

Site Name C0002 Hole Name C0002T Lat. 33° 18.0507'N Long. 136° 38.2029'E Seabed Depth: 1,967.5 mBRT RT-MSL: 28.5 m Report Date: 26/Feb/2019
 Depth: @24:00 4,816.0 mBRT 2848.5 mbsf Progress: 0.0 m Drilling/Coring/Underreaming Hrs.: 0.00 hrs Last BOP PT: 1/28/2019 Next BOP PT: 2/22/2019
 Depth: @06:00 4,816.0 mBRT 2848.5 mbsf LAST CASING: 8.58" x 11.34" ESET x 2,802.50 mbsf (4,770.0 mBRT) Last BOP FT: 2/14/2019 Next BOP FT: 2/22/2019
 Summary of Operation on 25-Feb: Wait on cement. Tag top of cement. Pressure test. Spot inhibitor. #4 plug back cementing. Last Glycol 35gal Inj. 2/20/2019
 Present Operation @ 06:00 on 26-Feb: POOH diverter assembly at 1,970mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00) on 25-Feb: POOH diverter assembly at 1,970mBRT. mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	10:00	10:00	CMT	4,816.0	Wait on cement. (00:15-00:45) Reciprocate string 30m and confirm the string free. Break circulation at 500gpm x 7.2MPa, 12rpm x 5kNm. Cement samples (00:00-06:00) #2 sample is hardened. #3 sample still does not get hardness. (10:00) #3 sample is hardened.
10:00	10:30	0:30	W&R	4,816.0	Wash down to tag top of #3 plug back cement from 4,575mBRT to 4,634mBRT. 10rpm x 6-7kNm, 200gpm x 2.3MPa. Tag TOC 3 times at 4,634mBRT with 50kN.
10:30	12:30	2:00	P & A	4,816.0	Prepare for pressure test #3 plug back cement. Pick up 4,617mBRT. Line up surface line to pump down string, choke and kill line. Flush choke / kill line with rig pump. Flush cement test line from cement unit. Pressure test surface line and choke / kill line to 300psi / 5min and 1,500psi / 5min - good test.
12:30	13:30	1:00	P & A	4,816.0	Pressure test #3 plug back cement with 1.36sg mud to 1,000psi / 5min - good test. Pump rate at 0.25bpm. Pumped volume 8.7bbl, returned volume 8.4bbl.
13:30	14:30	1:00	P & A	4,816.0	Spot 90m ³ of inhibited mud at 700gpm x 13.2MPa. Displace string with 1.36sg mud at 700gpm x 13.2MPa (2,000strks, 38m ³).
14:30	19:15	4:45	TRIP	4,816.0	POOH diverter assembly from 4,617mBRT to 3,450mBRT.
19:15	19:45	0:30	P & A	4,816.0	Spot 7.8m ³ of hi-vis mud at 500gpm x 7.8MPa. Displace string with 1.36sg mud at 700gpm x 10.4MPa (1,670strks, 32m ³).
19:45	20:30	0:45	TRIP	4,816.0	POOH to 3,350mBRT. Make up SES stand.
20:30	21:30	1:00	C&C	4,816.0	Circulate and clean hole at 800gpm x 13.9MPa.
21:30	23:30	2:00	P & A	4,816.0	Conduct #4 plug back cementing at 3,350mBRT. Locate bottom of diverter at 3,350mBRT. Displace surface line with 1.4m ³ (9bbl) of 1.60sg Mud push II spacer and 1.4m ³ (9bbl) 1.36sg mud using rig pump. Close upper FOSV. Insert foam ball above lower FOSV. Apply 3.5MPa above upper FOSV. Install cement hose on SES. Open lo-torc valve. Pump 8.0m ³ (50bbl) of 1.60sg Mud push II spacer from cement unit at 4.5bpm. Remove cement hose. Insert foam ball below SES. Pump 7.8m ³ (49.0bbl) of 1.90sg G cement slurry from cement unit at 4.5bpm. Decrease pumping rate to 2.2bpm due to the delay of G cement supply. Downhole density keeps 1.90sg. Flush surface line from cement unit with 0.25m ³ (1.6bbl) of 1.60sg Mud push II spacer. Close lo-torc valve. Open upper and lower FOSV. Displace cement with 30.4m ³ (191.1bbl) (1,610strks, including spacer volume in surface line) of 1.36sg mud at 500gpm using rig pump. Standpipe pressure increases from 0.8MPa to 1.9MPa at 20.8m ³ (1,100strks) pumped and continue increasing to 2.8MPa (Spacer out). Observe pressure jumps up to 3.9MPa at 24.5m ³ (1,300strks) pumped and continue pumping to 28.3m ³ (1,500strks) at 5.8MPa (Cement out). Reduce flow rate from 500gpm to 125gpm last 2.6m ³ (Total 1,610strks). No losses during cementing operation.
23:30	24:00	0:30	TRIP	4,816.0	POOH diverter assembly from 3,350mBRT to 3,230mBRT. Pull dry pipe condition. (11:50-12:10) Advisory status due to thruster seal oil tank level low. <Offline> Complete to repair iron roughneck #B. Continue to investigate iron roughneck #A malfunction (Since 15th of Feb. (#A)). Iron roughneck #A (auxiliary well): Under investigation. Install pressure sensors and check function fluid pressure to make up connection. Find command pressure value shows higher (200bar) than normal (100bar), and investigate the root cause of high pressure. Iron roughneck #B (Main well): Adjust directional valve setting - functioning well. Prepare RCB inner barrel assembly at core tech workshop. Disassemble Emergency Drill Pipe Hung Off Tool (EDPHOT) in auxiliary well. Grease up connection.

No loss/gain in 24hrs Ditch magnet: 0.0kg (8.5in hole total: 26.0kg)
 Time Breakdown (00:00 - 06:00) on 26-Feb: * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:15	0:15	TRIP	4,816.0	Continue to POOH to 3,190mBRT.
0:15	2:00	1:45	C&C	4,816.0	Circulate and bottoms up w/800gpm x 14.2MPa. Drop foam ball. Observe 1.37sg mud and pH 12.5 after 396m ³ pumped (Original pH 12.3). No pure cement. Total 452m ³ pumped.
2:00	3:30	1:30	P & A	4,816.0	Spot 110m ³ of inhibited mud at 600gpm x 8.5MPa. Displace string w/ 1.36sg mud with 600gpm x 8.5MPa (1,000strks.)
3:30	6:00	2:30	TRIP	4,816.0	POOH diverter assembly from 3,190mBRT to 1,970mBRT.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT) From To	Meter-age	Hrs.	WOB (kN) Min. Max.	rpm Min. Max.	Total Rev. (krev)	ROP (m/hr)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
BHA Record @24:00																					

32	Divterter	Divterter
BHA Record @24:00		

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gal St. (10", 10')	API	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp In Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min 5 min	
KNPP	1:00	4,555	1.36	72	28	25	7	6	22	7.5	1.2	12.4	0.4	114,000	0.80	18.0	2.00	10	8	20,300	0.48	1.66	6.70	
KNPP	18:00	Pit	1.36	70	28	23	7	6	21	7.7	1.2	12.3	0.4	114,000	0.80	18.0	2.00	12	8	20,300	0.48	1.66	6.70	

Mud Pumps: 14-P-226				5.00 gallon/stroke @97%				Personnel @24:00												Mud Materials on Board @24:00hrs (unit: kg)																																																																																																																																																																																	
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	<table border="1"> <tr><td>COEX</td><td>6</td></tr> <tr><td>MOJ Crew</td><td>104</td></tr> <tr><td>MWJ</td><td>15</td></tr> <tr><td>Scientist</td><td>5</td></tr> <tr><td>MOJ (Other)</td><td>0</td></tr> <tr><td>Telnitte</td><td>2</td></tr> <tr><td>Oceaneering</td><td>7</td></tr> <tr><td>SLB Cementing</td><td>2</td></tr> <tr><td>SLB WL</td><td>0</td></tr> <tr><td>Clean Lube W</td><td>0</td></tr> <tr><td>Geoservices</td><td>4</td></tr> <tr><td>M-I SWACO</td><td>4</td></tr> <tr><td>SLB LWD</td><td>0</td></tr> <tr><td>SLB Seismic</td><td>0</td></tr> <tr><td>AFGlobal</td><td>0</td></tr> <tr><td>ENVENTURE</td><td>0</td></tr> <tr><td>SLB DD</td><td>0</td></tr> <tr><td>Franks</td><td>0</td></tr> <tr><td>BHGE</td><td>1</td></tr> <tr><td>Total</td><td>150</td></tr> </table>												COEX	6	MOJ Crew	104	MWJ	15	Scientist	5	MOJ (Other)	0	Telnitte	2	Oceaneering	7	SLB Cementing	2	SLB WL	0	Clean Lube W	0	Geoservices	4	M-I SWACO	4	SLB LWD	0	SLB Seismic	0	AFGlobal	0	ENVENTURE	0	SLB DD	0	Franks	0	BHGE	1	Total	150	<table border="1"> <tr><th>Item</th><th>Received</th><th>Used</th><th>Stock</th></tr> <tr><td>Barite (Bulk)</td><td></td><td>8,000</td><td>185,000</td></tr> <tr><td>Caustic Soda</td><td></td><td></td><td>1,050</td></tr> <tr><td>Lime</td><td></td><td></td><td>200</td></tr> <tr><td>Soda Ash</td><td></td><td></td><td>575</td></tr> <tr><td>Caustic Potash</td><td></td><td></td><td>1,075</td></tr> <tr><td>Tel-Polymer DX / L / H</td><td></td><td></td><td>2240 / 0 / 0</td></tr> <tr><td>XCD-Polymer</td><td></td><td></td><td>1,200</td></tr> <tr><td>Lignite NC</td><td></td><td></td><td>4,500</td></tr> <tr><td>Clean Lube W</td><td></td><td></td><td>8,000</td></tr> <tr><td>Tel Clean W</td><td></td><td></td><td>4,600</td></tr> <tr><td>Astlex-S</td><td></td><td></td><td>4,400</td></tr> <tr><td>Deformer 30C</td><td></td><td>32</td><td>480</td></tr> <tr><td>Tel DD</td><td></td><td></td><td>3,200</td></tr> <tr><td>Bi-Carbonate</td><td></td><td></td><td>300</td></tr> <tr><td>Citric Acid</td><td></td><td></td><td>1,900</td></tr> <tr><td>Tan Cal C / M / F</td><td></td><td></td><td>210 / 1,020 / 510</td></tr> <tr><td>Telnitte GXL</td><td></td><td>18</td><td>504</td></tr> <tr><td>Treat-HS</td><td></td><td>160</td><td>6,940</td></tr> <tr><td>Mud Seal P</td><td></td><td></td><td>130</td></tr> <tr><td>Tel Plug C / M / F</td><td></td><td></td><td>500 / 500 / 500</td></tr> <tr><td>Tel Stop P / G</td><td></td><td></td><td>500 / 260</td></tr> <tr><td>Barolift</td><td></td><td></td><td>1,890</td></tr> <tr><td>Driscoll D</td><td></td><td></td><td>0</td></tr> <tr><td>Tel Flow P</td><td></td><td></td><td>0</td></tr> <tr><td>Poro Seal</td><td></td><td></td><td>0</td></tr> <tr><td>Steel Seal 50</td><td></td><td>(lbs)</td><td>1,000</td></tr> <tr><td>KCl</td><td></td><td></td><td>0</td></tr> <tr><td>NaCl</td><td></td><td></td><td>0</td></tr> <tr><td>Fracsael</td><td></td><td>(lbs)</td><td>0</td></tr> <tr><td>Stopsael</td><td></td><td>(lbs)</td><td>0</td></tr> <tr><td>Bentonate(Bulk)</td><td></td><td></td><td>46,000</td></tr> </table>												Item	Received	Used	Stock	Barite (Bulk)		8,000	185,000	Caustic Soda			1,050	Lime			200	Soda Ash			575	Caustic Potash			1,075	Tel-Polymer DX / L / H			2240 / 0 / 0	XCD-Polymer			1,200	Lignite NC			4,500	Clean Lube W			8,000	Tel Clean W			4,600	Astlex-S			4,400	Deformer 30C		32	480	Tel DD			3,200	Bi-Carbonate			300	Citric Acid			1,900	Tan Cal C / M / F			210 / 1,020 / 510	Telnitte GXL		18	504	Treat-HS		160	6,940	Mud Seal P			130	Tel Plug C / M / F			500 / 500 / 500	Tel Stop P / G			500 / 260	Barolift			1,890	Driscoll D			0	Tel Flow P			0	Poro Seal			0	Steel Seal 50		(lbs)	1,000	KCl			0	NaCl			0	Fracsael		(lbs)	0	Stopsael		(lbs)	0	Bentonate(Bulk)			46,000
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Geologic Information @24:00				Shale Shaker / Centrifuge @24:00				Materials Stock on Board @24:00						
From	To	Lithology of cuttings		No.1	30.60	No.4	30.60	#1-#3 Centrifuge	running time	Item	Unit	Stock	Used	Received
				No.2	30.60	No.5	30.60			Fresh Water	m ³	239.0	83.1	96.1
				No.3	30.60	No.6	30.60			Potable Water	m ³	245.0	6.0	0.0
										Drill Water	m ³	930.5	40.0	0.0
										Fuel	m ³	2,405.4	45.1	0.0
										Lube, Oil	Ltrs	51,700	500.0	0.0
										Heli Fuel	Ltrs	0.0	0.0	0.0
										Cement "GWC"	ton	160.0	0.0	0.0
										Cement "G"	ton	97.0	0.0	0.0

Boat Information @24:00				Weather Information			
Boat Name	Status	Time @Chikyu		Time	Weather	Temp. (degC)	Barometer
#8 Meiji-maru	Chikyu	Departed	Arrived	24:00	c	Air 15.0	SW 17.4
Akatsuki	Chikyu					hPa 1016.0	Speed (m/s) 6.7
Shincho-maru	Shingu	03:00				Dir. (deg) 327	Gust (m/s) 7.9
						Wave Height (m) 1.5	Dir. (deg) 110
						Period (s) 7.1	Current Speed(knt) 0.4
						Dir. (deg) 262	Visibility (km) 22.0

Mud Volume (m3)				Marine Information @24:00			
NPP mud (1.35-1.36)	398	Fracsael	424	Heave (m)	0.6	Pitch (deg)	0.3
Barolift	30	Barolift	30	Roll (deg)	0.1	Vessel Heading (deg)	060
KNPP mud (1.39)	189	KNPP mud (1.39)	189	Riser Tension (kN)	9600.0	V.D. Load (ton)	11181
Inhibited mud	116	STOPLOSS(1.37)	47	Max Draught (m)	9.0	Thruster (kW)	700
STOPLOSS(1.37)	47	MUDPUSH II	5				
MUDPUSH II	5	total	1209				

Reported by: T. Yokoyama / A. Suzuki
 Approved by: T. Ikawa
 Today's Schedule: POOH diverter assembly. Recover wear bushing.