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SOURCE-ROCK EVALUATION
FOR
PANCONTINENTAL PETROLEUM LTD
WELL: OORAMINNA-1
AUSTRALIA

OPEN FILE

RELATES TO Re 63/2

Geochemical Services

CORE

DEPT OF MINES & ENERGY
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P00928

NORTHERN TERRITORY
GEOLOGICAL SURVEY

PR 82/46.

11 June 1982

CORE LABORATORIES



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

Geochemical
Services

Subject: Source-Rock Evaluation
Well: Ooramina-1
Australia
Our File No. GCS 82044

Dear Mr. Gorter,

Enclosed are the results on the thirty-six (36) core and cuttings samples from the Ooramina-1 well. These results consist of lithologic descriptions, total organic carbon (TOC) and Rock-Eval pyrolysis analyses.

We appreciate the opportunity to be of continuing service to PanContinental Petroleum Ltd. Should you have any questions on the enclosed data, please do not hesitate to contact us.

Yours very truly
CORE LABORATORIES INTERNATIONAL LTD

D. Kirk Cromer

D Kirk Cromer
Manager - Geochemical Services
Eastern Hemisphere

:cy

3 cc: Addressee

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Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
1950-2000	ctgs	Sh: m dk-dk gy, n calc, sl dolc, sl mica, frm Pres: dol	0.10
2000-2050	ctgs	Sh: m dk-dk gy, n calc, sl dolc, sl mica, frm Tr: dol	0.09
2050	core	Sh: m dk gy, n calc, sl mica, frm	0.06/0.08
2050-2100	ctgs	Sh: m dk gy, n calc, sl mica, frm Pres: dol	0.07
2100-2150	ctgs	Sh: m dk gy, n calc, sl mica, frm Tr: dol	0.09
2150-2200	ctgs	Sh: m dk gy, n calc, sl mica, frm Tr: dol	0.07
2200-2250	ctgs	Sh: m dk gy, n calc, sl mica, frm Tr: dol	0.08
2250-2300	ctgs	Sh: m dk gy, n calc, sl mica, frm Tr: dol, gyp	0.08
2300-2350	ctgs	Sh: m dk gy, n calc, sl mica, frm Tr: gyp	0.07
2350-2400	ctgs	Sh: m dk-dk gy, n calc, occ sl dol, sl mica, sft-frm Tr: gyp	0.08

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
2355	core	Sh: dk gy, n calc, sl mica, frm	0.07/0.07
2400- 2450	ctgs	Sh: dk gy, n calc, sl mica, frm Tr: gyp, dol	0.08
2450- 2500	ctgs	Sh: dk gy, n calc, sl mica, frm Tr: gyp	0.09
2500- 2550	ctgs	Sh: dk gy, gy blk, n calc, occ sl mica, sft-frm Tr: gyp	0.16
2550- 2600	ctgs	Sh: dk gy, gy blk, n calc, occ sl mica, sft-frm Tr: gyp	0.14
2600- 2650	ctgs	Sh: dk gy, gy blk, n calc, occ sl mica, sft-frm Tr: gyp	0.15
2650- 2700	ctgs	Sh: gy blk, n calc, sl mica, sl carb, frm	0.38
2700- 2706	core	Sh: gy blk, n calc, sl mica, mod-v carb, frm	1.00/0.98
2700- 2750	ctgs	Sh: gy blk, m dk gy, n calc, occ sl mica, sl carb, frm Tr: gyp	0.40
2750- 2800	ctgs	Sh: gy blk, m dk gy, n calc, occ sl mica, sl carb, frm Tr: gyp, ss	0.40

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
2800-2850	ctgs	Sh: m dk-dk gy, gy blk, n calc, occ sl mica, frm Tr: gyp	0.19
2850-2900	ctgs	Sh: dk gy, n calc, sft-frm Tr: gyp	0.10
2900-2950	ctgs	Sh: dk gy, n calc, sft-frm Tr: gyp	0.07
2950-3000	ctgs	Sh: m dk gy, dk gy, n calc, frm Tr: gyp, dol	0.08
3000-3050	ctgs	Sh: m dk gy, dk gy, n calc, frm Tr: gyp	0.09/0.10
3027-3030	core	Sh: dk gy, n calc, sl mica, frm-hd	0.11
3150-3200	ctgs	Sh: dk gy, n calc, sl mica, frm-hd Tr: gyp	0.08
3400-3450	ctgs	Sh: dk gy, gy blk, n calc, frm	0.17
3442	core	Sh: gy blk, n calc, sl mica, frm	0.27
3500-3550	ctgs	Sh: dk gy, gy blk, n calc, occ sl mica, frm Tr: sltst	0.13

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
3800- 3850	ctgs	Dol: m dk-dk gy, v lt gy, mic xln, ahrl, frm-hd Pres: sh	0.16
3850- 3900	ctgs	Sh: dk gy, n calc, sl dolc, frm Pres: dol	0.29
3900- 3950	ctgs	Sh: gy blk, n calc, sl dolc, sl mica, sl carb, frm	0.42
3921	core	Sh: dk gy, n calc, sl dolc, sl carb, frm	0.42
3950- 4000	ctgs	Sh: dk gy, n calc, sl dolc, sl mica, sl carb, frm	0.43
4110- 4115	ctgs	90% Sh: gy blk, n calc, sl dolc, mod- v carb, frm 10% Ss: v lt gy, v f gn, sub ang-sub rnd, w srtd, mod hd	1.06

Table 2
ROCK-EVAL PYROLYSIS

Sample Depth (ft)	TOC (wt.%)	S1	Mg/Gm Rock S2	S3	Hydrogen Index	Oxygen Index	Oil and Gas Shows Potential	Transformation Ratio	Tmax (°C)
2650- 2700	0.38	0.06	0.15	0.46	39.5	121.1	0.06	0.29	448
2700- 2706	0.99	0.32	0.18	0.35	18.2	35.4	0.32	0.64	435
2700- 2750	0.40	0.02	0.17	0.39	42.5	97.5	0.02	0.11	457
2750- 2800	0.40	0.02	0.13	0.41	32.5	102.5	0.02	0.13	444
3442	0.27	0.02	0.04	0.41	14.8	151.9	0.02	0.33	423
3850- 3900	0.29	0.01	0.06	0.32	20.7	110.3	0.01	0.14	455
3900- 3950	0.42	0.02	0.11	0.39	26.2	92.9	0.02	0.15	463
3921	0.42	0.14	0.09	0.36	21.4	85.7	0.14	0.61	453
3950- 4000	0.43	0.06	0.07	0.36	16.3	83.7	0.06	0.46	460
4110- 4115	1.06	0.10	0.08	0.35	7.5	33.0	0.10	0.56	463