

Chikyu DAILY MORNING REPORT

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

Report No.: **55**

Site Name **C0002** Hole Name **C0002Q** Lat. **33° 18.0507'N** Long. **136° 38.2029'E** Seabed Depth: **1,967.5** mBRT RT-MSL: **28.5** m Report Date: **1/Dec/2018**
 Depth: @24:00 **4,990.0** mBRT **3022.5** mbsf Progress: **0.0** m Drilling/Coring/Underreaming Hrs.: **0.00** hrs Last BOP PT: **11/15/18** Next BOP PT: **12/6/18**
 Depth: @06:00 **4,990.0** mBRT **3022.5** mbsf LAST CASING: **11-3/4"** x **2,922.50** mbsf(**4,890.0** mBRT) Last BOP FT: **11/29/18** Next BOP FT: **12/6/18**
 Summary of Operation on **30-Nov**: Function test BOP. Underream from 4,894mBRT to 4,920mBRT. Last Glycol 35gal Inj. **11/27/18**
 Present Operation @ 06:00 on **1-Dec**: Cont. underream to 4,926mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **30-Nov**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:00	1:00	BOPE	4,990.0	Complete function test BOP by Blue POD from TP panel (annulars and rams). Find UPR "Close" and LPR "Open" leak (Same as before).
1:00	3:15	2:15	TRIP	4,990.0	Take Inclination survey at 9 points. survey at 4,855mBRT, 4,860mBRT, 4,865mBRT, 4,870mBRT, 4,875mBRT, 4,880mBRT, 4,885mBRT, 4,890mBRT, 4,892.5mBRT. Pump w/450gpm x 13.2MPa. Ream down w/450gpm x 13.2MPa and 10-30-40rpm x 13-20kNm to RIH to 4875, 4880, 4885, 4890 and 4892.5mBRT.
3:15	4:30	1:15	OTHER	4,990.0	Activate Z-Reamer at 4,894mBRT. Pump w/400-500gpm x 11.5-16.0MPa. Check PUI/SO weight (3,165kN / 3,070kN), free rotation torque (60-100rpm x 18-20kNm) and downhole torque (60-100rpm x 10kNm). Drop ball and chase pumping with 500gpm x 16MPa and 10rpm x 14-16kNm 15min. And reduce pump rate to 50gpm x 4.2MPa after 15min. Increase pump rate to 150gpm x 10.3MPa after pumping w/50gpm 20min. And observe pressure drop to 3.6MPa.
4:30	8:30	4:00	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,894mBRT to 4,904mBRT. WOB: 0-10kN, HPS: 40rpm x 15-16kNm, MP: 600gpm x 2MPa. Downhole torque: 6kNm (while drilling), 10kNm (at when stall). Pump 3m3 of 12ppb fracseal when start opening hole. Observe HPS torque increased from 4,900mBRT gradually. HPS: 40rpm x 15-22kNm, Downhole torque: 40rpm x 5-6kNm. Stall HPS at 4,902mBRT and increase 60rpm x 18-30kNm. Observe pressure drop from 20MPa to 19.2MPa at 4,902mBRT.
8:30	15:00	6:30	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,904mBRT to 4,908mBRT. WOB: 0-30kN, HPS: 50-70rpm x 17.5-30kN, MP: 600gpm x 19.3MPa. Downhole torque: 6kNm (while drilling), 10kNm (at when stall). Observe torque fluctuation 13-30kNm and string stall multiple time at 4,904-4,905mBRT.
15:00	19:30	4:30	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,908mBRT to 4,914mBRT. Increase torque limiter gradually from 30kNm to 34kNm. WOB: 0-80kN, HPS: 70rpm x 13-34kN, MP: 600gpm x 19.0MPa, Downhole WOB: 0-40kN, Downhole torque: 5.8kNm. String stall at 4,914mBRT. Pull the string to 3,150kN (free rotating weight) to 3,600kN (Hook weight), then released. Pump 3m3 of 12ppb fracseal.
19:30	0:00	4:30	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,914mBRT to 4,920mBRT. WOB: 0-80kN, HPS: 70-90rpm x 16-20kN, MP: 600gpm x 19.0MPa, Downhole WOB: 15-40, Downhole torque: 5.8-8.2kNm.
Offline Activities - Receive 1x Telescope675 from Akatsuki. - Offload microSCOPE, SonicVision, seismicVision, mud motor, UBHO sub, NMDC.					
Ditch magnet: 5kg (Total 143.3kg)					
Time Breakdown (00:00 - 06:00 on 1-Dec) * The data on 00:00 - 06:00 is unofficial.					

#	Depth (mBRT)	Inc (deg)	Azi (deg)
1	4,923.284	3.16	136.16
2	4,908.089	3.90	143.14
3	4,898.346	4.15	138.82
4	4,843.469	1.79	17.25
5	4,848.563	2.52	267.06
6	4,853.569	2.85	223.37
7	4,858.694	3.52	85.40
8	4,863.046	3.66	337.00
9	4,868.724	3.81	145.56
10	4,873.143	3.85	135.53
11	4,875.018	3.83	98.64
12	4,883.362	3.64	139.16

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,920mBRT to 4,926mBRT. WOB: 0-90kN, HPS: 80-100rpm x 17-28kN, MP: 600gpm x 19.0MPa Downhole WOB: 10-50kN, Downhole torque: 5-9kNm (while drilling). Observe HPS torque increase from 4,921.5mBRT to 23-28kNm from 20-23kNm w/100rpm. Pump 3m3 of 12ppb fracseal. Unable to function "Auto driller mode" due to DW mismatch from 2:00 and change manual drilling. (04:30-04:45) Change mud pump line up of MP#1 and #2 to string due to MP#3 liner leak. (04:30-05:45) Stop booster line.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (knt)	rpm	Total Rev.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
RR4b	8.5	Smith	xxblade X61	M323	QF3233	3x12/32, 3x1/32				0	85	50	100							

#	Size	Type	Part No.	Depth (mBRT)	Remarks
#13	8.5"x12.25"	8-1/2" Bit sub w/non-ported x XO x arcVision675 x Telescope675 x XO x 8-1/4" Stabilizer x 6-3/4" DC (1) x Z-Reamer x Float sub w/non-ported float x 6-3/4" DC (1) x XO x 3-3/4" Coring DC (3) x XO x 8-1/2" DC (3) x 8" Jar x 8-1/2" DC (3) x XO x 5.68" HWDP (3stds) x XO			

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)		
KNPP	4:30	4,894	1.37	62	24	36	13	11	16	3.1	0.6	10.0	0.1	135,000	0.70	17.0	0.75	11	7	20,900	0.41	3.63	3.10	21	59
KNPP	14:00	4,906	1.37	61	24	36	13	11	16	3.3	0.6	10.0	0.1	135,000	0.80	17.0	0.75	11	8	20,900	0.41	3.63	3.10	15	58

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"	60	300				
2	6"(Booster)	90	450	20.3			
3	6"	60	5				

From	To	Lithology of cuttings

No.	Size	QTY	Centrifuge: hrs
No.1	30, 50 x 2ea	No.4	20, Dummy x 2
No.2	20, 50 x 2ea	No.5	30, 50 x 2ea
No.3	30, Dummy x 2	No.6	20, 50 x 2ea

Item	Unit	Stock	Used	Received
Fresh Water	m3	325.0	86.1	101.1
Potable Water	m3	282.0	9.0	0.0
Drill Water	m3	1,671.0	13.0	0.0
Fuel	m3	6,309.7	50.2	0.0
Lube, Oil	Ltrs	107,600	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GW"	ton	186.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Mud Volume (m3)	QTY
KNPP mud (1.33)	13
KNPP mud (1.37)	439
Slug mud	16
total	468

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	NE 5mile	
Akatsuki	Chikyu	19:30
Shincho-maru	Chikyu	

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	Visibility (km)
24:00	bc	15.0	20.0	1025.0	5.3	289	6.4	0.8	0	5.1	0.4	275

Today's Schedule: Cont. underream to 5,667.5mBRT. Reported by: A. Suzuki / T. Yokoyama
Approved by: T. Kawa

Item	Weight (knt)
Hook Load	3,150
BHA	360
Below HWDP	290
below Jar	230
HPS & Traveling block	620
Hook + RRT	-
Hook block	-
Jar Rotating time 2-S/N:	1762-5074
Today	0.00
Total	23.00

Item	Received	Used	Stock
COEX			1,200
Barite (Bulk)			629,000
Caustic Soda			1,200
MUJ (Other)			200
LMW			1,825
Soda Ash			2,475
Caustic Potash			3,220 / 2,000 / 0
Tel-Polymer DX / L / H	580 / 0 / 0		1,850
XCD-Polymer			4,500
Lignate NC			9,000
Clean Lube W			6,400
Tel Clean W			5,300
Astex-S			368
Deformer 30C			3,200
Tel DD			1,250
SLB Seismic			2,275
Bi-Carbonate			1,020 / 210 / 510
Citric Acid			684
Tan Cal M / F / FF			9,200
Telinite GXL			130
Treat-HS			500 / 500 / 500
Mud Seal P			500 / 260
Tel Plug C / M / F			105
Tel Stop P / G			0
Balofit			0
Driscol D			2,310
Tel Flow P			4,750
Poro Seal			11,000
Steel Seal 50			28,000
KCI			4,000
NaCl			8,000
Fracseal			46,000
Stopseal			
Bentonate(Bulk)			

Fit.	Time	Passenger
No.	Arrived	Departed
1	9:20	9:40
2	11:30	11:43
3	13:35	13:47
4		

Incident	Last Incident	No. LTA
LTA		
HUNS cards	20	
Remarks		

Item	Value
Heave (m)	0.2
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	290
Riser Tension (kN)	9600.0
V.D. Load (ton)	15074
Max Draught (m)	9.0
Thruster (kW)	730