

SOURCE-ROCK EVALUATION
FOR
PANCONTINENTAL PETROLEUM LTD

WELLS: ILLOGWA CREEK-1,
GOSSES BLUFF-1,
EAST MEREENIE-4,
ALICE-1

AUSTRALIA

OPEN FILE

ONSHORE

Geochemical Services

CORE

NORTHERN TERRITORY
GEOLOGICAL SURVEY

DEPT OF MINES & ENERGY
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P00930

PR82/47

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
<u>Well: Illogwa Creek-1</u>			
738.9- 739.0	core	Sltst: dk gy, n calc, sl dolc, w ind	0.32
<u>Well: Gosses Bluff-1</u>			
4520- 4535	core	Sltst: m dk gy, n calc, sl mica, carb, mod-w ind	0.24
<u>Well: East Mereenie-4</u>			
6459	core	Sh: dk gy, n calc, mica, frm	0.08/0.09
<u>Well: Alice-1</u>			
3410- 3415	core	Sltst: dk gy, n calc, occ sl mica, w ind	0.23
3400- 3450	ctgs	70% Ss: v lt gy, f gn, sub ang-sub rnd, fri, cmtd w/CaCO ₃ 30% Sltst: dk gy, n calc, occ sl mica, w ind	0.11
3450- 3500	ctgs	80% Ss: v lt gy, f gn, sub ang-sub rnd, frm, cmtd w/CaCO ₃ 20% Sh: m dk gy, n calc, occ sl mica, sft-frm	0.09

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
3573- 3596	core	Sh: dk gy, n calc, sl dolc, sl mica, frm	0.24
6132	core	Dol: m dk-dk gy, mic xln, ahrl, frm	0.10

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)
<u>Well: Illogwa Creek-1</u>									
738.9-	0.32	tr	0.05	0.36	15.6	112.5	-	0.05	438*
739.0									
<u>Well: Gosses Bluff-1</u>									
4520-	0.24	0.11	0.20	0.40	83.3	166.7	0.11	0.31	433
4535									
<u>Well: Alice-1</u>									
3410-	0.23	0.02	0.15	0.46	32.6	200.0	0.02	0.17	483*
3415									
3573-	0.24	0.07	0.29	0.48	120.8	200.0	0.07	0.36	420
3596									

* Tmax unreliable due to low S2 peak

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WELLS: ILLOGWA CREEK-1,

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P00929

PR 82-86

Table 1

Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
		<u>Well: Illogwa Creek-1</u>	
738.9- 739.0	core	Slst: dk gy, n calc, sl dolc, w ind	0.32

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WELLS:
GOSSES BLUFF-1,

AUSTRALIA

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P00927

NORTHERN TERRITORY
GEOLOGICAL SURVEY

PR82/49⁸⁵

Table 2

ROCK-EVAL PYROLYSIS

Sample Depth (ft)	TOC (wt.%)	Mg/Gm Rock		Hydrogen Index	Oxygen Index	Oil and Gas Shows	Potential	Transformation Ratio	T _{mix} (°C)	
		S1	S2							S3
4520-	0.24	0.11	0.20	0.40	83.3	166.7	0.11	0.31	0.35	433
4535										

Well: Gosses Bluff-1

Table 1
Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
		<u>Well: Gosses Bluff-1</u>	
4520- 4535	core	Sltst: m dk gy, n calc, sl mica, carb, mod-w ind	0.24

SOURCE-ROCK EVALUATION
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WELLS:

ALICE-1
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P00933

PR82/83
83

Table 1

Lithology and Total Organic Carbon (TOC)

Depth (ft)	Sample Type	Lithology	TOC (wt %)
<u>Well: Alice-1</u>			
3410- 3415	core	Sltst: dk gy, n calc, occ sl mica, w ind	0.23
3400- 3450	ctgs	70% Ss: v lt gy, f gn, sub ang-sub rnd, fri, cmtd w/CaCO ₃ 30% Sltst: dk gy, n calc, occ sl mica, w ind	0.11
3450- 3500	ctgs	80% Ss: v lt gy, f gn, sub ang-sub rnd, frm, cmtd w/CaCO ₃ 20% Sh: m dk gy, n calc, occ sl mica, sft-frm	0.09
3573- 3596	core	Sh: dk gy, n calc, sl dolc, sl mica, frm	0.24
6132	core	Dol: m dk-dk gy, mic xln, ahrl, frm	0.10

Table 2

File CCS 82047ROCK-EVAL PYROLYSIS

Sample Depth (ft)	TOC (wt.%)	Mg/Gm Rock			Hydrogen Index	Oxygen Index	Oil and Gas Shows Potential	Transformation Ratio	T _{max} (°C)	
		S1	S2	S3						
<u>Well: Alice-1</u>										
3410-	0.23	0.02	0.15	0.46	32.6	200.0	0.02	0.17	0.12	483*
3415										
3573-	0.24	0.07	0.29	0.48	120.8	200.0	0.07	0.36	0.19	420
3596										

* Tmax unreliable due to low S2 peak