

Chikyu DAILY MORNING REPORT

Mission No. : **CK18-04**

Exp. No. : **Exp 358**

Report No. : **91**

Site Name **C0002** Hole Name **C0002R** Lat. **33° 18.0507'N** Long. **136° 38.2029'E** Seabed Depth : **1,967.5** mBRT RT-MSL : **28.5** m Report Date : **6/Jan/2019**
 Depth : @24:00 **5,052.0** mBRT **3084.5** mbsf Progress : **0.0** m Drilling/Coring/Underreaming Hrs. : **0.00** hrs Last BOP PT: **1/5/19** Next BOP PT: **1/26/19**
 Depth : @06:00 **5,052.0** mBRT **3084.5** mbsf LAST CASING : **11-3/4"** x **2,922.50** mbsf (4,890.0 mBRT) Last BOP FT: **1/5/19** Next BOP FT: **1/12/19**
 Summary of Operation on **5-Jan** : BOP pressure test and function test. POOH 8-1/2" Kick off BHA. Change out HPS pipe handler. Last Glycol 35gal Inj. **1/1/19**
 Present Operation @ 06:00 on **6-Jan** : Surface test Z-Reamer. MU&RIH 8-1/2"x12-1/4"LWD BHA to 143mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **5-Jan**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:45	0:45	RR	5,052.0	Continue to change elevator from #1 to #2 due to door close function failure.
0:45	6:00	5:15	BOPE	5,052.0	BOP pressure test by Blue (#1-#3) and Yellow (#4-#7) from drillers house. 500psi x 5min and 4,600psi x 5min. #1 pressure test for OGB, UOC, LOC, UOK, and LOK: Good test. #2 pressure test for IGB, UIC, LIC, UIK, and LIK: Good test. #3 pressure test for LA, Test ram and UIK: Good test. #4 pressure test for UPR, UOK: Good test. #5 pressure test for MPR: Good test. #6 pressure test for UA, IGB, UIC and LIC: Good test. #7 pressure test for OGB, UOC, LOC: Good test. Find UPR "Close" leak becomes severe condition (400 lpm) while closing UPR during #4 pressure test. Observe pressure by cement pump does not build up because UA is not fully closed during #6 pressure test. Increase regulator pressure after opening UA, and close UA again: Hold pressure.
6:00	7:15	1:15	BOPE	5,052.0	BOP function test by Yellow POD from drillers house. Valve and Pressure Switch conditions are same as before other than UPR. UPR close side leak was confirmed leaking from main bonnet flange.
7:15	21:00	13:45	TRIP	5,052.0	POOH 8-1/2" Kick off BHA from 4,440mBRT to surface. Pump slug mud. Boost riser at 450gpm. Lay out 6-1/2" Jar and Telescope. Find top side connection of motor power section flare out due to over torque and connection between power section and bent sub was backed off (No lost parts) Lay out mud motor and bit together. 6-1/2" Jar mandrel length: 18-3/16", 8-3/8" Motor stabilizer: 8-3/8" (In gauge), 8-1/4" String stabilizer: 8-1/4" (In gauge)
21:00	24:00	3:00	RR	5,052.0	Change out HPS pipe handler w/back up and service HPS. No losses in last 24 hours. Ditch magnet: 2.0kg (Total 94.5kg for Kick off hole)

Time Breakdown (00:00 - 06:00 on **6-Jan**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	2:00	2:00	OTHER	5,052.0	Surface test of Z-Reamer. MU bit x XO x Z-Reamer x Float sub x XO x 6-5/8" DP UD165 1stand. Install new non-ported float. Apply tapes onto cutter block and bottom nozzle which become open after activated. Lower Z-Reamer below the rotary and pump 400gpm x 3.5MPa / 500gpm x 5.7MPa. Pick up Z-Reamer above the rotary and check if tapes are not broken. Confirm tapes are not broken.
2:00	6:00	4:00	TRIP	5,052.0	Make up and RIH 8-1/2" x 12-1/4" LWD BHA to 143mBRT. Pick up back up arcVision675 and TeleScope675 (New, w/ IWOB, 700gpm setting). Check 8-1/4" and 8-1/8" stabilizer OD. 8-1/4" Stabilizer (Below Z-Reamer): In gauge. 8-1/8" Stabilizer (Above Z-reamer): In gauge. Pick up and make up 10jts of 6-3/4" DC (4IF) by single. (01:40-05:00) Advisory status due to maintenance of windmeter.

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)	Dull Condition									
							From	To			Min.	Max.				Min.	Max.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
7	8.5	Smith	XR-N	117	RJ8199	3x 16/32"	4,963.0	5,052.0	89.0	62.75	100	200	40	90	553.16	1.4	1	1	WT	A	3	E	In	HC	DTF

BHA Record @24:00

#	Size	Code	Description	Length (m)	Weight (kg)	Volume (m³)	Remarks
#19	8-1/2" KO BHA	8-1/2" Bit x A675XP PDM with 1.50" bent x 8-1/4" Stab (SLB) x Float Sub w/ Non-ported float valve (SLB) x 6-3/4" Pony NMDC x XO #1 x Telescope 675 x XO #2 x 6-3/4" NMDC x 6-3/4" DC (3 stds) x 6-1/2" Jar x 6-3/4" DC (2 jts) x XO #3 x 5.68" HWDP (3 stds) x XO #4 x 5-1/2" DP S-150 (25 stds) x XO #5 x 5-1/2" DP S-150 (63 stds) x XO #6 x 6-5/8" DP Z-140 (23 stds) x 6-5/8" DP UD-165	19.0	19,000	1.0		

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/Out)	K+	n	K	LGS	FIT 20/40 (mm) 0 min / 5 min	
KNPP	2:00	Pit	1.39	67	25	31	12	10	22	7.3	1.1	9.9	0.1	117,000	0.20	18.0	2.00	12	21,400	0.49	2.22	4.80	-	-
KNPP	14:00	Pit	1.39	66	24	30	12	10	22	7.3	1.1	9.9	0.1	117,000	0.20	18.0	2.00	12	20,900	0.42	3.37	4.80	-	-

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"		0		6.79 (5.5) DP
2	6"		0		0
3	6" (Booster)	90	450		0

Personnel @24:00

Name	Position	Count
CDEX		8
MJQ Crew		100
MWJ		15
Scientist		10

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

Item	Received	Used	Stock
Barite (Bulk)			454,500
Caustic Soda			1,200
Lime			200
Soda Ash			950
Caustic Potash			875
Tel-Polymer DX / L / H			3,520/1,500/0
XCD-Polymer			975
Lignite NC			4,500
Clean Lube W			0
Tel Clean W			6,400
M-I SWACO			4
SLB Underreamer			2
SLB LWD			2
SLB Seismic			0
AFGlobal			2
ENVENTURE			0
SLB DD			2
Franks			0
HAL UR			1
Total			161

Mud volume @24:00

Mud Volume (m³)	Count
KNPP mud (1.39)	286
KNPP (Fracsal)	181
KNPP (BAROLIFT)	50
KNP mud (1.25)	35
KNP mud (1.13)	118
STOPLOSS(1.37)	54
Slug mud	9
total	733

Boat Information @24:00

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	Chikyu	Departed / Arrived
Akatsuki	Chikyu	20:00
Shincho-maru	Chikyu	

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Wave		Current		Visibility (km)	
		Air	SW					Height (m)	Dir. (deg)	Speed (knt)	Dir. (deg)		
24:00	bc	12.5	18.5	1018.0	5.3	341	6.9	1.2	230	4.6	0.9	192	22.0

Today's Schedule: Cont. MU & RIH with 8-1/2" x 12-1/4" LWD BHA to 4,752mBRT. LWD function test at 500mBRT and 4,752mBRT. Ream down to 4,860mBRT. Activate Z-Reamer.

Reported by : T. Yokoyama / T.Nishiyama
 Approved by : T.Saruhashi