

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 : **20/Nov/2018**
 Depth : @24:00 **4,989.0** mBRT **3021.5** mbsf Progress : **0.0** m Drilling/Coring/Underreaming Hrs. : **0.00** hrs Last BOP PT: **11/15/18** Next BOP PT: **12/6/18**
 Depth : @06:00 **4,989.0** mBRT **3021.5** mbsf LAST CASING : **11-3/4"** x **2,922.60** mbsf **4,990.0** mBRT Last BOP FT: **11/15/18** Next BOP FT: **11/22/18**
 Summary of Operation on **19-Nov** : Continue Drill 8-1/2" pilot hole to 4,989mBRT. Circulation and bottoms up. Wiper trip w/NSD to 4,935mBRT
 Present Operator @ 06:00 on **20-Nov** : Prepare for reaming down.
 Time Breakdown (00:00 - 24:00 on **19-Nov**)
 mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:15	6:15	DRL	4,924.0	Drill 8-1/2" pilot hole from 4,924BRT to 4,940mBRT. Sliding parameter: GTF:180deg. WOB:50-80kN, Motor 134rpm, 480gpm x 15.8MPa (NSD)Observe pressure drop from 17MPa to 7MPa while NSD manifold operating by AFGlobal engineer for #3 NSD stand connection While fill up the stand by fill up line, stand pipe pressure not able to increase. Suspect Mud weight too heavy for using mixing pump For equalizing pressure between NSD and stand pipe, adjust flow by flow control valve. Stand pipe pressure increase to 15MPa:OK Meanwhile: Boost Riser w/400gpm x 3.8MPa, Pump 5m3 of 12ppb Fracseal
6:15	10:15	4:00	DRL	4,963.0	Drill 8-1/2" pilot hole from 4,940BRT to 4,963mBRT. Rotary parameter: WOB:30-80kN, 174-184rpm (HPS 40-50rpm, Motor 134 rpm) x 13-15kNm, 480gpm x 16.7MPa, Take survey #5 Meanwhile: Boost Riser w/400gpm x 3.8MPa, After survey pump 5m3 of 12ppb Fracseal
10:15	14:30	4:15	DRL	4,969.0	Drill 8-1/2" pilot hole from 4,963BRT to 4,969mBRT. Sliding parameter: MTF 150deg. WOB:50-80kN, Motor 134rpm, 480gpm x 14.9MPa, Take survey #6 (NSD)Observe pressure drop from 17MPa to 3.5MPa while NSD manifold operating by AFGlobal engineer for #4 NSD stand connection While fill up the stand by fill up line(Keep open valve 2minutes), stand pipe pressure not able to increase as same as #3 connection For equalizing pressure between NSD and stand pipe, adjust flow by flow control valve. Stand pipe pressure increase to 15MPa :OK Meanwhile: Boost Riser w/400gpm x 3.8MPa, Pump 5m3 of 12ppb Fracseal
14:30	19:15	4:45	DRL	4,989.0	Drill 8-1/2" pilot hole from 4,969BRT to 4,989mBRT. Rotary parameter: WOB:50-80kN, 194rpm (HPS 60rpm, Motor 134 rpm) x 15-16kNm, 480gpm x 16.5MPa Take survey #7 and confirm inclination 0.74deg at 4,969mBRT as end of sliding depth: OK Meanwhile: Boost Riser w/400gpm x 3.8MPa, Pump 5m3 of 12ppb Fracseal
19:15	23:00	3:45	C&C	4,989.0	Circulation and bottoms up Pump 3m3 of 12ppb Fracseal Meanwhile: (19:30-19:40)Conduct downlink test w/375-480gpm x 12.5-14.0MPa: OK
23:00	24:00	1:00	W&R	4,989.0	Conduct wiper trip w/NSD from 4,989mBRT to 4,935mBRT Work pipe 2times. HK:3.250kN(up), 3.180kN(down), 134rpm (Motor 134 rpm), 480gpm x 15.0MPa Observe no excessive drag and overpull (NSD)Observe pressure stable while NSD manifold operating by AFGlobal engineer. Adjust by flow control valve, Difference 17 to 14.5MPa: OK

	MD (m)	Inc (deg)	Azimuth (deg)
#1*	4864.7	3.7	142.94
#2*	4871.0	4.01	145.27
#3	4887.1	4.15	139.45
#4	4903.7	4.08	138.59
#5	4942.1	1.72	309.81
#6	4948.0	2.03	312.75
#7	4988.8	0.74	15.19

* Observe magnetic interference.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	W&R	4,989.0	Continue wiper trip w/NSD from 4,935mBRT to 4,886mBRT Work pipe 2times. HK:3.360kN(up), 3.180kN(down), 134rpm (Motor 134 rpm), 480gpm x 11.0MPa Observe no excessive drag and overpull (NSD)Observe pressure stable while NSD manifold operating by AFGlobal engineer. (Adjust by MP#2, Difference 12.0 to 9.0MPa): OK
1:15	1:45	0:30	W&R	4,989.0	Continue wiper trip w/NSD from 4,886mBRT to 4,864mBRT Work pipe 2times. HK:3.320kN(up), 3.120kN(down), 134rpm (Motor 134 rpm), 480gpm x 10.9MPa 1st reciprocation observe no drag/overpull, but take weight 200kN at 4,873mBRT in 2nd round on lowering string. Pick up string with 500kN but stacked.
1:45	6:00	4:15	SP	4,989.0	Work on pipe at 4,873mBRT. Overpull (without jar working) with 500kN for 6 times. Jarring up for 2 times and release pipe. Pick up to 4,850mBRT and lower string without rotation and pumping. Take weight at 200kN at 4,875mBRT. Lower string with rotation 10rpm (without pumping) and take weight at 4,869mBRT. Pick up string. Ream down with 30rpm x 12kNm and 200gpm x 5.0MPa. Take weight at 4,873mBRT. Pick up string. Ream down with 40rpm x 10kNm and 100gpm x 3.2MPa. Take weight 200kN at 4,873mBRT. Pick up string. Increase pump rate to compare with parameters while drilling at same depth. Ream down with 30rpm x 12kN and 400gpm x 11.4MPa. Pass through 4,875mBRT. Reciprocate with 60rpm x 14kN and 100gpm x 3.2MPa from 4,881-4,884mBRT (Stabilizer locate from 4,873-4,876mBRT) for 20times. Confirm no drag/overpull Reciprocate with 60rpm x 14kN and 100gpm x 3.3MPa from 4,870-4,885mBRT for 3times. Confirm no drag/overpull. Reciprocate without rotation and pumping from 4,853-4,885mBRT for 2 times. Take weight 100kN at 4,884mBRT. Prepare for making up 6-5/8" DP UD-165 stand and ream down(on going).

Bit No.	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
3	8.5	Smith	XR-N	117	RJ8198	3x20/32	4,867.0 - 4,989.0	122.0	25.31	0 - 100	134 - 174	235.80								

#10	8.5" KO	3-1/2" Bit x Motor (w/1.5" bent angle) x 8-1/8" Stab (SLB) x Float Sub w/ Float x 6-3/4" Pony NMDC x XO x Telescope 675 x 6-3/4" NMDC x 6-3/4" UBHO x 6-3/4" DC (3 stds) x 6-1/2" Jar x 6-3/4" DC (2 Jts) x XO x 5.68" HWDP (3 stds) x XO x 5-1/2" DP S-140 (25 stds) x XO x 5-1/2" DP S-150 (49 stds) x XO x 6-5/8" DP Z-140 (22 stds) x 6-5/8" DP UD-165 x 6-5/8" DP UD-165 with NSD
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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	FTT 20/40 (mm) 0 min / 5min
KNPP	5:00	4,936	1.37	57	21	30	10	9	12	2.7	0.6	10.1	0.2	135,000	0.40	16.5	0.25	15	11	22,500	0.42	3.14	2.10	
KNPP	17:00	4,980	1.37	58	23	33	12	9	13	2.6	0.6	10.0	0.2	138,000	0.50	16.5	0.25	15	10	20,900	0.47	2.30	2.00	

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	48	240		DC DP
2	6"(Booster)	80	400	17.0	
3	6"	48	240		51 40

From	To	Lithology of cuttings
4905.0	4915.0	CMT 20-30%, Silty claystone 70-80%
4915.0	4925.0	Silty claystone 80-85%, claystone 5-10%, CMT 5-10%
4925.0	4935.0	Silty claystone 60-65%, claystone 30-40, CMT 1r-5%
4935.0	4989.0	Silty claystone 60-70%, Claystone 30-40% CMT 1r

No.	20_Dummy x 2	No.4 20_50 x 2ea	No.1 off
No.2	20_50 x 2ea	No.5 20_Dummy x 2	No.2 off
No.3	20_Dummy x 2	No.6 20_50 x 2ea	No.3 off

Item	Unit	Stock	Used	Received
Fresh Water	m3	341.5	89.7	102.2
Potable Water	m3	305.5	6.0	0.0
Drill Water	m3	1,748.0	10.0	0.0
Fuel	m3	6,227.7	49.6	0.0
Lube Oil	Ltrs	116,900	1,100.0	0.0
Heil 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 Departed	Arrived
#8 Meiji-maru	Chikyu	ETD:3:00	ETA:8:30
Akatsuki	Chikyu		

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	bc	16.5	21.4	1016.3	6.6	301	8.2
						Height (m) : 1.2	Dir. (deg) : 30
						Period (s) : 5.0	Speed(knt) : 0.7
						Dir. (deg) : 225	22.0

Today's Schedule: Ream down to bottom. POOH 8-1/2" KO assembly.

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