

Chikyū DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 52

Site Name : C0002 Hole Name : C0002F Lat. : 33° 18.0507'N Long. : 136° 38.2029'E
 Depth : @24:00 2869.0 mBRT 841.5 mbsf Progress : m Seabed Depth : 1,867.50 mBRT RT-MSL : 25.5 m
 Depth : @06:00 2818.0 mBRT 850.5 mbsf Drilling/Coring/Jetting Hrs. : 0.00 hrs LAST CASING : 20" x 860.30 mbsf (2,827.8 mBRT)
 Summary of Operation on 3-Nov : Continue displace riser. RIH to 2733mBRT. Drill out cement to 2805.0mBRT. Pressure test 20"CSG. Continue drill out cement.
 Present Operation @ 06:00 on 4-Nov : Running back to bottom at 2818.0mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on 3-Nov

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	C&C	Continue displacing riser with 1.12sg KNPP mud. 22,200strokes for bottom up. Take return of contaminated sea water from 18,000 strokes. Divert to reserve tank. Take return of new mud from 22,400 strokes. Stop circulation to line up system. Fill up sand trap to the pit. Resume pumping and wash down to tag cement at 300gpm, 20RPM. CMC in mid stroke. Line up booster with 80gpm (400gpm). Tag top of cement at 2316mBRT with 45N.
3:45	5:00	1:15	CMT	Drill out cement from 2316 to 2390mBRT. WOB: 0-20kN. Pump: 100-140gpm (500-700gpm) x 14.6MPa, HPS: 20-50rpm x 1.2-1.4kN-m. Wash down to 2428mBRT to check cement is cleared. Pull and rack back 4 stds of 5-1/2" S-150 stand to replace to 5" S-140 stand. Run back in with 5" S-140, take weight 15kN @ 2733mBRT (TOC of #1 CMT plug). Engage to HPS and ream down to 2806mBRT.
5:00	6:30	1:30	TRIP	Install Halliburton geograph and set depth. WOB: 35-50kN. Pump: 145gpm x 18.6MPa, HPS: 65rpm x 11kN-m. ROP: 20-30m/hr.
6:30	8:45	2:15	TRIP	Circulate bottom up, 140gpm x 17.0MPa. Drop carbide and check lag count by Geoservices, gas was detected 0.01% at 27230cst.
8:45	16:15	7:30	C&C	Pressure test 20"CSG. Rig up FOSV x SES. Close upper annular. Pressure test, 300psi x 5min (pump: 1.2bb) and 1400psi x 10min (pump: 5.1bb) - OK (no injection). Meanwhile, change shaker screen size of No.4, 5 and 6 (#84 to #120).
16:15	20:45	4:30	C&C	Attempt take CLFP and SCR. Pressure sensor on choke is malfunction, unable to take CLFP and SCR. Service pressure sensor of choke manifold. Continue drill out cement to 2809.0mBRT. Take CLFP and SCR. WOB: 35-60kN. Pump: 150gpm x 19.0MPa, HPS: 65rpm x 5-14kN-m. ROP: 10-30m/hr.
20:45	22:00	1:15	BOPE	Offload 10ea full skips to KAIYU.
22:00	23:00	1:00	RR	Notes: (2:45) Tensioner tension was increased to 8300kN after displacing hole with 1.12sg mud. (3:50) ROV check for riser leak, confirm no leak. (12:00) ROV inject 5gal of mono ethylene glycol to LMRP and BOP connectors.
23:00	24:00	1:00	CMT	Sea current @ Chikyū: 0.6knot, 5miles SW: 1.75knot. Refer sea current sheet for more detail.

	Angle	Deg
LFJ	0	0.00
LMRP	130	0.25
BOP	160	0.25

Bulls eye reading @0-51

	30	40	50	(spm)
MP2	275	360	450	(psi)
MP3	255	360	450	(psi)

	30	40	50	(spm)
CLFP	30	40	50	(psi)
MP2	225	260	300	(psi)
MP3	225	260	300	(psi)

From	To	Hrs	Code	Detail of Operation
0:00	0:45	0:45	CMT	Continue drill out cement to 2818.0mBRT. WOB: 35-60kN. Pump: 150gpm x 19.0MPa, HPS: 65rpm x 5-14kN-m. ROP: 10-30m/hr.
0:45	2:15	1:30	C&C	Circulate hole clean, 750gpm, 19.8MPa. Confirmed cutting return to shaker.
2:15	2:45	0:30	BOPE	Rig up surface line for casing pressure test, line up cement unit drill string and choke & kill lines down.
2:45	3:00	0:15	BOPE	PIU string, observed 280kN of drag.
3:00	3:15	0:15	BOPE	Rig down surface lines and line up HPU for circulation.
3:15	4:00	0:45	C&C	Circulate hole clean with 850gpm, 24.0MPa, 20rpm, boost riser at 400gpm, 3.0MPa. Confirm cutting on shaker.
4:00	4:30	0:30	BOPE	Rig up surface line for casing pressure test. Boost riser at 400gpm.
4:30	5:15	0:45	BOPE	Flush lines, pressure test lines with 300/1400psi for 5/10min, pressure test 20" casing with 300/1400psi for 5/15min -good test, pumped 1.2bb) for 300psi, 5.2psi for 1400psi, no losses. Boost riser at 400gpm.
5:15	5:45	0:30	BOPE	Offload 3ea full cutting skip to Shincho.
5:45	6:00	0:15	BOPE	Rig down cement line, 180kN of over pull was observed when picked up string, engage to HPS. Run back to bottom.
6:00	6:00	0:00	BOPE	Notes: Kaiyu departed to Shingyu at 4:00. Sea current @ Chikyū: 0.8knot, 5miles SW: 1.55knot.

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (m)		Meter-age	Hrs.	WOB (kN)		rpm		Total Rev. (krev)	Dull Condition							
							From	To			Min.	Max.	Min.	Max.		Inner	Outer	Dull	Loc.	B	G	O.D.	RP
1	17	NOV	PDC	M422	E178656	6 x 14				4.74				38.0									

BHA Record : 17"RSS : 17"Bit x Sleeve Stab x Geoplot0900 wearbit Stab x Flex Collar x 16-7/8" IL Stab x 8"DGR x 8"PWD x 8"HCIM x HOC x MWD Down screen x Float Sub (w/float) x 8-1/2"DC(12) x 8" Hydraulic Jar x 8-1/2"DC(2) x 10 x 5.65"HWD(12) x 10 x 5.12"DP S-140 62 stds x 5-1/2"DP S-150

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (1hr, 10)	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp (In, Out)	K+	n	K	LGS		
KNPP	04:00	2,530	1.12	63	23	21	4	5	4.5	0.5	9.7	0.2	79.900	Tr	0	6	0.5	20	13	28,800	0.61	1.00	0.3
KNPP	13:30	2,775	1.12	73	26	22	4	6	4.4	0.5	12.1	0.2	79.500	Tr	0	6	0.5	18	11	28,000	0.62	0.59	0.3
KNPP	20:30	2,805	1.12	83	32	26	4	6	4.5	0.5	12.1	0.3	79.500	Tr	0	7	0.5	16	10	28,000	0.63	1.11	0.3

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"						
2	6"	150	750	19.0	20	17	
3	6"						

From	To	Lithology of cuttings

Item	Unit	Received	Used	Stock
Fresh Water	m3	92.8	84.3	315.3
Potable Water	m3	0.0	7.2	267.5
Drill Water	m3	0.0	1.1	1,870.1
Fuel	m3	0.0	48.3	6045.8
Lube Oil	Ltrs	0.0	1,000.0	89,500.0
Hull Fuel	Ltrs	0.0	0.0	0.0
Cement "GW"	ton	0.0	0.0	82.0
Cement "G"	ton	0.0	0.0	161.0

Boat Name	Status	Time @Chikyū
Kaiyu	Chikyū	-
Shincho-manu	Current survey @ 5miles SW to Chikyū	-
Hakuryu-manu		19:40

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	r	Air : 23.9	(hPa) 1015.7	Speed (m/s) : 8.1	Height (m) : 1.0	Speed(knt) : 0.5	(km) 117.0

Today's Schedule : Drill out cement and start side tracking, continue drill 17" hole section.

Reported by : S.Kataoka / S.Yamada
 Approved by : Y.Uemura