

Chikyū DAILY MORNING REPORT

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

Report No. : **43**

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 : **19/Nov/2018**
 Depth : @24:00 **4,924.0** mBRT **2956.5** 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 **4,939.0** mBRT **2971.5** mbsf LAST CASING : **11-3/4"** x **2,922.50** mbsf (4,890.0 mBRT) Last BOP FT: **11/15/18** Next BOP FT: **11/22/18**
 Summary of Operation on **19-Nov** : **RIH 8-1/2" KO BHA to 4,850mBRT. Drill 8-1/2" hole and work pipe to 4,879mBRT. Cont drill 8-1/2" hole to 4,924mBRT.** Last Glycol 35gal lnj. **11/13/18**
 Present Operation @ 06:00 on **19-Nov** : **Drill 8-1/2" pilot hole at 4,939mBRT.** mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **18-Nov**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:45	6:45	TRIP	4,867.0	RIH 8-1/2" KO assembly from 3,028mBRT to 4,850mBRT Open CMC when passing through top of 11-3/4" liner, not observe any drag; OK Make up 6-5/8" DPUD-165 stds at 87kN. Observe no losses /gains and no drag while RIH. Take SCR and choke friction prior to start drilling.
6:45	7:15	0:30	DRL	4,870.0	Drill 8-1/2" pilot hole from 4,867mBRT to 4,870mBRT. Check hook weight prior to drilling, PO: 3,250kN, SO: 3,100kN. WOB: 0-80kN, 142rpm (HPS 30rpm, Motor 112rpm) x 12-13kNm, 400gpm x 11.5MPa Pump pressure increase from 12.2MPa to 19.8MPa sharply and drill pipe stalled. Once stop pump, pressure decrease to 1.0MPa. Pick up pipe with overpull 250kN but stacked. Suspected BHA stacked due to previous disturbed wellbore and CMT. * Stabilizer located out of window.
7:15	8:45	1:30	SP	4,870.0	Work on pipe. Jarring for 6times with max over pull 550kN. Jarring down for 3 times with max slack off 250kN. Attempt to rotate pipe, but stalled. Jar down again for 2 times at max slack off 250kN. Overpull 550kN (without Jar working) for 2 times and release pipe. Pick up and lower string for 2 times from 4,850mBRT to 4,870mBRT with rotating 30rpm x 12kN and pumping 400gpm x 11.5MPa. Confirm no drag/overpull and excessive torque. Pump 5m3 of 12ppb Fracseal Premix.
8:45	9:00	0:15	DRL	4,871.0	Resume drilling 8-1/2" pilot hole from 4,870mBRT to 4,871mBRT. WOB: 0-80kN, 156rpm (HPS 30rpm, Motor 126rpm) x 12-20kNm, 450gpm x 14.0MPa Pump pressure increase from 11.5MPa to 14.0MPa sharply and drill pipe stalled. Once stop pump, pressure decrease to 1.3MPa.
9:00	9:30	0:30	SP	4,871.0	Work on pipe. Jar up for 2times with maximum overpull 550kN and release pipe. Lower pipe to bottom with rotating 30rpm x 12kN and pumping 400gpm x 11.1MPa. Confirm no drag/overpull and excessive torque.
9:30	9:45	0:15	DRL	4,873.0	Resume drilling 8-1/2" pilot hole from 4,871mBRT to 4,873mBRT. WOB: 0-80kN, 156rpm (HPS 30rpm, Motor 126rpm) x 12-20kNm, 450gpm x 16.0MPa. Pump pressure increase from 13.9MPa to 16.0MPa sharply and drill pipe stalled. Once stop pump, pressure decrease to 1.0MPa.
9:45	10:00	0:15	SP	4,873.0	Work on pipe. Jar up for 2times with maximum overpull 550kN and release pipe.
10:00	11:15	1:15	DRL	4,879.0	Resume drilling 8-1/2" pilot hole from 4,873mBRT to 4,879mBRT. WOB: 0-80kN, 156rpm (HPS 30rpm, Motor 126rpm) x 12-20kNm, 450gpm x 18.0MPa. Drill pipe stalled and pump pressure increase from 13.8MPa to 20.1MPa sharply. Once stop pump, pressure decrease to 1.9MPa.
11:15	11:45	0:30	SP	4,879.0	Work on pipe. Overpull 550kN (without Jar working) for 5 times and Jar up for 7times with maximum overpull 550kN. When pulling up for 8th jarring, release pipe without Jar working. Reciprocate with 30rpm and confirm no drag/overpull and excessive torque.
11:45	24:00	12:15	DRL	4,924.0	Continue drill 8-1/2" hole from 4,879mBRT to 4,924mBRT. 4,879 to 4,886mBRT, WOB: 50-80kN, 164rpm (HPS 30rpm, Motor 134 rpm) x 12-13kNm, 480gpm x 14.0MPa, Take survey #1 4,886 to 4,892mBRT, WOB: 40-60kN, 164rpm (HPS 30rpm, Motor 134 rpm) x 12-13kNm, 480gpm x 14.5MPa, Take survey #2 Observe pressure drop suddenly 15MPa to 0MPa while NSD manifold operationing by AFGlobal engineer, investigation ongoing 4,892 to 4,908mBRT, WOB: 50-80kN, 164-174rpm (HPS 30-40rpm, Motor 134 rpm) x 13-14kNm, 480gpm x 16.8MPa, Take survey #3 4,908 to 4,924mBRT, WOB: 90-100kN, 164-174rpm (HPS 30-40rpm, Motor 134 rpm) x 14-16kNm, 480gpm x 17.0MPa, Take survey #4 Survey summary Meanwhile: Boost Riser w/400gpm x 3.8MPa, Pump 5m3 of 12ppb Fracseal after drill down every 2jts [Vessel status] (12:45-13:30) Advisory status, Port side generator maintenance [Ditch Magnet Weight] 24hr ditch magnet weight: 4.0kg (total 102.7kg)

	MD (m)	Inc (deg)	Azimuth (deg)
#1*	4864.7	3.7	142.94
#2*	4871.0	4.01	145.27
#3	4887.1	4.15	139.45
#4	4903.7	4.08	138.59

* Observe magnetic interference.

Time Breakdown (00:00 - 06:00 on **19-Nov**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	DRL	4,939.0	Continu to drill 8-1/2" pilot hole from 4,924BRT to 4,939mBRT. Start sliding from 4,924mBRT, GTF:180deg. 4,924mBRT to 4,939mBRT, WOB: 50-80kN, Motor 134rpm, 480gpm x 15.8MPa

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)		Meter-age	Hrs.	WOB (knt)		rpm	Total Rev. (kern)	Dull Condition											
							From	To			Min.	Max.			Min.	Max.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP		
3	8.5	Smith	XR+N	117	RJ8198	8x20/32	4,867.0	4,924.0	57.0	11.17	0	100	134	174	104.70											

BHA Record @24:00

#	Size (in)	Motor (w/1.5" bent angle)	Stab (SLB)	Float Sub w/ Float	6-3/4" Pony NMDC x XO x Telescope	675 x 6-3/4" NMDC x 6-3/4" UBHO x 6-3/4" DC (3 stds)	6-1/2" Jar x 6-3/4" DC (2 jts) x XO x 5.68" HWDP (3 stds) x XO x 5-1/2" DP S-140 (25 stds) x XO x 5-1/2" DP S-150 (49 stds) x XO x 6-5/8" DP 2-140 (22 stds) x 6-5/8" DP UD-165 x 6-5/8" DP UD-165 with NSD	Hook Wt. (knt) @24:00hrs	4,924.0	mBRT
#10	8.5"	KO								

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	5 min
KNPP	1:00		1.37	51	18	34	9	9	11	2.6	0.5	10.2	0.2	138,000	0.25	16.0	0.25	23	20,300	0.42	2.92	1.00			
KNPP	10:30	4,875	1.37	56	21	32	11	9	11	2.3	0.5	10.3	0.2	138,000	0.25	16.0	0.25	16	11	22,500	0.42	2.92	1.00		
KNPP	17:00	4,893	1.37	58	22	34	12	9	13	2.7	0.5	10.3	0.2	135,000	0.25	16.0	0.25	12	10	20,300	0.42	2.92	1.0		

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	48	240		DC DP
2	6"(Booster)	80	400	17.0	
3	6"	48	240		51 40

Personnel @24:00

Item	Received	Used	Stock
CDEX			10
MQJ Crew			99
MQJ (SC, Other)			1
MWJ			15
Scientist			5
Telinite			2
Oceanengineering			6
SLB Cementing			1
SLB WL			3
Geoservices			6
BHGE			0
M-I SWACO			4
Gyrodota			1
SLB Whipstock			2
SLB LVD			2
SLB DD			2
SLB Seismic			2
AFGlobal			2
Drillichem			1
Total			164

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

Item	Received	Used	Stock
Barite (Bulk)			654,500
Caustic Soda			1,200
Lime			200
Soda Ash			225
Caustic Potash			1,100
Tel-Polymer DX / L / H			3260/13000
XCD-Polymer			1,050
Lignite NC			4,500
Clean Lube W			5,000
Tel Clean W			6,400
Astex-S			5,300
Deformer 30C			368
Tel DD			3,200
Bi-Carbonate			1,250
Citric Acid			2,275
Tan Cal M / F / FF			1,020 / 210 / 510
Telinite GXL			684
Treat-HS			9,200
Mud Seal P			130
Tel Plug C / M / F			500 / 500 / 500
Tel Stop P / G			500 / 260
Balofitt			105
Driscald D			0
Tel Flow P			0
Poro Seal			2,310
Steel Seal 50			1,250
KCl			5,000
NaCl			18,000
Fracseal			11,500
Stopseal			8,000
Bentonate(Bulk)			46,000

Mud volume @24:00

Mud Volume (m3)	Value
KNPP mud (1.33)	310
KNPP mud (1.37)	280
Slug mud	5
total	595

Boat Information @24:00

Boat Name	Status	Time @Chikyū
#8 Meiji-maru	Chikyū	Departed
Akatsuki	Chikyū	Arrived

Weather Information

Time	Weather	Temp. (degC)		Barometer	Wind	Wave			Current		Visibility (km)		
		Air	SW			(hPa)	Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)		Dir. (deg)	Period (s)
24:00	c	18.0	21.8	1017.0	2.9	174	3.9	0.8	50	5.6	0.5	201	22.0

Today's Schedule: Continu to drill 8-1/2" pilot hole to 5,028mBRT.
 Reported by : N. Sakurai / T. Nishiyama
 Approved by : T. Saruhashi