Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 144

Site Name C0002 **Hole Name** C0002T **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E Seabed Depth : 1,967.5 mBRT RT-MSL : 28.5 m **Report Date :** 28/Feb/2019

Depth : @24:00 4,816.0 mBRT 2848.5 mbsf Progress : 0.0 m Drilling/Coring/Underreaming Hrs. : 0.00 hrs Last BOP PT: 1/28/2019 Next BOP PT: 2/22/2019

Depth : @06:00 4,816.0 mBRT 2848.5 mbsf LAST CASING : 9-5/8" x 11-3/4" ESET x 2,802.50 mbsf(4,770.0 mBRT) Last BOP FT: 2/14/2019 Next BOP FT: 2/22/2019

Summary of Operation on 27-Feb : POOH WBRRT. Displace riser. RU riser handling tools. LO Diverter/UFJ. MU Landing joint. Unlatch BOP. Uncouple tensioner ring Last Glycol 35gal Inj. 2/20/2019

Present Operation @ 06:00 on 28-Feb : Cont. uncoupling tensioner ring. Lay out landing joint. Grease up inner barrel.

mBRT: meter below rotary table

Time Breakdown (00:00 - 24:00 on 27-Feb) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	3:00	3:00	TRIP	4,816.0	POOH WBRRT to surface.
					Retrieve and lay out 13-3/8"wear bushing.
					Find wear out at one place inside wear bushing.
					Lay out WBRRT
					Observe "Slide guide error" again at main well iron roughneck and break connection by rig tong.
3:00	4:00	1:00	C&C	4,816.0	Displace mud inside riser with seawater.
					Pump 3m3 of spacer.
					Pump seawater through Choke / Kill line with 900gpm.
					After 20m3 of seawater pumped through C/K line, start to pump booster line with seawater by 450gpm.
					Decrease pump rate to 800gpm at C/K line and 400gpm at booster due to the overflow at shale shaker.
					Monitor the overflow at shaker, and back flow rate to 900gpm at C/K line and 450gpm at booster.
					Decrease 250kN of tensioner tension every 4,000 pump stroke counts from 9,500kN (Total tension before displacement riser).
					Meanwhile, conduct drawworks brake test.
4:00	14:15	10:15	BOPE	4,816.0	Prepare riser handling equipment.
					(04:00-04:30) Rig down hydraulic elevator.
					(04:30-07:00) Rig up Riser guide head on #1Hydraracker, on going.
					Meanwhile, continue to displace mud inside riser with seawater.
					Observe seawater returns at gumbo separator at 24,000strks (Total mud receive: 500m3 in Active #2, Reserve #2, 7 & 8)
					Set tensioner tension to 8,000kN.
					Flush diverter lines.
					(07:00-09:30) Park HPS.
					Find oil leak from push cylinder in the derrick for parking HPS and repair same.
					(09:30-11:45) Rig up Riser Running Tool.
					(11:45-12:45) Rig up Gimbal and Riser Spider at rotary table.
					Remove master bushing and adaptor ring from rotary table.
					Prepare Francis torque tool.
					(12:45-13:30) Install large guide head to manipulator arm.
					(13:30-14:00) Prepare riser torque tools.
					(14:00-14:15) Secure hydraulic hose for Riser Running Tool.
14:15	18:00	3:45	BOPE	4,816.0	Pick up diverter handling tool and lay out Diverter/UFJ
					Pick up Diverter handling tool and engage Diverter by applying left hand turn.
					Bleed off flow line seal pressure and function pressure. Remove function hose and control block.
					Confirm all diverter dogs unlocked.
					Pick up diverter 2m and remove RMS inclinometer cable and gator lock cable at mezzanine deck.
					Pick up and set UFJ on spider. Remove RMS inclinometer at spider.
					Remove bolt, nut and insert for long term storage.
18:00	20:30	2:30	BOPE	4,816.0	Pick up and make up landing joint.
					Bleed off upper packer pressure. Lower landing joint and connect gator lock hoses at mezzanine floor.
					Close telescopic joint. Lock and secure gator lock with Auto Lock position.
					Adjust tensioner tension to 6,300kN and CMC to 2,500kN.
					Meanwhile, ROV inject 40gal of methanol into wellhead connector.
20:30	20:45	0:15	BOPE	4,816.0	Unlatch Wellhead connector.
					Wellhead connector indicator gradually moves to unlock position after sending primary and secondary unlock signal.
					Observe wellhead connector released from wellhead, and pick up 4m with 3,000kN on CMC.
20:45	21:00	0:15	MOVE	4,816.0	Move vessel to 50m East.
21:00	23:00	2:00	BOPE	4,816.0	Prepare for uncoupling tensioner ring.
					Reduce tensioner pressure to 3.0MPa (Total tensioner tension: 2,600kN, Hookload: 6,400kN).
					Skid working cart and BOP cart. Remove cables and saddle.
23:00	24:00	1:00	BOPE	4,816.0	Uncouple Tensioner ring, on going.
					<Offline>
					Fill up 40gal methanol into the skid. Inject 40gal methanol into Wellhead connector. Install corrosion cap on wellhead after unlatch BOP.
					Continue to investigate iron roughneck #A malfunction at Aux. well (Since 15th of Feb).
					Conduct function test after replacing valve block and back to normal condition.
					Continue to investigation with NOV engineer.
					Prepare RCB inner barrel assembly at core tech workshop.
					No loss/gain in 24hrs Ditch magnet: 0.0kg (8.5in hole total: 26.0kg)

Time Breakdown (00:00 - 06:00 on 28-Feb) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	BOPE	4,816.0	Continue to uncouple tensioner ring.
1:15	1:30	0:15	BOPE	4,816.0	Remove gator lock function hoses at mezzanine deck.
1:30	2:15	0:45	BOPE	4,816.0	Remove storm loop saddle on slip joint.
2:15	3:45	1:30	BOPE	4,816.0	Lay out landing joint.
					Adjust spider dog because unable to insert dog lock pin.
					Remove smart band on slip joint.
3:45	6:00	2:15	BOPE	4,816.0	Pick up slip joint and set donut on spider.
					Remove MUX cables and hot lines from cable clamp/smart band on 10ft pup & Bumper joint at moon pool.
					Grease up inner barrel of slip joint, on going.
					Approach gator lock by yellow cherry picker to unlock gator lock.
					Akatsuki depart from the location at 03:00 (ETA Shingu: 08:30).

Bit Record @24:00

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

BHA Record @24:00

33	WBRRT	Diverter x XO x 5-1/2"DP S150 (2stds) x XO x WBRRT x XO x 5-1/2"DP S150 6m pup

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 In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min	FIT 20/40 (mm) 5min
KNPP	5:30	Pit	1.36	74	30	24	6	6 17	8.7	1.2	12.4	0.3	114,000	0.80		18.0	2.00	10		20,300	0.52	1.18	6.70		
KNPP	13:30	Pit	1.36	66	26	22	6	5 17	8.6	1.2	12.5	0.3	114,000	0.80		18.0	2.00	11		20,300	0.50	1.29	6.70		

Mud Pumps : 14-P-220 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) 5"DP	Ann. Vel. (m/min) 5.5"DP
1	6"	0	0	0.0	0	0
2	6"	0	0			
3	6"(Booster)	0	0			

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

No.1	30, 60	No.4	30, 60	#1-#3 Centrifuge running time
No.2	30, 60	No.5	30, 60	
No.3	30, 60	No.6	30, 60	

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	253.4	99.4	97.3
Potable Water	m3	236.6	4.4	0.0
Drill Water	m3	891.4	4.1	0.0
Fuel	m3	2,313.8	46.1	0.0
Lube, Oil	Ltrs	50,400	1,300.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	160.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
#8 Meiji-maru	Chikyu		
Akatsuki	Chikyu		
Shincho-maru	Chikyu		19:35

Personnel @24:00

CDEX	6
MQJ Crew	105
MWJ	15
Scientist	3
MQJ (Other)	2
Telnite	2
Oceaneering	7
SLB Cementing	1
SLB WL	0
Geoservices	4
M-I SWACO	4
NOV	1
SLB LWD	0
SLB Seismic	0
AFGlobal	0
ENVENTURE	0
SLB DD	0
Franks	0
BHGE	0
Total	150

Mud volume@24:00

Mud Volume (m3)	
KNPP mud (1.35-1.37)	977
Fracseal	442
Barolift	30
KNPP mud (1.39)	189
Inhibited mud	0
STOPLOSS(1.37)	47
MUDPUSH II	0
total	1685

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

Item	Received	Used	Stock
Barite (Bulk)			185,000
Caustic Soda			1,050
Lime			200
Soda Ash			575
Caustic Potash			1,075
Tel-Polymer DX / L / H			2240 / 0 / 0
XCD-Polymer			1,200
Lignate NC			4,500
Clean Lube W			8,000
Tel Clean W			4,600
Astex-S			4,400
Deformer 30C			480
Tell DD			3,200
Bi-Carbonate			300
Citric Acid			1,900
Tan Cal C / M / F			210 / 1,020 / 510
Telnite GXL			504
Treat-HS			6,940
Mud Seal P			130
Tel Plug C / M / F			500 / 500 / 500
Tel Stop P / G			500 / 260
Barolift (lbs)			1,890
Driscal D			0
Tel Flow P			0
Poro Seal			0
Steel Seal 50 (lbs)			1,000
KCl			0
NaCl			0
Fracseal (lbs)			0
Stopseal (lbs)			0
Bentonate(Bulk)			46,000

Hook Wt. (knt) @24:00 1,954.0 mBRT

Hook Load	9,100
BHA	-
Below HWDP	-
below Jar	-
HPS & Traveling block	-
Hook + RRT	400
Hook block	-

Jar Rotating time 24:(S/N:

Today		Total	hrs

Cutting skip @24:00

Empty	Full	Total
2	1	3

ROV @24:00

Status	Dive
Last Dive	2/27/2019
Injection Skid	Dive w/Methanol Skid

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	09:15	09:23	9	8
2	11:25	11:32	9	9
3	14:35	14:43	5	7
4				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	24	

Remarks

Marine Information @24:00

Heave (m)	1.0
Pitch (deg)	0.6
Roll (deg)	0.2
Vessel Heading (deg)	030
Riser Tension (kN)	-
V.D. Load (ton)	11451
Max Draught (m)	9.0
Thruster (kW)	1920

Weather Information

Time	Weather	Temp. (degC) Air	Temp. (degC) SW	Barometer (hPa)	Wind Speed (m/s)	Wind Dir. (deg)	Wind Gust (m/s)	Wave Height (m)	Wave Dir. (deg)	Wave Period (s)	Current Speed(knt)	Current Dir. (deg)	Visibility (km)
24:00	bc	15.0	16.8	1019.4	9.0	78	10.1	2.1	50	6.9	0.7	218	22.0

Today's Schedule: Continue to grease up inner barrel. Remove moonpool hoses from telescopic joint. Lay out slip joint, 10ft pup, Bumper joint, IFJ, Telescopic joint and 20ft pup. Recover riser.

Reported by : T. Nishiyama / T. Yokoyama

Approved by : T.Ikawa