

## Down Hole

Job: AU-DD-KDC-001  
Well: Westwood 1  
Run: 01  
Incident: FR-01

Incident Count: 1  
Total Lost Time: 12.50  
Start Run Date: 12/12/2009 5:00:00AM  
End Run Date: 15/12/2009 6:00:00AM

### Job Information

Company: KDC  
Region: Asia Pacific  
District: Australia  
Field: Westwood  
Coordinator Name: Ali Rastegar  
Rig Phone: N/A  
Service Type:  
Surface System: KIT-15613

### Engineers On Duty

Lead	Last Name	First Name	Description
	Pickering	Clive	LWD/MWD Engineer
	Khan	Faheem	LWD/MWD Engineer
	Fleming	Bob	DD

### Reason for POOH

MWD detected No Response error from CDS/BTR (directional sensor), unable to take survey.

### Hydraulics

### Drilling Parameters

### Mud Parameters

<u>Δ P Total:</u>	0	psi	<u>RPM:</u>	0		<u>Mud Type:</u>	Water Base
<u>Max Oper Pressure:</u>	1720.57	psi	<u>Weight on Bit:</u>	25	klb	<u>Mud Weight:</u>	9.3 ppg
<u>TFA:</u>	0.75	in2	<u>Flow Rate:</u>	366.5	gpm	<u>Funnel Viscosity:</u>	38 sec/qt
<u>Max Obs Pressure:</u>	0	psi	<u>Under Balanced:</u>	No		<u>Oil %:</u>	0
<u>Max Hyd Pressure:</u>	1720.57	psi	<u>Gas Flow Rate:</u>	0	ft3/min	<u>Water %:</u>	94.1
<u>Pulse Amplitude:</u>	5	psi	<u>Torque:</u>	5000	ft-lbs	<u>Solid %:</u>	5.9
<u>Orifice Size:</u>	45	deg				<u>Sand %:</u>	0.25
						<u>pH:</u>	8.5

Failure Data

<b>Tool #:</b> PH91612PDYB-T01			
<u>Incident Date:</u>	13/12/2009 5:15:00 PM	<u>Component:</u>	CDS
		<u>Serial Number:</u>	490
		<u>TFF:</u>	Yes
		<u>CI:</u>	Yes
		<u>Lost Time:</u>	12.50

Incident Parameters

<u>Depth MD:</u>	1073	m
<u>Depth TVD:</u>	1068	m
<u>Oper Pressure:</u>	950	psi
<u>Temperature:</u>	38	C
<u>Mud Weight:</u>	9.3	ppg
<u>Flow Rate:</u>	370	gpm
<u>Sand %:</u>	0.25	
<u>Lcm:</u>	0	lbs/bbl
<u>Lcm Type Grade:</u>		
<u>WOB:</u>	25	klb
<u>Torque:</u>	5	ft-lbs
<u>RPM:</u>	60	

<u>Failure Description:</u>	No Response CDS/BTR - Tool trasmits error code to surface, detection ok, decoded and displayed as error. Unable to get TF, INC, AZI, BX,BY,BZ, GX,GY,GZ, or TEMP
<u>Corrective Action:</u>	Pull Off Bottom, recycled for survey couple of times checked detection, Pulses evident and decoding appeared correct. Identified possible CDS/BTR Failure. POOH, Replace tool with secondary MWD string. Run Secondary tool back in hole. Inspected failed tool on surface for external damage, - non evident. Checked for possible vented battery - non evident. Inspected centralizers for size/fit. When failed tool disassembled and inspected identified the CMS (connector at battery end) loose. Tool reassembled and Surface test passed VIB/Excel data downloaded. Quarantined failed tool until further testing completed and analysis of vibration data. Replacement modules organised for use on site.