Webb. Squatter 1.

PEP 118 16 FEB 1988
OTWAY BASIN

SQUATTER No. 1

WELL COMPLETION REPORT
TEXT & APPENDICES

BY

A. BUFFIN
JANUARY
1988

TEXT AND APPENDICES

BEACH PETROLEUM N.L.

(Incorporated in South Australia)

W.C.R. Vol 1.

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SQUATTER NO. 1.

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A. BUFFIN,
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Maturation and Source Rock Analysis

K.K. No.	Depth (m)	$\bar{R}_v$max	Range	N	Description Including Exinite Fluorescence
x7373	630-640 Ctgs	0.35	0.28-0.44	27	Rare to sparse liptodetrinite, greenish yellow to dull yellow, rare sporinite, greenish yellow to yellow, rare cutinite, yellow rare suberinite, weak brown. Siltstone >sandstone. Dom abundant, V>I>E. Vitrinite and inertinite common, exinite sparse. Most siltstones are iron stained Spare free oil droplets, yellow in mounting medium and siltstone. Iron oxide sparse to common. Pyrite abundant.)
x7374	780-790 Ctgs	0.36	0.2709,46	27	Rare ?phytoplankton/liptodetrinite greenish yellow to dull yellow, rare sporinite, yellow, rare cutinite, yellow. (Siltstone>sandstone>carbonate. Dom common, V>I>E. Vitrinite common, inertinite sparse, exinite rare. Most siltstones are iron stained. Iron oxide sparse. Pyrite common to abundant, mostly framboidal.)
x7375	990-1000 Ctgs	0.38	0.31-0.52	28	Rare to sparse ?phytoplankton/liptodetrinite, greenish yellow to dull yellow, rare sporinite, yellow. (Siltstone>sandstone>carbonate>coal. Coal rare, V. Vitrite. Dom abundant, I>V>E. Inertinite abundant, vitrinite sparse to common, exinite sparse. Diffuse humic organic matter present. Dom mainly consists of fine inertodetrinite. Iron oxide sparse. Pyrite common.)
x7376	1330-1340 Ctgs	0.40	0.31-0.55	29	Rare ?phytoplankton/liptodetrinite, greenish yellow and orange to dull orange, rare sporinite, dull orange. (Siltstone>claystone>coal. Coal rare, V. Vitrinite. Dom common, I>V>E>. Inertinite common, vitrinite sparse, exinite rare to sparse. Diffuse humic organic matter present. Dom mainly consists of fine inertodetrinite. Pyrite common.)
x7377	1380-1390 Ctgs	0.41	0.34-0.47	25	Rare phytoplankton/liptodetrinite, yellow to dull orange, rare sporinite, orange. (Siltstone>sandstone> claystone>coal. Coal rare, V=I. Vitrite=inertite. Dom abundant, I>V>E. Inertinite abundant, vitrinite sparse, exinite rare to sparse. Rare bright orange fluorescing bitumen in siltstone. Dom mainly consists of fine inertodetrinite. Pyrite common to abundant.)
x7378	1420-1430 Ctgs	0.47	0.36-0.56	24	Rare ?phytoplankton/liptodetrinite, yellow, rare sporinite, yellow to orange. (Sandstone>siltstone> claystone>coal. Coal sparse, V. Vitrite. Dom common, I>V>E. Inertinite common, vitrinite sparse, exinite rare. Micrinite abundant in come coals. Common fine specks of ?dead oil orange, in fine clastics. Sandstone lithologies mostly barren. Iron oxide rare. Pyrite sparse to common.)
x7379	1490-1500 Ctgs	0.47	0.35-0.58	15	Rare liptodetrinite, yellow to dull orange. (Siltstone>sandstone>coal. Coal sparse, V. Vitrite. Dom common, I>V>E. Inertinite sparse to common, vitrinite sparse, exinite rare. Pyrite sparse.)

VITRINITE REFLECTANCE WORKSHEET

WELL NAME. Squatte #1 SAMPLE NO. X7373 DEPTH. 630-640m TYPE. cfgl

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28	2	↑		.64				1.00				1.36				1.72							
.29	1			.65				1.01				1.37				1.73							
.30	1			.66				1.02				1.38				1.74							
.31	2			.67				1.03				1.39				1.75							
.32				.68				1.04				1.40				1.76							
.33	3			.69				1.05				1.41				1.77							
.34	1			.70				1.06				1.42				1.78							
.35	2			.71				1.07				1.43				1.79							
.36	6			.72				1.08				1.44				1.80							
.37	3			.73				1.09				1.45				1.81							
.38	1	FGV		.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40	1			.76				1.12				1.48				1.84							
.41	1			.77				1.13				1.49				1.85							
.42	2			.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44	1	↓		.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp.(%)	
Exinite	Alginite
0.2	0
Vitrinite	Inertinite
1.2	0.7

Kelraville Konsultants Pty Ltd.

VITRINITE REFLECTANCE WORKSHEET

WELL NAME Squatter No.1 SAMPLE NO. x7374 DEPTH 780-790m TYPE cttgs

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	1	↓		.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27	2	↑		.63				.99				1.35				1.71							
.28	1			.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30	1			.66				1.02				1.38				1.74							
.31	1			.67				1.03				1.39				1.75							
.32	2			.68				1.04				1.40				1.76							
.33				.69				1.05				1.41				1.77							
.34	3			.70				1.06				1.42				1.78							
.35	4			.71				1.07				1.43				1.79							
.36	5			.72				1.08				1.44				1.80							
.37	1			.73				1.09				1.45				1.81							
.38		FGV		.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40	2			.76				1.12				1.48				1.84							
.41	3			.77				1.13				1.49				1.85							
.42	1			.78				1.14				1.50				1.86							
.43				.79				1.15				1.51				1.87							
.44				.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp.(%)	
Exinite	Alginite
0.1	0
Vitrinite	Inertinite
0.7	0.4

Kelraville Konsultants Pty Ltd.

VITRINITE REFLECTANCE WORKSHEET

WELL NAME Squatter No. 1 SAMPLE NO. X7375 DEPTH 990-1000m TYPE ctgs

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	1			.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52	1	↓		.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28				.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30				.66				1.02				1.38				1.74							
.31	3	↑		.67				1.03				1.39				1.75							
.32	1			.68				1.04				1.40				1.76							
.33	2			.69				1.05				1.41				1.77							
.34				.70				1.06				1.42				1.78							
.35	1			.71				1.07				1.43				1.79							
.36	2			.72				1.08				1.44				1.80							
.37	2			.73				1.09				1.45				1.81							
.38	4			.74				1.10				1.46				1.82							
.39	3			.75				1.11				1.47				1.83							
.40	3	FGV		.76				1.12				1.48				1.84							
.41	1			.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43	1			.79				1.15				1.51				1.87							
.44	2			.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp.(%)

Exinite	Alginite
0.2	0

Vitrinite	Inertinite
0.5	2.0

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VITRINITE REFLECTANCE WORKSHEET

WELL NAME: Squatter-1 SAMPLE NO: X7376 DEPTH: 1330-1340m TYPE: cttgs

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49	1			.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54	1			.90				1.26				1.62				1.98			
.19				.55	2	↓		.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28				.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30				.66				1.02				1.38				1.74							
.31	1	↑		.67				1.03				1.39				1.75							
.32				.68				1.04				1.40				1.76							
.33	2			.69				1.05				1.41				1.77							
.34	2			.70				1.06				1.42				1.78							
.35	3			.71				1.07				1.43				1.79							
.36	1			.72				1.08				1.44				1.80							
.37	4			.73				1.09				1.45				1.81							
.38	4			.74				1.10				1.46				1.82							
.39				.75				1.11				1.47				1.83							
.40	3	FGV		.76				1.12				1.48				1.84							
.41	3			.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43	1			.79				1.15				1.51				1.87							
.44	1			.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp.(%)

Exinite	Alginite
0.1	0

Vitrinite	Inertinite
0.4	1.2

Kelraville Konsultants Pty Ltd.

VITRINITE REFLECTANCE WORKSHEET

WELL NAME: Squather SAMPLE NO: x7377 DEPTH: 1388-1390m TYPE: ctgs

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46	3	↓		.82				1.18				1.54				1.90			
.11				.47	2	↓		.83				1.19				1.55				1.91			
.12				.48				.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51				.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53				.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56				.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28				.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30				.66				1.02				1.38				1.74							
.31				.67				1.03				1.39				1.75							
.32				.68				1.04				1.40				1.76							
.33				.69				1.05				1.41				1.77							
.34	2	↑		.70				1.06				1.42				1.78							
.35				.71				1.07				1.43				1.79							
.36	3			.72				1.08				1.44				1.80				Organic matter Comp.(%)			
.37	3			.73				1.09				1.45				1.81				Exinite		Alginite	
.38	1			.74				1.10				1.46				1.82							
.39	3			.75				1.11				1.47				1.83				0·1		0	
.40	2			.76				1.12				1.48				1.84							
.41	1			.77				1.13				1.49				1.85				Vitrinite		Inertinite	
.42		FGV		.78				1.14				1.50				1.86							
.43	1			.79				1.15				1.51				1.87				0·3		2·0	
.44	1			.80				1.16				1.52				1.88							
.45	2			.81				1.17				1.53				1.89							

Kelraville Konsultants Pty Ltd.

VITRINITE REFLECTANCE WORKSHEET

WELL NAME Squatter-1 SAMPLE NO X7378 DEPTH 1420-1430m TYPE cfgs

FGV = First Generation Vitrinite - I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47	1			.83				1.19				1.55				1.91			
.12				.48	2			.84				1.20				1.56				1.92			
.13				.49	1			.85				1.21				1.57				1.93			
.14				.50	1			.86				1.22				1.58				1.94			
.15				.51	2			.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53	4			.89				1.25				1.61				1.97			
.18				.54	1			.90				1.26				1.62				1.98			
.19				.55	1			.91				1.27				1.63				1.99			
.20				.56	1	↓		.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58				.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28				.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30				.66				1.02				1.38				1.74							
.31				.67				1.03				1.39				1.75							
.32				.68				1.04				1.40				1.76							
.33				.69				1.05				1.41				1.77							
.34				.70				1.06				1.42				1.78							
.35				.71				1.07				1.43				1.79							
.36	1	↑		.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38				.74				1.10				1.46				1.82							
.39	1			.75				1.11				1.47				1.83							
.40	2			.76				1.12				1.48				1.84							
.41	1	FGV		.77				1.13				1.49				1.85							
.42				.78				1.14				1.50				1.86							
.43	2			.79				1.15				1.51				1.87							
.44	1			.80				1.16				1.52				1.88							
.45	2			.81				1.17				1.53				1.89							

Organic matter Comp.(%)

Exinite	Alginite
<0.1	0

Vitrinite	Inertinite
0.4	0.6

Keiraville Konsultants Pty Ltd.

VITRINITE REFLECTANCE WORKSHEET

WELL NAME Squatter-1 SAMPLE NO. X7379 DEPTH 1490-1500m TYPE cgs

FGV = First Generation Vitrinite I = Inertinite

Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	NO. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type	Ro %	No. Read	Pop Rnge	Pop Type
.10				.46				.82				1.18				1.54				1.90			
.11				.47				.83				1.19				1.55				1.91			
.12				.48	1			.84				1.20				1.56				1.92			
.13				.49				.85				1.21				1.57				1.93			
.14				.50				.86				1.22				1.58				1.94			
.15				.51	1			.87				1.23				1.59				1.95			
.16				.52				.88				1.24				1.60				1.96			
.17				.53	2			.89				1.25				1.61				1.97			
.18				.54				.90				1.26				1.62				1.98			
.19				.55				.91				1.27				1.63				1.99			
.20				.56	1			.92				1.28				1.64				2.00			
.21				.57				.93				1.29				1.65							
.22				.58	2	↓		.94				1.30				1.66							
.23				.59				.95				1.31				1.67							
.24				.60				.96				1.32				1.68							
.25				.61				.97				1.33				1.69							
.26				.62				.98				1.34				1.70							
.27				.63				.99				1.35				1.71							
.28				.64				1.00				1.36				1.72							
.29				.65				1.01				1.37				1.73							
.30				.66				1.02				1.38				1.74							
.31				.67				1.03				1.39				1.75							
.32				.68				1.04				1.40				1.76							
.33				.69				1.05				1.41				1.77							
.34				.70				1.06				1.42				1.78							
.35	1	↑		.71				1.07				1.43				1.79							
.36				.72				1.08				1.44				1.80							
.37				.73				1.09				1.45				1.81							
.38	1			.74				1.10				1.46				1.82							
.39	1			.75				1.11				1.47				1.83							
.40				.76				1.12				1.48				1.84							
.41	2			.77				1.13				1.49				1.85							
.42	1	PGV		.78				1.14				1.50				1.86							
.43	1			.79				1.15				1.51				1.87							
.44	1			.80				1.16				1.52				1.88							
.45				.81				1.17				1.53				1.89							

Organic matter Comp.(%)

Exinite	Alginite
<0.1	0

Vitrinite	Inertinite
0.3	0.5

Kelraville Konsultants Pty Ltd.

SQUATTER NO.1

KK No.	Depth (m)	TOC
x7373	630-640	1.10%
x7374	780-790	1.26%
x7375	990-1000	1.73%
x7376	1330-1340	1.39%
x7377	1380-1390	1.57%
x7378	1420-1430	0.64%
x7379	1490-1500	0.91%