

ROUTINE CORE ANALYSIS
SYDNEY OIL COMPANY LIMITED

McDILLS #1



CORE LABORATORIES AUSTRALIA (QLD) LTD



WARREN FARLEY
Regional Manager

Our Ref: QLD-CA-189

30th May, 1985

Sydney Oil Company Limited
3rd Floor, Assembly Building
44 Margaret Street
Sydney NSW 2000

Attention: Mr M.G. Lawrence

Dear Sir,

Presented here are the results of analyses performed on the sample from the well McDills #1. This report contains final data, a description of analysis procedures and a lithology description.

The sample arrived via courier on the 23rd May 1985. It was shaped, then dried in an oven at 80°C for eight hours, after which helium injection porosity and grain density were determined. Next the sample was mounted in epoxy resin for the permeability determination.

The results were telexed to Sydney Oil on 27th May, 1985.

Should you have any queries concerning this report, please contact me in Brisbane on (07) 260-1722.

I thank you for the opportunity to provide our routine core analysis services and trust that we may be of service in the future.

Yours faithfully,
CORE LABORATORIES AUSTRALIA (QLD) LTD

A handwritten signature in black ink, appearing to read "James Brown", written over a horizontal line.

James Brown
Laboratory Supervisor,
Brisbane, Australia
Enc:
JB:lg:189

ROUTINE CORE ANALYSIS PROCEDURES

The data contained in the report has been derived by the following methods:

1. Helium Injection Porosity - measured by a Helium Porosimeter to determine grain volume and, consequently, pore volume. The Porosimeter is based on the Boyles Law equation of gas expansion and uses helium because of its small molecular composition and inert properties.
2. Permeability - measured by a gas permeameter to determine fluid "transmissibility". The permeameter is based on Darcy's equation for compressible fluids (gas) assuming laminar flow with air being the gas used (API RP.40).
3. Grain Density - derived by measurements utilizing a mercury displacement pump to determine bulk volume, the helium porosimeter to determine grain volume and analytical balance to determine weight.

CORE LABORATORIES

Petroleum Reservoir Engineering

COMPANY: SYDNEY OIL	FORMATION:	FILE: QLD-CA-189
WELL: McDILLS #1	CORE TYPE:	DATE REPORT: 30/5/85
FIELD:	BASIN:	ANALYSTS: JB/RT
COUNTRY: AUSTRALIA	STATE:	DRILLING FLUID:

SAMPLE NO.	DEPTH FEET	KA-md	SUMMATION OF FLUIDS			HE INJ Ø %	GRAIN DENSITY
			Ø %	SO	STW		
1	8115'	0.4				8.5	2.64

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CORE LABORATORIES
Petroleum Reservoir Engineering

FILE: QLD-CA-189

LITHOLOGICAL DESCRIPTION

SAMPLE NO.

1

SST, wh brn, f grained, subang-subrnd, mod-w srted, mod-ind,
clay matrix, iron stained in places.