

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: **1/Nov/2018**
 Depth: @24:00 **4,902.0** mBRT mbsf Progress: **0.0** m Drilling/Coring/Underreaming Hrs.: **0.00** hrs Last BOP PT: **10/25/2018** Next BOP PT: **11/15/2018**
 Depth: @06:00 **4,869.0** mBRT mbsf LAST CASING: **11-3/4"** x **2,922.50** mbsf **4,890.0** mBRT Last BOP FT: **10/25/2018** Next BOP FT: **11/15/2018**
 Summary of Operation on **31-Oct**: **R/D to 4,734mBRT. Bottoms up. 11-3/4" & 13-3/8" CSG pressure test. DO cement to 4902mBRT. Bottoms up.** Last Glycol 35gal Inj: **30** October 2018
 Present Operation @ 06:00 on **1-Nov**: **Laying out SES assembly.** mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:15	2:15	W&R		Continue to ream down from 4,647.0 to 4,734.0mBRT. Take weight at 4,734.0mBRT with 60kN down (32m above landing collar depth). HL: 3150-3200kN, WOB: 0-30kN, MP: 200gpm x 4.8MPa, HPS: 30rpm x 11-13kNm. Replace leaking suction module cover on mud pump #2 - back to operational.
2:15	8:15	6:00	C&C		Circulate hole clean at 900gpm on string and 400gpm on riser booster. Pumped Vol: 230m3, MW Out: 1.30+ HL: 3200-3230kN, MP: 900gpm x 27-28MPa, HPS: 30rpm x 9-10kNm. 255m3, 1.28 Mud weight out drop to 1.30+sg after pumping 230m ³ . Receive light mud to reserve tank #6 and active tank #3. 300m3, 1.29 Total 105m ³ of light weight mud received. 340m3, 1.32+ Observe returned mud weight 1.34sg and MW in 1.34sg after pumping 660m ³ . Run centrifuge to reduce MW to 1.33sg. 680m3, 1.33+ Total pumped volume: 1,648m ³ 960m3, 1.33
8:15	9:00	0:45	BOPE		Take SCRs through riser. 1260m3, 1.34
9:00	10:45	1:45	BOPE		Pressure test 11-3/4" liner and 13-3/8" casing to 3,300psi for 5mins. 1550m3, 1.33 Pick up and make up SES assembly. Install Lo-Torc valve and cement hose. Line up surface lines. Flush test lines (2bbl through choke line, 5bbl through cement hose). Pressure test lines to 3,800psi for 5mins - good test. Close upper annular. Pressure test 11-3/4" liner and 13-3/8" casing to 3,800psi for 5mins - good test. 13.5bbl pumped, 13.2bbl returned.
10:45	11:15	0:30	BOPE		Take Choke/Kill line friction.
11:15	12:00	0:45	BOPE		Remove cement hose and Lo-Torc valve. Lay out SES assembly on deck.
12:00	14:00	2:00	CMT		Drill out cement from 4,734 to 4,767mBRT. HL: 3150-3250kN, WOB: 0-70kN, HPS: 60rpm x 12-15kNm (Off bottom torque: 12-14kNm), MP: 800gpm x 22.2MPa. Observe no cement from 4,738 to 4,767mBRT. Condition pH by circulating pH9.6 of mud.
14:00	14:15	0:15	CMT		Tag 11-3/4" Landing collar at 4,767mBRT. Increase HPS torque to 17kNm. Stop rotation and confirm 11-3/4" Landing collar by taking weight of 90kN.
14:15	16:15	2:00	CMT		Resume drill out cement from 4,767 to 4,789mBRT. HL: 3200-3250kN, WOB: 0-80kN, HPS: 60rpm x 12-20kNm, MP: 800gpm x 22.4MPa. Observe HPS stall during from 4782 to 4785mBRT.
16:15	18:30	2:15	C&C		Break circulation and bottoms up. HL: 3200-3300kN, HPS: 10-12kNm, MP: 800gpm x 22.4MPa.
18:30	21:00	2:30	CMT		Resume drill out cement from 4,789 to 4,879mBRT. HL: 3250-3350kN, WOB: 0-80kN, HPS: 60rpm x 12-19kNm, MP: 800gpm x 22.6MPa. It is difficult to find out the top of cement inside 11-3/4" liner because there were no obstacle section while drilling.
21:00	22:00	1:00	CMT		Tag 11-3/4" Float collar at 4,879mBRT and drill out same. HL: 3250-3350kN, WOB: 0-80kN, HPS: 60rpm x 13-20kNm, MP: 800gpm x 22.7MPa. Stall HPS.
22:00	22:15	0:15	CMT		Resume drill out cement from 4,880 to 4,892mBRT. HL: 3250-3350kN, WOB: 0-60kN, HPS: 60rpm x 14-17kNm, MP: 800gpm x 22.3MPa.
22:15	22:30	0:15	CMT		Tag 11-3/4" Guide shoe at 4,892mBRT and drill out same. HL: 3300-3400kN, WOB: 0-60kN, HPS: 60rpm x 12-18kNm, MP: 800gpm x 22.4MPa.
22:30	22:45	0:15	CMT		Add 64m3 of 1.33sg KNPP mud (40gpp Fracseal) to active system and pump down the string. Resume drill out cement from 4,892 to 4,902mBRT (10m below guide shoe). HL: 3350-3400kN, WOB: 0-60kN, HPS: 60rpm x 14-19kNm, MP: 800gpm x 22.4MPa.
22:45	23:30	0:45	C&C		Break circulation and flow check 15min. No gas observed.
23:30	24:00	0:30	C&C		Circulate and bottoms up, on going. HL: 3350-3400kN, HPS: 10-30rpm x 13-17kNm, MP: 800gpm x 22.6MPa. [BOP failure] - Blue communication C.H.B. - Blue lower annular UO/Close, Leak - Blue UIC/Open, Leak - Blue Booster/Close, Leak - Yellow Upper pipe ram/Open, Leak - Yellow LIK/Open, Close malfunction

Time Breakdown (00:00 - 06:00 on **1-Nov**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	4:00	4:00	C&C		Complete circulating bottoms up. HL: 3350-3400kN, HPS: 10rpm x 10-12kNm, MP: 800gpm x 22.6MPa on string, 250gpm on riser boost. Maximum total gas: 0.04% during circulation. Surface loss over shaker: 3-4m3/hr. Even mud weight in/out at 1.33sg. Fing blocky cavings below 4,896mBRT (lag depth) - like large cuttings (>~1 cm). Abundance of those is less than a few %. The blocky cuttings are continuously observed during circulation. Since edge of the cuttings is slightly rounded, those would not be formed recently.
4:00	6:00	2:00	BOPE		Perform 11-3/4" Shoe Bond Test (SBT). Pick up and make up SES assembly. Install Lo-Torc valve and cement hose. Line up surface lines. Flush test lines (2bbl choke line, 5bbl cement hose). Pressure test lines to 2,000psi for 5mins - good test. Close upper annular. Pressure up the well at 0.25bpm to 500psi. Stop pressurizing at 500psi as decreasing pressure build up trend observed. Pressure stabilize at 400psi after 5mins. Bleed off pressure - 4.3bbl pumped, 2.5bbl returned. LOT result: 1.370sg EMV (280psi at surface with 1.33sg)

Bit	Size	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-	WOB (kN)	rpm	Total Rev.	Dull Condition								
Bit	Size						From	To	Min.	Max.	Min.	Max.	Inner	Outer	Dull	Loc	B	G	O.D.	RP
2	10.625	Smith	XR+CPS	117	RJ8093	1 x 13, 3x 16			0.0											

#3	Drill Out	Hook Wt. (kN) @24:00hrs	4,902.0	mBRT
10-5/8"	10-5/8" Bit (XR+CPS Milled Tooth Bit) x Bit Sub with float x XO x 6-3/4" DC (3stds) x 6-1/2" Jar x 6-3/4" DC (1std) x XO x 5.68" HWDP (3stds) x XO x 5-1/2" DP S140 (16stds) x XO x 5-1/2" DP S150 (56stds) x XO x 6-5/8" DP Z140 (22stds) x 6-5/8" DP UD-165			

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St (10 ¹⁰ /10 ⁷)	API	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min / 5 min	
KNPP	21:30	Pit	1.33	64	15	28	8	7	10	2.5	0.5	9.6	0.5	142.000	0.3	15.0	0.25	13	11	23.600	0.45	2.48	1.0	9	75

Mud Pumps	14P-220	@	4734.0	mBRT	5.00	gallon/stroke @97%	
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"	80	400				
2	6"(Booster)	60	300	22.0			
3	6"	80	400		85	67	

Personnel @24:00	Mud Materials on Board @24:00hrs	Used	Stock
CDEX 9	Barite (Bulk) 792.700		
MOJ Crew 99	Caustic Soda 1,200		
MOJ (SC, Other) 2	Lime 200		
MWJ 14	Soda Ash 1,325		
Scientist 2	Caustic Potash 2,400		
Telinite 2	Tel-Polymer DX / L / H 5,500 / 1,060 / 0		
Oceanengineering 6	XCD-Polymer 1,800		
SLB Cementing 1	Lignate NC 4,500		
SLB WL 3	Clean Lube W 9,000		
Geoservices 4	Tel Clean W 6,400		
BHGE 0	Astex-S 5,800		
M-SWACO 4	Deformer 30C 400		
Gyrodata 1	Tel DD 3,200		
HAL UR 1	Bi-Carbonate 1,250		
SLB Whipstock 2	Citric Acid 675		
SLB LWD 2	Tan Cal M / F / FF 1,020 / 210 / 510		
SLB DD 1	Telinite GXL 684		
AFGlobal 2	Treat-HP 9,200		
	Mud Seal P 130		
	Tel Plug C / M / F 500 / 500 / 500		
	Tel Stop P / G 500 / 260		
	Balofit 163		
	Driscoll D 0		
	Tel Flow P 0		
	Poroseal 2,310		
	Steel Seal 50 4,250		
	KCI 13,000		
	NaCl 10,000		
	Fracseal 10,000		
	Stopseal 8,000		
	Bentonate(Bulk) 46,000		

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

Materials Stock on Board @24:00	Mud volume @24:00
Fresh Water m3 290.5	KNPP mud (1.33) 424
Potable Water m3 278.0	Old Mud(Contami) 359
Drill Water m3 1,942.0	Slug mud 4
Fuel m3 7,116.5	
Lube, Oil Ltrs 125,400	
Heli Fuel Ltrs 0.0	
Cement "GWC" ton 186.0	
Cement "G" ton 97.0	

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

Weather Information	Wave	Current	Visibility									
Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	(km)
24:00	bc	16.5	1018.7	9.4	2	10.9	1.6	220	6.0	1.5	204	22.0

Today's Schedule: Perform 2nd LOT. POOH 10-5/8" drill out BHA. Reported by: A. Suzuki / T. Yokoyama Approved by: T. Ikawa