

Chikyu DAILY MORNING REPORT

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

Report No.: 62

Site Name	C0002	Hole Name	C0002O	Lat.	33° 18.050' N	Long.	136° 38.2029' E	Seabed Depth	1,967.5 mBRT	RT-MSL	28.5 m	Report Date	8/Dec/2018
Depth @ 06:00	5,230.0 mBRT	3262.5 mbsf	3262.5 mbsf	Progress	33.0 m	Drilling/Coring/Underreaming Hrs.	12.50 hrs	Last BOP FT.	11/15/2018	Next BOP FT.	12/6/2018		
Depth @ 06:00	5,230.0 mBRT	3262.5 mbsf	3262.5 mbsf	LAST CASING	11-3/4"	x	2,922.50 mbsf (4,890.0 mBRT)	Last BOP FT.	11/29/2018	Next BOP FT.	12/6/2018		
Summary of Operation on 7-Dec		Cont. to drill from 5.197mBRT to 5.230mBRT. Circulate and BTMs up. POOH 8-1/2" x 12-1/4" BHA. Pump out BHA.											
Present Operation on 8-Dec		Cont. pump out/Pull out to 4.925mBRT. Take survey. Resume POOH to 4.371mBRT											

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:30	2:30	DRL	5,205.0	Continue to drill 8-1/2"x12-1/4" hole from 5.197mBRT to 5.205mBRT. WOB: 100-130kN, HPS: 160rpm x 18-33kNm, MP: 625gpm x 20.4MPa, Downhole WOB: 30-75kN, Downhole torque: 0.0kNm, ECD 1.412-1.413sg Ave. ROP 3.2 m/hr From 5.200.5mBRT to 5.201mBRT, WOB: 85-110kN, HPS: 160rpm x 20-33kNm, 625gpm x 20.2MPa. From 5.201.5mBRT to 5.203mBRT, WOB: 50-80kN, HPS: 160rpm x 19-33kNm, 625gpm x 20.4MPa. From 5.204mBRT to 5.205mBRT, WOB: 50-90kN, HPS: 160rpm x 19-33kNm, 625gpm x 20.4MPa. Pump 3m3 and 5m3 of 12ppb fracseal alternately.
2:30	4:00	1:30	OTHER	5,205.0	Take survey and calibrate Downhole Torque and WOB. (03:00-03:45) Make a NSD stand connection. Survey data (Depth: Telescope sensor depth) Depth (mBRT) Inc (deg) Azi (deg) 5,190.781 5.31 57.61
4:00	11:30	7:30	DRL	5,222.0	Drill 8-1/2"x12-1/4" hole from 5.205mBRT to 5.222mBRT. WOB: 60-100kN, HPS: 160rpm x 18-33kNm, MP: 625gpm x 20.4MPa, Downhole WOB: 20-50kN, Downhole torque: 0.0-1.0kNm, ECD 1.412-1.414sg Ave. ROP 2.3 m/hr From 5.208mBRT to 5.209mBRT, WOB: 50-75kN, HPS: 160rpm x 18-33kNm, 625gpm x 20.3MPa. Pump 3m3 and 5m3 of 12ppb fracseal alternately. From 5.210mBRT to 5.211mBRT, WOB: 50-95kN, HPS: 160rpm x 18-33kNm, 625gpm x 20.6MPa. From 5.212.5mBRT to 5.213.5mBRT, WOB: 60-90kN, HPS: 160rpm x 18-33kNm, 625gpm x 20.4MPa. From 5.219.5mBRT to 5.220mBRT, WOB: 50-70kN, HPS: 160rpm x 16-25kNm, 625gpm x 20.4MPa.
11:30	12:15	0:45	OTHER	5,222.0	Calibrate Downhole torque Wipe string 15m w/60rpm x 17-19kNm. Reciprocate 15m w/o rotation and pick up 2m off bottom, and set zero torque.
12:15	14:45	2:30	DRL	5,230.0	Resume drilling 8-1/2"x12-1/4" hole from 5.222mBRT to 5.230mBRT. WOB: 100-135kN, HPS: 160rpm x 15-33kNm, MP: 625gpm x 20.8MPa, Downhole WOB: 30-70kN, Downhole torque: 0.98-1.22kNm, ECD 1.412-1.414sg Ave. ROP 3.2 m/hr Pump 3m3 and 5m3 of 12ppb fracseal alternately.
14:45	19:15	4:30	CXC	5,230.0	Circulate and bottoms up. HPS: 30rpm x 15-18kN, MP: 625gpm x 20.8MPa. Pump 5m3 of 12ppb fracseal.
19:15	23:00	3:45	TRIP	5,230.0	POOH 8-1/2" x 12-1/4" hole opening assembly to 5.145mBRT. Take SCR prior to POOH. Boost riser with 900gpm x 5.0MPa. Observe continuous drag 200 - 500kN from. Rotate string at 5.206mBRT and 5.149mBRT and confirm string free. After stop rotating, drag increase from 200kN to 500kN as residual torque decreasing while picking up string.
23:00	24:00	1:00	TRIP	5,230.0	Pump out from 5.145mBRT to 5.086mBRT. MP: 150gpm x 3.8MPa. Observe continuous drag 200 - 350kN. When break top connection of #8 & #6 NSD sub, these connections are too tight to break by Iron roughneck. Break #8 NSD sub w/135kNm by Iron roughneck and #6 NSD sub w/152kNm w/rig tong. Investigate top connection of NSD sub and find box thread shorter than normal 6-5/8" FH thread (Pin length: 12cm, Box length: 11cm). Max. ROP: 5.95 m/hr @5,224.5 mBRT, min ROP: 1.64 m/hr @5,219.5mBRT. Ditch magnet: 4.0kg (Total 166.8kg)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	TRIP	5,230.0	Continue to pump out from 5.086mBRT to 5.047mBRT. MP: 150gpm x 3.8MPa. Observe continuous drag 200 - 250kN (Normal drag). Attempt to break connection NSD sub (Top of #5 NSD stand box connection), slip lower arm of Iron roughneck. Sledge tool joint and break connection. Offline job: #2 mud pump fluid end inspection.
1:15	2:00	0:45	TRIP	5,230.0	POOH 8-1/2" x 12-1/4" hole opening assembly from 5.047mBRT to 4.927mBRT. Observe continuous drag 100 - 200kN (Normal drag). Attempt to break connection NSD sub (Top of #4 NSD stand box connection), slip dies of Iron roughneck. Sledge tool joint and break same. Break NSD sub (#3, #2 & #1 NSD stand) connection by Iron roughneck without slip dies.
2:00	3:00	1:00	OTHER	5,230.0	Take survey at 4.925mBRT, 4.920mBRT and 4.915mBRT. Survey data (Depth: Telescope sensor depth) Depth (mBRT) Inc (deg) Azi (deg) 4,912.650 3.48 75.20 4,907.110 3.56 75.37 4,902.921 3.15 78.82
3:00	3:45	0:45	TRIP	5,230.0	POOH 8-1/2" x 12-1/4" hole opening assembly from 4.915mBRT to 4.850mBRT. Observe continuous drag 100 - 200kN (Normal drag). Bit and Z-Reamer pass through the window without excess drag.
3:45	4:00	0:15	OTHER	5,230.0	Flow check. Observe well static. Remove geograph wire while flow check.
4:00	6:00	2:00	TRIP	5,230.0	POOH 8-1/2" x 12-1/4" hole opening assembly from 4.850mBRT to 4.371mBRT. Pump 7m3 of slug mud. Open Lower Choke and Upper / Lower Kill lines, and pump booster line w/900gpm x 4.5MPa.

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.	ROP	Dull Condition			
RR4b	8.5	Smith	helixlike X6H	M323	QF233	34/102, 34/132	4,990.0	5,230.0	240.0	94.06	100	145	110	160	852.3	2.6	
RR4d	8.5 x 12.25	Dristler	Z-Reamer#850	NA	52763	14,702, 24,832	4894.0	5,201.00	307.0	153.49	75	110	90	160	1,153.8	2.0	

BHA Record @24:00

#	Size	Material	Weight (kg)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	Weight (kN)	Length (m)	
#13	8.5 x 12.25	8-1/2" Bit x Bit sub w/in-ported x XO x arc/Vision#75 x TeleScope#75 x XO x 8-1/4" Stabilizer x 6-3/4" DC (1) x Z-Reamer x Float sub w/in-ported float x 6-3/4" DC (1) x XO x 5-3/4" Casing DC (3) x XO x 8-1/2" DC (3) x 8-1/2" Jar x 8-1/2" DC (3) x XO x 5.68" HWDP (3686) x XO																	

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Erpm	Gel St. (10", 10')	API	Clay	pH	PI	Cl-	Sand	Oil	Solid	MBIC	Temp (In / Out)	K+	n	K	LGS	FIT 20/40 (mm)		
KNPP	1:30	5,201	1.37	65	23	33	12	12	20	4.6	0.8	9.8	0.1	128,000	0.50	17.0	1.50	11	8	21,400	0.42	3.61	3.40	14	-
KNPP	10:30	5,219	1.37	66	23	33	12	13	21	4.6	0.8	10.2	0.1	128,000	0.40	17.0	1.50	11	8	22,000	0.42	3.61	3.40	16	-
KNPP	17:00	5,230	1.37	68	23	33	12	12	22	4.6	0.8	10.2	0.1	128,000	0.30	17.0	1.50	11	8	21,400	0.42	3.61	3.40	14	-

Mud Pumps @24:00

No.	Lineer Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	30	150		6.578
2	6"	0	0	3.8	11
3	6"	0	0		13

Geologic Information @24:00

From	To	Lithology of cuttings
5100.0	5230.0	Claystone (70-80%), Silty Claystone (20-30%), Sandstone (tr)

Shale Shaker @24:00

No.	Lineer Size	No.	Lineer Size	No.	Lineer Size	No.	Lineer Size
No.1	20, 100x120	No.4	30, 100x120	No.7	off	No.10	off
No.2	20, 100x120	No.5	30, 100x120	No.8	off	No.11	off
No.3	30, 100x120	No.6	30, 100x120	No.9	off	No.12	off

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	319.8	93.7	101.7
Potable Water	m3	234.7	6.9	0.0
Drill Water	m3	1,640.5	19.5	0.0
Fuel	m3	6,237.6	52.6	0.0
Lube Oil	Ltrs	99,900	800.0	0.0
Hull 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

Boat Information @24:00

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	NE 5mile	Departed
Akatsuki	Shingu	Arrived
Shincho-maru	Chikyu	

Weather Information

Time	Weather	Temp (degC)	Barometer (hPa)	Wind (m/s)	Dir. (deg)	Height (m)	Wave (m)	Period (s)	Current Speed (km/h)	Dir. (deg)	Visibility (km)	
24:00	o	14.0	200.0	1019.8	7.2	303	8.5	1.4	300	4.8	0.7	231

Today's Schedule: Cont. POOH to 3.756mBRT. BOP function/pressure test. POOH to surface.

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