

Chikyū DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. :

61

Site Name : C0002 Hole Name : C0002N Lat. 33° 18.0607'N Long. 136° 38.2029'E Report Date : 13/Nov/2013
 Depth : @24.00 4260.0 mBRT 2292.5 mbf Progress : 256.00 m Sealed Depth : 1,967.60 mBRT RT.MSL : 28.6 m
 Depth : @06.00 4287.5 mBRT 2330.0 mbf Drilling/Coring/Setting Hrs. : 12.25 hrs LAST CASING : 20" x 860.30 mbsf (2,827.8 mBRT)
 Summary of Operation on 13-Nov : Spot LCM and countermeasure Lost circulation. Drill 17" LWD hole. Continue drill 17"LWD hole. Circulation and bottoms up.
 Present Operation @ 06:00 on 13-Nov : Continue drill 17"LWD hole. Circulation and bottoms up.
 Time Breakdown (00:00 - 24:00) on 12-Nov : mBRT: meter below rotary table
 mbsf: meter below sea level

From	To	Hrs	Code	Detail of Operation
0:00	1:45	1:45	C&C	Continue monitor mud loss volume. 190spm x 32 MPa with booster 80spm x 4.0MPa @3999.5mBRT. Mud loss 15m3/hr (dynamic). Change line and monitor with trip tank. Mud loss 6m3/hr (static). 190spm x 10.1MPa with booster 80spm x 3.7MPa @3997.5mBRT. Mud loss 6m3/hr. Meanwhile, make 10m3 LCM mud (10%).
1:45	2:30	0:45	C&C	Spot 10m3 LCM mud. Run back bottom and spot LCM mud @4004mBRT. Pick up to 3998mBRT and monitor loss volume with trip tank. Mud loss 1m3/hr. Change line and monitor with trip tank. Mud loss 6m3/hr (static). Sweep hi-vis mud 15m3 x 3 times (every 2000cts) @4004mBRT and bottoms up. Meanwhile, make 10m3 LCM mud (10%). Observe caving cutting come back.
2:30	7:30	5:00	C&C	Stop pumps and flow check with trip tank. confirm Mud loss stop. Resume drill 17"LWD hole 4004.2 to 4085.0mBRT (2036.7-2117.5mbsf). Set auto drill ROP 50m/hr. Booster: 80spm x 3.8MPa. WOB: 60-100kN, 190spm x 30.1MPa, 180rpm x 15-28kN-m. ROP: 42m/hr. Mud Gas Max: 2.5%, C1: 1.94%, C2: 0.03% @4085.0mBRT, base: 0.8-1.0%.
7:30	7:45	0:15	C&C	Flow check with trip tank. Mud loss 27m3/hr (Static).
7:45	11:00	3:15	DRL	Spot 5m3 LCM mud (10%) and flow check. Mud loss gradually decrease (static). Flow check by pit level filling up booster. 3.6m3 / 10min (22.8m3/hr) 11:50-12:00 Flow check by pit level filling up booster. 4.4m3 / 10min (26.4m3/hr) 12:10-12:20 Flow check by pit level filling up booster. 2.2m3 / 10min (13.2m3/hr) 12:20-12:30
11:00	11:30	0:30	C&C	Resume drill 17"LWD hole 4085.0 to 4138mBRT (2117.5-2170.5mbsf, 53m). Set auto drill ROP 50m/hr. Booster: 80spm x 3.8MPa. WOB: 50-100kN, 190spm x 31.3MPa, 180rpm x 10-34kN-m. ROP: ave 49m/hr. Mud Gas Max: 3.16%, C1: 2.54%, C2: 0.023% @ 4114.0mBRT, base: 0.6-1.0%.
11:30	12:30	1:00	C&C	No static loss.
12:30	17:00	4:30	DRL	Mud pumps #3 Cylinder 3. Change out liner. Resume drill 17"LWD hole 4138 to 4260.7mBRT (2170.5-2293.2mbsf, 122.7m). Set auto drill ROP 50m/hr. Booster: 80spm x 3.6MPa. WOB: 50-100kN, 190spm x 31.5MPa, 180rpm x 10-34kN-m. ROP: ave43m/hr. Mud Gas Max 1.72%, C1: 1.31%, C2: 0.02% @4179.5mBRT, base: 1.0-1.2%.
17:00	18:15	1:15	RR(N)	Change liner of Mud pump #3.
18:15	22:15	4:00	DRL	Make connection. Sweep hi-vis mud and start drilling, on going. Meanwhile, make up 13.3m3 CSG 3m pup joint below CSG hanger joint in auxiliary well by Weatherford and Tenaris Engineer. Boat: Shincho-maru: Offload cutting skip. Kaiyu: Loading mud chemical, on going. Notes: (06:25-10:50) Dive ROV and inject glycol 6.3gal into LMRP and Wellhead connector. Sea current @ Chikyū 0.5-1.2knot, 5mlies SW: 0.5 -1.6knot.
22:15	23:30	1:15	RR(N)	
23:30	24:00	0:30	DRL	

	Angle	Deg
LFJ	0	0.00
LMRP	314	1.00
BOP	160	0.50

Bulls eye reading @8:31

PCSD	directional	19.35
PMID	pressure	14.79
EWI	resistivity	12.29
DGR	gamma ray	9.84

Lost circulation rate (Dynamic loss)		Survey			
Time	m3	MD (m)	Inc (deg)	Azimuth (deg)	DLS (deg/30m)
13:00-14:00	-13.00	3887.57	0.31	300.87	0.174
14:00-15:00	-12.00	3958.21	0.06	111.53	0.157
15:00-16:00	-12.00	3996.52	0.22	133.05	0.130
16:00-17:00	-6.00	4035.15	0.12	133.20	0.078
17:00-18:00	-6.00	4073.33	0.20	202.74	0.152
18:00-19:00	-5.04	4111.48	0.19	233.67	0.082
19:00-20:00	-6.44	4144.58	0.14	244.78	0.054
20:00-21:00	-5.08	4197.91	0.22	244.60	0.065
21:00-22:00	-5.46	4235.25	0.31	274.39	0.102
22:00-23:00	-5.14	4277.76	0.40	240.57	0.150
23:00-24:00	-3.70				

From	To	Hrs	Code	Detail of Operation
0:00	1:15	1:15	DRL	Continue drill 17"LWD hole 4260.7 to 4297.5mBRT (2170.5-2330mbsf). Set auto drill ROP 50m/hr. Booster 80spm x 3.6MPaPa. WOB: 20-110kN, 190spm x 32.8MPa, 180rpm x 18-30kN-m. Rop: ave 41.5m/hr. Mud Gas Max: 2.33%, C1: 1.85%, C2: 0.016% @4254.5mBRT, base: 1.0-1.2%. No static loss.
1:15	6:00	4:45	C&C	Circulation and bottoms up. Sweep hi-vis mud 15m3 x 3 times (every 2000cts) @4297.5mBRT and bottoms up. 190spm x 32.0MPa, booster 80spm x 3.5MPa. SPP is degassed to 31.0MPa gradually. Note: No dynamic loss is confirmed after sweep out hi-vis mud at 5:45-6:00. (w/190spm x 31Mpa + 80 spm booster). Sea current: Chikyū 1.2knot, 5mlies SW 0.1knot @6:00.

Bit	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (m)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev (krev)	Inner	Outer	Dull	Condition
No. 2	17"	Smith(S519)	PDC	S223	SD0749	12 x 10	3976.0 To 4260.0	284.0	7.36	6 To 102	115 To 182	165.0				

BHA Record	Hook Wt. (kN) @	24.00	4,289.4	mBRT
17"DRLG 2	17" B x 6m Pony DC x 16-7/8" I.L. Stab x 8"DGR x 8"EWR x 8"PWD x 8"HCIM x HOC(new) x MWD Down screen x Float Sub (w/float) x XO x 16-5/8"stab x XO x 8-1/2"D(12) x 8" Hydraulic Jar x 8-1/2"D(2) x XO x 5.68"HWDP(12) x XO x 5"DP S-140 62 stds x 5-1/2"DP S-140 19stds x XO x 5-1/2"DP S-150			

Mud Properties	Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St (10 ¹⁰)	WL	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (In/Out)	K+	n	K	LGS	
KNPP	05:30	4,004	1.13	90	38	42	7	9	3.8	0.5	11.5	0.1	76,000	0.2	0	8	0.75	14	11	30,500	0.56	2.43	2.7
KNPP	17:00	4,183	1.13	100	37	41	7	9	3.5	0.5	11.1	0.1	81,700	0.2	0	8	0.75	15	11	25,700	0.56	1.32	2.6

Mud Pumps	14-P-220 @ 4260.0 mBRT	5.00	gallon/stroke @97%			
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (min/m)	DP
1	6"				25	22
2	6"	190	950	32.6		
3	6"					

Geologic Information	From	To	Lithology of cuttings
	3976.0	4003.0	Cl: 80-95, Sil: 5-15, Sand: Tr-5
	4003.0	4268.0	Cl: 65-85, Sil: 5-25, Sand: 5-25

Shale Shaker	No.1	#20, #200 x 2	No.4	#20, #200 x 2	No.1	#20, #200 x 2	No.2	#20, #200 x 2	No.3	#20, #200 x 2	off

Materials Stock on Board @24:00	Item	Unit	Received	Used	Stock
Fresh Water	m3	112.6	116.1	237.5	
Potable Water	m3	0.0	5.0	258.9	
Drill Water	m3	0.0	16.2	1,758.6	
Fuel	m3	0.0	54.6	5,677.6	
Lube Oil	Ltrs	0.0	2,200.0	82,000.0	
Helix 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 Information @24:00	Boat Name	Status	Time @Chikyū	Departed	Arrived
	Chikyū		04:00	20:50	
	Shincho-maru		-	-	
	Hakuryu-maru		-	-	

Weather Information	Time	Weather	Temp. (degC)	Barometer (hPa)	Wind (m/s)	Wave (m)	Current (knot)	Visibility (km)
	24:00	bc	14.0	1013.3	10.0	303.0	11.6	1.1

Today's Schedule : Spot Hi-vis 50m3. Wiper trip to 20"CSG shoe.

Reported by : D. Ikenomoto / T. Yokoyama / S. Katakata
 Approved by : T. Sanhashi