



CORE LABORATORIES AUSTRALIA (QLD.) LTD.



15th October, 1982.

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Attention: Mr. Kumar Kuttan,

Esso Australia Limited,  
Esso House,  
127 Kent Street,  
Sydney.....N.S.W. 2000.Subject: Routine Core Analysis  
Well: Seahorse # 2  
Our Job No: QLD - CA - 122

Dear Mr Kuttan,

Enclosed are the results of the final Routine Core Analysis done on  
Seahorse # 2.We appreciate the opportunity to be of service to Esso Australia Limited.  
Should you have any queries concerning the data, please do not hesitate to  
contact me in Brisbane on (07) 260 - 1722.

Best regards,

D.K. Manning  
Manager - Eastern Australia,  
New Zealand, Papua New Guinea.



Encl:

DKM:vt.

### DESCRIPTIONS:

The results for Seahorse # 2 were reached by the following manner:-

#### Bulk Volume:

Is measured by displacement, using mercury as the liquid pressure medium because of its high surface tension. The mercury pump is calibrated to 0.01 cubic centimeters.

#### Porosity:

Is measured by a Helium Porosimeter to determine the amount of grain volume in the sample. Porosity being determined by bulk volume - grain volume, helium is used because of the small molecule size, ability to diffuse rapidly, and adsorption of helium on the rock surface is minimal.

#### Permeability:

Is a measure of the ability of a porous material to transmit fluid. Samples are run on a Gas Permeameter, which is calibrated within plus or minus 5% each day. A complete check of the Permeameter, and orifice recalibration is conducted once a month.

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