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Aviation Safety Investigation Report 198600137

Hughes 269C

1 May 1986

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NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

Occurrence Number: 198600137 Occurrence Type: Accident

Location: 5km East of Theda Station, 50 South of Kalumburu WA

Date: 1 May 1986 **Time:** 1345

Highest Injury Level: Nil

Injuries:

	Fatal	Serious	Minor	None
Crew	0	0	1	1
Ground	0	0	0	-
Passenger	0	0	0	1
Total	0	0	0	2

Aircraft Details: Hughes 269C **Registration:** VH-THY

Serial Number:

Operation Type: Aerial Work (Mustering)

Damage Level: Substantial

Departure Point: Theda Station WA

Departure Time: 1345

Destination: Theda Station WA

Approved for Release: May 1st 1987

Circumstances:

The pilot was engaged in mustering operations and was attempting transition from a low forward speed to an out of ground effect hover in order to turn a breakway beast. As he approached the hover, the helicopter experienced a sudden partial power failure. The pilot maintained the aircraft heading, lowered the collective lever and attempted to gain some forward airspeed. In the attempted landing with partial power, the helicopter struck the ground heavily and its main rotor blades hit a small sapling. The forced landing was made in light downwind conditions. Investigation revealed that the No 2 cylinder exhaust valve had failed in fatigue and the valve seat and retaining cap had failed in overload. Further testing indicated that the exhaust valve had been subjected to higher than normal operating temperatures which would have contributed to the premature failure of the valve.