

Site Name NT1-03 Hole Name Lat. 33° 02' 02.6379"N Long. 136° 47' 23.9464"E Seabed Depth : 3,870.0 mBRT RT-MSL : 28.5 m Report Date : 7/Mar/2019
 Depth : @24:00 4,091.0 mBRT 221.0 mbsf Progress : 221.0 m Drilling/Coring/Underreaming Hrs. : 9.60 hrs Last BOP PT: - Next BOP PT: -
 Depth : @06:00 4,165.0 mBRT 295.0 mbsf LAST CASING : x mbsf(mBRT) Last BOP FT: - Next BOP FT: -
 Summary of Operation on 6-Mar : Run UWTV and conduct seabed survey. Spud in 8-1/2" LWD hole. Retrieve UWTV. Continue to drill to 4,091mBRT Last Glycol 35gal Inj. -
 Present Operation @ 06:00 on 7-Mar : Cont. to drill down 8-1/2" LWD hole at 4,165mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on 6-Mar) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:15	0:15	OTHER		Continue to conduct downlink
0:15	1:45	1:30	OTHER		Prepare UWTV and install UWTV along DP Keep pumping w/400-450gpm x 6.1-8.2MPa for saving seismicVision battery Skid Working Platform to Well center and swallow DP into Working CART slot Check UWTV Gyro direction: 170deg, confirm UWTV facing toward STBD (Vessel heading is 55deg)
1:45	2:15	0:30	OTHER		Run UWTV to 100mWD Paint white mark at 50m cable length(one band) and 100m cable length(two bands) Conduct function test of camera and light, and reset relative length of UWTV cable to 0m at sea level. Install UWTV cable to Guide sheave. Reset gyro and check UWTV Gyro direction: 86deg.
2:15	3:30	1:15	OTHER		Resume run UWTV to 3,812mWD
3:30	4:45	1:15	OTHER		Conduct seabed survey around deep core hole. Lower string and tag seabed at 3,868mBRT. Hole coordinate: Lat. 33° 02'03.6116"N, Long. 136° 47'23.9659"E.
4:45	5:45	1:00	OTHER	3,870.0	Survey around deep core hole with 10mW, 10mE, 10mN and 10mS. Find no trace of cable and obstacle on seabed. Move to LWD hole. Conduct seabed survey LWD hole. Lower string and tag seabed at 3,870mBRT. Hole coordinate: Lat. 33°02'02.6379"N, Long. 136°47'23.9464"E.
5:45	7:15	1:30	OTHER	3,870.0	Survey around LWD hole with 10mW, 10mE, 10mN and 10mS. Find no trace of cable and obstacle on seabed. Move to shallow core hole. Conduct seabed survey shallow core hole, on going. Find liner obstacle(seems like exposed hard formation) around original shallow core hole location. Tag on obstacle slightly and confirm it soft. Decide to change shallow core hole location 10mW from planned location. Lower string and tag seabed at 3,872mBRT. Hole coordinate: Lat. 33°02'00.00"N, Long. 136°47'23.7960"E.
7:15	10:45	3:30	OTHER	3,950.0	Spud in 8-1/2" LWD hole. Wash down from 3,870mBRT to 3,950mBRT. WOB: 10-40kN, MP: 150-450gpm x 1.3-8.5MPa Meanwhile, pull UWTV to 200mWD.
10:45	11:45	1:00	OTHER	3,950.0	Retrieve UWTV to surface. Turn off power at 200mWD and pull UWTV to surface. Remove UWTV from string and secure UWTV on working cart. Swallow drill string inside RGR at well center and close RGR door.
11:45	12:15	0:30	OTHER	3,950.0	Take survey #1 Calibrate down hole WOB and down hole torque.
12:15	13:30	1:15	DRL	3,962.5	Drill 8-1/2" LWD hole from 3,950mBRT to 3,962.5mBRT WOB: 0kN, HPS:30-60rpm x 0.5-6.0kNm, SPP:450gpm x 8.3MPa, Set Auto driller:12m/hr Pump sweep 5m3 x 2times per stand(while pumping sweep, pressure drop to 7MPa and back to normal), DGR rotate smoothly.
13:30	14:00	0:30	OTHER	3,962.5	Take survey #2
14:00	16:30	2:30	DRL	4,001.0	Drill 8-1/2" LWD hole from 3,962.5mBRT to 4,001mBRT WOB: 0kN, HPS:80rpm x 0.8-5.2kNm, SPP:450gpm x 8.5MPa, Set Auto driller:14-15m/hr Pump sweep 5m3 x 2times per stand(while pumping sweep, pressure drop to 7MPa and back to normal), DGR rotate smoothly.
16:30	17:00	0:30	OTHER	4,001.0	Take survey #3
17:00	20:00	3:00	DRL	4,039.0	Drill 8-1/2" LWD hole from 4,001mBRT to 4,039mBRT WOB: 0-4kN, HPS:100rpm x 0.6-5.1kNm, SPP:450gpm x 8.7MPa, Set Auto driller:18m/hr Pump sweep 5m3 x 2times per stand(while pumping sweep, pressure drop to 7MPa and back to normal) DGR rotate smoothly. Start rotate RGR and adjust Vessel position for rotation smoothly
20:00	20:30	0:30	OTHER	4,039.0	Take survey #4
20:30	22:45	2:15	DRL	4,077.0	Drill 8-1/2" LWD hole from 4,039mBRT to 4,077mBRT WOB: 0-12kN, HPS:110rpm x 0.5-4.5kNm, SPP:450gpm x 8.4MPa, Set Auto driller:21m/hr Pump sweep 5m3 x 2times per stand(while pumping sweep, pressure drop to 7MPa and back to normal) DGR rotate smoothly. Adjust Vessel position for RGR rotation smoothly
22:45	23:15	0:30	OTHER	4,077.0	Take survey #5
23:15	24:00	0:45	DRL	4,091.0	Drill 8-1/2" LWD hole from 4,077mBRT to 4,091mBRT WOB: 0-13kN, HPS:110rpm x 0.5-4.5kNm, SPP:450gpm x 8.4MPa, Set Auto driller:21m/hr Pump sweep 5m3 (while pumping sweep, pressure drop to 7MPa and back to normal) DGR rotate smoothly. Adjust Vessel position for RGR rotation smoothly

Survey data (Depth: Telescope sensor depth)			
No	Depth (mBRT)	Inc (deg)	Azi (deg)
#1	3,928.65	5.53	227.41
#2	3,945.27	6.65	227.96
#3	3,983.89	6.50	229.68
#4	4,021.66	5.22	233.96
#5	4,058.59	4.79	237.69

Time Breakdown (00:00 - 06:00 on 7-Mar) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	DRL	4,115.5	Continue to drill 8-1/2" LWD hole from 4,091mBRT to 4,115.5mBRT WOB: 0-18kN, HPS:110rpm x 0-10kNm, SPP:450gpm x 8.5MPa, Set Auto driller:21m/hr Pump sweep 5m3 (while pumping sweep, pressure drop to 7MPa) DGR rotate smoothly. Adjust Vessel position for RGR rotation smoothly
1:15	1:45	0:30	OTHER	4,115.5	Take survey#6
1:45	2:45	1:00	DRL	4,131.5	Continue to drill 8-1/2" LWD hole from 4,115.5mBRT to 4,131.5mBRT WOB: 0-18kN, HPS:110rpm x 0-9kNm, SPP:450gpm x 8.4MPa, Set Auto driller:21m/hr Pump sweep 5m3 (while pumping sweep, pressure drop to 7MPa)
2:45	3:30	0:45	OTHER	4,131.5	Troubleshoot for DGR. While drilling, find brush coming out from DGR. Check DGR and find 2 bolts sheared. Remove the same and conduct function test without two bolts.
3:30	4:45	1:15	OTHER	4,155.0	Continue to drill 8-1/2" LWD hole from 4,131.5mBRT to 4,155mBRT WOB: 0-20kN, HPS:110rpm x 0-14kNm, SPP:450gpm x 8.7MPa, Set Auto driller:21m/hr Pump sweep 5m3 (while pumping sweep, pressure drop to 7MPa)
4:45	5:30	0:45	OTHER	4,155.0	Take survey #7
5:30	6:00	0:30	OTHER	4,165.0	Continue to drill 8-1/2" LWD hole from 4,155mBRT to 4,165mBRT WOB: 0-13kN, HPS:110rpm x 0-15kNm, SPP:450gpm x 8.4MPa, Set Auto driller:21m/hr <DGR&RGR> Due to Magnus effect RGR sometimes difficult to rotate due to high side force. DGR retaining bolt sheared and not rotating. Start applying water on DGR

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.
13	8.5	Smith	MDIS1EUBPXG	M223	QF3594	2 x 11/32, 3 x 19/32	3,870.0	4,091.0	221.0	9.60	0	13	30	110	52.44	22.4								

BHA Record @24:00
 33 LWD 8-1/2" Bit x MicroScope 675 x arcVision675 x TeleScope675 x SonicScope675 x seismicVision675 x XO#1 x float sub (non-ported sub) x XO#2 x 6-3/4" DC (4 IF) (2stds) x XO#3 x 6-3/4" DC (4-1/2 IF) (1std) x 6-1/2" Jar x 6-3/4" DC (1std) x XO#4 x 5.68"HWDP (3stds)

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) 5 min
KNPP	14:00	Pit	1.36	51	20	15		4	10		12.2							21			0.65	0.60			

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	45	225		5"DP 5.5"DP
2	6"	45	225	9.0	45 50
3	6"	0	0		

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

No.	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	255.6	86.3	0.0
Potable Water	m3	202.1	4.2	0.0
Drill Water	m3	919.4	22.9	96.5
Fuel	m3	2,000.5	45.7	0.0
Lube Oil	Ltrs	47,600	600.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	160.0	0.0	0.0
Cement "G"	ton	30.0	0.0	0.0

Boat Information @24:00

Boat Name	Status	Time @Chikyū	
		Departed	Arrived
#8 Meiji-maru	Katsura	16:00	
Shincho-maru	Chikyū		19:30

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind			Wave			Current		Visibility (km)
		Air	SW		Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	r	14.0	16.5	1005.2	3.2	42	3.7	1.6	135	6.0	0.6	224	22.0

Today's Schedule: Continue to drill down 8-1/2" LWD hole.

Hook Wt. (knt) @24:00 4,091.0 mBRT

Hook Load	2,883
BHA	270
Below HWDP	220
below Jar	180
HPS & Traveling block	620
Hook + RRT	-
Hook block	145

Jar Rotating time 24: S/N:1760-5679

Today	10.15	Total	67.25	hrs	
Cutting skip @24:00					
Empty	2	Full	1	Total	3

ROV @24:00

Status	-
Last Dive	-
Injection Skid	-

Heli Information @24:00

Fit. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1	9:26	9:34	8	8
2	11:56	12:03	7	5
3				
4				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	23	

Remarks

Marine Information @24:00

Heave (m)	0.5
Pitch (deg)	0.4
Roll (deg)	0.1
Vessel Heading (deg)	060
Riser Tension (kN)	-
V.D. Load (ton)	12464
Max Draught (m)	9.0
Thruster (kW)	1050

Reported by : N. Sakurai / T. Nishiyama
 Approved by : T. Saruhashi