

Chikyu DAILY MORNING REPORT

Mission No. :

CK13-04

Exp. No. :

Exp 348

Site Name : C0002 Hole Name : C0002P Lat. 33° 18.0507'N Long. 136° 38.2029'E
 Depth : @24:00 3922.0 mBRT 1954.5 mbsf Progress : 4.00 m Seabed Depth : 1,967.50 mBRT RT-MSL : 28.5 m
 Depth : @06:00 3922.0 mBRT 1954.5 mbsf Drilling/Coring/Jetting Hrs. : 1.50 hrs LAST CASING : 13-3/8" x
 Summary of Operation on 15-Dec : Continue cut CSG. Circulation and bottoms up. LOT. Condition mud. POOH. L/D milling BHA.
 Present Operation @ 06:00 on 16-Dec : Making up 12-1/4" BHA.
 Time Breakdown (00:00 - 24:00 on 15-Dec)

From	To	Hrs	Code	Detail of Operation
0:00	1:30	1:30	CSG(DRL)	Cut casing window from 3918 to 3922mBRT. Sweep 10m3 of hi-vis every 1hr. WOB: 300kN, 1000gpm x 21.7MPa, 100rpm x 5-20kN-m. ROP: ave 2.48m/hr, Max 3.9m/hr (@3921.5mBRT), min 2.06m/hr (@3919.0mBRT).
1:30	2:00	0:30	CSG(other)	Pump 15m3 of hi-vis, ream string up and down to ensure smooth casing window. Move string up and down with rotation, 60rpm x 9.6-10.2kN-m, 2950kN, 2950kN. Observed high torque(15kN-m) and drag(30kN) at 3906mBRT.
2:00	2:30	0:30	CSG(other)	Dress out window, ream up and down around 3906mBRT for several times. 70rpm x 9.3-13.5kN-m, 1000gpm x 22.1MPa.
2:30	3:00	0:30	CSG(other)	Move string up and down to check window without rotation, 3030kN, 2900kN. Negligible drag of 20kN at 3906m.
3:00	5:00	2:00	C&C	Pump 15m3 of hi-vis, circulate bottoms up, 1000gpm x 21.3MPa.
5:00	6:30	1:30	LOT	Rig up pressure test joint and pressure test lines to 3000psi for 10min. -OK.
6:30	7:00	0:30	LOT	Conduct LOT #1. TVD: 3903.15mBRT, MW: 1.16sg, Pump rate: 0.5BPM, pumped to 1240psi, held pressure for 10min, creep down to 1136psi. Leak off pressure: 1130psi, EMW: 1.364sg, pumped: 4.1bbl, return: 3.3bbl, 0.8bbl injected (trapped pressure 67psi).
7:00	7:15	0:15	LOT	Conduct LOT #2. TVD: 3903.15mBRT, MW: 1.16sg, pump rate: 0.7BPM, pumped to 1400psi, held pressure for 10min, creep down to 1180psi. Leak off pressure: 1280psi, EMW: 1.391sg, pumped: 4.7bbl, return: 4.2bbl, 0.5bbl injected.
7:15	8:00	0:45	LOT	Rig down pressure test line.
8:00	13:00	5:00	C&C	Circulate to increase Mud Weight to 1.18sg, 1000gpm x 22.3MPa, boost riser 500gpm x 5.2MPa.
13:00	22:45	9:45	Trip	Flow Check - OK, POOH milling BHA to surface. Normal wear on mills. Gauge mills, Steering mill: -1/16", 2nd mill: -7/32", and lead mill: -1/8" from 12.28" (acceptance criteria: -1/4" on steering mill).
22:45	24:00	1:15	Trip	Lay down milling BHA.

Note:
 Leak off test result, EMW: 1.36sg.
 Made up EDPHOT w/ gray valve.
 Glycol injection: LMRP/BOP: 3/5 gal every 12hrs.
 Sea current: Chikyu 0.5 - 3.3knot, SW 5mile 2.7 - 3.5 knot.

Time Breakdown (00:00 - 06:00 on 16-Dec) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	Trip	Make up 12-1/4" kick off BHA to 156mBRT. Change bend angle to 1.5deg, measure offset angle between motor and MWD.

Note:
 Sea current: Chikyu 2.1 knot, SW 5mile 3.8 knot @ 6:00.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mart)		Meter-age	Hrs.	WOB (kN)		rpm		Total Rev. (krev)	Inner
							From	To			Min.	Max.	Min.	Max.		
6	12.25	Smith	Mill Thooth	117	PW8782	22 x 3, 19 x 1										

#	Whipstock	Kick off	Whipstock x Lead Mill x Secondary Mill x Flex Mandrel x Steering Mill x 8-1/2"DC(9) x XO x 8-1/2"DC(12) x XO x 5.68"HWDP(12) x XO x 5"DP S-140 26stds	
			x 5-1/2"DP S-140 21stds x XO x 5-1/2"DP S-150 25stds x XO x 6-5/8"DP Z-140	
#6			Bit x Motor x 12"Stab x HOC x DH screen x Float Sub (w/Float) x 8-1/2"DC(12) x Drilling Jar x 8-1/2"DC(2) x XO x 5.68"HWDP(12) x XO x 5"DP S-140 44stds x 5-1/2"DP S-140 21stds x XO	
			x 5-1/2"DP S-150 25stds x XO x 6-5/8"DP Z-140	

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10 ³ , 10)	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp		K+	n	K	
																	In	Out				
KNPP	5:00	3,922	1.16	100	39	42	5	9	3.1	0.5	11.9	0.2	85,200	0.3	0	9.0	1.00	14	12	31,800	0.57	2.36
KNPP	16:00	Pit	1.18	94	39	41	5	10	3.1	0.5	12.0	0.2	92,300	0.3	0	9.0	1.00	15		31,800	0.61	0.90

Mud Pumps : 14-P-220 @ 3918.0 mBRT 5.00 gallon/stroke @97%						
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	200	1000	21.7	DC DP	
2	6"				24	21
3	6"					

Geologic Information					
From	To	Lithology of cuttings			
3904.3	3922.0	CMT: Tr-100%, Sit: 0-100%			

Shale Shaker Centrifuge: hrs					
No.1	#10, #110 x 2	No.4	#10, #145 x 2	No.1	off
No.2	#10, #145 x 2	No.5	#10, #110 x 2	No.2	off
No.3	#10, #110 x 2	No.6	#10, #145 x 2	No.3	off

Materials Stock on Board @24:00				
Item	Unit	Received	Used	Stock
Fresh Water	m3	92.6	91.2	1.4
Potable Water	m3	0.0	12.0	(12.0)
Drill Water	m3	0.0	24.1	(24.1)
Fuel	m3	0.0	55.8	(55.8)
Lube, Oil	Ltrs	0.0	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	0.0
Cement "G"	ton	0.0	0.0	0.0

Boat Information @24:00		
Boat Name	Status	Time @Chikyu

Personnel @24:00	
CDEX	8
MQJ Crew	95
MQJ (sc,Other)	1
MQJ (Sub sea & Hyd)	2
MWJ	16
Scientist	24
Telrite	2
Oceanengineering	6
Schlumberger-CMT	1
SLB WL	3
Geoservice	6
Vetco	0
Halliburton-LWD	3
Halliburton-DD	1
Weatherford (CSG)	0
MI-Swaco	4
Whipstock	1
Total	173

Mud Volume (m3)	
KNPP mud (1.18)	153
KNPP mud (1.11)	369
KNPP mud (1.16)	87

Mud Materials on Board @24:00hrs (unit: kg)			
Item	Received	Used	Stock
Barite (Bulk)		23,900	163,100
Kunigel-VO (Bulk)			10,800
NaCl		8,000	32,000
KCl		9,000	11,000
Tel-Polymer DX / L / H	100/100/0		6540/2820/920
XCD-Polymer	50		275
Soda Ash			925
KOH			2,825
Clean Lube			13,600
Tel Clean			3,200
Bi-Carbonate			1,000
Lime			1,240
Defoamer 30C			192
Telrite GXL			36
Tel DD			3,200
NaOH			800
Lignite NC			2,000
Tel Stop G / P			500 / 1000
Tel Mica C / M / F			500 / 1,000 / 1,000
Tel Plug C / M / F			500 / 1,200 / 980
Tan Cal M / F / FF			4230 / 4500 / 0
EZ Spot			550
Speeder P / X			1700 / 1700
Baracor-100 (gal)			0
Astex S		2,400	4,800

DATE	CROSS	Departed	Arrived
Kaiyu	Current survey: S 10miles	-	-
Shinchou-maru	Shingu	3:00	-
Hakuryu-maru	Current survey: SW 5miles	-	-

LCM 20% (1.13)	24
Hi-vis (1.16)	47
KNPP (1.40)	4
total	765

Treat HS				0
Restler				0
Telnite OS-5				0
Telnite HEC				0

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind			Wave			Current		Visibility (km)
		Air	SW		Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	bc	10.0	19.7	1022.1	11.0	299.0	12.4	1.0	270	5.0	2.6	91	22.0

Today's Schedule : RIH, slip & cut drill line, continue RIH, drill 12-1/4" hole.

1,936.50 mbsf(3,904.0 mBRT)

mBRT: meter below rotary table
mbsf: meter below sea floor

Depth (m)	ROP (m/hr)
3905	2.3
3906	0.9
3907	0.4
3908	1.3
3909	1.7
3910	0.8
3911	1.7
3912	1.8
3913	2.9
3914	2.3
3915	2.1
3916	3.0
3917	3.1
3918	2.2
3919	2.1
3920	2.6
3921	3.1
3922	2.5

Dull Condition						
Outer	Dull	Loc.	B	G	O.D.	RP

Hook Wt. (kN) @		mBRT	
.....	Hook Load		
.....	BHA		
.....	Below HWDP		
.....	Below Jar		
LGS	Hook + HPS		730
	Hook block		307

Cutting skip @24:00		
Empty	Full	Total
47	3	50

ROV	
Status	Diving
Last Dive	
Injection Skid	71 /135 gal

Helicopter Information					
Flt. No.	Time		Passenger		
	Arrived	Departed	Are.	Dept.	
1					
2					
3					
4					

Safety (HSE) and other information		
Incident	Last Incident	No. LTA
	13/Feb/2013	
LTA		
HUNS cards	24	
Remarks		
Conduct bomb search drill.		

Marine Information @24:00	
Heave (m)	0.1
Pitch (deg)	0.1
Roll (deg)	0.1
Vessel Heading (deg)	287

Riser Tension (kN)	8700
V.D. Load (Moon)	12722.2
Max Draught (m)	9.0
Thruster (kW)	2700

Reported by : S. Kataoka / T.Yokoyama / S. Yamada

Approved by : T.Saruhashi