

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: 6/Dec/2018
 Depth: @24:00 5,160.0 mBRT 3192.5 mbsf Progress: 67.0 m Drilling/Coning/Underreaming Hrs.: 24.00 hrs Last BOP PT: 11/15/2018 Next BOP PT: 12/16/2018
 Depth: @06:00 5,166.0 mBRT 3198.5 mbsf LAST CASING 11-3/4" x 2,922.50 mbsf (4,890.0 mBRT) Last BOP FT: 11/29/2018 Next BOP FT: 12/16/2018
 Summary of Operation on 5-Dec : Cont. to drill from 5,093mBRT to 5,160mBRT. Last Glycol 35gal Inj. 12/4/2018
 Present Operation @ 06:00 on 6-Dec : Cont. drill 8-1/2" x 12-1/4" hole to 5,166mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on 5-Dec : Cont. drill 8-1/2" x 12-1/4" hole to 5,166mBRT. mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation	Survey data (Depth: Telescope sensor depth)									
0:00	11:00	11:00	DRL	5,126.5	Drill 8-1/2" x 12-1/4" hole from 5,093mBRT to 5,126.5mBRT. WOB: 100-145kN, HPS: 160rpm x 17-34kN, MP: 600gpm x 20.8MPa, Downhole WOB: 25-85kN, Downhole torque: 1.5-2.5kNm, ECD 1.425-1.432sg Ave. ROP 3.0 m/hr Pump 3m3 12ppb fracseal at 00:45, 3:30 and 7:00. (00:30 - 00:45) Take a survey at 5,095mBRT (Bit depth). Calibrate Downhole Torque and WOB. (10:15 - 10:30) Take a survey at 5,124.5mBRT (Bit depth). (10:30 - 11:00) NSD connection.	<table border="1"> <tr> <th>Depth (mBRT)</th> <th>Inc (deg)</th> <th>Azi (deg)</th> </tr> <tr> <td>5,080.285</td> <td>5.09</td> <td>56.94</td> </tr> <tr> <td>5,112.620</td> <td>5.43</td> <td>58.33</td> </tr> </table>	Depth (mBRT)	Inc (deg)	Azi (deg)	5,080.285	5.09	56.94	5,112.620	5.43	58.33
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5,080.285	5.09	56.94													
5,112.620	5.43	58.33													
11:00	24:00	13:00	DRL	5,160.0	Drill 8-1/2" x 12-1/4" hole from 5,126.5mBRT to 5,160mBRT. WOB: 90-130kN, HPS: 160rpm x 15-33kN, MP: 625gpm x 20.9MPa, Downhole WOB: 25-80kN, Downhole torque: 1.3-1.9kNm, ECD 1.417-1.424sg Ave. ROP 2.6 m/hr Pump 3m3 12ppb fracseal every 1 hour. Change shaker screen from XR type to MG type. #1 Shale shaker: Top screen API 30 (MG), Bottom screen API 40 (MG) #5 Shale shaker: Top screen API 30 (MG), Bottom screen API 40 (MG) #6 Shale shaker: Top screen API 30 (MG), Bottom screen API 60 (MG) Change shaker screen to monitor. #1 Shale shaker: Top screen API 30 (MG), Bottom screen API 60 (MG) #2 Shale shaker: Top screen API 20, Bottom screen API 80 (MG) #5 Shale shaker: Top screen API 30 (MG), Bottom screen API 60 (MG) Max. ROP: 6.32 m/hr @5,104.5 mBRT, min ROP: 1.26 m/hr @5,127.5 mBRT. Offline Activities - Work fracseal recovery at cuttings settling tank. Ditch magnet: 3.5kg (Total 158.8kg)										

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:30	0:30	RR	5,160.0	Change Mud Pump line up into the hole. Find #1 Mud Pump leak by dropping standpipe pressure. Pick up string to 2m off bottom, and stop pump 5min to arrange mud pump line up (#2 & #3 Mud Pump into string). Find No.2 & 3 piston of #1 Mud Pump damaged and replace all pistons (No.1 piston is also slightly damaged).
0:30	1:00	0:30	DRL	5,160.5	Run back to bottom and drill down 8-1/2" x 12-1/4" hole from 5,160mBRT to 5,160.5mBRT. WOB: 70-80kN, HPS: 160rpm x 18-26kN, MP: 625gpm x 20.9MPa
1:00	1:30	0:30	OTHER(N)	5,160.5	Find "Auto Driller" mode failed due to drawworks mismatch. Pick up string to 11-12m hook position w/60rpm x 20-21kNm and 625gpm x 21.2MPa. Attempt to calibrate drawworks and hook height, but fail the calibration. Resume drill down by manual.
1:30	3:45	2:15	DRL	5,165.0	Drill 8-1/2" x 12-1/4" hole from 5,160.5mBRT to 5,165mBRT (Manual drilling). WOB: 70-100kN, HPS: 160rpm x 15-33kN, MP: 625gpm x 20.7MPa, Downhole WOB: 30-80kN, Downhole torque: 0.5-1.0kNm, ECD 1.417-1.419sg Ave. ROP 2.0 m/hr Pump 3m3 12ppb fracseal every 1 hour from 2:00. Observe standpipe pressure dropped from 21.2MPa to 20.1MPa by unplugged nozzle (Confirm no surface equipment leak)
3:45	4:45	1:00	OTHER	5,165.0	Take a survey at 5,162mBRT and calibrate Downhole Torque and WOB. 1st survey fails due to the bad signal and 2nd survey get good signal. Calibrate Downhole Torque and WOB (#2 & #3 Mud Pump to string). Change line up of #1 & #2 Mud Pump to string. Calibrate Downhole Torque and WOB again due to the change of Mud pump line up (#1 & #2 Mud Pump to string)
4:45	5:15	0:30	OTHER	5,165.0	NSD connection. Calibrate DW mismatch by adjusting hook position.
5:15	6:00	0:45	DRL	5,166.0	Drill 8-1/2" x 12-1/4" hole from 5,165mBRT to 5,166mBRT. WOB: 70-110kN, HPS: 160rpm x 16-30kN, MP: 625gpm x 20.7MPa, Downhole WOB: 10-30kN, Downhole torque: 0.5-1.0kNm, ECD 1.417-1.419sg Ave. ROP 1.3 m/hr (0:00 - 01:30) Stop booster line (MF#1). (2:20 - 03:30) "Advisory" status by maintenance work for 1P generator.

Bit	Size	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-agg	Hrs.	WOB (kN)	rpm	Total Rev.	ROP (m/hr)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
RR4b	8.5	Smith	vestside X614	M23	QF3233	3x1212 3x1313	4,990.0 - 5,160.0	170.0	61.32	100	145	110	160	538.8	2.8							
RR4b	8.5 x 12.25	Dallstar	Z-Reamer850	NA	52763	1x 1702 2x 4032	4894.00 - 5,131.00	237.0	120.75	75	110	90	160	840.3	2.0							

Mud Type	Time	Depth (mBRT)	MW	Vis	PV	YV	6rpm	Gel St. (10 ⁴ , 10 ²)	API	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp. In / Out	K+	n	K	LGS	Fit 20/40 (mm) 0 min / 5 min		
KNPP	2:00	5,098	1.37	66	25	37	14	13	21	4.2	0.8	9.8	0.1	128.00	0.75	17.5	1.50	11	8	22.000	0.42	3.60	4.40	11	-
KNPP	02:00	5,132	1.37	69	25	37	14	13	21	4.4	0.8	9.8	0.1	135.00	0.75	17.5	1.50	11	8	22.000	0.42	3.60	4.10	17	-

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	Ann. Vel. (ft/min)
1	6"	63	315	20.9	5.9	5.9
2	6"	62	310			
3	6"(Booster)	90	450			

From	To	Lithology of cuttings
5085.0	5100.0	Claystone (40-50%), Silty Claystone (45-55%), Sandstone (5-5%)
5100.0	5150.0	Claystone (55-70%), Silty Claystone (30-40%), Sandstone (2-2%)

Item	Unit	Stock	Used	Received
Fresh Water	m3	315.0	89.6	100.6
Potable Water	m3	248.0	5.0	0.0
Drill Water	m3	1,671.0	27.0	0.0
Fuel	m3	6,345.6	54.3	0.0
Lube Oil	Ltrs	104.90	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	186.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Boat Name	Status	Time @ Chikyu
#8 Meiji-maru	NE 5mile	Departed
Akatsuki	Chikyu	Arrived
Shincho-maru	Shingyu	03:00

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind (Speed (m/s) / Dir. (deg) / Gust (m/s))	Wave (Height (m) / Dir. (deg) / Period (s))	Current (Speed (kt) / Dir. (deg))	Visibility (km)
24:00	c	17.0	1021.7	10.7 / 24 / 12.3	1.2 / 20 / 4.5	0.7 / 193	22.0

Today's Schedule: Cont. Drill 8-1/2"x12-1/4" hole to 5,667.5mBRT.

Hook WL (knt) @24:00	5,160.0 mBRT
Hook Load	3,110
BHA	360
Below HWDP	290
below Jar	230
HPS & Traveling block	620
Hook & RRT	-
Hook block	-

Jar Rotating time 24/S/N:	1762-5074
Today	22.61
Total	143.75

Cutting skip @24:00	Empty	Full	Total
	36	6	42

ROV @24:00	Status	Diving
Last Dive		12/5/2018
Injection Skid		135 /135 gal

Heli Information @24:00			
Flt. No.	Arrived	Departed	Passenger
1	09:10	09:20	10
2	11:22	11:32	9
3	13:35	13:45	9
4			

Safety (HSE) and other information		
Incident	Last Incident	No. LTA
LTA		
HUNTS cards	20	

Marine Information @24:00	
Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	030
Riser Tension (kN)	9600.0
V.D. Load (ton)	15172
Max Draught (m)	9.0
Thruster (kW)	750

Reported by: A. Suzuki / T. Nishiyama / T. Yokoyama
 Approved by: T. Ikawa