

Site Name C0002 Hole Name C0002P Lat. 33° 18.0507'N Long. 136° 38.2029'E Seabed Depth: 1,967.5 mBRT RT-MSL: 28.5 m Report Date: 11/Nov/2018  
 Depth: @24:00 4,902.0 mBRT mbsf Progress: 0.0 m Drilling/Coring/Underreaming Hrs.: 0.00 hrs Last BOP PT: 10/25/18 Next BOP PT: 11/15/18  
 Depth: @06:00 4,902.0 mBRT mbsf LAST CASING: 11-34" x 2,922.50 mbsf 4,890.0 mBRT Last BOP FT: 11/10/18 Next BOP FT: 11/15/18  
 Summary of Operation on 10-Nov: Mill window from 4,855.8mBRT to 4,862.5mBRT. POOH Tri mill assembly to 1,110mBRT.  
 Present Operation on 06:00 on 11-Nov: RIH primary Tri-Mill assembly from surface to 132mBRT.  
 Time Breakdown (00:00 - 24:00 on 10-Nov) mBRT: meter below rotary table mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation	Ditch Magnet Weight
0:00	6:00	6:00	OTHER	4,862.0	Mill the window with whipstock from 4855.8mBRT (Tide: 0.22m) to 4,862.0mBRT (Tide: 1.59m), Progress: 4.83m WOB: 30-80kN, 800gpm x 24.0MPa, 50-80rpm x 0 - 30kN. Boost riser 400gpm, Average ROP 1.0m/hr. Observe string stall out with 35kNm at 4,862mBRT. Release torque and pick up string. Work string at 4,862mBRT. Pump 5m³ of BAROLIFT sweep every 30min. No losses/gains. Maximum gas reading: 0.2% Observe increasing trend of return metal swarf at shaker. Observe cement at shaker at 4,858mBRT (Lag depth). Proportions of returns as of 6am: cement 70%, metal swarf 20%, formation 10%. No progress on milling at 4,862.0mBRT since 5:30am due to string stall out.	1:00 4.0kg 2:00 3.0kg 3:00 2.5kg 4:00 5.0kg 5:00 7.5kg 6:00 5.5kg
6:00	9:00	3:00	OTHER	4,862.0	Continue milling the window with varied parameter at 4,862.0mBRT - no progress. WOB: 0kN, 800gpm x 24.0MPa, 30-100rpm x 0 - 35kN. Boost riser 400gpm.	7:00 5.5kg 8:00 4.0kg
9:00	10:00	1:00	OTHER	4,862.0	Circulate hole clean at 800gpm with reciprocating string single.	9:00 2.5kg
10:00	11:00	1:00	OTHER	4,862.0	Continue drilling parameter. Observe slight increase in torque (<2.0kNm) at 4,858mBRT when reaming up/down. Reciprocate string and mill out at 4,858mBRT several times - still torque increase at 4,858mBRT when reaming up/down WOB: 0kN, 600gpm x 15.0MPa, 120rpm x 19-22kN. Boost riser 400gpm.	10:00 4.0kg 11:00 6.0kg
11:00	13:00	2:00	OTHER	4,862.5	Lower string and continue milling the window with varied parameters to 4,862.3mBRT (Tide: 1.37m), Progress: 0.52m WOB: 0kN, 600gpm x 15.0MPa, 120-130rpm x 19-35kN. Boost riser 400gpm. No progress on milling at 4,862.5mBRT due to string stall out. Make decision to POOH assembly and investigate Mill.	12:00 5.25kg 13:00 5.25kg
13:00	24:00	11:00	OTHER(N)	4,862.5	POOH back up Tri-Mill assembly to 1,110mBRT. Conduct BOP function test with Blue POD from tool pusher panel @3,814mBRT. Blue Lower annular UOK/Close recover normal condition. Find additional failure. Blue Lower pipe ram open function correctly but leak with 6.8l/min (minor leakage) Blue Middle pipe ram open function correctly but leak with 4l/min (minor leakage) Blue Inner Gas bleed open function correctly but leak 270l/min (severe leakage) Observe no losses/gains and no overpull while POOH.	Top whipstock: 4,855.1mBRT Bottom whipstock: 4,864.0mBRT [ BOP failure ] - Blue communication CH.B - Blue lower annular UOK/Close, Leak (Recovered) - Blue UIC/Open, Leak - Blue Booster/Close, Leak - Yellow Upper pipe ram/Open, Leak - Yellow LIK/Open, Close malfunction - Yellow OGB, Open, Leak  Additional failure on BOP function test - Blue Lower pipe ram open, minor leak - Blue Middle pipe ram open, minor leak - Blue Inner Gas bleed open, severe leak
24hr ditch magnet weight: 60.0 kg (total 66.12kg)						
[Offline activities] Continue investigation on diverter malfunction. Perform Air gun test with No.2 crane. Perform surface circulation test with adding 30ppb Fascial Premix to active mud (3m³/hr.) to confirm Aster effect on Fascial.						
[Vessel status] 07:00 - 10:00: Maintenance on Left #2 engine. WSOG status "Advisory".						

Time Breakdown (00:00 - 06:00 on 11-Nov) \* The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	4:30	4:30	OTHER(N)	4,862.5	POOH back up Tri-Mill assembly from 1,110mBRT to surface. Lay out back up Tri-Mill assembly. Observe no losses/gains and no overpull while POOH. Gauge on lead mill and follow mill worn out. Bottom half of dress mill worn out. Mill gauge size: Lead mill 9-13/16" (13/16" under gauge), follow mill 9-1/16" (1-9/16" under gauge), dress mill 10-9/16" (1/16" under gauge).
4:30	6:00	1:30	OTHER(N)	4,862.5	RIH primary Tri-Mill assembly from surface to 132mBRT. Flush inside Tri-Mill with water when picking up.

Bit	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (knt)	rpm	Total Rev. (kern)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
10	6.25	SLB	Tri-mill			2x 20/32"	4,855.1 : 4,862.5	7.4	5.78	0 : 80	30 : 130	30.10								

#	Whip stock	Anchor/Whip stock Assembly x 10-5/8" OD Trill mill x 8" OD Running Tool x 6-5/8" HWDP (1 jet, provided by SLB) x XO #1 x 8" UBHO Sub x XO #2 x XO #3 x 8-1/2" Coring DC (4stds) x XO #4 x 5-6/8" HWDP (3 studs) x Churchill drift catcher sub x XO #5 x 5" DP S-140 (23 studs) x XO #6 x 5-1/2" DP S-150 (50 studs) x XO #7 x 6-5/8" DP 2-140 (22 studs) x 6-5/8" DP UD-165
1	Whip stock	Anchor/Whip stock Assembly x 10-5/8" OD Trill mill x 8" OD Running Tool x 6-5/8" HWDP (1 jet, provided by SLB) x XO #1 x 8" UBHO Sub x XO #2 x XO #3 x 8-1/2" Coring DC (4stds) x XO #4 x 5-6/8" HWDP (3 studs) x Churchill drift catcher sub x XO #5 x 5" DP S-140 (23 studs) x XO #6 x 5-1/2" DP S-150 (50 studs) x XO #7 x 6-5/8" DP 2-140 (22 studs) x 6-5/8" DP UD-165

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St (10 <sup>3</sup> , 10')	API	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (In / Out)	K+	n	K	LGS	FIT 20/40 (mm)	
KNPP	2:00	4,856	1.33	59	13	27	8	7	10	2.5	0.5	10.1	0.3	131,000	0.25	15.0	0.25	15	13	21,400	0.41	3.18	1.5	
KNPP	13:00	4,862	1.33	60	13	29	8	7	10	2.3	0.5	10.5	0.3	138,000	0.3	15.0	0.3	13	11	21,400	0.39	3.71	1.3	

Mud Pump	14-P-220	5.00	gallon/stroke @97%		
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	0	0	0	0
2	6"(Booster)	0	0	0	0
3	6"	0	0	0	0

Personnel @24:00	Mud Materials on Board @24:00hrs
CDEX 10	Item Received Used Stock
MOJ Crew 98	Bartite (Bulk) 727.400
MOJ (SC, Other) 2	Caustic Soda 1,200
MWJ 15	Lime 200
Scientist 4	Soda Ash 275
	Caustic Potash 325
Telinite 2	Tel-Polymer DX / L / H 0/140/0
Oceanering 6	XCD-Polymer 1,050
SLB Cementing 1	Lignite NC 4,500
SLB WL 3	Clean Lube W 6,000
Geoservices 6	Tel Clean W 6,400
BHGE 0	Astex-S 5,300
M-I SWACO 4	Deformer 30C 400
Gyrodatta 1	Tell DD 3,200
SLB Whipstock 2	Bi-Carbonate 1,250
SLB LWD 2	Citric Acid 2,275
SLB DD 2	Tan Cal M / F / FF 1,020 / 210 / 510
SLB Seismic 2	Telinite GXL 684
AFGlobal 2	Treat-HS 9,200
Drillchem 1	Mud Seal P 130
Total 163	Tel Plug C / M / F 500 / 500 / 500
	Tel Stop P / G 500 / 260
	Balolift 150
	Driscol D 0
	Tel Flow P 0
	Poro Seal 2,310
	Steel Seal 50 2,250
	KCI 7,000
	NaCl 6,000
	Fraceal 4,000
	Stopseal 8,000
	Bentonate(Bulk) 46,000

Shale Shaker	Centrifuge: hrs
No.1 20, 80 x 2ea	No.4 20, 80 x 2ea
No.2 20, 80 x 2ea	No.5 20, 80 x 2ea
No.3 20, 80 x 2ea	No.6 20, 80 x 2ea

Materials Stock on Board @24:00	Mud Volume @24:00
Item Unit Stock Used Received	Mud Volume (m3)
Fresh Water m3 232.0 91.2 102.7	KNPP mud (1.33) 472
Potable Water m3 317.0 8.0 0.0	Old Mud(Contami) 359
Drill Water m3 1,847.0 13.0 0.0	Slug mud 9
Fuel m3 6,645.0 50.7 0.0	KNPP mud (1.37) 59
Lube, Oil Ltrs 121,500 700 0	
Helix 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	
	total 699

Boat Information @24:00	Weather Information
Boat Name Status Time @Chikyu	Time Weather Temp. (degC) Barometer Wind
#8 Meiji-maru Chikyu 6:00	Air : SW Speed (m/s) Dir. (deg) Gust (m/s)
Akatsuki Shingu -> Chikyu 13:00	Wave Height (m) : Dir. (deg) Period (s) Current Speed(knt) : Dir. (deg) Visibility (km)
	24:00 bc 18.0 : 21.8 1020.7 15.9 1 18.0 2.1 : 0 5.5 1.1 : 255 22.0

Today's Schedule: RIH primary Tri-Mill assembly to 4,862mBRT. Mill casing window.  
 Reported by: A. Suzuki / T. Nishiyama  
 Approved by: T. Saruhashi