 7,033mBRT.).
Observe no damage on center bit.

22:1523:301:15CORE7,036.0Drop C0026B #1K(SDRCB) inner barrel.
Unload sinker bar after drop inner barrel.
Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.4 to 4.8MPa w/275gpm 35min after dropping.
Then sweep out SWG w/650gpm x 20.8MPa
Check pressure: 200 / 300 / 400 / 450 / 500 / 650gpm x 2.5 / 5.4 / 8.4 / 12.7 / 20.8 MPa.

23:3024:000:30CORE7,045.5Cut C0026B #1K(SDRCB) core from 7,036.0 - 7,045.5mBRT (80.0 - 89.5mbsf)
7,036.0 - 7,045.5mBRT (80.0 - 89.5mbsf), MP 200gpm x 2.3-3.1MPa, HPS 40rpm x 0.0-3.0kNm, WOB 0-20kN, Auto ROP 60m/hr
Load and run sinker bar, on going.

(03:30) Akatsuki arrives at Chikyu.
(04:10-06:00) Advisory due to loading from Akatsuki

FromToHrsCodeDepth(mBRT)

Detail of Operation

0:001:451:45CORE7,045.5Continue to recover inner barrel

1:453:001:15CORE7,045.5Drop C0026B #2K(SDRCB) inner barrel.
Unload sinker bar after drop inner barrel.
Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 5.2MPa w/275gpm 33min after dropping.
Then sweep out SWG w/650/700gpm x 23.7/27.4MPa (Suspect pressure increase due to bit nozzle plugged)

3:005:452:45CORE7,055.5Cut C0026B #2K(SDRCB) core from 7,045.5 - 7,055.5mBRT (89.5 - 99.5mbsf)
7,045.5 - 7,055.5mBRT (89.5 - 99.5mbsf), MP 300gpm x 5.3-5.8MPa, HPS 60rpm x 0.9-5.5kNm, WOB 0-20kN, Auto ROP 60m/hr
Load and run sinker bar. Recover inner barrel.
Unload sinker bar then layout single.

5:456:000:15CORE7,055.5Drop C0026B #3K(SDRCB) inner barrel.
Drop inner barrel then make a stand connection, ongoing

Remarks
Core length(#2-#6): 10m advance due to the length adjust

Bit Record @24:00

Bit No.4Size (in)8.5MFRNOVTypeCJPC616S-A1IADC Code-SNo.F312427Nozzles6 x 16Depth (mBRT)From6,956.0To7,045.5Meter-age89.5Hrs.2.17WOB (kN)Min.0Max.20rpmMin.0Max.40Total Rev. (krev)0.40ROP (m/hr)41.2Dull ConditionInnerOuterDullLoc.BG O.D.RP

BHA Record @24:00

7SDRCB8-1/2"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) @24:007,045.5 mBRT
Hook Load3,500
BHA140
Below Jar
HPS & Traveling block680
CSG/TBG
Jar Rotating Time @24:00 S/N:
TodayTotalhrs
Motor Pumping time @24:00 S/N:
TodayTotalhrs

Mud Properties @24:00

Mud TypeTimeDepth (mBRT)MWVISPVYV6rpmGel St. (10", 10')APICakepHPfClSandOilSolidMBCTemp InOutK+nKLGSFIT 20/40 (mm)0 min5min

Mud Pumps : 14-P-2205.00 gallon/stroke @97%

No.Liner SizeSPMGPMPress. (MPa)Ann. Vel. (m/min)

16"402007.26"DC 5"DP
26"4020011263

Materials Stock on Board @24:00

ItemUnitStockUsedReceived

Fresh Waterm3277.069.986.9
Potable Waterm3174.02.00.0
Drill Waterm3920.00.00.0
Fuelm34,564.839.30.0
Lube, OilLtrs116,8001,100.00.0
Heli FuelLtrs0.00.00.0

Personnel @24:00

MarE36
MQJ Crew98
MWJ20
Scientist28
Outreach
JAMSTEC PR1

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

ItemReceivedUsedStock

Barite76,000
Tel-Gel136,000
Caustic soda5,525
Lime5,680
Flowzan25

Mud volume

PHG (m3)176
Kill mud (m3)47
SWG (m3)117
Pre-Mix (m3)30

Marine Information @24:00

Heave (m)0.3
Pitch (deg)0.3
Roll (deg)0.1
Vessel Heading (deg)215
Riser Tension (kN)-
V.D. Load (ton)12629
Max Draught (m)9.0
Thruster (kW)1200

Heli Information @24:00

Flt.No.TimeArrivedDepartedPassengerAre.Dept.

109:4509:551214
214:0514:15813

Boat Information @24:00

Akatsuki (Supply boat)StatusStandby at Chikyu
Ibuki (Guard boat)StatusStandby at Chikyu

HSQE and other information

IncidentLast IncidentNo. LTI

LTI11/14/19
HUNS cards48

Remarks

Well Cost (1,000 Yen) based on the cost by
Daily
Cumulative
Reported by : Y. Oishi, N. Sakurai
Approved by : T. Saruhashi

Weather Information

TimeWeatherTemp. (degC)AirSWBarometer(hPa)WindSpeed (m/s)Dir. (deg)Gust (m/s)WaveHeight (m)Dir. (deg)Period (s)CurrentSpeed(knt)Dir. (deg)Visibility(km)

24:00c23.024.61017.715.023115.52.42305.70.634722.0

Today's Schedule: Continue to cut SD-RCB core