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CORELAB

SOURCE ROCK EVALUATION FOR
PANCONTINENTAL PETROLEUM LTD
WELL: PALM VALLEY NO. 3
AMADEUS BASIN, AUSTRALIA

PR82-91

SOURCE-ROCK EVALUATION

FOR

PANCONTINENTAL PETROLEUM LTD

WELL: PALM VALLEY NO. 3

AMADEUS BASIN

AUSTRALIA

Geochemical Services

CORE

24A LIM TECK BOO ROAD, SINGAPORE 1883. TELEX: RS21423 TEL 382 1222

1 December 1982

CORE LABORATORIES

Mr. John Gorter
PanContinental Petroleum Ltd
20 Bond Street
Sydney, NSW 2000
AUSTRALIA

Geochemical
Services

Subject: Source-Rock Evaluation
Well: Palm Valley No. 3
Amadeus Basin
Australia
Our File No. GCS 82135

Dear Mr. Gorter,

The following final report presents the results on the eleven (11) drill cuttings samples from the Palm Valley No. 3 well. The geochemical analyses performed included determination of organic richness and Rock-Eval pyrolysis. The S1 results on a few samples appeared unusually high and these samples were rerun as a check. The values reported here are the check runs and vary slightly from those reported by telex.

We appreciate the continuing opportunity to be of assistance to PanContinental Petroleum Ltd in your hydrocarbon exploration program. Should there be any questions on the enclosed data, please contact us.

Yours very truly
CORE LABORATORIES INTERNATIONAL LTD

for D Kirk Cromer
Manager - Geochemical Services
Eastern Hemisphere

DKC:cy

3 cc: Addressee

Table

Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
6370-6400	ctgs	70% Sltst: dk gy, n calc, occ sl dolc, mica, v carb, grdg to sh, mod ind 30% Ss: m-m dk gy, v f-f gn, ang-sub ang, w srtd, mod hd-hd, cmtd w/sil, occ-sl pyr	0.14
6400-6430	ctgs	70% Dol: lt gy, mic xln, ahrl, hd 30% Sltst: dk gy, n calc, occ sl dolc, mica, v carb, grdg to sh, mod ind	0.14
6430-6460	ctgs	70% Dol: lt gy, mic xln, ahrl, hd 30% Sltst: dk gy, n calc, occ sl dolc, mica, v carb, grdg to sh, mod ind	0.13/0.14
6460-6490	ctgs	80% Sh: dk gy, n calc, sl dolc, mica, slty, v carb, frm 20% Dol: m dk gy, mic-v f xln, ahrl, mod hd-hd	0.34
6490-6520	ctgs	Sh: dk gy, n calc, sl dolc, mica, slty, v carb, frm Tr: dol, ss	0.36
6520-6550	ctgs	90% Sh: dk gy, n calc, slty, sl mica, v carb, frm 10% Ls: m dk gy, mic-v f xln	0.33
6550-6580	ctgs	Sh: dk gy, n calc, slty, sl mica, v carb, frm Pres: ls Tr: pyr	0.21

File GCS 82135

Table

Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
6580-6610	ctgs	Sh: dk gy, n calc, slty, sl mica, sl carb, frm Pres: sltst, ls	0.18
6610-6640	ctgs	90% Sh: dk gy, n calc, slty, sl mica, sl carb, frm 10% Sltst: dk rd brn, sl calc, occ sl mica, w ind Tr: ls Oil show - good	0.24
6640-6670	ctgs	90% Sh: dk gy, sl calc, dolc, mod mica, sl carb, frm-hd 10% Dol: m dk gy, mic-v f xln, occ sl mica, ahrl, hd Pres: sltst Tr: ls	0.20/0.20
6670-6700	ctgs	70% Sh: dk gy, sl calc, dolc, mod mica, sl carb, frm-hd 30% Dol: m dk gy, mic-v f xln, occ sl mica, ahrl, hd Tr: sltst, ss	0.10

File GCS 82135

Rock-Eval Pyrolysis

Sample Depth (ft)	TOC (wt.%)	Mg/Gm Rock S1	S2	S3	Hydrogen Index	Oxygen Index	Oil and Gas Shows	Potential	Transformation Ratio	Tmax (°C)
6460-6490	0.34	0.03	-	0.41	-	120.6	0.03	0.03	-	-
6490-6520	0.36	0.03	-	0.36	-	100.0	0.03	0.03	-	-
6520-6550	0.33	0.02	-	0.42	-	127.3	0.02	0.02	-	-
6550-6580	0.21	0.01	-	0.43	-	204.8	0.01	0.01	-	-
6610-6640	0.24	0.02	-	0.29	-	120.8	0.02	0.02	-	-
6640-6670	0.20	0.02	-	0.21	-	105.0	0.02	0.02	-	-